

**Checklist and Bibliography of the Marine Benthic Algae
Within Chuuk, Pohnpei, and Kosrae States,
Federated States of Micronesia**

Roy T. Tsuda

Pacific Biological Survey
Bishop Museum

January 2006

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Within Chuuk, Pohnpei, and Kosrae States,
Federated States of Micronesia**

Prepared for:

**Marine Introduced Species Workshop in
Chuuk, Pohnpei, and Kosrae States,
Federated States of Micronesia**

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Pacific Biological Survey

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INTRODUCTION

The checklist and bibliography of the marine benthic algae from the three eastern states of the Federated States of Micronesia, i.e., Chuuk (Truk) State, Pohnpei (Ponape) State and Kosrae (Kusaie) State, serve as an update of the Micronesian algal bibliography initially prepared by Tsuda and Wray (1977) and Tsuda (1981). It presents a more detailed island and atoll distribution of the algae from the three states than recently presented by Lobban and Tsuda (2003). This particular checklist and bibliography has been presented in the same format as the other four algal checklists and bibliographies, i.e., Palau (Tsuda 2002a), Yap State, Federated States of Micronesia (Tsuda 2002b), Marshall Islands (Tsuda 2002c) and Mariana Islands (2003).

The classification system basically follows Silva et al. (1996), and synonymies are according to Silva et al. (1987, 1996). Citations which immediately follow the islands cited in capital letters, i.e., CHUUK, POHNPEI and KOSRAE, represents algae collected from the main high volcanic islands, i.e., the islands within Chuuk Lagoon and barrier reefs, the island of Pohnpei and barrier reefs, and the island of Kosrae. Algal records from Chuuk State also include collections made from the coral islands and atolls of Neoch (Kuop), Puluwat and Ulul. Algae from Pohnpei State were also collected from the low coral atolls of Ant, Mwokil (Mokil), Oroluk, Pingelap and Kapingamarangi.

Families and genera are listed in alphabetical order for easy retrieval. References are cited in chronological order and clearly show the collection history from each high island or low coral atoll. Species described as new from Chuuk, Pohnpei or Kosrae States are designated in boldface.

Thus far, five species of seagrasses have been reported from Chuuk (Tsuda et al. 1977). Three of the five species, i.e., *Thalassia hemprichii*, *Enhalus acoroides* and *Cymodocea rotundata*, have been also reported from Pohnpei and Kosrae (Tsuda et al. 1977, McDermid and Edward 1999). The two other species reported from Chuuk are *Halophila ovalis* and *Syringodium isoetifolium*.

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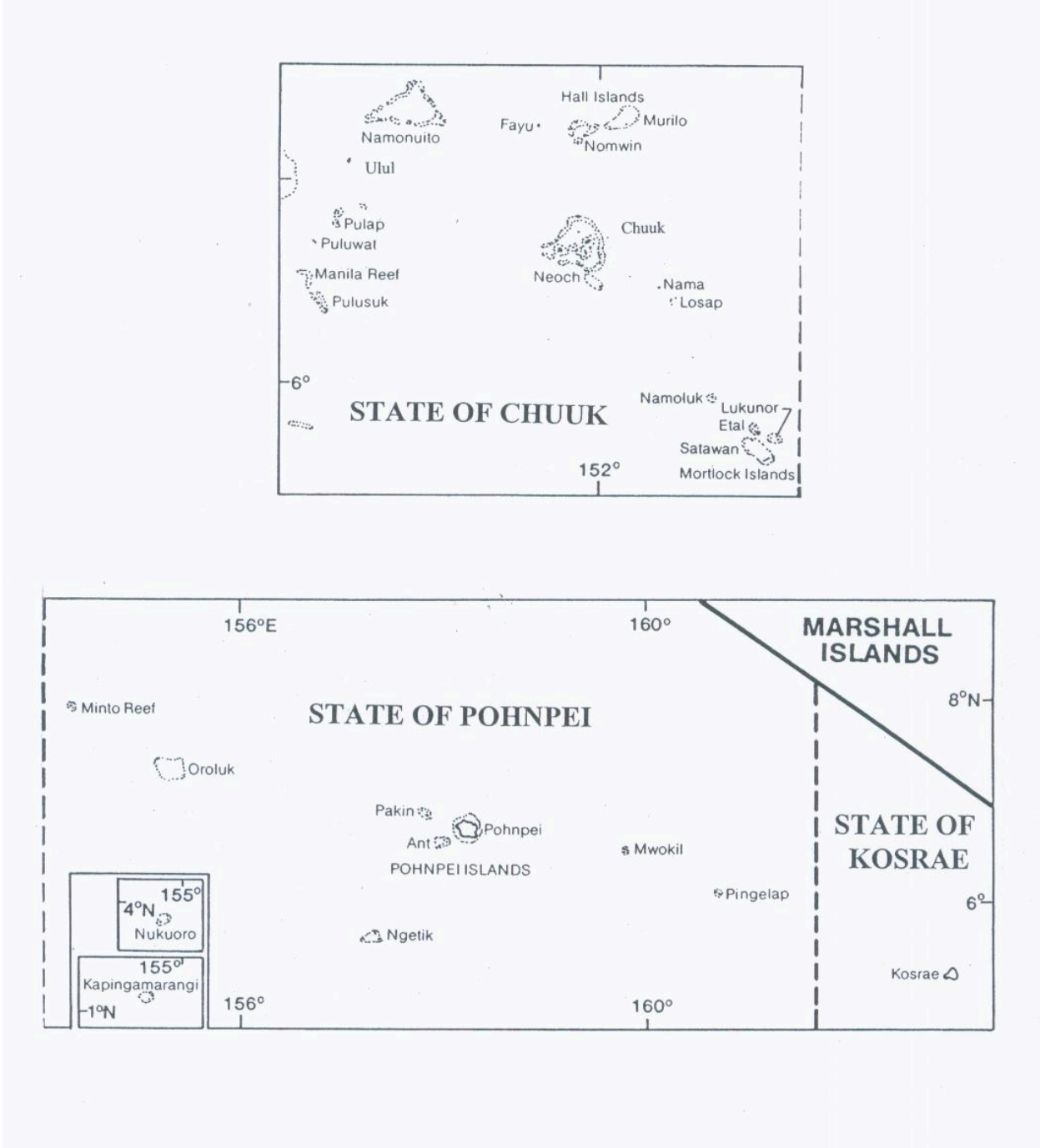


Figure 1. Map of Chuuk, Pohnpei and Kosrae States, eastern Federated States of Micronesia. Adapted from Motteler (1986).

SPECIES AND REFERENCES

Division CYANOPHYTA (Blue-Green Algae/Cyanobacteria)

Class Cyanophyceae

Order Chroococcales

Family Entophysalidaceae

Entophysalis conferta (Kützing) Drouet & Daily. POHNPEI. Kapingamarangi: Newhouse 1969.

Entophysalis deusta (Meneghini) Drouet & Daily. POHNPEI. Kapingamarangi: Newhouse 1969.

Family Microcystaceae

Aplanothece stagnina (Sprengel) A. Braun [= *Coccochloris stagnina* Sprengel]. POHNPEI. Kapingamarangi: Newhouse 1969.

Microcystis zanardini (Hauck) P. Silva [= *Anacystis aeruginosa* (Zanardini) Drouet & Daily]. POHNPEI. Kapingamarangi: Newhouse 1969 as *Anacystis aeruginosa*.

Order Oscillatoriales

Family Oscillatoriaceae

Blennothrix lyngbyacea (Kützing) Anagnostidis & Komárek [= *Hydrocoleum lyngbyaceum* Kützing]. CHUUK. Trono 1968. POHNPEI. Kapingamarangi: Newhouse 1969. Both as *Hydrocoleum lyngbyaceum*.

Lyngbya aestuarii (Mertens) Liebman. CHUUK. Trono 1968; Puluwat: Trono 1968. POHNPEI. Trono 1968; Mwokil: Trono 1968; Pingelap: Trono 1968. KOSRAE. Trono 1968.

Lyngbya confervoides C. Agardh. POHNPEI. Trono 1968; Kapingamarangi: Newhouse 1969. KOSRAE. Trono 1968.

Lyngbya lutea (C. Agardh) Areschoug. POHNPEI. Glassman 1952; Kapingamarangi: Newhouse 1969.

Lyngbya majuscula (Dillwyn) Harvey. CHUUK. Trono 1968; Puluwat: Trono 1968. POHNPEI. Trono 1968; Kapingamarangi: Newhouse 1969; Mwokil: Trono 1968. KOSRAE. Trono 1968.

Lyngbya penicilliformis P. Silva [= *Phormidium penicillatum* Gomont]. POHNPEI.

Kapingamarangi: Newhouse 1969 as *Phormidium penicillatum*.
Lyngbya sordida (Zanardini) Gomont. POHNPEI. Kapingamarangi: Newhouse 1969.
Oscillatoria margaritifera (Kützing) Gomont. POHNPEI. Kapingamarangi: Newhouse 1969.

Family Phormidiaceae

Hydrocoleum comoides (Harvey) Gomont. CHUUK. Trono 1968.
Hydrocoleum coccineum Gomont. POHNPEI. Kapingamarangi: Newhouse 1969.
Hydrocoleum glutinosum (C. Agardh) Gomont. POHNPEI. Kapingamarangi: Newhouse 1969.
Microcoleus chthonoplastes (Mertens) Zanardini. CHUUK. Trono 1968. POHNPEI. Kapingamarangi: Newhouse 1969. KOSRAE. Trono 1968.
Microcoleus lyngbyaceus (Kützing) P. Crouan & H. Crouan sensu Drouet (1968) [includes *Lyngbya majuscula* (Dillwyn) Harvey]. CHUUK. Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978. POHNPEI. Best and Pendleton 1980. KOSRAE. Eldredge et al. 1979.
Microcoleus vaginatus (Vaucher) Gomont. POHNPEI. Drouet 1968.
Phormidium chalybeum (Mertens) Anagnostidis & Komárek [= *Oscillatoria chalybea* Merten]. POHNPEI. Kapingamarangi: Newhouse 1969 as *Oscillatoria chalybea*.
Phormidium submembranaceum (Ardissonne & Strafforello) Gomont [= *Oscillatoria submembranacea* Ardissonne & Strafforello]. POHNPEI. Kapingamarangi: Drouet 1968 as *Oscillatoria submembranacea*.
Porphyrosiphon notarisii (Meneghini) Kützing. POHNPEI. Kapingamarangi: Drouet 1968, Newhouse 1969.
Sirocoleum kurzii (Zeller) Gomont. POHNPEI. Kapingamarangi: Newhouse 1969.
Spirulina subsalsa Oersted. CHUUK. Tsuda 1972. POHNPEI. Kapingamarangi: Drouet 1968, Newhouse 1969.
Symploca hydnoides (Harvey) Kützing. POHNPEI. Kapingamarangi: Newhouse 1969.
KOSRAE. Trono 1968.
Symploca muscorum (C. Agardh) Gomont. POHNPEI. Glassman 1952.

Family Pseudanabaenaceae

Geitlerinema amphibium (C. Agardh) Anagnostidis [= *Oscillatoria amphibia* C. Agardh]. POHNPEI. Kapingamarangi: Newhouse 1969 as *Oscillatoria amphibia*.
Leibleinia gracilis Meneghini [= *Lyngbya gracilis* (Meneghini) Rabenhorst]. POHNPEI. Kapingamarangi: Newhouse 1969 as *Lyngbya gracilis*.

Family Schizothrichaceae

Schizothrix arenaria (Berkeley) Gomont. POHNPEI. Kapingamarangi: Drouet 1968.
Schizothrix calcicola (C. Agardh) Gomont. CHUUK. Trono 1968, Tsuda 1972, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978; Puluwat: Trono 1968. POHNPEI. Trono 1968, Best and Pendleton 1980; Kapingamarangi: Drouet 1968, Newhouse 1969; Mwokil: Trono 1968. KOSRAE. Trono 1968, Eldredge et al. 1979.
Schizothrix longiarticulata Gardner. POHNPEI. Kapingamarangi: Newhouse 1969.

Schizothrix mexicana Gomont [Includes *Symploca hydroides* (Harvey) Kützing]. CHUUK. Tsuda 1972, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978. POHNPEI. Best and Pendleton 1980; Kapingamarangi: Drouet 1968. KOSRAE. Eldredge et al. 1979.
Schizothrix tenerrima (Gomont) Drouet [= *Microcoleus tenerrimus* Gomont]. POHNPEI. Kapingamarangi: Newhouse 1969 as *Microcoleus tenerrimus*.

Order Nostocales

Family Nostocaceae

Hormothamnium enteromorphoides Grunow [= *Hormothamnion enteromorphoides* Grunow]. CHUUK. Trono 1968, Clayshulte et al. 1978. POHNPEI. Trono 1968, Best and Pendleton 1980; Kapingamarangi: Newhouse 1969.
Hormothamnium solutum Bornet & Grunow [= *Hormothamnion solutum* Bornet & Grunow]. CHUUK. Tsuda 1972.

Family Rivulariaceae

Calothrix confervicola (Dillwyn) C. Agardh. CHUUK: Tsuda 1972.
Calothrix crustacea Thuret. POHNPEI. Glassman 1952; Kapingamarangi: Newhouse 1969.
Calothrix pilosa Harvey. POHNPEI. Kapingamarangi: Newhouse 1969; Oroluk: Trono 1968. KOSRAE. Trono 1968.
Dichothrix bornetiana Howe. POHNPEI. Kapingamarangi: Newhouse 1969.
Rivularia polyotis (J. Agardh) Hauck. POHNPEI. Kapingamarangi: Newhouse 1969.

Family Scytonemataceae

Scytonema hofman-bangii C. Agardh [= *Scytonema hofmannii* C. Agardh]. POHNPEI. Glassman 1952, Kapingamarangi: Newhouse 1969.

Order Stigonematales

Family Nostochopsidaceae

Mastigocoleus testarum Lagerheim. POHNPEI. Kapingamarangi: Newhouse 1969.

Division CHLOROPHYTA (Green Algae)

Class Chlorophyceae

Order Ulotrichales

Family Ulotrichaceae

Ulothrix flacca (Dillwyn) Thuret. POHNPEI. Ant: Hodgson & McDermid 2000.

Uronema marinum Womersley. POHNPEI. Ant: McDermid et al. 2002.

Order Ctenocladales

Family Ulvellaceae

Ulvella setchellii Dangeard. POHNPEI: Ant: Hodgson & McDermid 2000.

Order Ulvales

Family Ulvaceae

Enteromorpha clathrata (Roth) Greville. CHUUK. Tsuda 1972, Clayshulte et al. 1978.
POHNPEI. Ant: Hodgson & McDermid 2000. KOSRAE. Trono 1968.

Enteromorpha flexuosa (Wulfen) J. Agardh [= *Enteromorpha tubulosa* (Kützing)
Kützing]. POHNPEI. Hodgson & McDermid 2000.

Enteromorpha prolifera (O.F. Müller) J. Agardh. POHNPEI. Ant: Glassman 1953;
Kapingamarangi: Newhouse 1969.

Percursaria dawsonii Hollenberg & Abbott. POHNPEI. Ant: Hodgson & McDermid
2000.

Order Cladophorales

Family Anadyomenaceae

- Anadyomene wrightii* Harvey ex Gray. POHNPEI. Ant: Enomoto et al. 1986; Kapingamarangi: Newhouse 1969.
- Microdictyon mokilensis* Trono 1971**, Type from Mwokil. POHNPEI. Mwokil: Trono 1971.
- Microdictyon okamurai* Setchell. CHUUK. Trono 1968, Tsuda 1972; Neoch: Tsuda 1972; Puluwat: Trono 1968. POHNPEI. Trono 1968, Hodgson & McDermid 2000; Ant: Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969; Mwokil: Glassman 1953, Trono 1968; Oroluk: Trono 1968; Pingelap: Trono 1968.
- Microdictyon pseudohapteron* A. Gepp & E. Gepp. POHNPEI. Kapingamarangi: Newhouse 1969.
- Phyllodictyon anastomosans* (Harvey) Kraft & Wynne [= *Struvea anastomosans* (Harvey) Piccone & Grunow ex Piccone and *S. delicatula* Kützing]. CHUUK. Trono 1968. POHNPEI. Ant: Hodgson & McDermid 2000 as *Struvea anastomosans*.
- Rhipidiphyllon reticulatum* (Askenasy) Heydrich. CHUUK. Puluwat: Trono 1968. POHNPEI. Kapingamarangi: Newhouse 1969; Oroluk: Trono 1968;.

Family Cladophoraceae

- Chaetomorpha crassa* (C. Agardh) Kützing. POHNPEI. Trono 1968; Pingelap: Trono 1968. KOSRAE. Trono 1968.
- Cladophora boodleoides* Børgesen. CHUUK. Puluwat: Trono 1968. POHNPEI. Oroluk: Trono, 1968.
- Cladophora patentiramea* (Montagne) Kützing. POHNPEI. Schmidt 1928, Tokida 1939, Glassman 1952.
- Cladophora socialis* Kützing. POHNPEI. Hodgson & McDermid 2000; Ant: Yamada 1944b.
- Cladophora trichotoma* C. Agardh. KOSRAE. Trono 1968.
- Cladophora vagabunda* (Linnaeus) van den Hoek [= *Cladophora fascicularis* (Mertens ex C. Agardh) Kützing]. POHNPEI. Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000.
- Rhizoclonium africanum* (Kützing) Womersley & Bailey [= *Rhizoclonium samoense* Setchell]. CHUUK. Trono 1968 and Tsuda 1972 as *Rhizoclonium samoense*.
- Rhizoclonium hieroglyphicum* (J. Agardh) Kützing. POHNPEI. Kapingamarangi: Newhouse 1969.

Family Siphonocladaceae

- Boergesenia forbesii* (Harvey) Feldmann [= *Valonia forbesii* Harvey]. CHUUK. Schmidt 1928 and Tokida 1939 as *Valonia forbesii*, Trono 1968, Tsuda 1972, Clayshulte et al. 1978, Amesbury et al. 1981; Puluwat: Trono 1968. POHNPEI. Trono 1968, Best & Pendleton 1980; Ant: Enomoto et al. 1986, Hodgson & McDermid 2000.
- Boodlea coacta* (Dickie) Murray & DeToni. CHUUK. Okamura 1916, Tokida 1939.
- Boodlea composita* (Harvey) Brand [= *Boodlea siamensis* Reinbold and *Boodlea kaeneana* Brand]. CHUUK. Trono 1968, Amesbury et al., 1977, 1978, Clayshulte et al. 1978. POHNPEI. Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Yamada 1944b and Enomoto et al. 1986 as *Boodlea siamensis*, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969; Mwokil: Trono 1968. KOSRAE. Eldredge et al. 1979.
- Boodlea trukensis* Trono** 1971, Type from Chuuk. CHUUK. Trono 1971.
- Boodlea vanbosseae* Reinbold. POHNPEI. Trono 1968; Kapingamarangi: Newhouse 1969; Oroluk: Trono 1968; Pingelap: Trono 1968. KOSRAE. Trono 1968.
- Cladophoropsis carolinensis* Trono** 1971, Type from Kosrae. CHUUK. Trono 1971. KOSRAE. Trono 1971.
- Cladophoropsis membranacea* (Hofman Bang ex C. Agardh) Børgesen [= *Cladophora membranacea* (Hofman Bang ex C. Agardh) Bornet in Askenasy]. CHUUK. Trono 1968, Tsuda 1972. POHNPEI. Ant: Hodgson & McDermid 2000; Pingelap: Glassman 1953 as *Cladophora membranacea*. KOSRAE. Trono 1968.
- Cladophoropsis palauensis* Trono 1971. POHNPEI. Mwokil: Trono 1971.
- Dictyosphaeria cavernosa* (Forsskal) Børgesen [= *Dictyosphaeria favulosa* (C. Agardh) Decaisne ex Endlicher]. CHUUK. Tsuda 1972, Amesbury et al. 1977, 1978, Tsuda et al. 1977b, Clayshulte et al. 1978; Neoch: Tsuda 1972. POHNPEI. Ant: Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969; Mwokil: Glassman 1953 as *Dictyosphaeria favulosa*, Trono 1968; Pingelap: Trono 1968. KOSRAE: Trono 1968, Eldredge et al. 1979.
- Dictyosphaeria mutica* Yamada** 1944b, Type from Ant. POHNPEI. Ant: Yamada 1944b; Kapingamarangi: Newhouse 1969; Mwokil: Trono 1968.
- Dictyosphaeria versluysii* Weber-van Bosse [= *Dictyosphaeria setchellii* Børgesen and *Dictyosphaeria bokotensis* Yamada]. CHUUK. Puluwat: Trono 1968. POHNPEI. Ant: Yamada 1944b as *Dictyosphaeria bokotensis*; Kapingamarangi: Newhouse 1969 as *D. bokotensis*; Mwokil: Trono 1968.
- Siphonocladus tropicus* (P. Crouan & H. Crouan) J. Agardh [= *Siphonocladus rigidus* Howe]. POHNPEI. Kapingamarangi: Newhouse 1969 as *Siphonocladus rigidus*.
- Spongiocladia vaucheriaeformis* Areschoug [= *Cladophoropsis vaucheriaeformis* (Areschoug) Papenfuss]. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Glassman 1952.

Family Valoniaceae

- Valonia aegagropila* C. Agardh. CHUUK. Tokida 1939, Amesbury et al. 1981. POHNPEI. Schmidt 1928, Tokida 1939, Glassman 1952, Hodgson & McDermid 2000; Ant: Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969. KOSRAE. Trono 1968.
- Valonia fastigiata* Harvey ex J. Agardh. POHNPEI. Trono 1968, Best & Pendleton 1980. KOSRAE. Eldredge et al. 1979.
- Valonia utricularis* (Roth) C. Agardh CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939. POHNPEI. Trono 1968; Ant: Enomoto et al. 1986; Kapingamarangi: Newhouse 1969. KOSRAE. Trono 1968.
- Valoniopsis pachynema* (G. Martens) Børgesen. POHNPEI. Ant: Enomoto et al. 1986. KOSRAE. Trono 1968.
- Ventricaria ventricosa* (J. Agardh) Olsen & West [= *Valonia ventricosa* J. Agardh]. CHUUK. Tsuda 1972, Amesbury et al. 1978, 1981, Clayshulte et al. 1978; Puluwat: Trono 1968. POHNPEI. Trono 1968, Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969. KOSRAE. Eldredge et al. 1979. All as *Valonia ventricosa* except Hodgson & McDermid 2000.

Order Bryopsidales

Family Bryopsidaceae

- Bryopsis indica* A. Gepp & E. Gepp. POHNPEI. Kapingamarangi: Newhouse 1969.
- Bryopsis pennata* Lamouroux [= *Bryopsis harveyana* J. Agardh]. CHUUK. Tsuda 1972. POHNPEI. Ant: Enomoto et al. 1986 as *Bryopsis harveyana*, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969.
- Bryopsis plumosa* (Hudson) C. Agardh. CHUUK. Okamura 1916, Tokida 1939. POHNPEI. Kapingamarangi: Newhouse 1969.
- Derbesia fastigiata* W.R. Taylor. POHNPEI. Ant: Hodgson & McDermid 2000.
- Derbesia minima* Weber-van Bosse. POHNPEI. Kapingamarangi: Newhouse 1969.
- Halicystis pyriformis* Levring. KOSRAE. Trono, 1968.

Family Caulerpaceae

- Caulerpa antoensis* Yamada 1944a, Holotype from Ant. CHUUK. Puluwat: Trono 1968, Taylor 1977. POHNPEI. Ant: Yamada 1944a, Yamada 1944b, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969; Mwokil: Trono 1968, Taylor 1977; Pingelap: Trono 1968, Taylor 1977.
- Caulerpa brachypus* Harvey. CHUUK. Trono 1968, Tsuda 1972, Amesbury et al. 1977,

- Tsuda et al. 1977b, Clayshulte et al. 1978; Puluwat: Trono 1968, Taylor 1977. POHNPEI. Ant: Yamada 1940, Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000. KOSRAE. Yamada 1940, Yamada 1944b, Eldredge et al. 1979.
- Caulerpa cupressoides* (Vahl) C. Agardh. CHUUK. Trono 1968, Tsuda 1972, Taylor 1977, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978; Puluwat: Trono 1968, Taylor 1977; Ulul: Trono 1968, Taylor 1977. POHNPEI. Okamura 1916, Tokida 1939, Glassman 1952, Hodgson & McDermid 2000; Ant: Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Pingelap: Trono 1968, Taylor 1977. KOSRAE. Trono 1968, Taylor 1977, Eldredge et al. 1977.
- Caulerpa fastigiata* Montagne. KOSRAE. Yamada 1940, Trono 1968, Taylor 1977.
- Caulerpa filicoides* Yamada [= *Caulerpa acuta* (Yamada) Yamada]. CHUUK. Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, Tsuda et al. 1977b, Clayshulte et al. 1978. POHNPEI. Hodgson & McDermid 2000; Ant: Yamada 1940, Yamada 1944b as *Caulerpa acuta*, Enomoto et al. 1986, Hodgson & McDermid 2000.
- Caulerpa lentillifera* J. Agardh. CHUUK: Okamura 1916, Schmidt 1928, Tokida 1939, Trono 1968, Tsuda 1972, Tsuda et al. 1977b, Taylor 1977, Clayshulte et al. 1978. POHNPEI. Ant: Enomoto et al. 1986.
- Caulerpa lessonii* Bory de Saint-Vincent 1828.** Type from Kosrae. CHUUK. Taylor 1977. KOSRAE. Bory de Saint-Vincent 1828.
- Caulerpa matsueana* Yamada 1944a,** Type from Ant. POHNPEI. Ant: Yamada 1940, Yamada 1944a, Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000.
- Caulerpa microphysa* (Weber-van Bosse) J. Feldmann. POHNPEI. Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000.
- Caulerpa okamurai* Weber-van Bosse. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Glassman 1952.
- Caulerpa peltata* Lamouroux [= *Caulerpa macrodiscus* Decaisne]. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Trono 1968, Taylor 1977. POHNPEI. Yamada 1940, Trono 1968, Taylor 1977; Ant: Yamada 1940, Yamada 1944b, Enomoto et al. 1986.
- Caulerpa racemosa* (ForsskDl) J. Agardh. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Yamada 1940, Trono 1968, Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Taylor 1977, Clayshulte et al. 1978; Necho: Tsuda 1972. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Yamada 1940, Glassman 1952, Trono 1968, Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Yamada 1940, Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969; Pingelap: Trono 1968. KOSRAE. Okamura 1916, Schmidt 1928, Tokida 1939, Yamada 1940, Trono 1968, Eldredge et al. 1979.
- Caulerpa serrulata* (Forsskál) J. Agardh [= *Caulerpa boryana* J. Agardh and *Caulerpa*

freycinetii C. Agardh]. CHUUK: Trono 1968, Tsuda 1972, Taylor 1977, Amesbury et al. 1977, 1981, Clayshulte et al. 1978; Neoch: Tsuda 1972; Ulul: Trono 1968. POHNPEI. Okamura 1916 as *Caulerpa boryana*, Schmidt 1928 and Tokida 1939 as *Caulerpa freycinetii*, Glassman 1952 as *C. boryana* and *C. freycinetii*, Yamada 1940, Trono 1968, Taylor 1977, Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Yamada 1940, Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969; Mwokil: Trono 1968; Pingelap: Trono 1968. KOSRAE. Okamura 1916, Schmidt 1928 and Tokida 1939 as *Caulerpa freycinetii*, Yamada 1940, Trono 1968, Eldredge et al. 1979.

Caulerpa sertularioides (Gmelin) Howe [= *Caulerpa plumaris* (ForsskDI) Weber-van Bosse]. CHUUK. Okamura 1916, Schmidt 1928 and Tokida 1939 as *Caulerpa plumaris*, Taylor 1966, Trono 1968, Tsuda 1972, Taylor 1977, Amesbury et al. 1977, 1978; Ulul: Trono 1968. POHNPEI. Schmidt 1928 and Tokida 1939 as *Caulerpa plumaris*, Yamada 1940, Glassman 1952 as *C. plumaris*, Trono 1968, Hodgson & McDermid 2000; Ant: Enomoto et al. 1986. KOSRAE. Yamada 1940, Trono 1968, Eldredge et al. 1979.

Caulerpa taxifolia (Vahl) C. Agardh. CHUUK. Trono 1968, Tsuda 1972, Taylor 1977, Clayshulte et al. 1978. POHNPEI. Ant: Yamada 1940, Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000.

Caulerpa urvilleana Montagne [= *Caulerpa urvilliana* Montagne]. CHUUK. Trono 1968, Tsuda 1972, Taylor 1977, Clayshulte et al. 1978, Amesbury et al. 1981; Neoch: Tsuda 1972; Puluwat: Trono 1968; Ulul: Trono 1968. POHNPEI. Ant: Yamada 1940, Yamada 1944b, Enomoto et al. 1986; Kapingamarangi: Newhouse 1969; Mwokil: Trono 1968, Taylor 1977; Pingelap: Trono 1968, Taylor 1977. KOSRAE. Yamada 1940, Trono 1968.

Caulerpa verticillata J. Agardh. CHUUK. Tsuda 1972, Clayshulte et al. 1978, Amesbury et al. 1981. POHNPEI. Trono 1968, Tsuda et al. 1974, Taylor 1977; Ant: Yamada 1940, Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969.

Caulerpa webbiana Montagne [= *Caulerpa pickeringii* Harvey & Bailey]. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Amesbury et al. 1977.

Caulerpella ambigua (Okamura) Prud'homme van Reine & Lokhorst [= *Caulerpa ambigua* Okamura and *Caulerpa vickersiae* Børgesen]. CHUUK. Tsuda 1972, Tsuda et al. 1977b. POHNPEI. Ant: Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969. All as *Caulerpa ambigua*, except Hodgson & McDermid 2000.

Family Codiaceae

Codium arabicum Kützing CHUUK. Trono 1968. POHNPEI. Trono 1968;

Kapingamarangi: Newhouse 1969.
Codium edule P. Silva. CHUUK. Trono 1968, Tsuda 1972. POHNPEI. Trono 1968.
Codium geppiorum O. Schmidt [= *Codium geppii* O. Schmidt]. POHNPEI. Ant:
Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969. All as *Codium*
geppii.
Codium repens P. Crouan & H. Crouan. POHNPEI. Ant: Enomoto et al. 1986.

Family Halimedaceae

Halimeda copiosa Goreau & Graham [= *Halimeda hederacea* (Barton) Colinvaux].
CHUUK. Tsuda 1972, Tsuda et al. 1977b; Neoch: Tsuda 1972. KOSRAE.
Eldredge et al. 1979.
Halimeda bikinensis Taylor. POHNPEI. Hodgson & McDermid 2000.
Halimeda cuneata Hering. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939,
Yamada 1941a. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Yamada
1941a, Glassman 1952; Ant: Enomoto et al. 1986.
Halimeda cylindracea Decaisne. CHUUK. Trono 1968, Tsuda 1972, Tsuda et al. 1975,
Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978; Puluwat: Trono 1968.
POHNPEI. Ant: Hodgson & McDermid 2000; Kapingamarangi: Moul 1964,
Newhouse 1969.
Halimeda discoidea Decaisne. CHUUK. Trono 1968, Tsuda 1972, Amesbury et al.
1977, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978; Neoch: Tsuda 1972.
POHNPEI. Trono 1968, Best & Pendleton 1980, Hodgson & McDermid 2000;
Ant: Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Moul
1964, Newhouse 1969.
***Halimeda distorta* (Yamada) Colinvaux**, Type from Ant. POHNPEI. Hodgson &
McDermid 2000; Ant: Yamada, 1941a, 1944a and 1944b as *Halimeda incrassata*
f. *distorta* (new form), Colinvaux 1968; Kapingamarangi: Colinvaux 1968.

Halimeda fragilis Taylor. CHUUK. Ulul: Trono 1968. POHNPEI. Hodgson &
McDermid 2000; Ant: Hodgson & McDermid 2000; Kapingamarangi: Moul
1964, Newhouse 1969.
Halimeda gigas Taylor. CHUUK. Tsuda 1972, Amesbury et al. 1977, 1978, 1981,
Tsuda et al. 1977b, Clayshulte et al. 1978.
Halimeda gracilis Harvey ex J. Agardh. CHUUK. Tsuda 1972; Neoch: Tsuda 1972.
POHNPEI. Hodgson & McDermid 2000; Ant: Yamada 1941a, Yamada 1944b.
Halimeda incrassata (Ellis) Lamouroux [*Halimeda tridens* (Ellis & Solander) Lamouroux].
CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Yamada 1941a, Trono
1968, Tsuda 1972, Amesbury et al. 1977, Tsuda et al. 1977b, Clayshulte et al.
1978; Neoch: Tsuda, 1972; Ulul: Trono 1968. POHNPEI. Ant: Yamada 1941a,
Yamada 1944b, Best & Pendleton 1980, Enomoto et al. 1986; Kapingamarangi:

- Moul 1964, Newhouse 1969; Mwokil: Trono 1968; Pingelap: Trono 1968. KOSRAE. Eldredge et al. 1979.
- Halimeda lacunalis* W.R. Taylor. POHNPEI. Kapingamarangi: Moul 1964, Newhouse 1969.
- Halimeda macroloba* Decaisne. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Trono 1968, Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Yamada 1941a, Glassman 1952, Trono 1968, Tsuda et al. 1974, Best & Pendleton 1980, Hodgson & McDermid 2000. KOSRAE. Yamada 1941a, Trono 1968, Eldredge et al. 1979.
- Halimeda macrophysa* Askenasy. CHUUK. Trono 1968, Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978. POHNPEI. Yamada 1941a, Tsuda et al. 1974, Hodgson & McDermid 2000; Ant: Enomoto et al. 1986, Hodgson & McDermid 2000.
- Halimeda micronesica* Yamada 1944a**, Type from Ant. [*Halimeda orientalis* Gilbert]. CHUUK. Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978; Neoch: Tsuda 1972; Ulul: Trono 1968. POHNPEI. Trono 1968, Hodgson & McDermid 2000; Ant: Yamada 1941a, Yamada 1944a, Yamada 1944b, Hodgson & McDermid 2000; Kapingamarangi: Moul 1964, Newhouse 1969.
- Halimeda minima* (Taylor) Colinvaux. POHNPEI. Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000.
- Halimeda opuntia* (Linnaeus) Lamouroux [= *Halimeda cordata* J. Agardh]. CHUUK. Okamura 1916, Tokida 1939, Yamada 1941a, Trono 1968, Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978; Puluwat: Trono 1968; Ulul: Trono 1968. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Yamada 1941a, Glassman 1952, Trono 1968, Tsuda et al. 1974, Best & Pendleton 1980, Paul & Van Alstyne 1988, Hodgson & McDermid 2000; Ant: Yamada 1941a, Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Kapingamarangi: Moul 1964, Newhouse 1969; Mwokil: Glassman 1953, Trono 1968; Pingelap: Trono 1968. KOSRAE. Okamura 1916, Yamada 1941a, Trono 1968, Eldredge et al. 1979.
- Halimeda renschii* Hauck [= *Halimeda opuntia* f. *renschii*]. CHUUK. Okamura 1916 and Tokida 1939 as *Halimeda opuntia* f. *renschii*. POHNPEI. Yamada 1941a as *Halimeda opuntia* f. *renschii*; Ant: Hodgson & McDermid 2000.
- Halimeda simulans* Howe. CHUUK. Tsuda 1972, Clayshulte et al. 1978. POHNPEI. Hodgson & McDermid 2000. KOSRAE. Eldredge et al. 1979.
- Halimeda stuposa* W.R. Taylor. CHUUK. Tsuda 1972; Neoch: Tsuda 1972; Puluwat: Trono 1968; Ulul: Trono 1968. POHNPEI. Kapingamarangi: Moul 1964, Newhouse 1969.
- Halimeda taenicola* W.R. Taylor. CHUUK. Trono 1968; Ulul: Trono 1968. POHNPEI.

Ant: Hodgson & McDermid 2000; Kapingamarangi: Moul 1964, Newhouse 1969; Mwokil: Trono 1968; Pingelap: Trono 1968.

Halimeda tuna (Ellis & Solander) Lamouroux. CHUUK. Schmidt 1928, Tokida 1939, Trono 1968. POHNPEI. Glassman 1952, Trono 1968, Hodgson & McDermid 2000.

Halimeda velasquezii Taylor. CHUUK. Clayshulte et al. 1978.

Family Udoteaceae

Avrainvillea amadelpa (Montagne) A. Gepp & E. Gepp. POHNPEI. Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969. KOSRAE. Eldredge et al. 1979.

Avrainvillea erecta (Berkeley) A. Gepp & E. Gepp. POHNPEI. Trono 1968.

Avrainvillea lacerata Harvey ex J. Agardh. POHNPEI. Kapingamarangi: Olsen-Stojkovich 1985.

Avrainvillea nigricans Decaisne. CHUUK. Puluwat: Trono 1968, Olsen-Stojkovich 1985; Ulul: Trono 1968. POHNPEI. Trono 1968; Mwokil: Trono 1968.

Avrainvillea obscura (C. Agardh) J. Agardh. CHUUK. Tsuda et al. 1975, Amesbury et al. 1977, 1978, Clayshulte et al. 1978, Olsen-Stojkovich 1985. POHNPEI. Tsuda et al. 1974.

Avrainvillea pacifica A. Gepp & E. Gepp. CHUUK. Olsen-Stojkovich 1985.

***Chlorodesmis dotyi* Trono** 1971, Type from Mokil. POHNPEI. Mwokil: Trono 1971.

Chlorodesmis fastigiata (C. Agardh) Ducker [= *Chlorodesmis comosa* Harvey & Bailey]. CHUUK. Schmidt 1928 and Tokida 1939 as *Chlorodesmis comosa*, Trono 1968, Tsuda 1972, Clayshulte et al. 1978, Amesbury et al. 1981; Necho: Tsuda 1972. POHNPEI. Schmidt 1928, Tokida 1939 and Glassman 1952 as *C. comosa*, Trono 1968, Best & Pendleton 1980, Hodgson & McDermid 2000; Mwokil: Trono 1968.

Chlorodesmis hildebrandtii A. Gepp & E. Gepp. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Tsuda 1972. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Glassman 1952.

Rhipidosiphon javensis Montagne [= *Udotea javensis* (Montagne) A. Gepp & E. Gepp]. POHNPEI. Ant: Enomoto et al. 1986 as *Udotea javensis*, Hodgson & McDermid 2000.

Rhipilia diaphana Taylor. POHNPEI. Hodgson & McDermid 2000.

Rhipilia geppii Taylor. POHNPEI. Ant: Hodgson & McDermid 2000.

***Rhipilia micronesica* Yamada** 1944b, Type from Ant. POHNPEI. Ant: Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000.

Rhipilia orientalis A. Gepp & E. Gepp. CHUUK. Trono 1968, Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978. POHNPEI. Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Hodgson & McDermid.

Rhipilia sinuosa Gilbert (1978). CHUUK. Gilbert 1978. POHNPEI. Ant: Enomoto et al.

- 1986, Hodgson & McDermid 2000.
- Rhipilia tomentosa* Kützinger. CHUUK: Tsuda 1972.
- Tydemania expeditionis* Weber-van Bosse. CHUUK. Trono 1968, Tsuda 1972, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978. POHNPEI. Okamura 1916, Tokida 1939, Glassman 1952, Trono 1968, Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000.
- Udotea argentea* Zanardini. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Trono 1968, Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978; Neoch: Tsuda 1972; Ulul: Trono 1968. POHNPEI. Ant: Yamada 1944b, Enomoto et al. 1986, Hodgson & McDermid 2000; Mwokil: Trono 1968.
- Udotea geppii* Yamada. CHUUK. Tsuda 1972, Amesbury et al. 1977, Clayshulte et al. 1978; Neoch: Tsuda 1972, Tsuda et al. 1977b.
- Udotea indica* A. Gepp & E. Gepp. CHUUK. Trono 1968; Puluwat: Trono 1968; Ulul: Trono 1968. POHNPEI. Mwokil: Trono 1968.
- Udotea palmetta* Decaisne. CHUUK. Tsuda 1972; Neoch: Tsuda 1972.
- Udotea polychotomis* Cordero 1974, Type from Mwokil. CHUUK. Trono 1968 as *Udotea indica* A. Gepp & E. Gepp, Cordero 1974. POHNPEI. Mwokil: Trono 1968 as *U. indica*, Cordero 1974.

Order Dasycladales

Family Dasycladaceae

- Neomeris annulata* Dickie. CHUUK. Clayshulte et al. 1978, Amesbury et al. 1981. POHNPEI. Tsuda et al. 1974; Ant: Enomoto et al. 1986, Hodgson & McDermid 2000. KOSRAE. Eldredge et al. 1979.
- Neomeris bilimbata* Koster. POHNPEI. Ant: Hodgson & McDermid 2000.
- Neomeris van-bosseae* Howe. CHUUK. Tsuda 1972, Amesbury et al. 1977, 1978. POHNPEI. Trono 1968, Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969.

Family Polyphysaceae

- Acetabularia clavata* Yamada. CHUUK. Tsuda 1972. KOSRAE. Trono 1968.
- Acetabularia exigua* Solms-Laubach. KOSRAE. Trono 1968.
- Acetabularia parvula* Solms-Laubach [= *Acetabularia moebii* Solms-Laubach]. CHUUK. Trono 1968. POHNPEI. Ant: Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969. KOSRAE. Eldredge et al. 1979. All as *Acetabularia moebii*,

except Hodgson & McDermid 2000.

Division PHAEOPHYTA (Brown Algae)

Class Phaeophyceae

Order Ectocarpales

Family Ectocarpaceae

Asteronema breviarticulatum (J. Agardh) Ouriques & Bouzon [= *Hincksia breviarticulata* (J. Agardh) P. Silva and *Ectocarpus breviarticulatus* J. Agardh]. CHUUK. Amesbury et al. 1977 as *Ectocarpus breviarticulatus*. POHNPEI. Best & Pendleton 1980 as *Ectocarpus* cf. *breviarticulatus*; Ant: Hodgson & McDermid 2000 as *Hincksia breviarticulata*. KOSRAE. Trono 1969 as *Ectocarpus breviarticulatus*.

Feldmannia columellaris (Børgesen) Islam [= *Ectocarpus columellaris* Børgesen]. CHUUK: Trono 1969 as *Ectocarpus columellaris*.

Feldmannia irregularis (Kützing) Hamel [= *Ectocarpus irregularis* Kützing]. CHUUK. Trono 1969 as *Ectocarpus irregularis*.

Hincksia indica (Sonder) J. Tanaka [= *Ectocarpus indicus* Sonder, *Giffordia indica* (Sonder) Papenfuss & Chihara and *Feldmannia indica* (Sonder) Womersley & Bailey]. CHUUK. Trono 1969 as *Ectocarpus indicus*, Amesbury et al. 1977 as *Feldmannia indica*. POHNPEI. Kapingamarangi: Newhouse 1969 as *Ectocarpus indicus*.

Hincksia mitchelliae (Harvey) P. Silva [= *Ectocarpus mitchelliae* Harvey and *Giffordia mitchelliae* (Harvey) G. Hamel]. POHNPEI. Kapingamarangi: Newhouse 1969.

Family Ralfsiaceae

Hapalospongidion pangoense (Setchell) P. Silva [= *Ralfsia pangoensis* Setchell]. POHNPEI. Best & Pendleton 1980 as *Ralfsis pangoensis*.

Ralfsia expansa J. Agardh. CHUUK. Trono 1969.

Order Sphacelariales

Family Sphacelariaceae

Sphacelaria carolinensis Trono 1971, Type from Kosrae. KOSRAE. Trono 1971.

Sphacelaria novae-hollandiae Sonder. POHNPEI. Ant: Yamada 1944b; Kapingamarangi: Newhouse 1969.

- Sphacelaria rigidula* Kützing [= *Sphacelaria furcigera* Kützing]. CHUUK. Trono 1969 as *Sphacelaria furcigera*.
- Sphacelaria tribuloides* Meneghini [= *Sphacelaria rigida* (Hering) Kützing]. CHUUK. Amesbury et al. 1977. POHNPEI. Trono 1969.

Order Dictyotales

Family Dictyotaceae

- Dictyopteris repens* (Okamura) Børgesen [*Neurocarpus repens* Okamura and *Haliseris repens* Okamura 1916]. CHUUK. Okamura 1916 as *Haliseris repens*, Tokida 1939 as *Neurocarpus repens*, Tsuda 1972, Tsuda et al. 1977b. POHNPEI. Ant: Hodgson & McDermid 2000.
- Dictyota acutiloba* J. Agardh. POHNPEI. Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000.
- Dictyota bartayresiana* Lamouroux [= *Dictyota bartayresii* Lamouroux]. CHUUK. Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978. POHNPEI. Tsuda et al. 1974, Hodgson & McDermid 2000; Ant: Yamada 1944b. KOSRAE. Eldredge et al. 1979.
- Dictyota ceylanica* Kützing [*Dictyota dichotoma* (Hudson) Lamouroux = *Dictyota divaricata* Lamouroux]. CHUUK. Clayshulte et al. 1978. POHNPEI. Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000. All as *Dictyota divaricata*.
- Dictyota dichotoma* (Hudson) Lamouroux [= *Dictyota apiculata* J. Agardh]. CHUUK. Tsuda 1972 as *Dictyota apiculata*.
- Dictyota friabilis* Setchell. CHUUK. Trono 1969. POHNPEI. Trono 1969, Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969. KOSRAE. Trono 1969.
- Dictyota grossedentata* De Clerck & Coppejans [*Dictyota bartayresiana* Lamouroux = *Dictyota patens* J. Agardh]. CHUUK. Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939 and Glassman 1952 as *Dictyota patens*; Kapingamarangi: Newhouse 1969. All as *Dictyota patens*.
- Lobophora variegata* (Lamouroux) Womersley ex Oliveira [= *Gymnosorus variegatus* (Lamouroux) J. Agardh, *Zonaria variegata* (Lamouroux) Mertens or Martens and *Pocockiella variegata* (Lamouroux) Papenfuss]. CHUUK. Trono 1969, Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978. POHNPEI. Trono 1969, Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Yamada 1944b as *Zonaria variegata*, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969 as *Pocockiella variegata*. KOSRAE. Trono 1969, Eldredge et al. 1979.
- Padina australis* Hauck. CHUUK. Trono 1969. POHNPEI. Trono 1969, Hodgson & McDermid 2000. KOSRAE. Trono 1969.

Padina boergesenii Allender & Kraft. POHNPEI. Hodgson & McDermid 2000.

Padina boryana Thivy in Taylor [= *P. tenuis* (C. Agardh) Bory and *P. commersonii* Bory de Saint-Vincent]. CHUUK. Tsuda 1972, Amesbury et al. 1977, 1978 as *Padina tenuis*, Clayshulte et al. 1978 as *P. tenuis*. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939 and Glassman 1952 as *Dilophus radicans* Okamura, n.sp. [= vaughaniella stage of *Padina boryana*], Tsuda et al. 1974 as *Padina tenuis*, Hodgson & McDermid 2000 as *Padina tenuis*; Kapingamarangi: Newhouse 1969 as *Padina commersonii*.

Padina jonesii Tsuda. CHUUK. Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978.

Padina minor Yamada. CHUUK. Trono 1969; Puluwat: Trono 1969. POHNPEI. Trono 1969; Ant: Yamada 1944b.

Padina pavonica (Linnaeus) Thivy [= *Padina pavonia* Linnaeus]. CHUUK. Okamura 1916 and Tokida 1939 as *Padina pavonia*. POHNPEI. Okamura 1916 and Tokida 1939 as *P. pavonia*, Glassman 1952 as *P. pavonina*. KOSRAE. Okamura 1916 and Tokida 1939 as *P. pavonia*.

Padina sanctaerucis Børgesen [= *Padina japonica* Yamada]. CHUUK. Trono 1969 as *Padina japonica*.

Stypopodium hawaiiensis (Doty & Newhouse) Abbott [= *Zonaria hawaiiensis* Doty & Newhouse]. CHUUK. Tsuda 1972 as *Zonaria hawaiiensis*.

Order Scytosiphonales

Family Chnoosporaceae

Chnoospora minima (Hering) Papenfuss. POHNPEI. McDermid et al. 2002.

Family Scytosiphonaceae

Colpomenia sinuosa (Mertens ex Roth) Derbés & Solier. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Glassman 1952.

Hydroclathrus clathratus (C. Agardh) Howe [= *Hydroclathrus cancellatus* Bory de Saint-Vincent]. CHUUK. Okamura 1916, Schmidt 1928 and Tokida 1939 as *Hydroclathrus cancellatus*, Trono 1969, Tsuda 1972, Amesbury et al. 1977, 1978, Clayshulte et al. 1978. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939 and Glassman 1952 as *H. cancellatus*, Trono 1969, Best and Pendleton 1980, Hodgson & McDermid 2000; Ant: Hodgson & McDermid 2000.

Rosenvingeia intricata (J. Agardh) Børgesen [= *Asperococcus intricatus* J. Agardh]. CHUUK. Amesbury et al. 1977, 1978, Clayshulte et al. 1978. POHNPEI. Hodgson & McDermid 2000.

Order Fucales

Family Sargassaceae

- Sargassum crassifolium* J. Agardh. CHUUK. Tsuda 1972 as *Sargassum* sp. POHNPEI. Ant: Hodgson & McDermid 2000 as *Sargassum* sp.
- Sargassum cristaefolium* C. Agardh. CHUUK. Tsuda 1972 as *Sargassum duplicatum* J. Agardh, DeWreede 1973, Tsuda 1988. POHNPEI. Okamura 1916, Tokida 1939, Glassman 1952, DeWreede 1973, Tsuda 1988, Hodgson & McDermid 2000. KOSRAE. Eldredge et al. 1979.
- Sargassum granuliferum* C. Agardh. CHUUK. DeWreede 1973. POHNPEI. DeWreede 1973.
- Sargassum ilicifolium* (Turner) C. Agardh. POHNPEI. Glassman 1952.
- Sargassum polycystum* C. Agardh. CHUUK. Amesbury et al. 1978, Clayshulte et al. 1978. POHNPEI. Tsuda 1988, Best & Pendleton 1980, Hodgson & McDermid 2000.
- Turbinaria decurrens* Bory. POHNPEI. Best & Pendleton 1980, Hodgson & McDermid 2000.
- Turbinaria ornata* (Turner) J. Agardh. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Trono 1969, Tsuda 1972, Amesbury et al. 1977, 1978, 1981, Tsuda et al. 1977b, Clayshulte et al. 1978; Necho: Tsuda 1972. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Glassman 1952, Trono 1969, Best & Pendleton 1980, Hodgson & McDermid 2000; Ant: Yamada 1944b, Hodgson & McDermid 2000; Kapingamarangi: Newhouse 1969; Mwokil: Trono 1969. KOSRAE. Trono 1969, Eldredge et al. 1979.

Division RHODOPHYTA (Red Algae)

Class Rhodophyceae

Subclass Bangiophycidae

Order Porphyridiales

Family Porphyridiaceae

- Stylonema alsidii* (Zanardini) Drew. POHNPEI. McDermid et al. 2002; Ant: McDermid

et al. 2002.
Stylonema cornu-cervi Reinsch. POHNPEI. Ant: McDermid et al. 2002.

Order Erythropeltiales

Family Erythrotrichiaceae

Erythrotrichia carnea (Dillwyn) J. Agardh [= *Goniotrichum alsidii* (Zanardini) Howe].
POHNPEI. Glassman 1952 as *Goniotrichum alsidii*, McDermid et al. 2002; Ant:
McDermid et al. 2002; Pingelap: Trono 1969.

Subclass Florideophycidae

Order Acrochaetiales

Family Acrochaetiaceae

Acrochaetium gracile Børgesen. POHNPEI. McDermid et al. 2002.
Acrochaetium robustum Børgesen. CHUUK. Trono 1969.
Acrochaetium seriatum Børgesen. POHNPEI. McDermid et al. 2002.

Order Nemaliales

Family Galaxauraceae

Actinotrichia fragilis (Forsskål) Børgesen [= *Actinotrichia rigida* (Lamouroux) Decaisne].
CHUUK. Trono 1969, Tsuda 1972, Amesbury et al. 1977, 1978, Clayshulte et al.
1978. POHNPEI. Trono 1969, Tsuda et al. 1974, Best & Pendleton 1980,
McDermid et al. 2002; Ant: McDermid et al. 2002. KOSRAE. Trono 1969,
Eldredge et al. 1979.
Galaxaura fasciculata Kjellman. CHUUK. Tsuda 1972, Amesbury et al. 1977 and 1978
as *Galaxaura fascicularis*, Amesbury et al. 1981, Itono 1980. POHNPEI. Trono
1969, Itono 1980.
Galaxaura filamentosa Chou. CHUUK. Puluwat: Trono 1969.
Galaxaura obtusata (Ellis & Solander) Lamouroux [= *Galaxaura robusta* Kjellman].
CHUUK. Itono 1980 as *Galaxaura robusta*.
Galaxaura rugosa (Ellis & Solander) Lamouroux [= *G. elongata* J. Agardh, *G.*

glabriuscula Kjellman, *G. lapidescens* (Ellis & Solander) Lamouroux, *G. pacifica* Tanaka, *G. squalida* Kjellman, *G. subfruticulosa* Chou and *G. subverticillata* Kjellman]. POHNPEI. McDermid et al. 2002.

Tricleocarpa cylindrica (Ellis & Solander) Huisman & Borowitzka (= *Galaxaura cylindrica* and *G. fastigiata* Decaisne]. CHUUK. Tsuda 1972 as *Galaxaura fastigiata*.

Tricleocarpa fragilis (Linnaeus) Huisman & Townsend [= *Galaxaura oblongata* (Ellis & Solander) Lamouroux]. CHUUK. Tsuda 1972, Itono 1980. POHNPEI. Trono 1969, Itono 1980, McDermid et al. 2002. All as *Galaxaura oblongata*, except McDermid et al. 2002.

Family Liagoraceae

Ganonema farinosum (Lamouroux) Fan & Wang [= *Liagora farinosa* Lamouroux]. CHUUK. Trono 1969 as *Liagora farinosa*.

Order Gelidiales

Family Gelidiaceae

Gelidium divaricatum G. Martens. CHUUK. Amesbury et al. 1977, Clayshulte et al. 1978.

Gelidium pusillum (Stackhouse) Le Jolis. POHNPEI. Trono 1969. KOSRAE. Trono 1969.

Pterocladia caloglossoides (Howe) Dawson [= *Pterocladia parva* Dawson]. CHUUK. Amesbury et al. 1977.

Family Gelidiellaceae

Gelidiella adnata Dawson. POHNPEI. Ant: McDermid et al. 2002.

Gelidiella machrisiana Dawson. POHNPEI. McDermid et al. 2002.

Gelidiella myrioclada (Børgesen) J. Feldmann & G. Hamel. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.

Order Gracilariales

Family Gracilariaceae

Gracilaria coronopifolia J. Agardh. POHNPEI. Yamada 1941b, Ajisaka et al. 1986.

Gracilaria crassa Harvey ex J. Agardh. POHNPEI. Trono 1969, Ajisaka et al. 1986. KOSRAE. Trono 1969.

Gracilaria salicornia (C. Agardh) Dawson [= *Corallopsis salicornia* (C. Agardh)

Greville, *Corallopsis cacalia* J. Agardh and *Corallopsis minor* (Sonder) J. Agardh]. POHNPEI. Schmidt 1928, Tokida 1939 and Glassman 1952 as *Corallopsis minor*, Tsuda et al. 1974, Best & Pendleton 1980, Meneses & Abbott 1987, McDermid et al. 2002; Ant: McDermid et al. 2002. KOSRAE. Eldredge et al. 1979 as *Gracilaria arcuata* Zanardini.

Order Bonnemaisionales

Family Bonnemaisioniaceae

Asparagopsis taxiformis (Delile) Trevisan. CHUUK. Amesbury et al. 1977, 1978, 1981. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.

Order Cryptonemiales

Family Halymeniaceae

Cryptonemia umbraticola Dawson. POHNPEI. Ant: McDermid et al. 2002.

Halymenia dilatata Zanardini. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.

Halymenia durvillei Bory. POHNPEI. Best & Pendleton 1980. KOSRAE. Trono 1969, Eldredge et al. 1979.

Halymenia floresia (Clemente y Rubio) C. Agardh. KOSRAE. Trono 1969.

Family Peyssonneliaceae

Peyssonnelia inamoena Pilger. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.

Peyssonnelia rubra (Greville) J. Agardh. CHUUK. Tsuda 1972, Clayshulte et al. 1978, Amesbury et al. 1981. KOSRAE. Eldredge et al. 1979.

Family Rhizophyllidaceae

Portieria hornemannii (Lyngbye) P. Silva [= *Desmia hornemannii* Lyngbye and *Chondrococcus hornemannii* (Mertens) Schmitz]. POHNPEI. Trono 1969 as *Desmia hornemannii*, McDermid et al. 2002. KOSRAE. Eldredge et al. 1979 as *D. hornemannii*.

Order Corallinales

Family Corallinaceae

- Amphiroa beauvoisii* Lamouroux. POHNPEI. McDermid et al. 2002.
- Amphiroa foliacea* Lamouroux. CHUUK. Trono 1969, Tsuda 1972, Amesbury et al. 1977, 1978, Clayshulte et al. 1978. POHNPEI. Trono 1969, Best & Pendleton 1980. KOSRAE. Trono 1969, Eldredge et al. 1979.
- Amphiroa fragilissima* (Linnaeus) Lamouroux. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939, Trono 1969, Amesbury et al. 1977, 1978, Clayshulte et al. 1978. POHNPEI. Trono 1969, Best & Pendleton 1980. KOSRAE. Trono 1969, Eldredge et al. 1979.
- Amphiroa misakiensis* Yendo. POHNPEI. McDermid et al. 2002.
- Amphiroa valonioides* Yendo. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Cheilosporum spectabile* Harvey ex Grunow. POHNPEI. McDermid et al. 2002.
- Corallina frondescens* Postels & Ruprecht [= *Corallina pinnatifolia* (Manza) Dawson. CHUUK. Amesbury et al. 1977. KOSRAE. Trono 1969. Both as *Corallina pinnatifolia*.
- Hydrolithon craspedium* (Foslie) Silva [= *Porolithon craspedium* (Foslie) Foslie]. CHUUK. Neoch: Tsuda 1972 as *Porolithon craspedium*.
- Hydrolithon farinosum* (Lamouroux) Penrose & Y.M. Chamberlain [= *Fosliella farinosa* (Lamouroux) Howe]. CHUUK. Trono 1969 as *Fosliella farinosa*; Neoch: Tsuda 1972 as *Fosliella farinosa*. POHNPEI. Trono 1969 as *Fosliella farinosa*. KOSRAE. Trono 1969 as *Fosliella farinosa*.
- Jania adhaerens* Lamouroux. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Jania capillacea* Harvey. CHUUK. Tsuda 1972, Tsuda et al. 1975, Amesbury et al. 1977, 1981, Clayshulte 1978. POHNPEI. Trono 1969, Tsuda et al. 1974; Mwokil: Trono 1969. KOSRAE. Trono 1969, Eldredge et al. 1979.
- Jania decussatodichotoma* (Yendo) Yendo. CHUUK. Trono 1969. POHNPEI. Trono 1969.
- Jania pumila* Lamouroux. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Jania tenella* (Kützting) Grunow. CHUUK. Trono 1969. POHNPEI. Trono 1969.
- Jania ungulata* (Yendo) Yendo. POHNPEI. Trono 1969.
- Lithophyllum kotschyianum* Unger. CHUUK. Amesbury et al. 1981.
- Neogoniolithon brassica-florida* (Harvey) Setchell & Mason [= *Goniolithon fosliei* (Heydrich) Foslie, *Goniolithon frutescens* Foslie, *Neogoniolithon fosliei* (Heydrich) Setchell & Mason and *Neogoniolithon frutescens* (Foslie) Setchell & Mason]. CHUUK. Amesbury et al. 1981 as *Neogoniolithon frutescens*.

Order Gigartinales

Family Acrotylaceae

Corynocystis prostrata Kraft. POHNPEI. Ant: McDermid et al. 2002.

Family Caulacanthaceae

Caulacanthus ustulatus (Turner ex Mertens) Kützing. POHNPEI. Ant: McDermid et al. 2002.

Family Furcellariaceae

Halarachnion calcareum Okamura 1916, Type from Pohnpei. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Glassman 1952.

Family Gigartinaceae

Chondracanthus tenellus (Harvey) Hommersand. POHNPEI. Ant: McDermid et al. 2002.

Family Hypneaceae

Hypnea esperi auctorum. CHUUK. Trono 1969; Neoch: Tsuda 1972; Puluwat: Trono 1969. POHNPEI. Ant: Yamada 1944b. KOSRAE. Trono 1969.

Hypnea pannosa J. Agardh. CHUUK. Trono 1969, Amesbury et al. 1977, 1978, 1981, Clayshulte et al. 1978. POHNPEI. Okamura 1916, Tokida 1939, Glassman 1952, McDermid et al. 2002; Ant: McDermid et al. 2002.

Hypnea spinella (C. Agardh) Kützing. POHNPEI. McDermid et al. 2002, Ant: McDermid et al. 2002.

Hypnea valentiae (Turner) Montagne. CHUUK. Puluwat: Trono 1969. POHNPEI. Trono 1969, McDermid et al. 2002. KOSRAE. Trono 1969.

Family Nemastomataceae

Predaea weldii Kraft & Abbott. POHNPEI. McDermid et al. 2002.

Family Schizymeniaceae

Titanophora weberae Børgesen. POHNPEI. McDermid et al. 2002.

Family Solieriaceae

Kappaphycus alvarezii (Doty) Doty ex Silva [= *Eucheuma alvarezii* Doty]. POHNPEI.
Doty 1985, Ajisaka et al. 1986.

Order Rhodymeniales

Family Champiaceae

Champia compressa Harvey. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939,
Tsuda 1972, Tsuda et al. 1977b. POHNPEI. Okamura 1916, McDermid et al.
2002; Ant: McDermid et al. 2002.

Champia parvula (C. Agardh) Harvey. CHUUK. Okamura 1916, Schmidt 1928, Tokida
1939, Trono 1969, Clayshulte et al. 1978. POHNPEI. Schmidt 1928, Tokida
1939, Glassman 1952, McDermid et al. 2002; Ant: McDermid et al. 2002;
KOSRAE. Trono 1969.

Family Lomentariaceae

Gelidiopsis intricata (C. Agardh) Vickers. CHUUK. Trono 1969, Tsuda 1972, Tsuda et
al. 1975, Amesbury et al. 1977, 1978. POHNPEI. McDermid et al. 2002; Ant:
Yamada 1944b, McDermid et al. 2002. KOSRAE. Trono 1969.

Gelidiopsis repens (Kützinger) Weber-van Bosse. [= *Gelidiopsis acrocarpa* (Harvey ex
Kützinger) De Toni]. CHUUK. Okamura 1916, Schmidt 1928 and
Tokida 1939 as *Gelidiopsis acrocarpa*. POHNPEI. Ant: McDermid et al. 2002.

Gelidiopsis scoparia (Montagne & Millardet) DeToni. POHNPEI. McDermid et al. 2002.

Gelidiopsis variabilis (J. Agardh) Schmitz. POHNPEI. McDermid et al. 2002.

Gloiocladia iyoense (Okamura) R.E. Norris. POHNPEI. Ant: McDermid et al. 2002.

Lomentaria hakodatensis Yendo. KOSRAE. Trono 1969.

Family Rhodymeniaceae

Ceratodictyon spongiosum Zanardini. CHUUK. Okamura 1916, Schmidt 1928, Tokida
1939, Trono 1969, Tsuda 1972. POHNPEI. Trono 1969; Mwokil: Trono 1969.
KOSRAE. Trono 1969.

Coelothrix irregularis (Harvey) Børgesen. CHUUK. Trono 1969. POHNPEI.
McDermid et al. 2002.

Erythrocolon podagricum (J. Agardh in Grunow) J. Agardh ex Kylin. POHNPEI. Trono
1969.

Halichrysis coalescens (Farlow) R.E. Norris & Millar. POHNPEI. Ant: McDermid et al.
2002.

Rhodymenia divaricata Dawson. POHNPEI. Trono 1969.

Order Ceramiales

Family Ceramiaceae

- Aglaothamnion boergesenii* (Aponte & Ballentine) L'Hardy-Halos & Rueness.
POHNPEI. Ant: McDermid et al. 2002.
- Anotrichium tenue* (C. Agardh) Nägeli [= *Griffithsia tenuis* C. Agardh]. POHNPEI.
McDermid et al. 2002; Ant: McDermid et al. 2002.
- Antithamnion antillanum* Børgesen. CHUUK. Trono 1969. POHNPEI. McDermid et al.
2002.
- Antithamnionella breviformis* (Dawson) Wollaston. POHNPEI. McDermid et al. 2002;
Ant: McDermid et al. 2002.
- Antithamnionella graeffei* (Grunow) Athanasiadis. POHNPEI. McDermid et al. 2002;
Ant: McDermid et al. 2002.
- Callithamnion marshallense* Dawson. CHUUK. Clayshulte et al. 1978.
- Centroceras clavulatum* (C. Agardh) Montagne [= *Ceramium clavulatum* C. Agardh].
CHUUK. Amesbury et al. 1977, 1978, Clayshulte et al. 1978. POHNPEI.
Okamura 1916 and Tokida 1939 as *Ceramium clavulatum*, Glassman 1952 as
Ceramium clavulatum, McDermid et al. 2002; Ant: McDermid et al. 2002;
Mwokil: Trono 1969. KOSRAE. Okamura 1916 and Tokida 1939 as *Ceramium
clavulatum*.
- Centroceras minutum* Yamada** 1944b. POHNPEI. Trono 1969, McDermid et al. 2002;
Ant: Yamada 1944b, McDermid et al. 2002; Mwokil: Trono 1969.
- Ceramium aduncum* Nakamura. POHNPEI. McDermid et al. 2002; Ant: McDermid et
al. 2002.
- Ceramium borneense* Weber-van Bosse. POHNPEI. Ant: McDermid et al. 2002.
- Ceramium clarionensis* Setchell & Gardner [= *Ceramium marshallense* Dawson].
POHNPEI. Ant: McDermid et al. 2002.
- Ceramium codii* (Richards) G. Mazoyer. POHNPEI. Ant: McDermid et al. 2002.
- Ceramium fimbriatum* Setchell & Gardner. POHNPEI. McDermid et al. 2002.
- Ceramium flaccidum* (Harvey ex Kützing) Ardisone [= *Ceramium byssoideum* Harvey,
Ceramium gracillimum (Kützing) Zanardini and *Ceramium transversale* Collins
& Hervey]. CHUUK. Trono 1969 and Amesbury et al. 1977 as *Ceramium
gracillimum*. POHNPEI. Trono 1969 as *Ceramium gracillimum*, McDermid et al.
2002; Ant: McDermid et al. 2002.
- Ceramium macilentum* J. Agardh [= *Ceramium mazatlanense* Dawson]. POHNPEI.
McDermid et al. 2002; Ant: McDermid et al. 2002; Mwokil: Trono 1969 as
Ceramium mazatlanense.
- Ceramium punctiforme* Setchell. POHNPEI. McDermid et al. 2002.
- Ceramium serpens* Setchell & Gardner. POHNPEI. McDermid et al. 2002; Ant:
McDermid et al. 2002.
- Ceramium subdichotomum* Weber-van Bosse [= *Ceramium sympodiale* Dawson].

- CHUUK. Amesbury et al. 1977 as *Ceramium sympodiale*.
- Ceramium vagans* P. Silva [= *Ceramium vagabundum* Dawson]. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002; Pingelap: Trono 1969 as *Ceramium vagabunde*.
- Corallophila apiculata* (Yamada) R.E. Norris** [= *Centroceras apiculatum* Yamada 1944b], Type from Ant. POHNPEI. McDermid et al. 2002; Ant: Yamada 1944b as *Centroceras apiculatum*, R.E. Norris 1993, McDermid et al. 2002.
- Corallophila kleiwegii* Weber-van Bosse. POHNPEI. Ant: McDermid et al. 2002.
- Crouania mageshimensis* Itono. POHNPEI. Ant: McDermid et al. 2002.
- Crouania minutissima* Yamada** 1944b. Type from Ant. CHUUK. Tsuda 1972. POHNPEI. Ant: Yamada 1944b, McDermid et al. 2002; Mwokil: Trono 1969.
- Diplothamnion jolyi* van den Hoek. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Griffithsia heteromorpha* Kützinger. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Griffithsia schousboei* Montagne. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Gymnothamnion elegans* (Schousboe ex C. Agardh) J. Agardh. POHNPEI. Ant: McDermid et al. 2002.
- Lejolisea pacifica* Itono. POHNPEI. Ant: McDermid et al. 2002.
- Ossiella pacifica* Millar & Abbott. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Pleonosporium caribaeum* (Børgesen) R.E. Norris. POHNPEI. McDermid et al. 2002.
- Ptilothamnion cladophorae* (Yamada & Tanaka) Feldmann-Mazoyer. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Spyridia filamentosa* (Wulfen) Harvey. CHUUK. Trono 1969.
- Wrangelia anastomosans* Yamada** 1944b, Type from Ant. POHNPEI. Ant: Yamada 1944b.
- Wrangelia dumontii* (Dawson) Abbott. POHNPEI. Ant: McDermid et al. 2002.

Family Dasyaceae

- Dasya adhaerens* Yamada** 1944b, Holotype from Ant. POHNPEI. Ant: Yamada 1944b.
- Dasya iridescens* (Schlech) Millar & Abbott. POHNPEI. Ant: McDermid et al. 2002.
- Dasya pilosa* (Weber-van Bosse) Millar [= *Dasyopsis pilosa* Weber-van Bosse]. CHUUK. Neoch: Tsuda 1972 as *Dasyopsis pilosa*. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
- Heterosiphonia crispella* (C. Agardh) Wynne [= *Heterosiphonia wurdemannii* (Bailey) Falkenberg]. POHNPEI. Ant: Yamada 1944b as *Heterosiphonia wurdemanni*, McDermid et al. 2002.

Family Delesseriaceae

Cottoniella filamentosa Børgesen. POHNPEI. McDermid et al. 2002.
Cottoniella triseriata Hollenberg. POHNPEI. Mwokil: Trono 1969.
Hypoglossum attenuatum Gardner. CHUUK. Tsuda 1972.
Hypoglossum caloglossoides Wynne & Kraft. POHNPEI. Ant: McDermid et al. 2002.
Hypoglossum minimum Yamada. POHNPEI. McDermid et al. 2002; Ant: Yamada 1944b, McDermid et al. 2002.
Hypoglossum simulans Wynne, Price & Ballantine. POHNPEI. Ant: McDermid et al. 2002.
Martensia fragilis Harvey [= *Hemitrema fragilis*]. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939.
Myriogramme bombayensis Børgesen. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.
Nitophyllum adhaerens Wynne. POHNPEI. Ant: McDermid et al. 2002.
Zellera tawallina G. Martens. POHNPEI. McDermid et al. 2002.

Family Rhodomelaceae

Acanthophora muscoides (Linnaeus) Bory de Saint-Vincent. POHNPEI. Ant: Yamada 1944b.
Acanthophora spicifera (Vahl) Børgesen [= *Acanthophora orientalis* J. Agardh]. CHUUK. Neoch: Tsuda 1972. POHNPEI. Okamura 1916, Tokida 1939 and Glassman 1952 as *Acanthophora orientalis*, Trono 1969, Best & Pendleton 1980, McDermid et al. 2002. KOSRAE. Trono 1969.
Chondria dangeardii Dawson. POHNPEI. Ant: McDermid et al. 2002.
Chondria polyrhiza Collins & Hervey. POHNPEI. Ant: McDermid et al. 2002.
Chondria repens Børgesen. POHNPEI. Mwokil: Trono 1969.
Chondria simpliciuscula Weber-van Bosse. POHNPEI. McDermid et al. 2002; Ant: Yamada 1944b, McDermid et al. 2002.
Chondrophyucus succisa (Cribb) Nam [*Laurencia succisa* Cribb]. POHNPEI. McDermid et al. 2002 as *Laurencia succisa*.

Chondrophyllum papillosa (C. Agardh) Garbary & Harper [= *Laurencia papillosa* (C. Agardh) Greville]. CHUUK. Okamura 1916, Tokida 1939, Trono 1969, Amesbury et al. 1981. POHNPEI. Trono 1969. KOSRAE. Trono 1969, Eldredge et al. 1979. All as *Laurencia papillosa*.
Herposiphonia arcuata Hollenberg. CHUUK. Hollenberg 1968c, Trono 1969.
Herposiphonia crassa Hollenberg. POHNPEI. McDermid et al. 2002.
***Herposiphonia delicatula* Hollenberg** 1968c, Type from Chuuk. CHUUK. Hollenberg 1968c, Trono 1969; Neoch: Tsuda 1972. POHNPEI. Ant: McDermid et al. 2002.
Herposiphonia dendroidea Hollenberg. CHUUK. Hollenberg 1968c, Trono 1969.
Herposiphonia dubia Hollenberg. POHNPEI. McDermid et al. 2002.

Herposiphonia obscura Hollenberg. POHNPEI. Ant: McDermid et al. 2002.

Herposiphonia pacifica Hollenberg. POHNPEI. Hollenberg 1968c, Trono 1969, McDermid et al. 2002; Ant: McDermid et al. 2002.

Herposiphonia parca Setchell. CHUUK. Hollenberg 1968c, Trono 1969. POHNPEI. Hollenberg 1968c, Trono 1969, McDermid et al. 2002; Ant: McDermid et al. 2002.

Herposiphonia secunda (C. Agardh) Ambronn [= *Herposiphonia tenella* (C. Agardh) Nägeli]. CHUUK. Amesbury et al. 1977 as *Herposiphonia tenella*. POHNPEI. Ant: McDermid et al. 2002.

Laurencia cartilaginea Yamada. POHNPEI. Trono 1969, McDermid et al. 2002.

Laurencia flexilis Setchell. POHNPEI. Ant: Yamada 1944b.

Laurencia galtsoffii Howe. POHNPEI. Ant: McDermid et al. 2002.

Laurencia implicata J. Agardh [= *Laurencia intricata* Lamouroux]. POHNPEI. Okamura 1916, Schmidt 1928, Tokida 1939, Glassman 1952. All as *Laurencia intricata*.

Laurencia majuscula (Harvey) Lucas. CHUUK. Trono 1969, Tsuda 1972. POHNPEI. Trono 1969, McDermid et al. 2002; Ant: McDermid et al. 2002; Mwokil: Trono 1969.

Laurencia mariannensis Yamada. POHNPEI. Ant: Glassman 1953, McDermid et al. 2002. KOSRAE. Trono 1969.

Laurencia nidifica J. Agardh. POHNPEI. Ant: McDermid et al. 2002.

Laurencia parvipapillata Tseng. CHUUK. Neoch: Tsuda 1972.

Laurencia undulata Yamada. POHNPEI. Ant: McDermid et al. 2002.

Laurencia yamadana Howe. CHUUK. Ulul. Trono 1969. POHNPEI. Trono 1969; Mwokil: Trono 1969.

Leveillea jungermannioides (Hering & Martens) Harvey. POHNPEI. Okamura 1916, Tokida 1939, Glassman 1952.

Lophocladia minima Itono. POHNPEI. McDermid et al. 2002.

Melanamansia fimbriifolia R.E. Norris [= *Amansia fimbriifolia* R.E. Norris]. POHNPEI. McDermid et al. 2002 as *Amansia fimbriifolia*.

Melanamansia glomerata (C. Agardh) R.E. Norris [= *Amansia glomerata* C. Agardh]. POHNPEI. Best & Pendleton 1980 as *Amansia* cf. *glomerata*.

Neosiphonia savatieri (Hariot) M.S. Kim & I.K. Lee [= *Polysiphonia savatieri* Hariot]. POHNPEI. Ant: McDermid et al. 2002 as *Polysiphonia savatieri*. KOSRAE. Hollenberg 1968a as *P. savatieri*, Trono 1969 as *P. savatieri*.

Neosiphonia sparsa (Setchell) Kim. POHNPEI. Ant: McDermid et al. 2002.

Polysiphonia dotyi Hollenberg. CHUUK. Hollenberg 1968b, Trono 1969.

Polysiphonia exilis Harvey. CHUUK. Hollenberg 1968b, Trono 1969. POHNPEI. McDermid et al. 2002.

Polysiphonia herpa Hollenberg. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002.

Polysiphonia howei Hollenberg. CHUUK. Amesbury et al. 1977, 1978.

Polysiphonia pentamera Hollenberg. POHNPEI. Hollenberg 1968b, Trono 1969,

- McDermid et al. 2002; Ant: McDermid et al. 2002.
- Polysiphonia poko* Hollenberg. CHUUK. Puluwat: Hollenberg 1968a, Trono 1969.
- Polysiphonia pseudovillum* Hollenberg. POHNPEI. Ant: McDermid et al. 2002.
- Polysiphonia saccorhiza* (Collins & Hervey) Hollenberg. POHNPEI. Ant: McDermid et al. 2002.
- Polysiphonia scopulorum* Harvey [= *Lophosiphonia villum* (J. Agardh) Setchell & Gardner]. CHUUK. Tsuda 1972; Necho: Tsuda 1972, Clayshulte et al. 1978. POHNPEI. Hollenberg 1968a, Trono 1969, McDermid et al. 2002; Ant: McDermid et al. 2002.
- Polysiphonia setacea* Hollenberg. CHUUK. Hollenberg 1968a, Trono 1969. POHNPEI. Hollenberg 1968a, Trono 1969.
- Polysiphonia sphaerocarpa* Børgesen. POHNPEI. McDermid et al. 2002; Ant: McDermid et al. 2002. KOSRAE. Hollenberg 1968a, Trono 1969.
- Polysiphonia tepida* Hollenberg. POHNPEI. McDermid et al. 2002.
- Polysiphonia tsudana* Hollenberg. POHNPEI. Ant: McDermid et al. 2002.
- Polysiphonia upolensis* Grunow. CHUUK. Hollenberg 1968a, Trono 1969. POHNPEI. Hollenberg 1968a, Trono 1969, McDermid et al. 2002; Ant: McDermid et al. 2002. KOSRAE. Hollenberg 1968a, Trono 1969.
- Symphyocladia marchantioides* (Harvey) Falkenberg. CHUUK. Okamura 1916, Schmidt 1928, Tokida 1939.
- Tolypiocladia glomerulata* (C. Agardh) Schmitz [= *Roschera glomerulata* (C. Agardh) Weber-van Bosse]. CHUUK. Trono 1969, Tsuda 1972, Amesbury et al. 1977, 1981, Clayshulte et al. 1978. POHNPEI. Okamura 1916, Tokida 1939 and Glassman 1952 as *Roschera glomerulata*, Best & Pendleton 1980, McDermid et al. 2002. KOSRAE. Okamura 1916 and Tokida 1939 as *R. glomerulata*, Trono 1969.
- Womersleyella pacifica* Hollenberg. CHUUK. Hollenberg 1967.

DISCUSSION

The 367 species of marine benthic algae reported from the eastern states of the Federated States of Micronesia (FSM), i.e., Chuuk, Pohnpei and Kosrae States, consist of 41 species of Cyanophyta (blue-greens), 118 species of Chlorophyta (greens), 38 species of Phaeophyta (browns) and 170 species of Rhodophyta (reds). The total number of marine benthic algae in Chuuk, Pohnpei and Kosrae States is similar in number to the 361 species reported from the Marshall Islands (Tsuda, 2002c) and the 332 species from the Mariana Islands (Tsuda 2003). The species number surpasses the 258 species of marine benthic algae, thus far, reported from the Palau Archipelago (Tsuda, 2002a) or the 224 species reported from Yap State (Tsuda, 2002b) within the FSM.

Eighteen species, i.e., 11 species of green algae, one species of brown alga and 6 species of

red algae, were described as new species based on the type specimens from islands and atolls in the eastern FSM. Ten of the 18 species were described as new from Ant Atoll in Pohnpei State.

As seen in Table 1, the marine algal flora of Pohnpei with 184 species and Ant Atoll with 163 species are well documented, primarily through the efforts of Yamada (1944b), Enomoto et al. (1986), Hodgson and McDermid (2000) and McDermid et al. (2002). Collection and identification efforts of the smaller epiphytes and turf algae increased the reported number of species from Ant Atoll to 163 species, which represents five more species than the number, thus far, reported from the Chuuk Lagoon and its barrier reefs. The 83 species reported from Kapingamarangi Atoll includes only the blue-green, green and brown algae; the red algae have yet to be identified and reported. Only 75 species have been reported from Kosrae and probably represent less than 50% of the species present in Kosrae waters.

Table 1. Number of species reported from the islands and atolls within Chuuk, Pohnpei and Kosrae States, Eastern Federated States of Micronesia.

Islands	Number of Algal Species				Rhodophyta
	Cyanophyta	Chlorophyta	Phaeophyta Total		
CHUUK STATE					
Chuuk (Truk)	12	66	28	52	158
Neoch (Kuop)	0	13	1	7	21
Puluwat	3	14	1	4	22
Ulul	0	12	0	1	13
POHNPEI STATE					
Pohnpei (Ponape)	12	50	24	98	184
Ant	0	64	12	87	163
Kapingamarangi	34	41	8	0	83
Mwokil (Mokil)	3	19	1	10	33
Oroluk	1	4	0	0	5
Pingelap	1	13	0	2	16
KOSRAE STATE					
Kosrae	9	32	9	25	75

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