

**CHECKLIST AND BIBLIOGRAPHY
OF THE MARINE BENTHIC ALGAE
FROM THE MARSHALL ISLANDS**

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Technical Report No. 106

October 2002

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INTRODUCTION

The checklist of marine benthic algae from the atolls within the Republic of the Marshall Islands (Figure 1) is based on the compilation from past references cited in Tsuda and Wray (1977) and Tsuda (1981), the compilation of Enewetak Atoll algae (Tsuda, 1987) and subsequent phycological studies conducted within the Marshall Islands. The classification system follows Silva et al. (1996), and synonymies are according to Silva et al. (1987) and Silva et al. (1996). New species based on Types from the Marshall Islands are designated in boldface.

Past references reveal that marine benthic algae have been reported from 17 of the 28 atolls (i.e., low coral islets with lagoon and barrier reefs) within the Ratak Chain and Ralik Chain which comprise the Republic of the Marshall Islands. The names of the 17 atolls (Motteler, 1986) are as follows - Ailuk, Arno, Bikar, Bokaak (Pokak, Taongi), Likiep, Majuro, and Utrik (Utirik) in the Ratak Chain, and Bikini, Enewetak (Eniwetok), Jaluit, Kwajalein, Lae, Rongelap, Rongrik (Rongerik), Ujae, Ujelang, and Wotho in the Ralik Chain. Algal records are delineated with their respective atolls which show collection efforts within the various atolls and islands of the Marshall Islands.

The studies on the marine benthic algae by Taylor (1950a, 1950b) from Bikini, Enewetak, Rongelap and Rongrik, by Dawson (1956) from the southern atolls of Arno, Jaluit, Majuro and Kwajalein, and by Dawson (1957) from Enewetak represent the pioneer taxonomic studies on marine benthic algae for the Micronesian region. Taylor (1966) also included taxonomic notes on selected marine algae from atolls within the Marshall Islands. Other taxonomic studies targeted selected genera and families of marine benthic algae which included species from the Marshall Islands, i.e., *Halimeda* (Hillis, 1959; Moul, 1964; Colinvaux, 1968; Hillis-Colinvaux, 1980), *Udotea* (Moul, 1964), *Malaconema* (Hollenberg, 1963), *Turbinaria* (Taylor, 1964), *Tydemanina* (Gilmartin, 1966), Family Rhodomelaceae and Delesseriaceae (Hollenberg, 1967a, 1967b, 1968d), *Polysiphonia* (Hollenberg, 1968a, 1968b), *Herposiphonia* (Hollenberg, 1968c), *Lophosiphonia* (Hollenberg, 1968d), *Caulerpa* (Taylor, 1977; Calvert et al., 1976), *Rhipilia* (Gilbert, 1978) and *Avrainvillea* (Olsen-Stojkovich, 1985).

The presence of the Mid-Pacific Marine Laboratory (formerly the Eniwetok Marine Biological Laboratory) on Enewetak Atoll provided logistic support for the taxonomic study by Dawson (1957) and several subsequent ecological and physiological studies on coral reef biota in an atoll environment. Odum and Odum (1955) and Johannes et al. (1972) conducted extensive studies on coral reef metabolism on Enewetak Atoll. Other ecological studies on Enewetak include the distribution of deep-water lagoonal marine algae (Gilmartin, 1960), food habits of fish (Bakus, 1967), crustose alga on live sea urchin spines (Lawrence and Dawes, 1969), bacterial infestation in marine algae (Johnson et al., 1971), primary productivity of reef-building algae (Marsh, 1970), organic carbon production in reef systems (Smith and Marsh, 1973), detritus (Gerber and Marshall, 1974), nitrogen cycle in coral reefs (Webb et al., 1975; Webb and Wiebe, 1975; Wiebe, 1975; Wiebe et al., 1975), and the distribution of *Halimeda* and *Tydemanina* in a lagoonal environment (Hillis-Colinvaux, 1977, 1980).

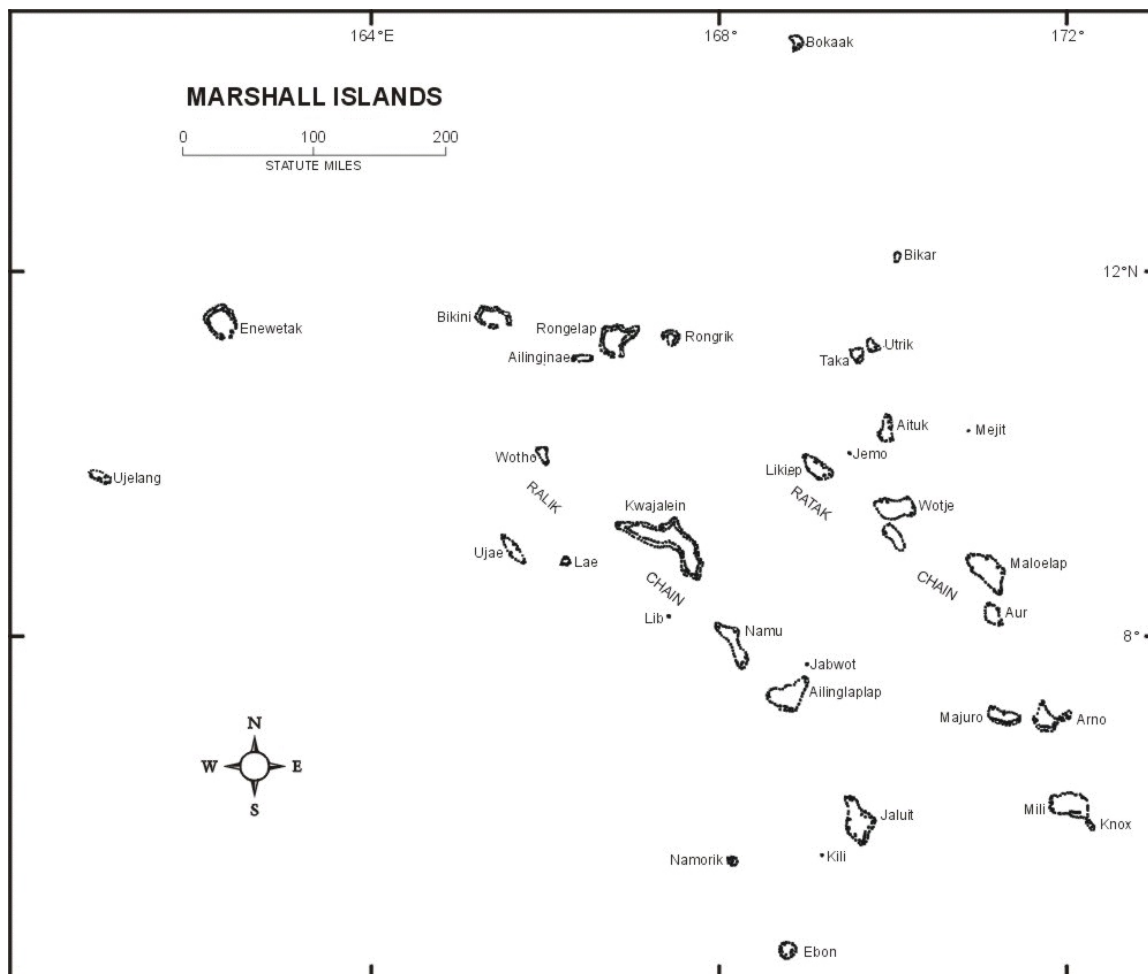


Figure 1. Map of the Republic of the Marshall Islands (Adapted from Motteler, 1986).

Nuclear testing in the Marshall Islands prompted studies on selected marine algal genera mentioned in technical reports of the U.S. Atomic Energy Commission (Palumbo, 1950, 1955, 1959) and a subsequent publication (Lowman and Palumbo, 1962). Marine algae were quantified in two technical reports of the University of Guam Marine Laboratory applicable to Ebeye, Kwajalein Atoll (Amesbury et al., 1975a) and Darrit-Uliga-Dalap area, Majuro Atoll (Amesbury et al., 1975b). Although few algal voucher specimens are available from these two studies, the technical reports provide preliminary quantitative information on the marine benthic algae within each of the study sites.

Only one species of seagrass, i.e., *Thalassia hemprichii* (Ehrenberg) Ascherson, has been reported from the Marshall Islands from Ujelang (Fosberg, 1955, 1976; den Hartog, 1970; Tsuda et al. 1977), Ailinglaplap (Ailinglapalap) (Fosberg, 1976; Tsuda et al., 1977) and Jaluit (Tsuda et al., 1977).

I acknowledge Barry D. Smith, University of Guam Marine Laboratory, for his assistance with the graphics. The report was printed with funds provided by the Marine Resources Pacific Consortium (MAREPAC).

SPECIES AND REFERENCES

Division CYANOPHYTA (Blue-Green Algae/Cyanobacteria)

Class Cyanophyceae

Order Chroococcales

Family Entophysalidaceae

- Entophysalis conferta* (Kützing) Drouet & Daily. ENEWETAK: Dawson (1957).
Entophysalis deusta (Meneghini) Drouet & Daily. ENEWETAK: Drouet and Daily (1956), Dawson (1957). MAJURO: Amesbury et al. (1975b).
Entophysalis granulosa Kützing. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a). RONGELAP: Taylor (1950a).

Family Microcystaceae

- Aplanothece stagnina* (Sprengel) A. Braun [= *Coccochloris stagnina* Sprengel]. ENEWETAK: Dawson (1957) as *Coccochloris stagnina*.
Gloeocapsa alpicola (Lyngbye) Bornet. BIKINI: Taylor (1950a). RONGELAP: Taylor (1950a).
Gloeocapsa turgida (Kützing) Hollerbach. ENEWETAK: Taylor (1950a).
Gomphosphaeria aponina Kützing. ENEWETAK: Taylor (1950a), Drouet and Daily (1956), Dawson (1957).

Microcystis dimidiata (Kützing) P. Silva [= *Anacystis dimidiata* (Kützing) Drouet & Daily]. BIKINI: Drouet and Daily (1956) as *Anacystis dimidiata*. ENEWETAK: Dawson (1957) as *A. dimidiata*.

Order Oscillatoriales

Family Oscillatoriaceae

Blennothrix cantharidosma (Montagne) Anagnostidis & Komárek [= *Hydrocoleum cantharidosmum* (Montagne) Gomont]. ENEWETAK: Taylor (1950a) and Dawson (1957) as *Hydrocoleum cantharidosmum*.

Blennothrix lyngbyacea (Kützing) Anagnostidis & Komárek [= *Hydrocoleum lyngbyaceum* Kützing]. ENEWETAK: Dawson (1957) as *Hydrocoleum lyngbyaceum*. MAJURO: Johnson et al. (1971) as *H. lyngbyaceum*.

Lyngbya aestuarii (Mertens) Liebman. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957).

Lyngbya confervoides C. Agardh. ENEWETAK: Taylor (1950a), Dawson (1957).

Lyngbya lutea (C. Agardh) Areschong [= *Oscillatoria lutea* C. Agardh]. JALUIT: Drouet (1968) as *Oscillatoria lutea*.

Lyngbya majuscula (Dillwyn) Harvey. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957), Gilmartin (1960). KWAJALEIN: Amesbury et al. (1975a) as *Microcoleus lyngbyaceus* (Kützing) P. Crouan & H. Crouan. MAJURO: Johnson et al. (1971), Amesbury et al. (1975b) as *M. lyngbyaceus*.

Lyngbya meneghiniana (Kützing) Falkenberg. ENEWETAK: Taylor (1950a), Dawson (1957).

Lyngbya penicilliformis P. Silva [= *Phormidium penicillatum* Gomont]. BIKINI: Taylor (1950a) as *Phormidium penicillatum*. ENEWETAK: Dawson (1957) as *P. penicillatum*.

Lyngbya polychroa (Meneghini) Rabenhorst [= *Lyngbya sordida* Gomont]. BIKINI: Taylor (1950a) as *Lyngbya sordida*. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *L. sordida*. RONGRIK: Taylor (1950a) as *L. sordida*.

Lyngbya semiplena (C. Agardh) J. Agardh. ENEWETAK: Dawson (1957).

Family Phormidiaceae

Arthrospira major (Kützing) Crow [= *Spirulina major* Kützing]. ENEWETAK: Dawson (1957) as *Spirulina major*.

Hydrocoleum coccineum Gomont. ENEWETAK: Dawson (1957). RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).

Hydrocoleum comoides (Harvey) Gomont. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957), Gilmartin (1960).

Hydrocoleum confluens (Setchell & Gardner) Drouet. BIKINI: Taylor (1950a). RONGRIK: Taylor (1950a).

Hydrocoleum glutinosum (C. Agardh) Gomont. ENEWETAK: Dawson (1957), Gilmartin (1960).

Microcoleus acutissimus Gardner. BIKINI: Taylor (1950a).

Phormidium nigroviride (Thwaites) Anagnostidis & Komàrek [= *Oscillatoria nigroviridis* Thwaites in Harvey]. ENEWETAK: Dawson (1957) as *Oscillatoria nigroviridis*.

Phormidium submembranacea (Ardissonne & Strafforello) Gomont [= *Oscillatoria submembranacea* Ardissonne & Strafforello]. ENEWETAK: Drouet (1968) as *Oscillatoria submembranacea*.

Porphyrosiphon fuscus Gomont. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a).

Sirocoleum guyanense Kützing ex Gomont. RONGRIK: Taylor (1950a).

Spirulina subsalsa Oersted. ENEWETAK: Dawson (1957), Drouet (1968). KWAJALEIN: Drouet (1968).

Spirulina tenerrima Kützing. ENEWETAK: Dawson (1957).

Symploca hydroides (Harvey) Kützing. ENEWETAK: Dawson (1957), Gilmartin (1960).

Symploca laeteviridis Gomont. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957), Gilmartin (1960).

Symploca muscorum (C. Agardh) Gomont. BIKINI: Taylor (1950a).

Family Pseudanabaenaceae

Leibleinia gracilis Meneghini [= *Lyngbya gracilis* (Meneghini) Rabenhorst]. ENEWETAK: Taylor (1950a) and Dawson (1957) as *Lyngbya gracilis*.

Spirocoleus crosbyanus (Tilden) P. Silva [= *Phormidium crosbyanum* Tilden]. ENEWETAK: Taylor (1950a) and Dawson (1957) as *Phormidium crosbyanum*.

Spirocoleus terebrans (Bornet & Flahault) P. Silva [= *Plectonema terebrans* Bornet & Flahault]. BIKINI: Emery et al. (1954) as *Plectonema terebrans*. ENEWETAK: Dawson (1957) as *P. terebrans*.

Spirocoleus sp. ? [*Plectonema golenkinianum* Gomont]. BIKINI: Taylor (1950a).

Spirocoleus sp. ? [*Plectonema nostocorum* Bornet ex Gomont]. ENEWETAK: Taylor (1950a), Dawson (1957). RONGELAP: Taylor (1950a).

Family Schizothrichaceae

Schizothrix arenaria (Berkeley) Gomont. ARNO: Drouet (1968). MAJURO: Drouet (1968).

Schizothrix calcicola (C. Agardh) Gomont. ARNO: Drouet (1968). BIKINI: Taylor (1950a), Drouet (1968). ENEWETAK: Bakus (1967), Drouet (1968), Johannes et al. (1972), Webb and Wiebe (1975). JALUIT: Drouet (1968). KWAJALEIN: Drouet (1968), Amesbury et al. (1975a). LAE: Drouet (1968). MAJURO: Amesbury et al. (1975b). RONGELAP: Drouet (1968). RONGRIK: Drouet (1968). UTRIK: Drouet (1968).

Schizothrix creswellii (Harvey) Harvey. BIKINI: Taylor (1950a). RONGRIK: Taylor (1950a).

- Schizothrix lacustris* A. Braun ex Gomont. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957).
- Schizothrix longiarticulata* Gardner. BIKINI: Taylor (1950a). RONGELAP: Taylor (1950a).
- Schizothrix mexicana* Gomont. ARNO: Drouet (1968). BIKINI: Drouet (1968). ENEWETAK: Drouet (1968). Drouet (1968). KWAJALEIN: Drouet (1968), Amesbury et al. (1975a). MAJURO: Drouet (1968), Amesbury et al. (1975b). RONGRIK: Drouet (1968).
- Schizothrix tenerrima* (Gomont) Drouet [= *Microcoleus tenerrimus* Gomont]. ARNO: Drouet (1968). BIKINI: Drouet (1968). ENEWETAK: Dawson (1957) as *Microcoleus tenerrimus*, Drouet (1968). LIKIEP: Drouet (1968). MAJURO: Drouet (1968), Johnston et al. (1971) as *Schizothrix tenerimum*. UJELANG: Drouet (1968).

Order Nostocales

Family Microchaetaceae

- Tolypothrix byssoidea* (C. Agardh) Kirchner [= *Scytonema byssoidea* C. Agardh and *Hassallia byssoidea* (Berkeley) Hassall ex Bornet & Flahault. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a). RONGELAP: Taylor (1950a). RONGLIK: Taylor (1950a). All as *Hassallia byssoidea*.

Family Nostocaceae

- Hormothamnium enteromorphoides* Grunow [= *Hormothamnion enteromorphoides* Grunow]. ENEWETAK: Taylor (1950a), Dawson (1957), Gilmartin (1960), Webb et al. (1975) and Wiebe et al. (1975) as *Hormothamnion enteromorphoides*. MAJURO: Amesbury et al. (1975b) as *Hormothamnion enteromorphoides*.

Family Rivulariaceae

- Calothrix crustacea* Thuret. ARNO: Drouet (1973). BIKAR: Drouet (1973). BIKINI: Drouet (1973). ENEWETAK: Dawson (1957), Bakus (1967), Drouet (1973), Webb et al. (1975), Webb and Wiebe (1975), Wiebe et al. (1975), Wiebe (1976). KWAJALEIN: Drouet (1973). MAJURO: Drouet (1973). RONGELAP: Drouet (1973). RONGRIK: Drouet (1973).
- Calothrix parietina* (Nägeli ex Kützing) Thuret. BIKINI: Taylor (1950a).
- Calothrix scopulorum* (Weber & Mohr) C. Agardh ex Bornet & Flahault. BIKINI: Taylor (1950a).
- Dichothrix penicillata* Zanardini. RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).
- Rivularia atra* Roth. ENEWETAK: Dawson (1957), Webb et al. (1975) as *Rivularia* sp.
- Rivularia polyotis* (J. Agardh) Hauck. ENEWETAK: Dawson (1957).

Family Scytonemataceae

Scytonema myochrous (Dillwyn) C. Agardh ex Bornet & Flahault. BIKINI: Taylor (1950a).
ENEWETAK: Dawson (1957).

Scytonema ocellatum Lyngbye ex Bornet & Flahault. BIKINI: Taylor (1950a).
RONGELAP: Taylor (1950a).

Scytonema polycystum Bornet & Flahault. ENEWETAK: Dawson (1957), Gilmartin (1960).

Order Stigonematales

Family Mastigocladaceae

Fischerella ambigua Kützing ex Bornet & Flahault) Gomont. RONGELAP: Taylor (1950a).

Family Nostochopsidaceae

Mastigocoleus testarum Lagerheim. BIKINI: Emery et al. (1954). KWAJALEIN: Drouet
(1981).

Division CHLOROPHYTA (Green Algae)

Class Chlorophyceae

Order Ctenocladales

Family Ulvellaceae

Entocladia viridis Reinke. ENEWETAK: Dawson (1957).

Order Ulvales

Family Ulvaceae

Enteromorpha acanthophora Kützing. ENEWETAK: Dawson (1957).

Enteromorpha clathrata (Roth) Greville. ARNO: Dawson (1956). ENEWETAK: Dawson
(1957). JALUIT: Dawson (1956). KWAJALEIN: Amesbury et al. (1975a).
MAJURO: Amesbury et al. (1975b).

Enteromorpha compressa (Linnaeus) Nees. MAJURO: Dawson (1956).

Enteromorpha flexuosa (Wulfen) J. Agardh [= *Enteromorpha tubulosa* (Kützing) Kützing].
ENEWETAK: Dawson (1957) as *Enteromorpha tubulosa*.

Enteromorpha intestinalis (Linnaeus) Nees. ENEWETAK: Dawson (1957).

Enteromorpha kylinii Bliding. ENEWETAK: Dawson (1957). JALUIT: Dawson (1956).
KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956).

- Enteromorpha lingulata* J. Agardh. BIKINI: Taylor (1950a).
Enteromorpha ralfsii Harvey. ENEWETAK: Dawson (1957). KWAJALEIN: Dawson (1956).
Enteromorpha torta (Mertens) Reinbold. BIKINI: Taylor (1950a).

Order Cladophorales

Family Anadyomenaceae

- Anadyomene wrightii* Harvey ex Gray. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956).
Microdictyon japonicum Setchell. ENEWETAK: Palumbo (1950), Dawson (1957).
Microdictyon okamurai Setchell. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). RONGELAP: Taylor (1950). RONGRIK: Taylor (1950a).
Microdictyon pseudohapteron A. Gepp & E. Gepp. ARNO: Dawson (1956).
Microdictyon setchellianum Howe. ARNO: Dawson (1956). See Silva et al. (1996).
Rhipidiphylon reticulatum (Askenasy) Heydrich. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957). RONGELAP: Taylor (1950a).

Family Cladophoraceae

- Chaetomorpha indica* (Kützinger) Kützinger. ENEWETAK: Dawson (1957). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956).
Cladophora albida (Nees) Kützinger. ENEWETAK: Gilmartin (1960).
Cladophora crystallina (Roth) Kützinger. ENEWETAK: Dawson (1957). KWAJALEIN: Dawson (1956).
Cladophora flexuosa (O.F. Müller) Kützinger [= *Cladophora gracilis* Griffiths ex Harvey]. ENEWETAK: Gilmartin (1960) as *Cladophora gracilis*.
Cladophora inserta Dickie. ENEWETAK: Dawson (1957).
Cladophora socialis Kützinger. ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT Dawson (1956).
Rhizoclonium riparium (Roth) Harvey [= *Rhizoclonium implexum* (Dillwyn) Kützinger]. ENEWETAK: Dawson (1957) as *Rhizoclonium implexum*.
Rhizoclonium samoense Setchell. ARNO: Dawson (1956). JALUIT: Dawson (1956). MAJURO: Johnson et al. (1971) as *Rhizoclonium* sp..

Family Siphonocladaceae

- Boergesenia forbesii* (Harvey) Feldmann [= *Valonia forbesii* Harvey]. BIKINI: Taylor (1950a) as *Valonia forbesii*. ENEWETAK: Taylor (1950a) as *Valonia forbesii*, Dawson (1957).
- Boodlea composita* (Harvey) Brand [= *Boodlea siamensis* Reinbold]. ARNO: Dawson (1956). ENEWETAK: Palumbo (1950) as *Cladophora luteola* Harvey which may be a *Boodlea* sp. as per Dawson (1957); Taylor (1950a) and Dawson (1957) as *Boodlea composita* and *Boodlea siamensis*; Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956), Amesbury et al. (1975b).
- Boodlea vanbosseae* Reinbold. ARNO: Dawson (1956).
- Cladophoropsis gracillima* Dawson. ARNO: Dawson (1956). ENEWETAK: Dawson (1957), Gilmartin (1960).
- Cladophoropsis javanica* (Kützing) P. Silva [= *Cladophoropsis zollingeri* (Kützing) Børgesen]. BIKINI: Taylor (1950a) as *Cladophoropsis zollingeri*.
- Cladophoropsis sundanensis* Reinbold. ARNO: Dawson (1956). ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956), Amesbury et al. (1975a). MAJURO: Dawson (1956), Amesbury et al. (1975b).
- Dictyosphaeria bokotensis* Yamada. KWAJALEIN: Dawson (1956).
- Dictyosphaeria cavernosa* (Forsskål) Børgesen. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957), Webb et al. (1975). JALUIT: Dawson (1956). MAJURO: Dawson (1956), Johnson et al. (1971), Amesbury et al. (1975b). RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).
- Dictyosphaeria intermedia* Weber-van Bosse. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Odum and Odum (1955), Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956), Taylor (1966). RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).
- Dictyosphaeria versluysii* Weber-van Bosse. ENEWETAK: Dawson (1957). KWAJALEIN: Dawson (1956).
- Siphonocladus rigidus* Howe. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). KWAJALEIN: Dawson (1956).
- Struvea anastomosans* (Harvey) Piccone & Grunow ex Piccone. ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).
- Ventricaria ventricosa* (J. Agardh) Olsen & West [= *Valonia ventricosa* J. Agardh]. ARNO: Dawson (1956) as *Valonia ventricosa*. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *Valonia ventricosa*. JALUIT: Dawson (1956) as *Valonia ventricosa*. KWAJALEIN: Dawson (1956) as *Valonia ventricosa*.

Family Valoniaceae

Valonia aegagropila C. Agardh. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957), Gilmartin (1960). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956).

Valonia fastigiata Harvey ex J. Agardh. ENEWETAK: Dawson (1957).

Valonia utricularis (Roth) C. Agardh. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956).

Valoniopsis pachynema (G. Martens) Børgesen. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957). RONGRIK: Taylor (1950a).

Order Bryopsidales

Family Bryopsidaceae

Bryopsis hypnoides Lamouroux. ENEWETAK: Dawson (1957).

Bryopsis indica A. Gepp & E. Gepp. ARNO: Dawson (1956). ENEWETAK: Taylor (1950a), Dawson (1957).

Bryopsis pennata Lamouroux. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956).

Derbesia attenuata Dawson. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). MAJURO: Dawson (1956).

Derbesia marina (Lyngbye) Solier. ENEWETAK: Dawson (1957). JALUIT: Dawson (1956).

Derbesia minima Weber-van Bosse. BIKINI: Taylor (1950a).

Derbesia neglecta Reinbold. ENEWETAK: Gilmartin (1960).

Derbesia sp. [= *Halicystis pyriformis* Levring]. JALUIT: Dawson (1956) as *Halicystis pyriformis*.

Pedobesia ryukyuensis (Yamada & T. Tanaka) Kobara & Chihara [= *Derbesia ryukyuensis* Yamada and T. Tanaka]. ARNO: Dawson (1956) as *Derbesia ryukyuensis*. ENEWETAK: Dawson (1957) as *D. ryukyuensis*.

Family Caulerpaceae

Caulerpa antoensis Yamada. ARNO: Taylor (1977). ENEWETAK: Dawson (1957). MAJURO: Dawson (1956).

***Caulerpa arenicola* W.R. Taylor (1950a), Type from Rongelap.** BIKINI: Taylor (1950a).

***Caulerpa bikinensis* Taylor (1950a), Type from Bikini.** ENEWETAK: Dawson (1957). RONGELAP: Taylor (1950a).

Caulerpa brachypus Harvey. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957), Gilmartin (1960). MAJURO: Johnson et al. (1971), Taylor (1977).

- Caulerpa cupressoides* (Vahl) C. Agardh. ARNO: Taylor (1977). KWAJALEIN: Amesbury et al. (1975a).
- Caulerpa elongata* Weber-van Bosse. ARNO: Dawson (1956), Taylor (1977). BIKINI: Taylor (1950a). ENEWETAK: Odum and Odum (1955), Dawson (1957), Calvert et al. (1976).
- Caulerpa filicoides* Yamada [= *Caulerpa acuta* (Yamada) Yamada]. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *Caulerpa acuta*.
- Caulerpa lentillifera* J. Agardh. BIKINI: Taylor (1950a). RONGELAP: Taylor (1950a).
- Caulerpa mexicana* Sonder ex Kützing [*Caulerpa crassifolia* (C. Agardh) J. Agardh]. BIKINI: Taylor (1950a) as *Caulerpa crassifolia*. RONGELAP: Taylor (1950a) as *C. crassifolia*.
- Caulerpa peltata* Lamouroux. ARNO: Taylor (1977). BIKINI: Taylor (1950a). ENEWETAK: Gilmartin (1960).
- Caulerpa racemosa* (Forsskål) J. Agardh. ARNO: Dawson (1956), Taylor (1977). BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956), Amesbury et al. (1975b). RONGELAP: Taylor (1950a).
- Caulerpa serrulata* (Forsskål) J. Agardh. AILUK: Taylor (1966). ARNO: Dawson (1956), Taylor (1977). BIKAR: Taylor (1966). BIKINI: Taylor (1950a). BOKAAK: Taylor (1966). ENEWETAK: Taylor (1950a), Dawson (1957), Gilmartin (1960), Calvert et al. (1976). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956), Amesbury et al. (1975a). LAE: Taylor (1966). MAJURO: Dawson (1956). RONGELAP: Taylor (1950a). . UJAE: Taylor (1966). UTRIK: Taylor (1966).
- Caulerpa sertularioides* (Gmelin) Howe. ENEWETAK: Gilmartin (1960). KWAJALEIN: Dawson (1956).
- Caulerpa taxifolia* (Vahl) C. Agardh. ARNO: Dawson (1956). ENEWETAK: Dawson (1957).
- Caulerpa urvilleana* Montagne [= *Caulerpa urvilliana* Montagne]. ARNO: Dawson (1956), Taylor (1966, 1977). BIKAR: Taylor (1966). BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957), Calvert et al. (1976). KWAJALEIN: Dawson (1956). LIKIEP: Taylor (1966). MAJURO: Dawson (1956), Johnson et al. (1971), Amesbury et al. (1975b). RONGELAP: Taylor (1950a). UJAE: Taylor (1966). UJELANG: Taylor (1966). UTRIK: Taylor (1966). WOTH0: Taylor (1966). All as *Caulerpa urvilliana*.
- Caulerpa verticillata* J. Agardh. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Gilmartin (1960). MAJURO: Dawson (1956).
- Caulerpa webbiana* Montagne. ARNO: Taylor (1977). ENEWETAK: Dawson (1957), Gilmartin (1960), Calvert et al. (1976).
- Caulerpella ambigua* (Okamura) Prud'homme van Reine & Lokhorst [= *Caulerpa ambigua* Okamura and *Caulerpa vickersiae* Børgesen]. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *Caulerpa vickersiae*. JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956) as *Caulerpa ambigua* and *Caulerpa vickersiae*.

Family Codiaceae

- Codium arabicum* Kützing. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).
- Codium edule* P. Silva. ENEWETAK: Odum and Odum (1955), see Dawson (1957).
- Codium geppiorum* O.Schmidt [= *Codium geppii* O. Schmidt]. ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956). All as *Codium geppii*.
- Codium ovale* Zanardini. KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956).
- Codium saccatum* Okamura. ENEWETAK: Dawson (1957).
- Codium tenue* (Kützing) Kützing. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957).

Family Halimedaceae

- Halimeda bikinensis* W.R. Taylor (1950a), Type from Bikini.** BIKINI: Hillis (1959).
- Halimeda copiosa* Goreau & Graham [= *Halimeda opuntia* (Linnaeus) Lamouroux variety or form *hederacea* Barton, *Halimeda opuntia* (Linnaeus) Lamouroux f. *elongata* Barton and *Halimeda hederacea* (Barton) Colinvaux]. BIKINI: Taylor (1950a) and Hillis (1959) as *H. opuntia* v. *hederacea*, Hillis-Colinvaux (1968) as *H. hederacea*. ENEWETAK: Taylor (1950a), Dawson (1957) and Gilmartin (1960) as *H. opuntia* f. *hederacea*, Hillis-Colinvaux (1977). RONGELAP: Taylor (1950a) as *H. opuntia* v. *hederacea* and *H. opuntia* f. *elongata*.
- Halimeda cuneata* Hering. KWAJALEIN: Dawson (1956).
- Halimeda cylindracea* Decaisne. ARNO: Moul (1964). BIKINI: Taylor (1950a) as *Halimeda monile* (Ellis & Solander) Lamouroux (see Hillis, 1959 and Hillis-Colinvaux, 1980), Hillis (1959). ENEWETAK: Dawson (1957) and Gilmartin (1960, 1966) as *H. monile*, Hillis-Colinvaux (1977). KWAJALEIN: Dawson (1956) as *H. monile*, Amesbury et al. (1975a). MAJURO: Dawson (1956) as *H. monile*. RONGELAP: Hillis (1959).
- Halimeda discoidea* Decaisne. ARNO: Moul (1964). BIKINI: Taylor (1950a), Hillis (1959). ENEWETAK: Gilmartin (1960). RONGELAP: Taylor (1950a).
- Halimeda distorta* (Yamada) L.H. Colinvaux. ENEWETAK: Hillis-Colinvaux (1977).
- Halimeda fragilis* W.R. Taylor (1950a), Type from Enewetak.** ARNO: Dawson (1956), Moul (1964). BIKINI: Taylor (1950a), Hillis (1959). ENEWETAK: Dawson (1957), Hillis (1959), Gilmartin (1960, 1966), Hillis-Colinvaux (1977).
- Halimeda gigas* W.R. Taylor (1950a), Type from Enewetak.** ENEWETAK: Dawson (1957), Hillis (1959), Hillis-Colinvaux (1977).
- Halimeda gracilis* Harvey ex J. Agardh. ARNO: Dawson (1956). ENEWETAK: Gilmartin (1960), Hillis-Colinvaux (1977).

- Halimeda incrassata* (Ellis) Lamouroux [= *Halimeda tridens* (Ellis & Solander) Lamouroux]. ARNO: Moul (1964). BIKINI: Taylor (1950a) as *Halimeda tridens*, Hillis (1959). ENEWETAK: Taylor (1950a), Dawson (1957) and Gilmartin (1960) as *H. tridens*; Hillis-Colinvaux (1977). RONGELAP: Taylor (1950a) as *H. tridens*.
- Halimeda lacunalis* W.R. Taylor (1950a) [= *Halimeda gracilis* Harvey ex J. Agardh forma *lata* W.R. Taylor], Type from Enewetak.** ARNO: Moul (1964). BIKAR: Moul (1964). BIKINI: Taylor (1950a) as *Halimeda gracilis* f. *lata*, Hillis (1959). ENEWETAK: Dawson (1957), Hillis (1959), Gilmartin (1960), Hillis-Colinvaux (1977). RONGELAP: Taylor (1950a), Hillis (1959).
- Halimeda macrophysa* Askenasy. ENEWETAK: Dawson (1957), Hillis-Colinvaux (1977).
- Halimeda micronesica* Yamada [= *Halimeda orientalis* Gilbert]. ARNO: Moul (1964). BIKINI: Taylor (1950a), Hillis (1959). BOKAAK: Moul (1964). ENEWETAK: Hillis-Colinvaux (1977). RONGELAP: Taylor (1950a) as *H. micronesica* and *H. orientalis*, Hillis (1959).
- Halimeda minima* (W.R. Taylor) Colinvaux (1968), Type from Bikini [= *Halimeda opuntia* (Linnaeus) Lamouroux form *minima* W.R. Taylor (1950a)].** ENEWETAK: Dawson (1957) as *Halimeda opuntia* f. *minima*, Hillis-Colinvaux (1977).
- Halimeda opuntia* (Linnaeus) Lamouroux. ARNO: Moul (1964). BIKINI: Taylor (1950a). BOKAAK: Moul (1964). ENEWETAK: Taylor (1950a), Dawson (1957), Gilmartin (1960), Hillis-Colinvaux (1977). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956), Amesbury et al. (1975a). LAE: Moul (1964). MAJURO: Amesbury et al. (1975b). RONGELAP: Taylor (1950a). UJAE: Moul (1964). WOTHO: Moul (1964).
- Halimeda renschii* Hauck [= *Halimeda opuntia* form *renschii* (Hauck) Barton]. BIKINI: Taylor (1950a) as *H. opuntia* f. *renschii*.
- Halimeda simulans* Howe. BIKINI: Hillis (1959).
- Halimeda stuposa* W.R. Taylor (1950a), Type from Rongelap.** ARNO: Moul (1964). BIKINI: Taylor (1950a), Hillis (1959). ENEWETAK: Taylor (1950a), Dawson (1957), Hillis (1959), Hillis-Colinvaux (1977). KWAJALEIN: Dawson (1956). LIKIEP: Moul (1964). RONGELAP: Hillis (1959). UJAE: Moul (1964). UJELANG: Moul (1964). WOTHO: Moul (1964).
- Halimeda taenicola* W.R. Taylor (1950a), Type from Rongerik.** AILUK: Moul (1964). ARNO: Moul (1964). BIKAR: Moul (1964). BIKINI: Taylor (1950a), Hillis (1959). BOKAAK: Moul (1964). ENEWETAK: Dawson (1957), Gilmartin (1960), Hillis-Colinvaux (1977). JALUIT: Dawson (1956). KWAJALEIN: Moul (1964). MAJURO: Johnson et al. (1971). RONGELAP: Taylor (1950a), Hillis (1959). RONGRIK: Hillis (1959).
- Halimeda tuna* (Ellis & Solander) Lamouroux. BIKINI: Taylor (1950a).

Family Ostreobiaceae

Ostreobium quekettii Bornet & Flahault [= *Ostreobium reineckeii* Bornet & Flahault].
BIKINI: Taylor (1950a) as *Ostreobium reineckeii*. ENEWETAK: Dawson (1957) as
O. reineckeii.

Family Udoteaceae

Avrainvillea lacerata Harvey ex J. Agardh. BIKINI: Taylor (1950a), Olsen-Stojkovich
(1985). ENEWETAK: Taylor (1950a), Dawson (1957).

Avrainvillea nigricans Decaisne. ARNO: Dawson (1956). BIKINI: Taylor (1950a).
ENEWETAK: Gilmartin (1960). RONGRIK: Taylor (1950a).

Avrainvillea obscura (C. Agardh) J. Agardh. BIKINI: Taylor (1950a), Olsen-Stojkovich
(1985). RONGRIK: Taylor (1950a), Olsen-Stojkovich (1985).

Pseudochlorodesmis furcellata (Zarnadini) Børgesen. ENEWETAK: Dawson (1957),
Gilmartin (1960). KWAJALEIN: Dawson (1956).

Rhipidosiphon javensis Montagne [= *Udotea javensis* (Montagne) A. Gepp & E. Gepp].
ENEWETAK: Taylor (1950a), Dawson (1957) and Gilmartin (1960) as *Udotea*
javensis. MAJURO: Dawson (1956) as *U. javensis*.

***Rhipilia diaphana* Taylor (1950a), Type from Bikini.** ENEWETAK: Taylor (1950a),
Dawson (1957). RONGELAP: Taylor (1950a).

***Rhipilia geppii* Taylor (1950a), Type from Bikini.** ENEWETAK: Taylor (1950a), Dawson
(1957).

Rhipilia orientalis A. Gepp & E. Gepp. ARNO: Dawson (1956). BIKINI: Taylor (1950a).
ENEWETAK: Dawson (1957). RONGRIK: Taylor (1950a).

Rhipilia sinuosa Gilbert. BIKINI: Gilbert (1978).

Rhipiliopsis mortensenii (Børgesen) Farghaly & Denizot [= *Geppella mortensenii* Børgesen].
ARNO: Dawson (1956) as *Geppella mortensenii*.

Tydemanium expeditionis Weber-van Bosse. ENEWETAK: Taylor (1950a), Dawson (1957),
Gilmartin (1960, 1966), Hillis-Colinvaux (1977). JALUIT: Dawson (1956).
RONGELAP: Taylor (1950a).

Udotea argentea Zanardini. AILUK: Moul (1964). LIKIEP: Moul (1964).

Udotea indica A. Gepp & E. Gepp. AILUK: Moul (1964). BIKINI: Taylor (1950a).
ENEWETAK: Taylor (1950a), Gilmartin (1960). RONGELAP: Taylor (1950a).
RONGRIK: Taylor (1950a).

Udotea orientalis A. Gepp & E. Gepp. BIKINI: Taylor (1950a). ENEWETAK: Gilmartin
(1960). RONGELAP: Taylor (1950a).

Udotea palmetta Decaisne. ARNO: Dawson (1956). ENEWETAK: Dawson (1957).
KWAJALEIN: Dawson (1956, 1957). MAJURO: Dawson (1956, 1957).

Order Dasycladales

Family Dasycladaceae

Neomeris annulata Dickie. KWAJALEIN: Dawson (1956), Amesbury et al. (1975a). MAJURO: Dawson (1956).

Neomeris bilimbata Koster. ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). RONGRIK: Dawson (1957) based on Taylor (1950) specimen.

Neomeris mucosa Howe. ARNO: Dawson (1956).

Neomeris van-bosseae Howe. BIKINI: Taylor (1950a). RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).

Family Polyphysaceae

Acetabularia exigua Solms-Laubach. ARNO: Dawson (1956). KWAJALEIN: Dawson (1956).

Acetabularia parvula Solms-Laubach [= *Acetabularia moebii* Solms-Laubach]. ARNO: Dawson (1956) as *Acetabularia moebii*. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957) and Gilmartin (1960) as *A. moebii*. JALUIT: Dawson (1956) as *A. moebii*. KWAJALEIN: Dawson (1956) as *A. moebii*. MAJURO: Dawson (1956) as *A. moebii*.

Division PHAEOPHYTA (Brown Algae)

Class Phaeophyceae

Order Ectocarpales

Family Ectocarpaceae

Feldmannia indica (Sonder) Womersley & Bailey [= *Ectocarpus indicus* Sonder]. ENEWETAK: Taylor (1950a) and Dawson (1957) as *Ectocarpus indicus*. KWAJALEIN: Dawson (1956) as *E. indicus*. MAJURO: Johnson et al. (1971) as *E. indicus*, Amesbury et al. (1975b).

Feldmannia irregularis (Kützinger) G. Hamel [= *Ectocarpus irregularis* Kützinger]. ENEWETAK: Dawson (1957) as *Ectocarpus irregularis*.

Hincksia breviarticulata (J. Agardh) P. Silva [= *Ectocarpus breviarticulatus* J. Agardh]. ENEWETAK: Dawson (1957) as *Ectocarpus breviarticulatus*. JALUIT: Dawson (1956) as *Ectocarpus breviarticulatus*. MAJURO: Dawson (1956) as *E. breviarticulatus*.

Hincksia mitchelliae (Harvey) P. Silva [= *Ectocarpus mitchellae* Harvey and *Giffordia mitchelliae* (Harvey) G. Hamel]. BIKINI: Taylor (1950a) as *Ectocarpus mitchelliae*. ENEWETAK: Taylor (1950a) and Dawson (1957) as *E. mitchellae*. MAJURO: Dawson (1956) as *E. mitchellae*.

Family Ralfsiaceae

Ralfsia expansa (J. Agardh) J. Agardh. KWAJALEIN: Dawson (1956).

Order Sphacelariales

Family Sphacelariaceae

Sphacelaria novae-hollandiae Sonder. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957).

Sphacelaria rigidula Kützing [= *Sphacelaria furcigera* Kützing]. ENEWETAK: Dawson (1957) as *Sphacelaria furcigera*. JALUIT: Dawson (1956) and Gilmartin (1960) as *S. furcigera*. KWAJALEIN: Dawson (1956) as *S. furcigera*.

Sphacelaria tribuloides Meneghini. ENEWETAK: Dawson (1957). MAJURO: Johnson et al. (1971), Amesbury et al. (1975b).

Order Dictyotales

Family Dictyotaceae

Dictyopteris delicatula Lamouroux. BIKINI: Taylor (1950a).

Dictyopteris repens (Okamura) Børgesen. ARNO: Dawson (1956). ENEWETAK: Dawson (1957), Gilmartin (1960, 1966). JALUIT: Dawson (1956).

Dictyota acutiloba J. Agardh. ENEWETAK: Gilmartin (1960) as *Dictyota cervicornis* Kützing.

Dictyota bartayresiana Lamouroux [= *Dictyota bartayresii* Lamouroux]. KWAJALEIN: Amesbury et al. (1975a) as *Dictyota bartayresii*. MAJURO: Amesbury et al. (1975b) as *D. bartayresii*.

Dictyota ceylanica Kützing [*Dictyota dichotoma* (Hudson) Lamouroux = *Dictyota divaricata* Lamouroux]. ENEWETAK: Dawson (1957), Gilmartin (1960, 1966), and Lowman and Palumbo (1962) as *Dictyota divaricata*.

Dictyota dichotoma (Hudson) Lamouroux [= *Dictyota apiculata* J. Agardh]. ENEWETAK: Gilmartin (1960).

Dictyota grossedentata De Clerck & Coppejans [*Dictyota bartayresiana* Lamouroux = *Dictyota patens* J. Agardh]. ENEWETAK: Dawson (1957) as *Dictyota patens*.

Dictyota pinnatifida Kützing. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957).

- Lobophora papenfussii* (W.R. Taylor) Farghaly [= *Pocockiella papenfussii* W.R. Taylor (1950a), Type from Bikini].** ARNO: Dawson (1956) as *Pocockiella papenfussii*. ENEWETAK: Taylor (1950a) and Dawson (1957) as *P. papenfussii*. RONGELAP: Taylor (1950a) as *P. papenfussii*. RONGRIK: Taylor (1950a) as *P. papenfussii*.
- Lobophora variegata* (Lamouroux) Womersley ex Oliveira [= *Gymnosorus variegatus* (Lamouroux) J. Agardh, *Zonaria variegata* (Lamouroux) C. Agardh and *Pocockiella variegata* (Lamouroux) Papenfuss]. ARNO: Dawson (1956) as *Pocockiella variegata*. BIKINI: Taylor (1950a) as *P. variegata*. ENEWETAK: Taylor (1950a), Dawson (1957) and Gilmartin (1960) as *P. variegata*, Odum and Odum (1955) as *Zonaria variegata*, Smith and Marsh (1973). JALUIT: Dawson (1956) as *P. variegata*. KWAJALEIN: Amesbury et al. (1975a). MAJURO: Johnson et al. (1971). RONGELAP: Taylor (1950a) as *P. variegata*. RONGRIK: Taylor (1950a) as *P. variegata*.
- Padina australis* Hauck. ENEWETAK: Dawson (1957).
- Padina boryana* Thivy in Taylor [= *Padina tenuis* (C. Agardh) Bory]. ENEWETAK: Taylor (1950a), Dawson (1957) and Gilmartin (1960, 1966) as *Padina commersonii* Bory de Saint-Vincent. JALUIT: Dawson (1956) as *P. commersonii*. KWAJALEIN: Dawson (1956) as *P. commersonii*, Amesbury et al. (1975a) as *Padina tenuis*. MAJURO: Dawson (1956) as *P. commersonii*.
- Padina japonica* Yamada. MAJURO: Johnson et al. (1971).
- Spatoglossum schroederi* (C. Agardh) Kützing. ENEWETAK: Gilmartin (1960).

Order Scytosiphonales

Family Chnoosporaceae

- Chnoospora implexa* J. Agardh. ENEWETAK: Dawson (1957).

Family Scytosiphonaceae

- Hydroclathrus clathratus* (C. Agardh) Howe [= *Hydroclathrus cancellatus* Bory de Saint-Vincent]. ENEWETAK: Taylor (1950a), Dawson (1957).
- Rosenvingea fastigiata* (Zanardini) Børgesen. BIKINI: Taylor (1950). ENEWETAK: Taylor (1950a), Dawson (1957).
- Rosenvingea intricata* (J. Agardh) Børgesen [= *Asperococcus intricatus* J. Agardh], ENEWETAK: Taylor (1950a), Dawson (1957).
- Rosenvingea orientalis* (J. Agardh) Børgesen. ENEWETAK: Gilmartin (1960).

Order Fucales

Family Sargassaceae

Turbinaria ornata (Turner) J. Agardh. ARNO: Dawson (1956). BIKINI: Taylor (1950a, 1964). BOKAAK: Taylor (1964). ENEWETAK: Taylor (1950a, 1964), Dawson (1957). JALUIT: Dawson (1956) as *Turbinaria ornata* and *T. trialata* (J. Agardh) Kützing, Taylor (1964). KWAJALEIN: Dawson (1956), Taylor (1964). MAJURO: Taylor (1964).

Division RHODOPHYTA (Red Algae)

Class Rhodophyceae

Subclass Bangiophycidae

Order Porphyridiales

Family Porphyridiaceae

Chroodactylon ornatum (C. Agardh) Basson [= *Asterocytis ornata* (C. Agardh) G. Hamel], ENEWETAK: Taylor (1950a) and Dawson (1957) as *Asterocytis ornata*.
Stylonema alsidii (Zanardini) K. Drew [= *Goniotrichum alsidii* (Zanardini) Howe and *Goniotrichum elegans* (Chauvin) Zanardini]. ENEWETAK: Taylor (1950a) as *Goniotrichum alsidii*, Dawson (1957) as *Goniotrichum elegans*.

Order Erythropeltiales

Family Erythrotrichiaceae

Erythrotrichia carnea (Dillwyn) J. Agardh. ENEWETAK: Taylor (1950a), Dawson (1957). KWAJALEIN: Dawson (1956).
Erythrotrichia parietalis T. Tanaka. ENEWETAK: Dawson (1957).

Subclass Florideophycidae

Order Acrochaetiales

Family Acrochaetiaceae

Acrochaetium crassipes (Børgesen) Børgesen [= *Kylinia crassipes* (Børgesen) Kylin]. ENEWETAK: Dawson (1957) as *Kylinia crassipes*.
Acrochaetium gracile Børgesen. ENEWETAK: Dawson (1957).

Acrochaetium robustum Børgesen. ENEWETAK: Dawson (1957), Gilmartin (1960).
Acrochaetium rongelapense I.A. Abbott in Taylor (1950a), Type from Rongelap.
Acrochaetium secundatum (Lyngbye) Nägeli [= *Kylinia secundata* (Lyngbye) Papenfuss].
ENEWETAK: Dawson (1957) as *Kylinia secundata*.

Order Nemaliales

Family Galaxauraceae

Actinotrichia fragilis (Forsskål) Børgesen [= *Actinotrichia rigida* (Lamouroux) Decaisne].
JALUIT: Dawson (1956).
Galaxaura apiculata Kjellman [= *Galaxaura acuminata* Kjellman ex Butters]. JALUIT:
Dawson (1956) as *Galaxaura acuminata*..
Galaxaura fasciculata Kjellman. JALUIT: Dawson (1956).
Galaxaura filamentosa R. Chou. ARNO: Dawson (1956). ENEWETAK: Dawson (1957).
JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).
Tricheocarpa cylindrica (Ellis & Solander) Huisman & Borowitzka (= *Galaxaura fastigiata*
Decaisne]. ENEWETAK: Dawson (1957) as *Galaxaura fastigiata*.

Family Liagoraceae

Ganonema farinosum (Lamouroux) Fan & Wang [= *Liagora farinosa* Lamouroux]. BIKINI:
Taylor (1950) as *Liagora farinosa*. ENEWETAK: Dawson (1957) as *L. farinosa*.
Liagora ceranoides Lamouroux. BIKINI: Taylor (1950a). RONGELAP: Taylor (1950a).
RONGRIK: Taylor (1950a).
Liagora hawaiiiana Butters. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957).
RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).
Liagora megagyna Børgesen. BIKINI: Taylor (1950a). RONGELAP: Taylor (1950a).
Liagora orientalis J. Agardh. ENEWETAK: Dawson (1957).
Liagora pinnata Harvey. ENEWETAK: Dawson (1957).
Liagora robusta Yamada. ENEWETAK: Dawson (1957).
Liagora valida Harvey. BIKINI: Taylor (1950a). RONGRIK: Taylor (1950a).

Order Gelidiales

Family Gelidiaceae

Gelidium crinale (Turner) Gaillon. ENEWETAK: Dawson (1957).
Gelidium pusillum (Stackhouse) Le Jolis. ARNO: Dawson (1956). ENEWETAK: Dawson
(1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).

Family Gelidiellaceae

Gelidiella antipae Celan [= *Gelidiella adnata* Dawson]. ARNO: Dawson (1956) as *Gelidiella adnata*.

Gelidiella lubrica (Kützing) J. Feldmann & Hamel [= *Gelidiella bornetii* (Weber-van Bosse) J. Feldmann & G. Hamel]. ENEWETAK: Dawson (1957) as *Gelidiella bornetii*.

Gelidiella pannosa (J. Feldmann) J. Feldmann & G. Hamel [= *Gelidiella tenuissima* J. Feldmann & G. Hamel]. ARNO: Dawson (1956) as *Gelidiella tenuissima*. ENEWETAK: Dawson (1957) as *G. tenuissima*. JALUIT: Dawson (1956) as *G. tenuissima*. MAJURO: Dawson (1956) as *G. tenuissima*.

Family Wurdemanniaceae (After Taylor, 1960)

Wurdemannia miniata (Sprengel) J. Feldmann & G. Hamel. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956).

Order Bonnemaisoniales

Family Bonnemaisoniaceae

Asparagopsis taxiformis (Delile) Trevisan [= *Falkenbergia hillebrandii* Bornet in Ardissonne]. ARNO: Dawson (1956) as *Falkenbergia hillebrandii*. ENEWETAK: Palumbo (1955), Dawson (1957) and Gilmartin (1960) as *Asparagopsis taxiformis* and *Falkenbergia hillebrandii*, Gerber and Marshall (1974). JALUIT: Dawson (1956) as *F. hillebrandii*. KWAJALEIN: Dawson (1956) as *F. hillebrandii*.

Order Cryptonemiales

Family Halymeniaceae

Grateloupia filicina (Lamouroux) C. Agardh. ENEWETAK: Dawson (1957).

Family Peyssonneliaceae

Cruoriella dubyi (P. Crouan & H. Crouan) Schmitz. ENEWETAK: Dawson (1957). KWAJALEIN: Dawson (1956).

Peyssonnelia conchicola Piccone & Grunow. JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).

Peyssonnelia rubra (Greville) J. Agardh. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).

Order Hildenbrandiales

Family Hildenbrandiaceae

Hildenbrandia rubra (Sommerfelt) Meneghini [= *Hildenbrandia prototypus* Nardo].
JALUIT: Dawson (1956) as *Hildenbrandia prototypus*.

Order Corallinales

Family Corallinaceae

Amphiroa anastomosans Weber-van Bosse. ARNO: Dawson (1956).

Amphiroa foliacea Lamouroux, Trono (1969). JALUIT: Dawson (1956).

Amphiroa fragilissima (Linnaeus) Lamouroux. ARNO: Dawson (1956). JALUIT: Dawson (1956). MAJURO: Amesbury et al. (1975b).

Choreonema thuretii (Bornet) Schmitz. RONGRIK: Taylor (1950a).

Hydrolithon craspedium (Foslie) P. Silva [= *Porolithon craspedium* (Foslie) Foslie].
BIKINI: Taylor (1950a) and Emery et al. (1954) as *Porolithon craspedium*.
ENEWETAK: Taylor (1950a) and Dawson (1957) as *P. craspedium*. RONGELAP:
Taylor (1950a) and Lee (1967) as *P. craspedium*.

Hydrolithon farinosum (Lamouroux) Penrose & Y.M. Chamberlain [= *Fosliella farinosa*
(Lamouroux) Howe]. ARNO: Dawson (1956) as *Fosliella farinosa*. BIKINI: Taylor
(1950a) as *F. farinosa*. ENEWETAK: Dawson (1956), Dawson (1957) and
Lawrence and Dawes (1969) as *F. farinosa*.

Hydrolithon gardineri (Foslie) Verheij & Prud'homme van Reine [= *Porolithon gardineri*
(Foslie) Foslie and *Lithophyllum gardineri* Foslie form *obpyramidatum* Foslie].
BIKINI: Taylor (1950a) as *Porolithon gardineri* and *Porolithon marshallense* W.R.
Taylor, Emery et al. (1954) as *P. gardineri*. ENEWETAK: Taylor (1950a) and
Dawson (1957) as *P. gardineri*. RONGELAP: Taylor (1950a) as *P. gardineri* and
P. marshallense, Lee (1967) as *P. gardineri*. RONGRIK: Taylor (1950a) as *P.*
gardineri.

Hydrolithon onkodes (Heydrich) Penrose & Woelkerling [= *Porolithon onkodes* Foslie].
BIKINI: Taylor (1950a) as *Porolithon onkodes*. ENEWETAK: Taylor (1950a),
Dawson (1957), Marsh (1970), Smith and Marsh (1973) as *P. onkodes*. MAJURO:
Amesbury et al. 1975b). RONGELAP: Taylor (1950a) and Lee (1967) as *P. onkodes*.
RONGRIK: Taylor (1950a) as *P. onkodes*.

Hydrolithon sp. [= *Porolithon aequinoctiale* (Foslie) Foslie]. BIKINI: Taylor (1950a) as
Porolithon aequinoctiale. RONGELAP: Taylor (1950a) as *P. aequinoctiale*.
RONGRIK: Taylor (1950a) as *P. aequinoctiale*.

Jania capillacea Harvey. ARNO: Dawson (1956). ENEWETAK: Taylor (1950a), Dawson
(1957), Gilmartin (1960), Smith and Marsh (1973). JALUIT: Dawson (1956).
KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956), Amesbury et al.
(1975b).

Jania constricta Kützing. BIKINI: Taylor (1950a). RONGRIK: Taylor (1950a).
Jania decussatodichotoma (Yendo) Yendo. ENEWETAK: Dawson (1957), Gilmartin (1960). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956).
Jania micrarthrodia Lamouroux [= *Jania antennina* Kützing]. ARNO: Dawson (1956). ENEWETAK: Taylor (1950a) as *Jania antennina*, Dawson (1957)..
Jania rubens (Linnaeus) Lamouroux. ENEWETAK: Taylor (1950a). RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).
Jania taylorii Dawson. MAJURO: Dawson (1956).
Jania tenella (Kützing) Grunow. ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).
Lithoporella pacifica (Heydrich) Foslie. JALUIT: Dawson (1956).
Neogoniolithon brassica-florida (Harvey) Setchell & Mason [= *Goniolithon frutescens* Foslie and *Neogoniolithon frutescens* (Foslie) Setchell & Mason]. BIKINI: Taylor (1950) as *Goniolithon frutescens*. RONGELAP: Lee (1967) as *Neogoniolithon frutescens*.
Pneophyllum sp. [= *Heteroderma minutula* Foslie and *Heteroderma subtilissima* (Foslie) Foslie]. ARNO: Dawson (1956) as *Heteroderma minutula*. ENEWETAK: Dawson (1957) as *H. minutula* and *H. subtilissima*. KWAJALEIN: Dawson (1956) as *H. minutula* and *H. subtilissima*.

Order Gigartinales

Family Dicranemataceae

Dicranema rosaliae Setchell & Gardner. ENEWETAK: Dawson (1957).

Family Hypneaceae

Hypnea musciformis (Wulfen) Lamouroux. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *Hypnea esperi* Bory de Saint-Vincent. JALUIT: Dawson (1956) as *H. esperi*. KWAJALEIN: Dawson (1956) and Amesbury et al. (1975a) as *H. esperi*. MAJURO: Dawson (1956) as *H. esperi*.
Hypnea nidulans Setchell. ENEWETAK: Dawson (1957).
Hypnea pannosa J. Agardh. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). MAJURO: Dawson (1956).
Hypnea spinella (C. Agardh) Kützing. ENEWETAK: Taylor (1950a).

Order Rhodymeniales

Family Champiaceae

Champia parvula (C. Agardh) Harvey. ARNO: Dawson (1956). ENEWETAK: Dawson (1957), Gilmartin (1960). MAJURO: Dawson (1956).

Champia vieillardii Kützing. ENEWETAK: Dawson (1957). JALUIT: Dawson (1956).

Family Lomentariaceae

Lomentaria hakodatensis Yendo. ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).

Family Rhodymeniaceae

Botryocladia skottsbergii (Børgesen) Levring [= *Botryocladia kuckuckii* (Weber-van Bosse) Y. Yamada & T. Tanaka]. ARNO: Dawson (1956). BIKINI: Taylor (1950a) as *Botryocladia kuckuckii*. ENEWETAK: Dawson (1957), Gilmartin (1960). RONGELAP: Taylor (1950a) as *B. kuckuckii*.

Chamaeobotrys boergesenii (Weber-van Bosse) Huisman [*Coelarthrum boergesenii* Weber-van Bosse]. ARNO: Dawson (1956) as *Coelarthrum boergesenii*.

Chrysymenia kaernbachii Grunow [= *Chrysymenia kairnbackii* Grunow]. JALUIT: Dawson (1956) as *Chrysymenia kairnbackii*.

Coelothrix irregularis (Harvey) Børgesen. ENEWETAK: Dawson (1957).

Gelidiopsis intricata (C. Agardh) Vickers. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). MAJURO: Amesbury et al. (1975b).

Gelidiopsis repens (Kützing) Weber-van Bosse. ARNO: Dawson (1956).

Leptofauchea anastomosans (Weber-van Bosse) R. Norris & Aken [= *Rhodymenia anastomosans* Weber-van Bosse]. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *Rhodymenia anastomosans*. JALUIT: Dawson (1956) as *R. anastomosans*.

Order Ceramiales

Family Ceramiaceae

Anotrichium tenue (C. Agardh) Nägeli [= *Griffithsia tenuis* C. Agardh]. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *Griffithsia tenuis*. JALUIT: Dawson (1956) as *Griffithsia tenuis*.

Antithamnion elegans (Berthold) J. Price & D. John [= *Antithamnion breviramsum* Dawson]. ENEWETAK: Dawson (1957) as *A. breviramsum* v. *simplex*.

Antithamnion lherminieri (P. Crouan & H. Crouan) Bornet ex Nasr. ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956).

***Antithamnion percurrens* Dawson (1957), Type from Enewetak.**

***Callithamnion marshallensis* Dawson (1957), Type from Enewetak.**

Centroceras clavulatum (C. Agardh) Montagne [= *Ceramium clavulatum* C. Agardh]. BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956), Johnson et al. (1971). RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).

Centroceras minutum Yamada. ARNO: Dawson (1956). ENEWETAK: Dawson (1957) as *Centroceras minimum* Yamada.

Ceramium camouii Dawson. ARNO: Dawson (1956).

Ceramium clarionensis Setchell & Gardner [= *Ceramium marshallense* Dawson]. ENEWETAK: Dawson (1957) as *Ceramium clarionense* Setchell & Gardner and *Ceramium marshallense*, n. sp. MAJURO: Dawson (1956) as *C. clarionense*.

Ceramium fimbriatum Setchell & Gardner. JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).

Ceramium flaccidum (Harvey ex Kützing) Ardisone [= *Ceramium byssoideum* Harvey, *Ceramium gracillimum* (Kützing) Zanardini, *Ceramium taylorii* Dawson and *Ceramium transversale* Collins & Hervey]. ARNO: Dawson (1956) as *Ceramium gracillimum*. BIKINI: Taylor (1950a) as *C. byssoideum*. ENEWETAK: Dawson (1957) as *C. gracillimum* and *C. taylorii*, Gilmartin (1960) as *C. gracillimum*. JALUIT: Dawson (1956) as *C. gracillimum*. KWAJALEIN: Dawson (1956) as *C. gracillimum*. MAJURO: Dawson (1956) as *C. gracillimum*. RONGRIK: Taylor (1950a) as *C. byssoideum*.

Ceramium macilentum J. Agardh [= *Ceramium mazatlanense* Dawson]. ARNO: Dawson (1956) as *Ceramium mazatlanense*. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *C. mazatlanense*. JALUIT: Dawson (1956) as *C. mazatlanense*.

Ceramium serpens Setchell & Gardner. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). JALUIT: Dawson (1956). MAJURO: Dawson (1956).

***Ceramium sympodiale* Dawson (1957), Type from Enewetak.**

***Ceramium vagans* P. Silva in Silva et al. (1996) [= *C. vagabunde* Dawson (1957)], Type from Enewetak.**

Corallophila apiculata (Yamada) R. Norris [= *Centroceras apiculatum* Yamada]. ARNO: Dawson (1956) as *Centroceras apiculatum*. ENEWETAK: Dawson (1957) as *Centroceras apiculatum*.

Corallophila huysmansii (Weber-van Bosse) R. Norris [= *Ceramium huysmansii* Weber-van Bosse]. ARNO: Dawson (1956) as *Ceramium huysmansii*.

Crouania attenuata (C. Agardh) J. Agardh. ENEWETAK: Gilmartin (1960).

Crouania minutissima Yamada. ARNO: Dawson (1956).

Griffithsia metcalfii Tseng. KWAJALEIN: Dawson (1956).

Griffithsia ovalis Harvey. ENEWETAK: Dawson (1957).

Griffithsia rhizophora Grunow ex Weber-van Bosse. RONGRIK: Taylor (1950a).

Haloplegma duperreyi Montagne. BIKINI: Taylor (1950a). ENEWETAK: Gilmartin (1960).

Monosporus sp. [= *Neomonosporum pedicellata* Feldmann-Mazoyer]. ENEWETAK: Dawson (1957) as *Neomonosporum pedicellata* v. *tenuis*.

Pleonosporium caribaeum (Børgesen) R. Norris [= *Mesothamnion caribaeum* Børgesen]. ENEWETAK: Gilmartin (1960) as *Mesothamnion caribaeum*.

Spermothamnion orientale Weber-van Bosse. BIKINI: Taylor (1950a).

Spermothamnion saccorhiza (Setchell & Gardner) Feldmann-Mazoyer. ENEWETAK: Gilmartin (1960). KWAJALEIN: Dawson (1956).

Spyridia filamentosa (Wulfen) Harvey. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957), Gilmartin (1960). KWAJALEIN: Dawson (1956). MAJURO: Dawson (1956), Johnson et al. (1971).

Wrangelia anastomosans Yamada. ENEWETAK: Dawson (1957).

Wrangelia argus (Montagne) Montagne. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). MAJURO: Dawson (1956).

Wrangelia penicillata (C. Agardh) C. Agardh. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957).

Family Dasyaceae

Dasya adhaerens Yamada. BIKINI: Taylor (1950a). ENEWETAK: Taylor (1950a), Dawson (1957). RONGELAP: Taylor (1950a). RONGRIK: Taylor (1950a).

Dasya corymbifera J. Agardh. ENEWETAK: Gilmartin (1960).

Dasya iyengarii Børgesen. ENEWETAK: Dawson (1957), Gilmartin (1960).

Dasya mollis Harvey. ENEWETAK: Dawson (1957), Gilmartin (1960).

Dasya pacifica Harvey. BIKINI: Taylor (1950a).

Dictyurus purpurascens Bory de Saint-Vincent. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957). RONGELAP: Taylor (1950a).

Eupogodon geppii (Weber-van Bosse) P. Silva [= *Dasyopsis geppii* Weber-van Bosse]. ENEWETAK: Dawson (1957) as *Dasyopsis geppii*.

Eupogodon tenellus (Weber-van Bosse) P. Silva [= *Dasyopsis tenella* Weber-van Bosse]. BIKINI: Taylor (1950a) as *Dasyopsis tenella*.

Heterosiphonia crispella (C. Agardh) Wynne [= *Heterosiphonia wurdemanii* (J. Bailey ex Harvey) Falkenberg]. ARNO: Dawson (1956). BIKINI: Taylor (1950a). ENEWETAK: Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956). All as *Heterosiphonia wurdemannii*.

Family Delesseriaceae

Caloglossa adhaerens King & Puttock. JALUIT: Dawson (1956) as *Caloglossa adnata* (Zanardini) De Toni.

Caloglossa leprieurii (Montagne) G. Martens. ARNO: Dawson (1956). BIKINI: Taylor (1950a). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).

Cottoniella triseriata Hollenberg. BIKINI: Hollenberg (1967b).

Hypoglossum minimum Yamada. ENEWETAK: Dawson (1957), Gilmartin (1960).

Martensia fragilis Harvey [*Hemitrema fragilis* (Harvey) Dawson]. ARNO: Dawson (1956) as *Hemitrema fragilis*. ENEWETAK: Dawson (1957) as *Hemitrema fragilis*.

Taenioma perpusillum (J. Agardh) J. Agardh. ENEWETAK: Dawson (1957).

Family Rhodomelaceae

- Abbottella concinna* Hollenberg. ARNO: Hollenberg (1967a).
Chondria baileyana (Montagne) Harvey. ENEWETAK: Gilmartin (1960).
Chondria minutula Weber-van Bosse. ENEWETAK: Dawson (1957).
Chondria polyrhiza Collins & Hervey. ENEWETAK: Dawson (1957).
Chondria repens Børgesen. ENEWETAK: Dawson (1957), Gilmartin (1960).
KWAJALEIN: Dawson (1956). MAJURO: Amesbury et al. (1975b). RONGELAP:
Taylor (1950a) as *Chondria* sp..
Dawsoniella bulborrhiza Hollenberg. ENEWETAK: Hollenberg (1967a).
Endosiphonia spinuligera Zanardini. JALUIT: Dawson (1956).
Herposiphonia arcuata Hollenberg. BIKINI: Hollenberg (1968c).
Herposiphonia delicatula Hollenberg. BIKINI: Hollenberg (1968c).
Herposiphonia dendroidea Hollenberg. BIKINI: Hollenberg (1968c).
Herposiphonia nuda Hollenberg. ENEWETAK: Hollenberg (1968c).
Herposiphonia pacifica Hollenberg. BIKINI: Hollenberg (1968c). ENEWETAK:
Hollenberg (1968c).
Herposiphonia parca Setchell. ENEWETAK: Hollenberg (1968c).
Herposiphonia secunda (C. Agardh) Ambronn [= *Herposiphonia tenella* (C. Agardh)
Nägeli]. ARNO: Dawson (1956) as *Herposiphonia secunda* and *Herposiphonia*
tenella. BIKINI: Taylor (1950a) as *H. tenella*. ENEWETAK: Dawson (1957) as *H.*
secunda and *H. tenella*, Hollenberg (1968c) as *H. tenella* f. *secunda*. JALUIT:
Dawson (1956) as *H. tenella*. KWAJALEIN: Dawson (1956) as *H. tenella*.
RONGELAP: Taylor (1950a).
Herposiphonia variabilis Hollenberg. BIKINI: Hollenberg (1968c).
Laurencia caraibica P. Silva [= *Laurencia nana* Howe]. ENEWETAK: Dawson (1957) as
Laurencia nana.
Laurencia cruciata Harvey. BIKINI: Taylor (1950a).
Laurencia mariannensis Yamada. ARNO: Dawson (1956). BIKINI: Taylor (1950a).
ENEWETAK: Taylor (1950a), Dawson (1957). MAJURO: Dawson (1956).
RONGELAP: Taylor (1950a).
Laurencia parvipapillata Tseng. ENEWETAK: Dawson (1957).
Laurencia perforata (Bory de Saint-Vincent) Montagne. RONGRIK: Taylor (1950a).
Lophosiphonia bermudensis Collins & Hervey. ARNO: Dawson (1956). ENEWETAK:
Dawson (1957). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956).
Lophosiphonia cristata Falkenberg. ENEWETAK: Hollenberg (1968d).
Lophosiphonia obscura (C. Agardh) Falkenberg. ENEWETAK: Dawson (1957), Gilmartin
(1960).
***Malaconema mininum* Hollenberg (1963, Type from Bikini.**
***Polysiphonia anomala* Hollenberg (1968a), Type from Bikini.** ARNO: Hollenberg
(1968a).
Polysiphonia apiculata Hollenberg. BIKINI: Hollenberg (1968a).

- Polysiphonia coacta* Tseng. ARNO: Dawson (1956). ENEWETAK: Dawson (1957). MAJURO: Dawson (1956).
- Polysiphonia delicatula* Hollenberg. BIKINI: Hollenberg (1968a).
- Polysiphonia dotyi* Hollenberg (1968b), Type from Bikini.** ARNO: Hollenberg (1968b).
- Polysiphonia exilis* Harvey. ARNO: Hollenberg (1968b). BIKINI: Hollenberg (1968b). ENEWETAK: Hollenberg (1968b).
- Polysiphonia flaccidissima* Hollenberg. BIKINI: Hollenberg (1968a). ENEWETAK: Hollenberg (1968a). MAJURO: Hollenberg (1968a).
- Polysiphonia herpa* Hollenberg. ARNO: Hollenberg (1968a). BIKINI: Hollenberg (1968a).
- Polysiphonia howei* Hollenberg. BIKINI: Taylor (1950a).
- Polysiphonia japonica* Harvey [= *Polysiphonia savatieri* Hariot]. ARNO: Hollenberg (1968a) as *Polysiphonia savatieri*.
- Polysiphonia mollis* J. Hooker & Harvey [= *Polysiphonia tongatensis* Harvey ex Kützing]. ENEWETAK: Dawson (1957) and Gilmartin (1960) as *Polysiphonia tongatensis*.
- Polysiphonia pentamera* Hollenberg (1968b), Type from Enewetak.**
- Polysiphonia poko* Hollenberg. BIKINI: Hollenberg (1968a).
- Polysiphonia scopulorum* Harvey [*Lophosiphonia villum* (C. Agardh) Setchell & Gardner]. ARNO: Dawson (1956) as *Lophosiphonia villum*, Hollenberg (1968a). ENEWETAK: Gilmartin (1960) as *L. villum*, Hollenberg (1968a).
- Polysiphonia sparsa* (Setchell) Hollenberg. ARNO: Hollenberg (1968a). BIKINI: Hollenberg (1968a).
- Polysiphonia sphaerocarpa* Børgesen. BIKINI: Hollenberg (1968a).
- Polysiphonia subtilissima* Montagne. ARNO: Dawson (1956). ENEWETAK: Dawson (1957), Gilmartin (1960).
- Polysiphonia upolensis* Grunow. ARNO: Hollenberg (1968a). ENEWETAK: Hollenberg (1968a).
- Tolypocladia calodictyon* (Harvey ex Kützing) P. Silva [= *Roschera calodictyon* (Harvey ex Kützing) Weber-van Bosse]. ARNO: Dawson (1956). ENEWETAK: Taylor (1950a) as *Roschera calodictyon*, Dawson (1957), Gilmartin (1960). JALUIT: Dawson (1956). KWAJALEIN: Dawson (1956), Amesbury et al. (1975a). MAJURO: Dawson (1956).
- Womersleyella pacifica* Hollenberg. BIKINI: Hollenberg (1967a).
- Womersleyella setacea* (Hollenberg) R. Norris [= *Polysiphonia setacea* Hollenberg]. ARNO: Hollenberg (1968a) as *Polysiphonia setacea*. ENEWETAK: Hollenberg (1968a) as *P. setacea*.

DISCUSSION

The 361 species of marine benthic algae (142 genera) reported from the Marshall Islands consist of 58 species (27 genera) of Cyanophyta, 116 species (34 genera) of Chlorophyta, 28 species (13 genera) of Phaeophyta and 159 species (68 genera) of Rhodophyta. This number surpasses the number of marine benthic algae, thus far, reported from the Palau Archipelago, i.e., 258 species

within 118 genera (Tsuda, 2002). Twenty-one species, i.e., 11 species of Chlorophyta, 1 species of Phaeophyta and 9 species of Rhodophyta, were described as new based on the type specimens from the atolls of the Marshall Islands, i.e., Enewetak (8 new species), Bikini (9 new species), Rongelap (3 new species) and Rongrik (1 new species). As shown in Table 1, algal collection efforts have been most active on Enewetak (256 species), Bikini (133 species) and Arno (105 species). Fewer species have been reported from Kwajalein (75 species), Jaluit (72 species), Majuro (65 species), Rongelap (54 species) and Rongrik (36 species).

It is also of interest to note that certain common genera of marine benthic algae which inhabit the tropical Pacific have, to date, not been reported from the Marshall Islands. These species include the brown alga *Sargassum* (Doty, 1954; Tsuda, 1976), the green alga *Ulva* (Tsuda, 1968, 1982a) and the agar-producing red alga *Gracilaria* (Tsuda, 1982b).

Table 1. Number of species reported from each of the 17 atolls.

Atoll	Number of Algal Species				Total
	Cyanophyta	Chlorophyta	Phaeophyta	Rhodophyta	
Ailuk	0	4	0	0	4
Arno	5	48	4	48	105
Bikini	28	51	7	47	133
Bikar	1	3	0	0	4
Bokaak	0	4	1	0	5
Enewetak	42	85	24	105	256
Jaluit	2	27	6	37	72
Kwajalein	6	36	7	26	75
Lae	1	2	0	0	3
Likiep	1	3	0	0	4
Majuro	9	26	9	21	65
Rongelap	11	25	2	16	54
Rongrik	10	10	2	14	36
Ujae	0	4	0	0	4
Ujelang	1	2	0	0	3
Utrik	1	2	0	0	3
Wotho	0	3	0	0	3
Marshall Islands	58	116	28	159	361

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