

# Checklist of the benthic marine and brackish Galician algae (NW Spain)

by

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## Abstract

We present an annotated checklist of the benthic marine and brackish algae of the Galician coasts (Spain) based on literature records and new collections. This checklist includes 618 species: 118 Cyanophyta, 296 Rhodophyta, 127 Ochrophyta, and 77 Chlorophyta. The number of specific, infraspecific taxa, and stages is 643: 121 Cyanophyta, 309 Rhodophyta, 135 Ochrophyta, and 79 Chlorophyta. *Hyella caespitosa* var. *nitida*, *Calothrix fasciculata*, *Gracilariopsis longissima*, *Compsonema minutum*, and *Sphacelaria tribuloides* are new records for Galicia, and there are also some new provincial records. We state the presence of each species for Lugo (Lu), A Coruña (Co), and Pontevedra (Po) provinces. The number of species found in Galicia is high, since 85% of the species recorded for the warm-temperate NE Atlantic Ocean grow in Galicia. Biogeographical comments comparing the Galician data with the neighboring areas of Britain and Ireland, Basque coast, Portugal, southern Iberian Peninsula, Canary Islands and Atlantic coast of Morocco are given. Finally, we present lists of cold-temperate, warm-temperate, Lusitanic Province endemics, and alien species growing in Galicia.

**Key words:** biogeography, checklist, Galicia, Iberian Peninsula, seaweeds, Spain.

## Resumen

Se presenta una lista comentada de las especies de algas bentónicas marinas y salobres de la costa de Galicia (España) basada en citas bibliográficas y nuevos datos de los autores. La lista contiene 618 especies: 118 Cyanophyta, 296 Rhodophyta, 127 Ochrophyta y 77 Chlorophyta. El número de taxa específicos e infraespecíficos asciende a 643: 121 Cyanophyta, 309 Rhodophyta, 135 Ochrophyta y 79 Chlorophyta. *Hyella caespitosa* var. *nitida*, *Calothrix fasciculata*, *Gracilariopsis longissima*, *Compsonema minutum* y *Sphacelaria tribuloides* son nuevas citas para Galicia, y algunas nuevas citas provinciales. Para cada especie se especifica su presencia en las provincias de Lugo (Lu), A Coruña (Co) y Pontevedra (Po). El número de especies encontradas en Galicia es elevado, ya que se conocen el 85% de las especies de la región atlántico noreste templado-cálida. Se aportan comentarios biogeográficos comparados de Galicia y de las áreas vecinas: Gran Bretaña, Irlanda, costa Vasca, Portugal, sur de la Península Ibérica, Islas Canarias y costa atlántica de Marruecos. Se presentan listas de las especies templado-frías, templado-cálidas, endémicas de la provincia Lusitana y alóctonas que crecen en Galicia.

**Palabras clave:** algas marinas, biogeografía, catálogo, España, Galicia, Península Ibérica.

## Introduction

Galicia is located in the northwest of the Iberian Peninsula. The coastline (1200 km) is very rough, and characterized by the existence of “*rías*”. These are flooded valleys (Vidal Romani, 1984) showing abrupt

environmental differences between the external exposed areas and the internal, more sheltered areas. The number of marine environments on Galician coast varies from very exposed cliffs to semi-exposed and sheltered zones, beaches, marshes, etc. The temperature of the seawater ranges from 11°C in winter to

18°C in summer, but it can rise to 24°C in summer –in sheltered zones– and decreases to 10°C in winter, at 20 m depth. Biogeographically, the NW-Spain is included in the warm-temperate NE Atlantic subregion 1 (WNE1, Hoek & Breeman, 1990) or Lusitanic Province (Hoek, 1975). In Galicia, water temperature, upwelling, surge of the sea and semidiurnal tides –up to 3.8 m in spring tides– are important factors that determine the development of the characteristic vegetation of furoids, kelps and carragenophytes. On the other hand, fishing industry and aquaculture have great development in Galicia and favor the interchange of biological material from remote areas, which is responsible for a change on the original communities and the introduction of several alien species that are now locally abundant in some places.

Seaweeds of Galicia have been studied for more than 140 years. The first works were made by Quer (1762-1764), Alonso López (1820), Colmeiro (1851), Lange (1860), López Seoane (1866), Colmeiro (1867, 1889), Texidor (1869, 1871), Graells (1870), Amo y Mora (1870), Lázaro Ibiza (1889), Sauvageau (1896, 1897), Chalon (1904, 1905), Hamel (1928a,b), Miranda (1934, 1936, 1943a-c, 1944) and Bescansa Casares (1948). In the 50's and 60's Dizerbo (1956), Ardré (1957), Ardré & al. (1958), Seoane Camba (1957, 1958, 1960, 1965a,b), Fischer-Piette & Seoane Camba (1962, 1963), Donze (1968) and Seoane Camba & Campo Sancho (1968) increased the floristic knowledge, that was continued in the 70's and 80's by Adey & McKibbin (1970), Niell (1970a,b, 1976, 1977, 1978), Niell & al. (1980), Pérez-Cirera (1975a,b, 1976, 1980), Pérez-Cirera & Gallardo (1981), Pérez-Cirera & Maldonado (1982), Valenzuela & Pérez-Cirera (1982), Polo & al. (1982), Anadón & al. (1982), Gili & al. (1982), Gallardo & Pérez-Cirera (1982a,b, 1985), Gallardo & al. (1984) and Pérez-Cirera & Pacheco (1985).

During the last 16 years, many species have been added to the Galician seaweeds flora by Pérez-Cirera & al. (1989a-d, 1991a,b), Cremades & Bárbara (1990), Gallardo & Margalet (1992), Granja & al. (1992, 1993), Guillermes & Cremades (1993, 1997), Guillermes & al. (1994), Andrés Abad & al. (1995), Otero-Schmitt (1992), Otero-Schmitt & Pérez-Cirera (1996, 1998, 2002), López Rodríguez & Pérez-Cirera (1990, 1995, 1996), López Rodríguez & al. (1991, 1997, 1999, 2000, 2003), Veiga & al. (1997, 1998a,b), Bárbara & Cremades (1990, 1993, 1996, 2004), Cremades & al. (1992, 1997a,b), Guillermes Vázquez (1997), Dosil Mancilla (1997), Bárbara & al. (1992a,b, 1994, 1995, 1996, 2001, 2002, 2003a,b, 2004), Calvo & al. (1999), Calvo & Bárbara (2000a-c, 2002, 2003, 2004), López Varela (2000), López Varela & al. (2002), Valenzuela

Miranda (2001), Peña & Bárbara (2002, 2003a,b, 2004, 2005) and Díaz Tapia & Bárbara (2005a,b).

Despite this wealth of articles on Galician seaweeds, there is no a catalogue summarizing all this knowledge. The aim of this work is therefore to compile a checklist of the benthic marine and brackish algae of the Galician coast, in order to compare it with similar catalogues from Britain and Ireland (Hardy & Guiry, 2003), Basque coast (Gorostiaga & al., 2004), Portugal (Ardré, 1970, 1971, Cremades & al., 2002, Bárbara & al., 2003b, Araújo & al., 2003, 2005), Andalucía (Flores Moya & al., 1995a,b, Conde & al., 1996), Canary Islands (Haroun & al., 2002), Atlantic coast of Morocco (Benhissoune & al., 2001, 2002a,b, 2003) and Mediterranean coast of Spain (Ribera & al., 1992, Gallardo & al., 1993, Gómez Garreta & al., 2001). We hope this work take a step forward the floristic knowledge of the warm-temperate NE Atlantic region and it could be a started point for another studies in this area.

## Material and Methods

This catalogue is mainly based on more than 16000 herbarium specimens kept in L, MA, MAF, SANT-Algae, and the personal herbaria of López Seoane, Miranda and Bescansa. It also benefits from an exhaustive literature search (190 articles), and information from our unpublished records. For Cyanophyta we follow Komárek & Anagnostidis's classification system (Komárek & Anagnostidis 1986, 1989, 1999; cf. also Anagnostidis & Komárek 1985, 1988, 1990), taking into account the opinion of Silva & al. (1996) regarding *Dermocarpa*, *Xenococcus*, *Spirocoleus* and several *Phormidium* species. Systematic arrangement of Rhodophyta, Ochrophyta and Chlorophyta follows Silva & al. (1996), Cavalier-Smith & Chao (1996), Reviers & Rousseau (1999), Rousseau & Reviers (1999), Rousseau & al. (2001), Friedl & O'Kelly (2002) and O'Kelly & al. (2004a,b). Orders, families, genera and species are alphabetically arranged.

## Results and Discussion

Table 1 presents the checklist of Galician seaweeds in taxonomic order. It includes most synonyms used in literature concerning Galicia, especially if heterotypic. For each species we give infraspecific taxa and life history stage as well as its presence in Lugo (Lu), A Coruña (Co) and Pontevedra's (Po) provinces (north to south order). Only if the species is poorly known in Galicia, present in a unique province, or recently introduced in NW-Spain, the first or main references are provided. The checklist includes 618 species: 118 Cyanophyta, 296 Rhodophyta, 127 Ochrophyta, and

77 Chlorophyta. The number of specific, infraspecific taxa and stages is 643: 121 Cyanophyta, 309 Rhodophyta, 135 Ochrophyta, and 79 Chlorophyta. *Hyella caespitosa* var. *nitida*, *Calothrix fasciculata*, *Gracilaria longissima*, *Compsonea minutum*, and *Sphacelaria tribuloides* are new records for Galicia.

We have excluded 43 species from the Galician flora, and considered doubtful the presence of 56 further taxa. We have excluded old records like *Cystoclonium purpureum*, *Halopitys incurva*, *Membranoptera alata*, *Naccaria wiggii*, *Ptilota gunneri*, *Ecklonia muratii*, *Laminaria digitata*, or *Sargassum vulgare*, for which no herbarium vouchers or recent collections could be found. Erroneous recent records like *Brachytrichia quoyi*, *Gloeotrichia pisum*, *Porphyrosiphon martensianus*, *Synechocystis salina*, *Xenococcus acervatus*, *Halymenia floresia*, *Heterosiphonia crispella* var. *laxa*, *Odonthalia dentata*, *Cystoseira compressa*, *C. spinosa* var. *compressa* were also excluded. Species which presence in Galicia requires further study were included under a “Dubious records and *taxa inquirenda*” section.

Galicia has a high seaweeds diversity related to its coastline extension compared with nearby regions. The number of specific and infraspecific taxa is high as a consequence of the diversity of habitats. About 85% of the species recorded for the warm-temperate NE Atlantic subregion 1 (WNE1, Hoek & Breeman, 1990) are listed in the present catalogue. Feldmann’s (Rhodophyta/Pheophyta; Feldmann, 1937) and Cheney’s (Rhodophyta+Chlorophyta/Pheophyta; Cheney, 1977) ratios are indices showing the position of a flora in relation to cold and warm waters. The Galician seaweeds ratios are intermediate among the neighboring areas of Britain and Ireland, northern Portugal, southern Iberian Peninsula, and Canary Islands (Table 2). Galicia marks the southern limit of the typical fucoids and kelps vegetation, which are common on the North Atlantic European coasts. Big brown seaweeds like *Ascophyllum nodosum*, *Chorda filum*, *Desmarestia aculeata*, *Halidrys siliquosa*, *Himantalia elongata*, *Laminaria saccharina* and *Pelvetia canaliculata* have their meridional distribution limit in Galicia and northern Portugal. Some arctic-cold temperate amphioceanic and North Atlantic species included in Lüning (1990), like *Desmarestia aculeata*, *Laminaria saccharina*, *Ahnfeltia plicata*, *Palmaria palmata* and *Delesseria sanguinea* are abundant in Galicia. The number of northern cold-water species (76) is higher than for southern warm-temperate ones (28). The list of northern cold-water species (Appendix I) includes a high number of brown algae, mainly Fucales and Laminariales like *Ascophyllum nodosum*, *Chorda filum*, *Fucus serratus*, *Halidrys siliquosa*, *Hi-*

*mantalia elongata*, *Laminaria hyperborea*, *L. saccharina* and *Pelvetia canaliculata*, which are characteristic of rocky seabeds. Similarly to the abundance of these brown algae, a high number of exclusively epiphytic and/or parasitic northern cold-water species live over them, like *Elachista flaccida*, *E. scutulata*, *Herponema velutinum*, *Litosiphon laminariae*, *Pylaiella littoralis*, *Choreocolax polysiphoniae*, *Harveyella mirabilis*, *Polysiphonia lanosa*, “*Codiolum petrocelidis*” [stage] or *Halochlorococcum moorei*. Northern cold-water red algae like *Aglaothamnion sepositum*, *Ceramium shuttleworthianum*, *Chondrus crispus*, *Delesseria sanguinea*, *Dilsea carnosa*, *Dumontia contorta*, *Mastocarpus stellatus*, *Palmaria palmata*, *Plumaria plumosa* or *Rhodomela confervoides* are a significant component in intertidal and subtidal communities, whilst green algae like *Acrosiphonia arcta*, *Prasiola stipitata* or several *Vaucheria* –profuse in mudflat systems– are equally abundant in Galicia seashores.

On the other hand, meridional species –usually small and unnoticed rhodophycean algae– are abundant in sheltered places of the *rias*. Small red algae like *Ctenosiphonia hypnoides*, *Griffithsia schousboei*, *Leptosiphonia schousboei*, *Ophidocladus simpliciusculus*, *Polysiphonia scopulorum*, *Streblocladia collabens* and *Tiffaniella capitata* are especially abundant in sandy habitats of northwestern Iberian Peninsula. The Rhodophyta, with 24 taxa, constitutes the bulk of the southern warm-temperate element (Appendix II), mainly represented by Ceramiales like *Aphanocladia stichidiosa*, *Callithamniella tingitana*, *Ceramium callipterum*, *Ctenosiphonia hypnoides*, *Griffithsia opuntiioides*, *G. schousboei*, *Leptosiphonia schousboei*, *Pleonosporium flexuosum*, *Polysiphonia scopulorum*, *P. polyspora*, *Spermothamnion repens* var. *flagelliferum*, *Streblocladia collabens* and *Tiffaniella capitata*. Contrary to cold-water brown algae, most of the red algae form small populations and often pass unnoticed.

In Galicia there is an excellent representation of Lusitanic Province endemic species (Appendix III), like *Bifurcaria bifurcata*, *Cystoseira baccata*, *Laminaria ochroleuca*, *Phyllariopsis brevipes* subsp. *pseudopurpurascens*, *P. purpurascens*, *Callithamnion tetricum*, *Laurencia pyramidalis*, *Osmundea osmunda* and *Pterosiphonia complanata*. There are also endemic species that are poorly represented in other Iberian Peninsula coasts, like *Ahnfeltiopsis pusilla*, *Apoglossocolax pusilla*, *Cordylecaladia erecta*, *Drachiella spectabilis*, *Erythrogllossum lusitanicum*, *Gelidiella calcicola*, *Polyneura bonnemaisonii*, *Ptilothamnion sphaericum*, *Desmarestia dudrenayi* and *Ulva rigida* var. *fimbriata*.

Most of the alien species (Appendix IV), like *Asparagopsis armata*, “*Falkenbergia rufolanosa*” [stage],

*Heterosiphonia japonica*, *Neosiphonia harveyi*, *Colpomenia peregrina*, *Sargassum muticum* or *Codium fragile* subsp. *tomentosoides* are widely represented in Galicia. However, *Grateloupia luxurians* is only known from the Ría de Arousa, and *Grateloupia turuturu*, *Lomentaria bakodatensis* and *Undaria pinnatifida* lack in Lugo.

The knowledge of seaweeds is unequal for the three provinces included in this catalogue, with 554 species recorded for A Coruña, 546 for Pontevedra, but only 379 for Lugo. Another expression of this asymmetry

would be the number of species known in Galicia exclusively from one province; this number is much higher for A Coruña (64) and Pontevedra (71) than for Lugo (11). Such differences were already pointed out by Álvarez Cobelas & al. (1989), and although in the last fifteen years much has been published on Lugo seaweeds (López-Rodríguez & al., 1991; Gallardo & Margalet, 1992; Cremades & al., 1997a; Bárbara & al., 2002, 2003b), more research is still required to complete the catalogue.

**Table 1.** Catalogue of the benthic marine and brackish Galician algae and their distribution by provinces. (Lu) Lugo, (Co) A Coruña and (Po) Pontevedra.

## CYANOPHYTA

### CHROOCOCCALES

#### CHAMAESIPHONACEAE

### **Chamaecalyx** Komárek & Anagnostidis

*Chamaecalyx leibleiniae* (Reinsch) Komárek & Anagnostidis (Lu, Co, Po)

#### CHROOCOCCACEAE

### **Chroococcus** Nägeli

*Chroococcus minutus* (Kützing) Nägeli (Co) <sup>1</sup>

= *Gloeocapsa minuta* (Kützing) Hollerbach in Elenkin

*Chroococcus turgidus* (Kützing) Nägeli (Lu, Co, Po)

= *Chroococcus dimidiatus* (Kützing) Nägeli

= *Anacystis dimidiata* (Kützing) Drouet & Daily

### **Gloeocapsopsis** Geitler ex Komárek

*Gloeocapsopsis crepidinum* (Thuret) Komárek (Co, Po)

= *Gloeocapsa crepidinum* (Thuret) Thuret in Bornet & Thuret, non Geitler

#### DERMOCARPELLACEAE

### **Cyanocystis** Borzi

*Cyanocystis minima* (Geitler) Komárek & Anagnostidis (Po) <sup>2</sup>

= *Dermocarpa minima* Geitler

*Cyanocystis olivacea* (Reinsch) Komárek & Anagnostidis (Co, Po)

*Cyanocystis violacea* (P. Crouan & H. Crouan) Komárek & Anagnostidis (Co, Po)

### **Dermocarpella** Lemmermann

*Dermocarpella prasina* (Reinsch) Komárek & Anagnostidis (Lu, Co, Po)

= *Dermocarpa prasina* (Reinsch) Bornet & Thuret

### **Stanieria** Komárek & Anagnostidis

*Stanieria sphaerica* (Setchell & N.L. Gardner) Anagnostidis & Pantazidou (Co) <sup>3</sup>

= *Dermocarpa sphaerica* Setchell & N.L. Gardner in Gardner

*Stanieria sublitoralis* (Lindstedt) Anagnostidis & Pantazidou (Lu, Co, Po)

#### ENTOPHYSAIDACEAE

### **Chlorogloea** Wille

*Chlorogloea microcystoides* Geitler (Po) <sup>2</sup>

### **Entophysalis** Kützing

*Entophysalis conferta* (Kützing) Drouet & Daily (Co, Po)

*Entophysalis deusta* (Meneghini) Drouet & Daily (Co, Po)

= *Gloeocapsa deusta* (Meneghini) Kützing

## HYDROCOCCACEAE

### **Placoma** Schousboe ex Bornet & Thuret

*Placoma vesiculosum* Schousboe ex Bornet & Thuret (Co, Po)

## HYELLACEAE

### **Hyella** Bornet & Flahault

*Hyella balani* Lehmann (Co) <sup>4</sup>

*Hyella caespitosa* Bornet & Flahault (Lu, Co, Po) <sup>5</sup>

*Hyella endophytica* Börgesen (Co) <sup>6</sup>

### **Pleurocapsa** Thuret in Hauck

*Pleurocapsa crepidinum* F.S. Collins (Po) <sup>7</sup>

*Pleurocapsa fuliginosa* Hauck (Po) <sup>2</sup>

*Pleurocapsa minuta* Geitler (Po) <sup>2</sup>

## MERISMOPEDIAEAE

### **Aphanocapsa** Nägeli

*Aphanocapsa conferta* (W. & G. S. West) Komárková-Legnerová & Cronberg (Co) <sup>8</sup>

= *Aphanocapsa elachista* var. *conferta* W. & G. S. West

= *Microcystis pulverulea* f. *conferta* (W. & G. S. West) Elenkin

*Aphanocapsa litoralis* (Hansgirg) Komárek & Anagnostidis (Co, Po)

= *Microcystis litoralis* (Hansgirg) Forti in De Toni

*Aphanocapsa marina* Hansgirg (Lu, Po)

*Aphanocapsa raspaiellae* (Hauck) Frémy (Co, Po)

*Aphanocapsa reinboldii* (Richter) Komárek & Anagnostidis (Po) <sup>9</sup>

= *Microcystis reinboldii* (Richter) Forti

### **Gomphosphaeria** Kützing

*Gomphosphaeria salina* Komárek & Hindák (Co) <sup>10</sup>

### **Merismopedia** Meyen

*Merismopedia elegans* A. Braun ex Kützing (Co) <sup>8</sup>

*Merismopedia mediterranea* Nägeli (Co) <sup>8</sup>

= *Merismopedia glauca* f. *mediterranea* (Nägeli) F.S. Collins

### **Microcrocis** Richter

*Microcrocis sabulicola* (Lagerheim) Geitler (Po) <sup>2</sup>

## MICROCYSTACEAE

### **Gloeocapsa** Kützing

*Gloeocapsa granosa* (Berkeley) Kützing (Co) <sup>1</sup>

= *Gloeocapsa fenestralis* Kützing

### **Microcystis** Kützing ex Lemmermann

*Microcystis aeruginosa* (Kützing) Kützing (Po) <sup>2</sup>

= *Clathrocystis aeruginosa* (Kützing) Henfrey

= *Microcystis ochracea* (Brand) Forti

= *Anacystis cyanea* (Kützing) Drouet & Daily

Table 1 (continuation)

SYNECHOCOCCACEAE	
<b>Aphanothece</b> Nägeli	
<i>Aphanothece stagnina</i> (Sprengel) A. Braun (Co, Po)	
<b>Gloeothece</b> Nägeli	
<i>Gloeothece palea</i> (Kützing) Rabenhorst (Co) <sup>1</sup>	
= <i>Gloeocapsa palea</i> Kützing	
XENOCOCCACEAE	
<b>Myxosarcina</b> Printz	
<i>Myxosarcina gloeocapsoides</i> (Setchell & N.L. Gardner) Komárek & Anagnostidis (Co) <sup>3</sup>	
<b>Xenococcus</b> Thuret in Bornet & Thuret	
<i>Xenococcus cladophorae</i> (Tilden) Setchell & N.L. Gardner (Co) <sup>3</sup>	
<i>Xenococcus gilkeyae</i> Setchell & N.L. Gardner (Lu, Co) <sup>11</sup>	
<i>Xenococcus pyriformis</i> Setchell & N.L. Gardner (Lu, Co, Po)	
<i>Xenococcus schousboei</i> Thuret (Po) <sup>2</sup>	
<b>Xenotholus</b> Gold-Morgan, Montejano & Komárek	
<i>Xenotholus kernerii</i> (Hansgirg) Gold-Morgan, Montejano & Komárek (Po) <sup>7</sup>	
OSCILLATORIALES	
HOMEOTRICHACEAE	
<b>Heteroleibleinia</b> (Geitler) Hoffmann	
<i>Heteroleibleinia infixa</i> (Frémy) Anagnostidis & Komárek (Po) <sup>2</sup>	
OSCILLATORIAEAE	
<b>Blennothrix</b> Kützing	
<i>Blennothrix lynbyacea</i> (Kützing) Anagnostidis & Komárek (Lu, Co, Po)	
= <i>Hydrocoleum lynbyaceum</i> Kützing	
= <i>Microcoleus lynbyaceus</i> (Kützing) P.L. Crouan & H.M. Crouan	
<b>Hormoscilla</b> Anagnostidis & Komárek	
<i>Hormoscilla spongelliae</i> (Schulze ex Gomont) Anagnostidis & Komárek (Co, Po) <sup>12</sup>	
= <i>Oscillatoria spongelliae</i> Schulze	
= <i>Phormidium spongelliae</i> (Schulze) Gomont	
<b>Hydrocoleum</b> Kützing	
<i>Hydrocoleum glutinosum</i> (C. Agardh) Gomont (Co, Po)	
<b>Lyngbya</b> C. Agardh, nom. cons.	
<i>Lyngbya aestuarii</i> (Mertens) Liebmann (Co, Po)	
<i>Lyngbya confervoides</i> C. Agardh (Lu, Co, Po)	
<i>Lyngbya majuscula</i> (Dillwyn) Harvey (Lu, Co, Po)	
<i>Lyngbya meneghiniana</i> (Kützing) Falkenberg (Lu) <sup>13</sup>	
<i>Lyngbya semiplena</i> (C. Agardh) J. Agardh (Lu, Co, Po)	
<b>Oscillatoria</b> Vaucher ex Gomont	
<i>Oscillatoria bonnemaisonii</i> (P. Crouan & H. Crouan) P. Crouan & H. Crouan (Lu, Co, Po) <sup>14</sup>	
= <i>Oscillatoria intermedia</i> P. Crouan & H. Crouan ex Gomont	
= <i>Oscillatoria colubrina</i> Thuret in Le Jolis	
<i>Oscillatoria limosa</i> C. Agardh ex Gomont (Co, Po)	
<i>Oscillatoria margaritifera</i> (Kützing) Gomont (Co, Po)	
PHORMIDIACEAE	
<b>Microcoleus</b> Desmazières ex Gomont	
<i>Microcoleus acutirostris</i> Gomont (Lu, Co)	
<i>Microcoleus chthonoplastes</i> Thuret ex Gomont (Co, Po)	
<i>Microcoleus codii</i> Frémy (Co) <sup>15</sup>	
<i>Microcoleus wuithneri</i> Frémy (Co, Po) <sup>16</sup>	
<b>Phormidium</b> Kützing ex Gomont	
<i>Phormidium aerugineo-caeruleum</i> (Gomont) Anagnostidis & Komárek (Co) <sup>8</sup>	
<i>Phormidium autumnale</i> (C. Agardh) Gomont (Co, Po)	
<i>Phormidium breve</i> (Kützing ex Gomont) Anagnostidis & Komárek (Co, Po)	
= <i>Oscillatoria brevis</i> Kützing ex Gomont	
<i>Phormidium corallinae</i> (Gomont ex Gomont) Anagnostidis & Komárek (Lu, Co, Po)	
= <i>Oscillatoria corallinae</i> Gomont ex Gomont	
<i>Phormidium corium</i> (C. Agardh) Kützing (Lu, Co, Po)	
<i>Phormidium ectocarpum</i> Gomont (Po) <sup>17</sup>	
<i>Phormidium laetevirens</i> (P. Crouan & H. Crouan ex Gomont) Anagnostidis & Komárek (Co, Po)	
<i>Phormidium limosum</i> (Dillwyn) P.C. Silva (Lu, Co, Po)	
= <i>Phormidium tenue</i> (C. Agardh ex Gomont) Anagnostidis & Komárek nom. illeg.	
<i>Phormidium nigro-viride</i> (Thornwaites ex Gomont) Anagnostidis & Komárek (Po) <sup>18</sup>	
= <i>Oscillatoria nigroviridis</i> Thwaites ex Gomont	
<i>Phormidium papyraceum</i> (C. Agardh) Kützing (Co, Po)	
<i>Phormidium subfuscum</i> (Vaucher) Kützing (Co, Po)	
<i>Phormidium subsalsum</i> Gomont (Co) <sup>19</sup>	
<i>Phormidium submembranaceum</i> (Ardissone & Strafforello) Gomont (Po) <sup>20</sup>	
= <i>Oscillatoria submembranacea</i> Ardissone & Strafforello	
<i>Phormidium subuliforme</i> (Thwaites ex Gomont) Anagnostidis & Komárek (Co) <sup>13</sup>	
= <i>Oscillatoria subuliformis</i> Thwaites	
<i>Phormidium valderianum</i> (Delponte) Gomont (Co) <sup>1</sup>	
<b>Porphyrosiphon</b> Kützing ex Gomont	
<i>Porphyrosiphon luteus</i> (Gomont ex Gomont) Anagnostidis & Komárek (Co, Po)	
<b>Sirocoleum</b> Kützing ex Gomont	
<i>Sirocoleum kurzii</i> (Zeller) Gomont (Po) <sup>21</sup>	
<b>Spirulina</b> Turpin emend. N.L. Gardner ex Gomont	
<i>Spirulina labyrinthiformis</i> (Meneghini) Gomont (Co) <sup>1</sup>	
<i>Spirulina major</i> Kützing ex Gomont (Co, Po)	
= <i>Spirulina oscillarioides</i> Kützing	
<i>Spirulina miniata</i> Hauck (Po) <sup>22</sup>	
<i>Spirulina subsalsa</i> Gomont (Co, Po)	
<i>Spirulina subtilissima</i> Kützing ex Gomont (Po) <sup>23</sup>	
<i>Spirulina tenerrima</i> Kützing (Co, Po)	
<b>Symploca</b> Kützing ex Gomont	
<i>Symploca atlantica</i> Gomont (Lu) <sup>24</sup>	
<i>Symploca funicularis</i> Setchell & N.L. Gardner (Co) <sup>8</sup>	
<i>Symploca hydroides</i> (Harvey) Kützing ex Gomont (Co, Po)	
SCHIZOTRICHACEAE	
<b>Schizothrix</b> Kützing ex Gomont	
<i>Schizothrix tenerrima</i> (Gomont) Drouet (Co, Po)	
PSEUDOANABAENACEAE	
<b>Leibleinia</b> (Gomont) Hoffmann	
<i>Leibleinia baculum</i> (Gomont) Hoffmann (Co) <sup>25</sup>	
<i>Leibleinia epiphytica</i> (Hieronymus) Anagnostidis & Komárek (Co, Po)	
<b>Leptolyngbya</b> Anagnostidis & Komárek	
<i>Leptolyngbya calothrichoides</i> (Gomont) Anagnostidis & Komárek (Po) <sup>7</sup>	
<i>Leptolyngbya perelegans</i> (Lemmermann) Anagnostidis & Komárek (Co) <sup>26</sup>	
<b>Pseudoanabaena</b> Lauterborn	
<i>Pseudoanabaena catenata</i> Lauterborn (Co) <sup>8</sup>	
<b>Spirocoleus</b> Möbius	
<i>Spirocoleus battersii</i> (Gomont) P.C. Silva (Lu, Co, Po)	

Table 1 (continuation)

<i>Spirocoleus fragilis</i> (Meneghini) P.C. Silva (Co, Po) = <i>Phormidium fragile</i> (Meneghini) Gomont = <i>Leptolyngbya fragilis</i> (Meneghini) Anagnostidis & Komárek	STIGONEMATALES
<i>Spirocoleus tenuis</i> (Meneghini) P.C. Silva (Co, Po) = <i>Phormidium tenue</i> (Meneghini) Gomont = <i>Leptolyngbya tenuis</i> (Meneghini) Anagnostidis & Komárek	MASTIGOCADACEAE
NOSTOCALES	<b>Brachytrichia</b> Zanardini ex Bornet & Flahault
MICROCHAETACEAE	<i>Brachytrichia lloydii</i> (P. Crouan & H. Crouan) P.C. Silva (Co, Po) = <i>Brachytrichia balani</i> (C. Agardh) Bornet & Flahault, nom. illeg.
<b>Hassallia</b> Berkeley ex Bornet & Flahault	NOSTOCHOPSACEAE
<i>Hassallia bouteillei</i> (Brébisson & Desmazières) Bornet & Flahault (Co) <sup>1</sup>	<b>Mastigocoleus</b> Lagerheim ex Bornet & Flahault
= <i>Tolypothrix bouteillei</i> (Brébisson & Desmazières) Lemmermann	<i>Mastigocoleus testarum</i> Lagerheim ex Bornet & Flahault (Co, Po)
<b>Microchaete</b> Thuret ex Bornet & Flahault	RHODOPHYTA
<i>Microchaete grisea</i> Thuret ex Bornet & Flahault (Lu) <sup>13</sup>	BANGIOPHYCEAE
<b>Tolypothrix</b> Kützing ex Bornet & Flahault	PORPHYRIDIALES
<i>Tolypothrix tenuis</i> Kützing ex Bornet & Flahault (Lu, Co, Po)	GONIOTRICHACEAE
NOSTOCALEAE	<b>Chroodactylon</b> Hansgirg
<b>Anabaina</b> Bory de Saint-Vincent	<i>Chroodactylon ornatum</i> (C. Agardh) Basson (Po) <sup>31</sup>
<i>Anabaina oscillarioides</i> Bory de Saint-Vincent ex Bornet & Flahault (Co) <sup>8</sup>	= <i>Asterocytis ornata</i> (C. Agardh) G. Hamel
<i>Anabaina torulosa</i> (Carmichael) Lagerheim ex Bornet & Flahault (Co, Po)	= <i>Asterocytis ramosa</i> (Thawaites) Gobi ex F. Schmitz
<b>Isactis</b> Thuret ex Bornet & Flahault	<b>Colacodictyon</b> J. Feldmann
<i>Isactis plana</i> (Harvey in Hooker) Thuret (Lu, Co, Po)	<i>Colacodictyon reticulatum</i> (Batters) J. Feldmann (Po) <sup>32</sup>
<b>Isocystis</b> Borzi ex Bornet & Flahault	<b>Stylonema</b> Reinsch
<i>Isocystis lithophila</i> Ercegovic (Co, Po)	<i>Stylonema alsidii</i> (Zanardini) K.M. Drew (Lu, Co, Po)
<b>Nodularia</b> Mertens ex Bornet & Flahault	= <i>Goniotrichum alsidii</i> (Zanardini) M.A. Howe
<i>Nodularia harveyana</i> (Thornwaites) Thuret (Co) <sup>1</sup>	= <i>Goniotrichum elegans</i> (Chauvin) Zanardini
<i>Nodularia spumigena</i> Bornet & Flahault (Co) <sup>10</sup>	<i>Stylonema cornu-cervi</i> Reinsch (Lu, Co, Po)
<b>Nostoc</b> Vaucher ex Bornet & Flahault	= <i>Goniotrichum cornu-cervi</i> (Reinsch) Hauck
<i>Nostoc commune</i> Vaucher ex Bornet & Flahault (Co) <sup>1</sup>	ERYTHROPELTIDALES
<i>Nostoc endophytum</i> Bornet & Flahault (Po) <sup>2</sup>	ERYTHROPELTIDACEAE
<i>Nostoc sphaericum</i> Vaucher ex Bornet & Flahault (Co) <sup>1</sup>	<b>Erythropeltis</b> F. Schmitz
<b>Trichormus</b> (Ralfs ex Bornet & Flahault) Komárek & Anagnostidis	<i>Erythropeltis discigera</i> (Berthold) F. Schmitz (Po) <sup>20</sup>
<i>Trichormus variabilis</i> (Kützing) Komárek & Anagnostidis (Co, Po) <sup>27</sup>	<b>Erythrotrichia</b> J.E. Areschoug
= <i>Anabaina variabilis</i> Kützing	<i>Erythrotrichia bertholdii</i> Batters (Co, Po) <sup>33</sup>
RIVULARIACEAE	= <i>Erythrotrichia ciliaris sensu</i> Berthold
<b>Calothrix</b> C. Agardh ex Bornet & Flahault	<i>Erythrotrichia carnea</i> (Dillwyn) J. Agardh (Lu, Co, Po)
<i>Calothrix aeruginea</i> (Kützing) Thuret (Co, Po) <sup>28</sup>	<i>Erythrotrichia investiens</i> (Zanardini) Bornet (Co) <sup>34</sup>
<i>Calothrix confervicola</i> (Dillwyn) C. Agardh (Lu, Co, Po) <sup>29</sup>	<i>Erythrotrichia welwitschii</i> (Ruprecht) Batters (Lu, Co, Po)
<i>Calothrix crustacea</i> Thuret (Lu, Co, Po)	<b>Porphyrostromium</b> Trevisan
<i>Calothrix fasciculata</i> C. Agardh (Co) <sup>30</sup>	<i>Porphyrostromium boryanum</i> (Montagne) P.C. Silva (Lu, Co, Po)
<i>Calothrix parasitica</i> (Chauvin) Kützing (Lu, Co, Po)	= <i>Erythrotrichia boryana</i> (Montagne) Berthold
<i>Calothrix parietina</i> (Nägeli ex Kützing) Thuret (Lu, Co, Po)	<i>Porphyrostromium ciliare</i> (Carmichael) M.J. Wynne (Co, Po) <sup>35</sup>
<i>Calothrix prolifera</i> Bornet & Flahault (Po) <sup>2</sup>	= <i>Bangia ciliaris</i> Carmichael ex Harvey in Hooker
<i>Calothrix pulvinata</i> C. Agardh ex Bornet & Flahault (Lu, Co, Po)	= <i>Erythrotrichia ciliaris</i> (Carmichael ex Harvey in Hooker) Thuret in Le Jolis
<i>Calothrix scopulorum</i> (F.F. Weber & Morh) C. Agardh (Lu, Co, Po)	<b>Sahlingia</b> Kornmann
<b>Rivularia</b> C. Agardh	<i>Sahlingia subintegra</i> (Rosenvinge) Kornmann (Co, Po)
<i>Rivularia atra</i> Roth ex Bornet & Flahault (Lu, Co, Po)	= <i>Erythrocladia subintegra</i> Rosenvinge
<i>Rivularia bullata</i> (Poirlet) Berkeley ex Bornet & Flahault (Lu, Co, Po)	= <i>Erythropeltis subintegra</i> (Rosenvinge) Kornmann & Sahling
<i>Rivularia nitida</i> C. Agardh (Co, Po)	BANGIALES
	BANGIACEAE
	<b>Bangia</b> Lyngbye
	<i>Bangia atropurpurea</i> (Roth) C. Agardh (Lu, Co, Po)
	= <i>Bangia fuscopurpurea</i> (Dillwyn) Lyngbye
	<b>Porphyra</b> C. Agardh
	<i>Porphyra dioica</i> J. Brodie & L.M. Irvine (Co, Po) <sup>24</sup>
	<i>Porphyra leucosticta</i> Thuret (Lu, Co, Po)
	<i>Porphyra linearis</i> Greville (Lu, Co, Po)
	<i>Porphyra purpurea</i> (Roth) C. Agardh (Lu, Co, Po)
	<i>Porphyra umbilicalis</i> (Linnaeus) Kützing (Lu, Co, Po)

Table 1 (continuation)

FLORIDOPHYCEAE	= <i>Rodymenia palmata</i> (Linnaeus) Greville
ACROCHAETIALES	RHODOTHAMNIELLACEAE
ACROCHAETIACEAE	<b>Rhodophysema</b> Batters
<b>Acrochaetium</b> Nägeli	<i>Rhodophysema elegans</i> (P. Crouan & H. Crouan ex J. Agardh)
<i>Acrochaetium battersianum</i> G. Hamel (Po) <sup>36</sup>	Dixon (Po) <sup>20</sup>
= <i>Audouinella battersiana</i> (G. Hamel) Dixon	= <i>Peyssonnelia rupestris</i> P. Crouan & H. Crouan
<i>Acrochaetium chylocladiae</i> (Batters) Batters (Po) <sup>36</sup>	<i>Rhodophysema georgei</i> Batters (Po) <sup>41</sup>
= <i>Audouinella chylocladiae</i> (Batters) P.S. Dixon	= <i>Rhododermis georgii</i> (Batters) F.S. Collins
<i>Acrochaetium corymbiferum</i> (Thuret) Batters (Lu, Co) <sup>37</sup>	<b>Rhodothamniella</b> J. Feldmann emend. Bidoux & Magne
= <i>Audouinella corymbifera</i> (Thuret) P.S. Dixon	<i>Rhodothamniella floridula</i> (Dillwyn) J. Feldmann (Lu, Co, Po)
<i>Acrochaetium infestans</i> M.A. Howe & Hoyt (Co) <sup>38</sup>	= <i>Audouinella floridula</i> (Dillwyn) Woelkerling
= <i>Audouinella infestans</i> (M.A. Howe & Hoyt) P.S. Dixon	= <i>Rhodochorton floridulum</i> (Dillwyn) Nägeli
<i>Acrochaetium minimum</i> F.S. Collins (Po) <sup>20</sup>	AHNFELTIALES
= <i>Audouinella minima</i> (F.S. Collins) G.R. South	AHNFELTIACEAE
= <i>Acrochaetium mirabilis</i> (Shur) Nägeli	<b>Ahnfeltia</b> Fries
<i>Acrochaetium naumannii</i> (Askenasy) Börgesen (Lu, Co, Po)	<i>Ahnfeltia plicata</i> (Hudson) Fries (Lu, Co, Po)
= <i>Acrochaetium interpositum</i> (Heydrich) Börgesen	= <i>Gymnogongrus plicatus</i> (Hudson) Kützing
<i>Acrochaetium parvulum</i> (Kylin) Hoyt (Co) <sup>20</sup>	NEMALIALES
<i>Acrochaetium savianum</i> (Meneghini) Nägeli (Po) <sup>36</sup>	GALAXAURACEAE
= <i>Audouinella thuretii</i> (Bornet) Woelkerling	<b>Scinia</b> Bivona-Bernardi
= <i>Audouinella saviana</i> (Meneghini) Woelkerling	<i>Scinia furcellata</i> (Turner) J. Agardh (Lu, Co, Po)
<i>Acrochaetium secundatum</i> (Lyngbye) Nägeli (Co, Po) <sup>39</sup>	= <i>Scinia pseudocrispa</i> (Clemente) M.J. Wynne
= <i>Audouinella secundata</i> (Lyngbye) Woelkerling	= <i>Scinia forcillata</i> Bivona-Bernardi
<i>Acrochaetium sparsum</i> (Carmichael ex Harvey) Nägeli (Lu, Co, Po)	<i>Scinia interrupta</i> (A.P. De Candolle) M.J. Wynne (Lu, Co, Po)
= <i>Audouinella sparsa</i> (Harvey) P.S. Dixon	= <i>Scinia turgida</i> Chemin
<i>Acrochaetium virgatum</i> (Harvey) Batters (Lu, Co, Po)	= <i>Scinia subcostata</i> (J. Agardh) Chemin & G. Hamel
= <i>Acrochaetium rhipidandrum</i> (Rosenvinge) G. Hamel (Co, Po)	LIAGORACEAE
<b>Rhodochorton</b> Nägeli	<b>Helminthocladia</b> J. Agardh
<i>Rhodochorton membranaceum</i> (Magnus) Hauck (Lu, Po) <sup>40</sup>	<i>Helminthocladia calvadosii</i> (J.V. Lamouroux ex Duby) Setchell
= <i>Audouinella membranacea</i> (Magnus) Papenfuss	(Lu, Co, Po)
<i>Rhodochorton purpureum</i> (Lightfoot) Rosenvinge (Lu, Co, Po)	= <i>Helminthocladia purpurea</i> (Harvey) J. Agardh
= <i>Audouinella purpurea</i> (Lightfoot) Woelkerling	<b>Helminthora</b> J. Agardh
= <i>Rhodochorton rothii</i> (Turton) Nägeli	<i>Helminthora divaricata</i> (C. Agardh) J. Agardh (Co) <sup>43</sup>
<b>Schmitziella</b> Bornet & Batters	<b>Liagora</b> J.V. Lamouroux
<i>Schmitziella endophloea</i> Bornet & Batters (Co, Po)	<i>Liagora distenta</i> (G. Mertens ex Roth) J.V. Lamouroux (Lu) <sup>44</sup>
COLACONEMATALES	<i>Liagora viscida</i> (Forsskål) C. Agardh (Lu, Co, Po)
COLACONEMATACEAE	<b>Nemalion</b> Duby
<b>Colaconema</b> Batters emend. J.T. Harper & G.W. Saunders	<i>Nemalion helminthoides</i> (Vellay) Batters (Lu, Co, Po)
<i>Colaconema bonnemaisoniae</i> Batters (Po) <sup>41</sup>	= <i>Nemalion multifidum</i> (F. Weber & D. Mohr) Endlicher
= <i>Acrochaetium bonnemaisoniae</i> (Batters) Feldmann & G. Feldmann	= <i>Nemalion lubricum</i> Duby
= <i>Audouinella bonnemaisoniae</i> (Batters) P.S. Dixon	GELIDIALES
<i>Colaconema caespitosum</i> (J. Agardh) Jackelman, Stegenga & Bolton (Lu, Co, Po)	GELIDIACEAE
= <i>Rhodothamniella caespitosa</i> (J. Agardh) J. Feldmann	<b>Gelidiella</b> Feldmann & G. Hamel
= <i>Audouinella caespitosa</i> (J. Agardh) P.S. Dixon	<i>Gelidiella calcicola</i> Maggs & Guiry (Po) <sup>32</sup>
= <i>Audouinella botryocarpa</i> (Harvey) Woelkerling	<b>Gelidium</b> J.V. Lamouroux
<i>Colaconema daviesii</i> (Dillwyn) Stegenga (Lu, Co, Po)	<i>Gelidium corneum</i> (Hudson) J.V. Lamouroux, (Lu, Co, Po)
= <i>Acrochaetium daviesii</i> (Dillwyn) Nägeli	= <i>Gelidium sesquipedale</i> (Clemente) Thuret
= <i>Audouinella daviesii</i> (Dillwyn) Woelkerling	<i>Gelidium crinale</i> (Turner) Gaillon (Co, Po)
<i>Colaconema endophyticum</i> (Batters) J.T. Harper & G.W. Saunders (Co) <sup>38</sup>	<i>Gelidium maggsiae</i> Rico & Guiry (Po) <sup>25</sup>
= <i>Audouinella endophytica</i> (Batters) P.S. Dixon	<i>Gelidium pulchellum</i> (Turner) Kützing (Lu, Co, Po)
<i>Colaconema nemalione</i> (De Notaris) H. Stegenga (Lu) <sup>42</sup>	<i>Gelidium pusillum</i> (Stackhouse) Le Jolis (Lu, Co, Po) <sup>45</sup>
= <i>Audouinella nemalionis</i> (De Notris ex L. Dufour) P.S. Dixon	<i>Gelidium spathulatum</i> (Kützing) Bornet (Lu, Co, Po)
PALMARIALES	<i>Gelidium spinosum</i> (S.G. Gmelin) P.C. Silva (Lu, Co, Po) <sup>46</sup>
PALMARIACEAE	= <i>Gelidium latifolium</i> (Greville) Bornet & Thuret
<b>Palmaria</b> Stackhouse	= <i>Gelidium attenuatum</i> (Turner) Thuret
<i>Palmaria palmata</i> (Linnaeus) Kuntze (Lu, Co, Po)	<b>Parviphycus</b> Santelices
	<i>Parviphycus tenuissimus</i> (Feldmann & G. Hamel) Santelices (Co, Po) <sup>47</sup>

Table 1 (continuation)

- = *Gelidiella tenuissima* (Thuret) Feldmann & G. Hamel  
 = *Gelidiella pannosa* (Feldmann) Feldmann & G. Hamel
- Pteroclatiella** Santelices & Hommersand  
*Pteroclatiella capillacea* (S.G. Gmelin) Santelices & Hommersand (Lu, Co, Po)  
 = *Pterocladia capillacea* (S.G. Gmelin) Bornet  
 = *Pterocladia pinnata* (Hudson) Papenfuss  
*Pteroclatiella melanoidea* (Schousboe ex Bornet) Santelices & Hommersand (Lu, Co, Po)<sup>48</sup>  
 = *Gelidium melanoideum* Schousboe ex Bornet
- GRACILARIALES  
 GRACILARIACEAE
- Gracilaria** Greville  
*Gracilaria bursa-pastoris* (S.G. Gmelin) P.C. Silva (Lu, Co, Po)<sup>49</sup>  
 = *Gracilaria compressa* (C. Agardh) Greville  
*Gracilaria gracilis* (Stackhouse) Steentoft, L.M. Irvine & Farnham (Lu, Co, Po)  
 = *Gracilaria confervoides* Greville, *nom. illeg.*  
 = *Gracilaria verrucosa* (Hudson) Papenfuss  
*Gracilaria multipartita* (Clemente) Harvey (Lu, Co, Po)  
 = *Gracilaria foliifera* (Forsskål) Börgesen  
*Gracilaria vermiculophylla* (Ohmi) Papenfuss (Lu, Co)<sup>50</sup>
- Gracilariopsis** E.Y. Dawson  
*Gracilariopsis longissima* (S.G. Gmelin) Steentoft, L.M. Irvine & Farnham (Co)<sup>51</sup>
- PTEROCLADIOPHILACEAE
- Gelidiocolax** N.L. Gardner  
*Gelidiocolax deformans* Seoane (Co, Po)  
*Gelidiocolax margaritoides* (Martin & Pocock) Fan & Papenfuss (Lu, Co, Po)
- Holmsella** Struch  
*Holmsella pachyderma* (Reinsch) Sturch (Co, Po)
- BONNEMAISONIALES  
 BONNEMAISONIACEAE
- Asparagopsis** Montagne  
*Asparagopsis armata* Harvey (Lu, Co, Po)  
 “*Falkenbergia rufolanosa*” (Harvey) F. Schmitz [stage] (Lu, Co, Po)
- Bonnemaisonia** C. Agardh  
*Bonnemaisonia asparagoides* (Woodward) C. Agardh (Lu, Co, Po)  
 “*Hymenoclonium serpens*” (P.L. Crouan & H.M. Crouan) Batters [stage] (Co, Po)<sup>52</sup>  
*Bonnemaisonia clavata* G. Hamel (Po)<sup>53</sup>  
 “*Trailliella intricata*” Batters [stage] (Po)<sup>54</sup>
- CRYPTONEMIALES  
 DUMONTIACEAE
- Dilsea** Stackhouse  
*Dilsea carnos*a (Schmidel) Kuntze (Lu, Co, Po)  
 = *Dilsea edulis* Stackhouse
- Dudresnaya** P.L. Crouan & H.M. Crouan  
*Dudresnaya verticillata* (Withering) Le Jolis (Lu, Co, Po)<sup>55</sup>
- Dumontia** J.V. Lamouroux  
*Dumontia contorta* (S.G. Gmelin) Ruprecht (Lu, Co, Po)  
 = *Dumontia incrassata* (O.F. Müller) J.V. Lamouroux  
 = *Dumontia filiformis* (Hornemann) Greville
- GLOIOSIPHONIACEAE
- Gloiosiphonia** Carmichael  
*Gloiosiphonia capillaris* (Hudson) Carmichael ex Berkeley (Lu, Co, Po)
- Schimmelmannia** Schousboe ex Kützing  
*Schimmelmannia schousboei* (J. Agardh) J. Agardh (Co)<sup>56</sup>
- HALYMENIACEAE
- Cryptonemia** J. Agardh  
*Cryptonemia lomation* (Bertoloni) J. Agardh (Lu, Co, Po)<sup>57</sup>  
 = *Cryptonemia seminervis* (C. Agardh) J. Agardh  
 = *Cryptonemia lactuca* (C. Agardh) J. Agardh
- Grateloupia** C. Agardh  
*Grateloupia dichotoma* J. Agardh (Lu, Co, Po)  
*Grateloupia lanceola* (J. Agardh) J. Agardh emend. Ardré & Gayral (Co)<sup>58</sup>  
*Grateloupia luxurians* (A. Gepp & E.S. Gepp) De Clerk & Gavio (Co, Po)<sup>59</sup>  
 = *Grateloupia filicina* var. *luxurians* A. Gepp & E.S. Gepp  
*Grateloupia minima* P.L. Crouan & H.M. Crouan (Lu, Co, Po)<sup>60</sup>  
*Grateloupia proteus* Kützing (Co)<sup>61</sup>  
*Grateloupia turuturu* Yamada (Co, Po)<sup>62</sup>
- Halymenia** C. Agardh  
*Halymenia latifolia* P.L. Crouan & H.M. Crouan ex Kützing (Co, Po)
- KALLYMENIACEAE
- Callocolax** F. Schmitz ex Batters  
*Callocolax neglectus* F. Schmitz ex Batters (Lu, Co, Po)
- Callophyllis** Kützing  
*Callophyllis laciniata* (Hudson) Kützing (Lu, Co, Po)  
 = *Callophyllis flabellata* P.L. Crouan & H.M. Crouan
- Kallymenia** J. Agardh  
*Kallymenia reniformis* (Turner) J. Agardh (Lu, Co, Po)  
*Kallymenia requienii* (J. Agardh) J. Agardh (Lu, Co, Po)<sup>63</sup>
- Meredithia** J. Agardh  
*Meredithia microphylla* (J. Agardh) J. Agardh (Lu, Po)<sup>64</sup>  
 = *Kallymenia microphylla* J. Agardh
- PEYSSONNELIACEAE
- Peyssonnelia** Decaisne  
*Peyssonnelia atropurpurea* P.L. Crouan & H.M. Crouan (Lu, Co, Po)  
*Peyssonnelia coriacea* J. Feldmann (Lu, Co)<sup>65</sup>  
*Peyssonnelia dubyi* P.L. Crouan & H.M. Crouan (Lu, Co, Po)  
 = *Cruoriella dubyi* (P.L. Crouan & H.M. Crouan) F. Schmitz  
*Peyssonnelia rubra* (Greville) J. Agardh (Co, Po)<sup>66</sup>
- HILDENBRANDIALES  
 HILDENBRANDIACEAE
- Hildenbrandia** Nardo  
*Hildenbrandia crouaniorum* J. Agardh (Lu, Co, Po)  
 = *Hildenbrandia canariensis* Börgesen  
 = *Hildenbrandia crouanii* J. Agardh  
*Hildenbrandia occidentalis* Setchell (Co, Po)  
 = *Hildebrandia occidentalis* var. *lusitanica* Ardré  
*Hildenbrandia rubra* (Sommerfelt) Meneghini (Lu, Co, Po)  
 = *Hildenbrandia prototypus* Nardo  
 = *Hildenbrandia rosea* Kützing
- CORALLINALES  
 CORALLINACEAE
- Amphiroa** J.V. Lamouroux  
*Amphiroa van-bosseae* M. Lemoine (Lu, Co, Po)<sup>67</sup>  
 = *Amphiroa subcilindrica* E.Y. Dawson



Table 1 (continuation)

**Boreolithon** A.S. Harvey & Woelkerling  
*Boreolithon van-heurckii* (Heydrich) A.S. Harvey & Woelkerling (Po)<sup>36</sup>  
 = *Melobesia van-heurckii* (Heydrich in Chalon) De Toni

**Choreonema** F. Schmitz  
*Choreonema thuretii* (Bornet) F. Schmitz (Lu, Co, Po)  
 = *Melobesia thuretii* Bornet

**Corallina** Linnaeus<sup>68</sup>  
*Corallina elongata* J. Ellis & Solander (Lu, Co, Po)  
 = *Corallina mediterranea* J.E. Areschoug  
*Corallina officinalis* Linnaeus (Lu, Co, Po)

**Halitilon** (Decaisne) Lindley  
*Halitilon squamatum* (Linnaeus) H.W. Johansen, L.M. Irvine & A. Webster (Lu, Co, Po)  
 = *Corallina squamata* Linnaeus  
*Halitilon virgatum* (Zanardini) Garbary & H.W. Johansen (Co, Po)<sup>69</sup>  
 = *Corallina granifera* J. Ellis & Solander

**Hydrolithon** (Foslie) Foslie  
*Hydrolithon farinosum* (J.V. Lamouroux) D. Penrose & Y.M. Chamberlain (Lu, Co, Po)  
 = *Fosliella farinosa* (J.V. Lamouroux) M.A. Howe  
 = *Melobesia farinosa* J.V. Lamouroux

**Jania** J.V. Lamouroux  
*Jania longifurca* Zanardini (Lu, Co, Po)  
*Jania rubens* (Linnaeus) J.V. Lamouroux (Lu, Co, Po)<sup>70</sup>  
 = *Jania corniculata* (Linnaeus) J.V. Lamouroux

**Leptophytum** Adey  
*Leptophytum bisporum* (Foslie) Adey (Co, Po)<sup>69</sup>  
 = *Phymatolithon bisporum* (Foslie) Afonso-Carrillo

**Lithophyllum** Philippi  
*Lithophyllum byssoides* (Lamarck) Foslie (Lu, Co, Po)  
 = *Lithophyllum lichenoides* Philippi, nom. illeg.  
 = *Lithophyllum tortuosum* Foslie  
 = *Tenarea tortuosa sensu auct. plur.*  
*Lithophyllum incrustans* Philippi (Lu, Co, Po)  
*Lithophyllum orbiculatum* (Foslie) Foslie (Po)<sup>71</sup>

**Lithothamnion** Heydrich  
*Lithothamnion corallioides* (P.L. Crouan & H.M. Crouan) P.L. Crouan & H.M. Crouan (Co, Po)<sup>72</sup>

**Melobesia** J.V. Lamouroux  
*Melobesia membranacea* (Esper) J.V. Lamouroux (Lu, Co, Po)  
 = *Lithothamnion membranaceum* (Esper) Foslie

**Mesophyllum** M. Lemoine<sup>73</sup>  
*Mesophyllum expansum* (Philippi) Cabioch & Mendoza (Co, Po)<sup>74</sup>  
 = *Lithophyllum expansum* Philippi  
 = *Lithophyllum stictaeforme* (J.E. Areschoug) Hauck  
 = *Lithophyllum frondosum* (L. Dufour) Furnari, Cormaci & Alongi  
 = *Lithophyllum grandiusculum* (Montagne) Woelkerling, D. Penrose & Y.M. Chamberlain  
*Mesophyllum lichenoides* (J. Ellis) M. Lemoine (Lu, Co, Po)

**Phymatholithon** Foslie  
*Phymatholithon calcareum* (Pallas) Adey & D.L. McKibbin (Co, Po)<sup>72</sup>  
 = *Lithothamnion polymorphum* (Linnaeus) J.E. Areschoug  
*Phymatolithon lenormandii* (J.E. Areschoug) Adey (Co, Po)  
 = *Lithothamnion lenormandii* (J.E. Areschoug) Foslie  
*Phymatolithon purpureum* (P.L. Crouan & H.M. Crouan) Woelkerling & L.M. Irvine (Lu, Po)

**Pneophyllum** Kützing  
*Pneophyllum fragile* Kützing (Co, Po)  
 = *Fosliella lejolisii* (Rosanoff) M.A. Howe  
 = *Melobesia lejolisii* Rosanoff  
 = *Pneophyllum lejolisii* (Rosanoff) Y.M. Chamberlain

**Titanoderma** Nägeli<sup>75</sup>  
*Titanoderma corallinae* (P.L. Crouan & H.M. Crouan) Woelkerling, Y.M. Chamberlain & P.C. Silva (Lu, Co, Po)  
 = *Dermatolithon corallinae* (P.L. Crouan & H.M. Crouan) Foslie  
 = *Melobesia corallinae* P.L. Crouan & H.M. Crouan  
*Titanoderma laminariae* (P.L. Crouan & H.M. Crouan) Y.M. Chamberlain (Co)<sup>76</sup>  
 = *Melobesia laminariae* P.L. Crouan & H.M. Crouan  
 = *Dermatolithon laminariae* (P.L. Crouan & H.M. Crouan) Foslie  
*Titanoderma pustulatum* (J.V. Lamouroux) Nägeli (Lu, Co, Po)  
 = *Dermatolithon pustulatum* (J.V. Lamouroux) Foslie  
 = *Dermatolithon litorale* (Suneson) G. Hamel & Lemoine

GIGARTINALES  
 ARESCHOUGIACEAE

**Solieria** J. Agardh  
*Solieria chordalis* (C. Agardh) J. Agardh (Co)<sup>19</sup>  
 = *Gigartina gaditana* Montagne

CAULACANTHACEAE

**Catenella** Greville  
*Catenella caespitosa* (Withering) L.M. Irvine (Lu, Co, Po)  
 = *Catenella repens* (Lightfoot) Batters  
 = *Catenella opuntia* (Goodenough & Woodward) Greville, nom. illeg.

**Caulacanthus** Kützing  
*Caulacanthus ustulatus* (Turner) Kützing (Lu, Co, Po)

CHOREOCOLACACEAE

**Choreocolax** Reinsh  
*Choreocolax polysiphoniae* Reinsch (Lu, Co, Po)<sup>77</sup>

**Harveyella** F. Schmitz & Reinke  
*Harveyella mirabilis* (Reinsch) F. Schmitz & Reinke (Lu)<sup>78</sup>

CRUORACEAE

**Cruoria** Fries  
*Cruoria cruoriaeformis* (P.L. Crouan & H.M. Crouan) Denizot (Co, Po)  
*Cruoria pellita* (Lyngbye) Fries (Lu, Co, Po)

CYSTOCLONACEAE

**Calliblepharis** Kützing  
*Calliblepharis ciliata* (Hudson) Kützing (Lu, Co, Po)  
*Calliblepharis jubata* (Goodenough & Woodward) Kützing (Lu, Co, Po)  
 = *Calliblepharis lanceolata* Batters, p.p.

**Rhodophyllis** Kützing  
*Rhodophyllis divaricata* (Stackhouse) Papenfuss (Lu, Co, Po)  
 = *Rhodophyllis bifida* Kützing  
 = *Rhodophyllis appendiculata* J. Agardh

FURCELLARIACEAE

**Furcellaria** J.V. Lamouroux  
*Furcellaria lumbricalis* (Hudson) J.V. Lamouroux (Lu, Co)  
 = *Furcellaria fastigiata* (Turner) J.V. Lamouroux

**Halarachnion** Kützing  
*Halarachnion ligulatum* (Woodward) Kützing (Lu, Co, Po)  
 “*Cruoria rosea*” (P.L. Crouan & H.M. Crouan) P.L. Crouan & H.M. Crouan [stage] (Po)<sup>79</sup>

Table 1 (continuation)

**Neurocaulon** Zanardini*Neurocaulon foliosum* (Meneghini) Zanardini (Lu, Co)<sup>80</sup>= *Neurocaulon grandifolium* Rodríguez

## GIGARTINACEAE

**Chondracanthus** Kützing*Chondracanthus acicularis* (Roth) Fredericq (Lu, Co, Po)= *Gigartina acicularis* (Roth) J.V. Lamouroux*Chondracanthus teedei* (Mertens ex Roth) Kützing (Lu, Co, Po)<sup>81</sup>= *Gigartina teedei* (Mertens ex Roth) J.V. Lamouroux**Chondrus** Stackhouse*Chondrus crispus* Stackhouse (Lu, Co, Po)<sup>82</sup>**Gigartina** Stackhouse*Gigartina pistillata* (S.G. Gmelin) Stackhouse (Lu, Co, Po)

## HYPNEACEAE

**Hypnea** J.V. Lamouroux*Hypnea musciformis* (Wulfen) J.V. Lamouroux (Lu, Co, Po)

## NEMASTOMATACEAE

**Itonoa** Masuda & Guiry*Itonoa marginifera* (J. Agardh) Masuda & Guiry (Co, Po)= *Platoma marginifera* (J. Agardh) Batters

## PETROCELIDACEAE

**Mastocarpus** Kützing*Mastocarpus stellatus* (Stackhouse) Guiry (Lu, Co, Po)= *Gigartina stellata* (Stackhouse in Withering) Batters= *Gigartina mamillosa* (Goodenough & Woodward) J. Agardh

"Petrocelis cruenta" J. Agardh [stage] (Lu, Co, Po)

## PHYLLOPHORACEAE

**Ahnfeltiopsis** P.C. Silva & DeCew*Ahnfeltiopsis devoniensis* (Greville) P.C. Silva & DeCew (Lu, Co, Po)= *Gymnogongrus devoniensis* (Greville) Schotter*Ahnfeltiopsis pusilla* (Montagne) P.C. Silva & DeCew (Lu, Co)<sup>25</sup>**Gymnogongrus** Martius*Gymnogongrus crenulatus* (Turner) J. Agardh (Lu, Co, Po)= *Gymnogongrus norvegicus* J. Agardh, p.p., non *Fucus norvegicus* Gunnerus= *Actinococcus peltaeformis* F. Schmitz*Gymnogongrus griffithsiae* (Turner) Martius (Lu, Co, Po)= *Actinococcus aggregatus* F. Schmitz**Phyllophora** Greville*Phyllophora crispa* (Hudson) P.S. Dixon (Lu, Co, Po)= *Phyllophora rubens* (Goodenough & Woodward) Greville= *Phyllophora epiphylla* (O.F. Müller) Batters*Phyllophora sicula* (Kützing) Guiry & L.M. Irvine (Co, Po)<sup>83</sup>= *Phyllophora palmettoïdes* J. Agardh**Schottera** Guiry & Hollenberg*Schottera nicaeensis* (J.V. Lamouroux ex Duby) Guiry & Hollenberg (Lu, Co, Po)= *Petroglossum nicaeense* (J.V. Lamouroux ex Duby) Schotter**Stenogramme** Harvey*Stenogramme interrupta* (C. Agardh) Montagne ex Harvey (Co, Po)

## SPHAEROCOCCACEAE

**Sphaerococcus** Stackhouse*Sphaerococcus coronopifolius* Stackhouse (Lu, Co, Po)"Haematocelis fissurata" P.L. Crouan & H.M. Crouan [stage] (Lu, Po)<sup>84</sup>= *Ethelia fissurata* (P.L. Crouan & H.M. Crouan) Denizot [stage]

## SCHIZYMIENIACEAE

**Schizymenia** J. Agardh*Schizymenia dubyi* (Chauvin ex Duby) J. Agardh (Lu, Co, Po)

"Haematocelis rubens" J. Agardh [stage] (Lu, Co, Po)

## PLOCAMIALES

## PLOCAMIACEAE

**Plocamium** J.V. Lamouroux*Plocamium cartilagineum* (Linnaeus) P.S. Dixon (Lu, Co, Po)= *Plocamium coccineum* (Hudson) Lyngbye= *Plocamium vulgare* J.V. Lamouroux*Plocamium raphelisiaenum* P.J.L. Dangeard (Co, Po)<sup>85</sup>

## RHODYMENIALES

## CHAMPIACEAE

**Champia** Desvaux*Champia parvula* (C. Agardh) Harvey (Lu, Co, Po)= *Champia intricata* (Clemente) Cremades**Chylocladia** Greville*Chylocladia verticillata* (Lightfoot) Bliding (Lu, Co, Po)= *Chylocladia kaliformis* (Goodenough & Woodward) Greville in W.J. Hooker= *Chylocladia squarrosa* (Kützing) Le Jolis**Gastroclonium** Kützing*Gastroclonium ovatum* (Hudson) Papenfuss (Lu, Co, Po)= *Chylocladia ovata* (Hudson) Batters*Gastroclonium reflexum* (Chauvin) Kützing (Lu, Co, Po)= *Chylocladia reflexa* (Chauvin) Zanardini

## FAUCHEACEAE

**Fauchea** Montagne & Bory de Saint-Vincent*Fauchea repens* (C. Agardh) Montagne & Bory de Saint-Vincent (Co)<sup>86</sup>

## LOMENTARIACEAE

**Lomentaria** Lyngbye*Lomentaria articulata* (Hudson) Lyngbye (Lu, Co, Po)*Lomentaria clavellosa* (Turner) Gaillon (Lu, Co, Po)= *Chylocladia clavellosa* (Turner) Areschoug*Lomentaria hakodatensis* Yendo (Co, Po)<sup>83</sup>*Lomentaria orcadensis* (Harvey) F.S. Collins ex W.R. Taylor (Co, Po)<sup>87</sup>= *Lomentaria rosea* (Harvey) Thuret ex Farlow

## RHODYMENIACEAE

**Cordylecladia** J. Agardh*Cordylecladia erecta* (Greville) J. Agardh (Lu, Co, Po)<sup>88</sup>**Rhodymenia** Greville*Rhodymenia holmesii* Ardissonne (Lu, Co, Po)*Rhodymenia pseudopalmata* (J.V. Lamouroux) P.C. Silva (Lu, Co, Po)= *Rhodymenia palmetta* (J.V. Lamouroux) Greville

## CERAMIALES

## CERAMIACEAE

**Aglaothamnion** Feldmann-Mazoyer*Aglaothamnion bipinnatum* (P.L. Crouan & H.M. Crouan) J. Feldmann & Feldmann-Mazoyer (Co, Po)*Aglaothamnion diaphanum* L'Hardy-Halos & Maggs (Co, Po)<sup>89</sup>*Aglaothamnion gallicum* (Nägeli) L'Hardy-Halos ex Ardré (Lu, Co, Po)= *Aglaothamnion brodiaei* auct.= *Callithamnion brodiaei* auct.

Table 1 (continuation)

<i>Aglaothamnion hookeri</i> (Dillwyn) Maggs & Hommersand (Lu, Co, Po)	<i>Ceramium gaditanum</i> (Clemente) Cremades (Lu, Co, Po)
= <i>Callithamnion hookeri</i> (Dillwyn) S.F. Gray	= <i>Ceramium flabelligerum</i> J. Agardh
= <i>Callithamnion polyspermum</i> C. Agardh	<i>Ceramium pallidum</i> (Nägeli ex Kützing) Maggs & Hommersand (Lu, Co, Po)
= <i>Aglaothamnion scopulorum</i> C. Agardh	= <i>Ceramium fruticosum</i> (Kützing) J. Agardh
<i>Aglaothamnion pseudobyssooides</i> (P.L. Crouan & H.M. Crouan) L'Hardy-Halos (Lu, Co)	<i>Ceramium secundatum</i> Lyngbye (Lu, Co, Po)
<i>Aglaothamnion roseum</i> (Roth) Maggs & L'Hardy-Halos (Co, Po)	<i>Ceramium shuttleworthianum</i> (Kützing) Rabenhorst (Lu, Co, Po)
<i>Aglaothamnion sepositum</i> (Gunnerus) Maggs & Hommersand (Co, Po)	= <i>Ceramium acanthonothum</i> (Carmichael ex Harvey) J. Agardh
= <i>Callithamnion sepositum</i> (Gunnerus) P.S. Dixon & J.H. Price	<i>Ceramium tenuicorne</i> (Kützing) Waern (Lu, Co, Po)
= <i>Callithamnion arbuscula</i> (Dillwyn) Lyngbye	= <i>Ceramium strictum sensu</i> Harvey
<i>Aglaothamnion tenuissimum</i> (Bonnemaison) Feldmann-Mazoyer (Lu, Co, Po)	<i>Ceramium virgatum</i> Roth (Lu, Co, Po)
= <i>Aglaothamnion furcellariae</i> (J. Agardh) Feldmann-Mazoyer	= <i>Ceramium nodulosum</i> (Lightfoot) Ducluzeau
= <i>Callithamnion byssooides</i> Arnott ex Harvey	= <i>Ceramium rubrum</i> C. Agardh, auct.
= <i>Aglaothamnion byssooides</i> (Arnott ex Harvey) L'Hardy-Halos & Ruess	<b>Compsothamnion</b> (Nägeli) F. Schmitz
<i>Aglaothamnion tripinnatum</i> (C. Agardh) Feldmann-Mazoyer (Lu, Co, Po) <sup>90</sup>	<i>Compsothamnion gracillimum</i> De Toni (Po) <sup>100</sup>
<b>Anotrichium</b> Nägeli	<i>Compsothamnion thuyoides</i> (J.E. Smith) Nägeli (Lu, Co, Po)
<i>Anotrichium barbatum</i> (C. Agardh) Nägeli (Po) <sup>91</sup>	<b>Crouania</b> J. Agardh
= <i>Griffithsia barbata</i> C. Agardh	<i>Crouania attenuata</i> (C. Agardh) J. Agardh (Lu, Co, Po)
<i>Anotrichium furcellatum</i> (J. Agardh) Baldock (Lu, Co, Po) <sup>92</sup>	<b>Griffithsia</b> C. Agardh
= <i>Neomonospora furcellata</i> (J. Agardh) Feldmann-Mazoyer & Meslin	<i>Griffithsia opuntiooides</i> J. Agardh (Co) <sup>43</sup>
<b>Antithamnion</b> Nägeli	<i>Griffithsia schousboei</i> Montagne (Co, Po)
<i>Antithamnion cruciatum</i> (C. Agardh) Nägeli (Lu, Co, Po)	<b>Gymnothamnion</b> J. Agardh
<i>Antithamnion densum</i> (Suhr) M.A. Howe (Co, Po)	<i>Gymnothamnion elegans</i> (Schousboe ex C. Agardh) J. Agardh (Lu, Co, Po) <sup>101</sup>
= <i>Antithamnion defectum</i> Kylin	= <i>Plumaria schousboei</i> (Bornet) F. Schmitz
<i>Antithamnion villosum</i> (Kützing) Athanasiadis (Lu, Po) <sup>93</sup>	<b>Halurus</b> Kützing
<b>Antithamnionella</b> Lyle	<i>Halurus equisetifolius</i> (Lightfoot) Kützing (Lu, Co, Po)
<i>Antithamnionella elegans</i> (Berthold) J.H. Price & D.M. John (Co) <sup>94</sup>	= <i>Griffithsia equisetifolia</i> C. Agardh
<i>Antithamnionella spirographidis</i> (Schiffner) E.M. Wollaston (Co, Po)	<i>Halurus flosculosus</i> (J. Ellis) Maggs & Hommersand (Lu, Co, Po)
<i>Antithamnionella ternifolia</i> (J.D. Hooker & Harvey) Lyle (Lu, Co, Po)	= <i>Griffithsia flosculosa</i> (J. Ellis) Batters
= <i>Antithamnionella sarniensis</i> Lyle	= <i>Griffithsia setacea</i> (Hudson) C. Agardh
<b>Bornetia</b> Thuret	<b>Microcladia</b> Greville
<i>Bornetia secundiflora</i> (J. Agardh) Thuret (Lu, Co, Po)	<i>Microcladia glandulosa</i> (Solander ex Turner) Greville (Lu, Co, Po)
<b>Callithamniella</b> Feldmann-Mazoyer	<b>Monosporus</b> Solier
<i>Callithamniella tingitana</i> (Schousboe ex Bornet) Feldmann-Mazoyer (Lu, Co) <sup>95</sup>	<i>Monosporus pedicellatus</i> (J.E. Smith) Solier (Lu, Co, Po)
<b>Callithamnion</b> Lyngbye	= <i>Corynospora pedicellata</i> (J.E. Smith) J. Agardh
<i>Callithamnion corymbosum</i> (J.E. Smith) Lyngbye (Co, Po)	= <i>Monospora pedicellata</i> (J.E. Smith) J. Agardh
<i>Callithamnion granulatum</i> (Ducluzeau) C. Agardh (Lu, Co, Po)	= <i>Neomonospora pedicellata</i> (J.E. Smith) Feldmann-Mazoyer & Meslin
= <i>Callithamnion spongiosum</i> Harvey	<b>Pleonosporium</b> Nägeli nom. cons.
<i>Callithamnion tetragonum</i> (Withering) S.F. Gray (Lu, Co, Po)	<i>Pleonosporium borneri</i> (J.E. Smith) Nägeli (Lu, Co, Po)
<i>Callithamnion tetricum</i> (Dillwyn) S.F. Gray (Lu, Co, Po)	= <i>Callithamnion seminudum</i> C. Agardh
<b>Ceramium</b> Roth	= <i>Callithamnion borneri</i> (J.E. Smith) C. Agardh
<i>Ceramium botryocarpum</i> A.W. Griffiths ex Harvey (Lu, Co, Po)	<i>Pleonosporium flexuosum</i> (C. Agardh) Bornet (Lu, Co, Po)
<i>Ceramium callipterum</i> Feldmann-Mazoyer (Co, Po) <sup>96</sup>	<b>Plumaria</b> F. Schmitz
<i>Ceramium ciliatum</i> (J. Ellis) Ducluzeau (Lu, Co, Po)	<i>Plumaria plumosa</i> (Hudson) O. Kuntze (Lu, Co, Po)
<i>Ceramium cimbricum</i> H.E. Petersen (Co) <sup>97</sup>	= <i>Plumaria elegans</i> (Bonnemaison) F. Schmitz
<i>Ceramium circinatum</i> (Kützing) J. Agardh (Po) <sup>98</sup>	<b>Pterothamnion</b> Nägeli
<i>Ceramium codii</i> (H. Richards) Feldmann-Mazoyer (Po) <sup>69</sup>	<i>Pterothamnion crispum</i> (Ducluzeau) Nägeli (Lu, Co, Po)
<i>Ceramium diaphanum</i> (Lightfoot) Roth (Lu, Co, Po)	= <i>Platythamnion crispum</i> (Ducluzeau) J. Feldmann
<i>Ceramium echionotum</i> J. Agardh (Lu, Co, Po) <sup>99</sup>	= <i>Antithamnion plumula</i> var. <i>crispum</i> (Ducluzeau) Hauck
<i>Ceramium flaccidum</i> (Harvey ex Kützing) Ardissonne (Lu, Co, Po)	<i>Pterothamnion plumula</i> (J. Ellis) Nägeli (Lu, Co, Po)
	<b>Ptilothamnion</b> Thuret
	<i>Ptilothamnion pluma</i> (Dillwyn) Thuret (Lu, Co, Po)
	= <i>Callithamnion pluma</i> (Dillwyn) C. Agardh
	<i>Ptilothamnion sphaericum</i> (P.L. Crouan & H.M. Crouan ex J. Agardh) Maggs & Hommersand (Lu, Co, Po) <sup>102</sup>
	<b>Seirospora</b> Harvey
	<i>Seirospora interrupta</i> (J.E. Smith) F. Schmitz (Co, Po) <sup>103</sup>

Table 1 (continuation)

- = *Seiospora hormocarpa* (Holmes) Batters  
 = *Seiospora griffithsiana* Harvey  
 = *Seiospora seiosperma* (Harvey) P.S. Dixon
- Spermothamnion** J.E. Areschoug  
*Spermothamnion repens* (Dillwyn) Rosenvinge (Lu, Co, Po)<sup>104</sup>  
*Spermothamnion strictum* (C. Agardh) Ardissonne (Po)<sup>18</sup>
- Sphondylothamnion** Nägeli  
*Sphondylothamnion multifidum* (Hudson) Nägeli (Lu, Co, Po)  
 = *Wrangelia multifida* J. Agardh
- Spyridia** Harvey  
*Spyridia griffithsiana* (J.E. Smith) Zuccarello, Prud'homme van Reine & Stegenga (Po)<sup>105</sup>
- Tiffaniella** Doty & Meñez  
*Tiffaniella capitata* (Schousboe ex Bornet) Doty & Meñez (Lu, Co, Po)<sup>106</sup>  
 = *Spermothamnion capitatum* Bornet ex Bornet
- DASYACEAE
- Dasya** C. Agardh  
*Dasya corymbifera* J. Agardh (Co, Po)<sup>69</sup>  
*Dasya hutchinsiae* Harvey (Lu, Co, Po)  
 = *Dasya arbuscula sensu* Harvey  
*Dasya ocellata* (Grateloup) Harvey (Co, Po)  
 = *Dasya simpliciuscula* C. Agardh  
*Dasya punicea* (Zanardini) Meneghini ex Zanardini (Co, Po)<sup>107</sup>  
*Dasya rigidula* (Kützing) Ardissonne (Po)<sup>18</sup>
- Heterosiphonia** Montagne  
*Heterosiphonia japonica* Yendo (Lu, Co, Po)<sup>108</sup>  
*Heterosiphonia plumosa* (J. Ellis) Batters (Lu, Co, Po)  
 = *Heterosiphonia coccinea* (Hudson) Falkenberg  
 = *Dasya coccinea* (Hudson) Areschoug
- DELESSERIACEAE
- Acrosorium** Zanardini ex Kützing  
*Acrosorium ciliolatum* (Harvey) Kylin (Lu, Co, Po)  
 = *Acrosorium venulosum* (Zanardini) Kylin  
 = *Acrosorium uncinatum* (Turner) Kylin  
 = *Nitophyllum uncinatum* J. Agardh
- Apoglossocolax** Maggs & Hommersand  
*Apoglossocolax pusilla* Maggs & Hommersand (Po)<sup>109</sup>
- Apoglossum** J. Agardh  
*Apoglossum ruscifolium* (Turner) J. Agardh (Lu, Co, Po)  
 = *Delesseria ruscifolia* (Turner) J.V. Lamouroux
- Cryptopleura** Kützing  
*Cryptopleura ramosa* (Hudson) Kylin ex L. Newton (Lu, Co, Po)  
 = *Cryptopleura lacerata* (S.G. Gmelin) Kützing  
 = *Acrosorium reptans* (Crouan) Kylin
- Delesseria** J.V. Lamouroux  
*Delesseria sanguinea* (Hudson) J.V. Lamouroux (Lu, Co, Po)
- Drachiella** J. Ernst & J. Feldmann  
*Drachiella minuta* (Kylin) Maggs & Hommersand (Lu, Co, Po)  
 = *Myriogramme minuta* Kylin  
*Drachiella spectabilis* J. Ernst & J. Feldmann (Lu, Co, Po)
- Erythroglossum** J. Agardh  
*Erythroglossum laciniatum* (Lightfoot) Maggs & Hommersand (Lu, Co, Po)  
 = *Polyneura laciniata* (Lightfoot) P.S. Dixon  
 = *Polyneura gmelinii* (J.V. Lamouroux) Kylin  
 = *Nitophyllum gmelinii* Greville  
*Erythroglossum lusitanicum* Ardré (Co, Po)<sup>110</sup>
- Gonimophyllum** Batters  
*Gonimophyllum buffhamii* Batters (Co, Po)
- Haraldia** J. Feldmann  
*Haraldia lenormandii* (Derbès & Solier) J. Feldmann (Lu, Co, Po)<sup>111</sup>
- Haraldiophyllum** A.D. Zinova  
*Haraldiophyllum bonnemaisionii* (Kylin) A.D. Zinova (Lu, Co, Po)  
 = *Nitophyllum bonnemaisionii* (Kylin) Kylin
- Hypoglossum** Kützing  
*Hypoglossum hypoglossoides* (Stackhouse) F.S. Collins & Hervey (Lu, Co, Po)  
 = *Hypoglossum woodwardii* Kützing  
 = *Delesseria hypoglossum* (Woodward) J.V. Lamouroux
- Nitophyllum** Greville  
*Nitophyllum punctatum* (Stackhouse) Greville (Lu, Co, Po)
- Polyneura** Kylin  
*Polyneura bonnemaisionii* (C. Agardh) Maggs & Hommersand (Lu, Co, Po)  
 = *Polyneura hilliae* (Greville) Kylin  
 = *Nitophyllum hilliae* (Greville) Greville
- Radicilingua** Papenfuss  
*Radicilingua thysanorhizans* (Holmes) Papenfuss (Co, Po)<sup>112</sup>  
 = *Rhizoglossum thysanorhizans* (Holmes) Kylin
- RHODOMELACEAE
- Aphanocladia** Falkenberg  
*Aphanocladia stichidiosa* (Funk) Ardré (Lu, Co)<sup>113</sup>
- Boergesenella** Kylin  
*Boergesenella fruticulosa* (Wulfen) Kylin (Lu, Co, Po)  
 = *Pterosiphonia fruticulosa* (Wulfen) L. Batten  
 = *Boergesenella martensiana* (Kützing) Ardré  
*Boergesenella thuyoides* (Harvey) Kylin (Lu, Co, Po)  
 = *Pterosiphonia thuyoides* (Harvey) F. Schmitz
- Bostrychia** Montagne  
*Bostrychia scorpioides* (Hudson) Montagne (Lu, Co, Po)
- Brongniartella** Bory de Saint-Vincent  
*Brongniartella byssoides* (Goodenough & Woodward) F. Schmitz (Lu, Co, Po)
- Chondria** C. Agardh  
*Chondria capillaris* (Hudson) M.J. Wynne (Co, Po)  
 = *Chondria tenuissima* (Withering) C. Agardh  
*Chondria coerulescens* (J. Agardh) Falkenberg (Lu, Co, Po)  
*Chondria dasyphylla* (Woodward) C. Agardh (Lu, Co, Po)  
*Chondria scintillans* Feldmann-Mazoyer (Lu, Co, Po)
- Ctenosiphonia** Falkenberg  
*Ctenosiphonia hypnoides* (Welwitsch ex J. Agardh) Falkenberg (Lu, Co, Po)
- Herposiphonia** Nägeli  
*Herposiphonia secunda* (C. Agardh) Ambronn (Co)<sup>114</sup>  
*Herposiphonia tenella* (C. Agardh) Ambronn (Lu, Co, Po)  
 = *Herposiphonia secunda* f. *tenella* (C. Agardh) M.J. Wynne
- Laurencia** J.V. Lamouroux  
*Laurencia minuta* Vandermeulen, Garbary & Guiry (Lu)<sup>115</sup>  
*Laurencia obtusa* (Hudson) J.V. Lamouroux (Lu, Co, Po)  
*Laurencia pyramidalis* Bory de Saint-Vincent ex Kützing (Lu, Co, Po)  
 = *Laurencia obtusa* var. *pyramidata* Bory de Saint-Vincent ex J. Agardh
- Leptosiphonia** Kylin  
*Leptosiphonia schousboei* (Thuret) Kylin (Lu, Co, Po)

Table 1 (continuation)

<b>Lophosiphonia</b> Falkenberg <i>Lophosiphonia obscura</i> (C. Agardh) Falkenberg (Lu, Co, Po) <i>Lophosiphonia reptabunda</i> (Suhr) Kylin (Lu, Co, Po)	INCERTAE SEDIS <b>Aiolocolax</b> Pocock <i>Aiolocolax pulchellus</i> Pocock (Lu, Co, Po) <sup>120</sup>
<b>Neosiphonia</b> M.S. Kim & I.K. Lee <i>Neosiphonia harveyi</i> (J. Bailey) M.S. Kim, H.G. Choi, Guiry & G.W. Saunders (Lu, Co, Po) = <i>Polysiphonia harveyi</i> J. Bailey = <i>Polysiphonia insidiosa</i> (J. Agardh) P.L. Crouan & H.M. Crouan, nom. illeg.	OCHROPHYTA XANTHOPHYCEAE VAUCHERIALES VAUCHERIAEAE
<b>Ophidocladus</b> Falkenberg <i>Ophidocladus simpliciusculus</i> (P.L. Crouan & H.M. Crouan) Falkenberg (Lu, Co, Po)	<b>Vaucheria</b> A.P. De Candolle <i>Vaucheria arcassonensis</i> P.J.L. Dangeard (Co) <sup>1</sup> <i>Vaucheria coronata</i> Nordstedt (Lu, Co, Po) <sup>121</sup> <i>Vaucheria dichotoma</i> (Linnaeus) Martius (Co) <sup>1</sup> = <i>Vaucheria pyrifera</i> Kützing <i>Vaucheria erythrospora</i> T.A. Christensen (Lu, Co) <sup>122</sup> <i>Vaucheria intermedia</i> Nordstedt (Lu, Co) <sup>123</sup> <i>Vaucheria subsimplex</i> P.L. Crouan & H.M. Crouan (Co) <sup>8</sup> = <i>Vaucheria sphaerospora</i> Nordstedt <i>Vaucheria synandra</i> Woronin (Lu, Co) <sup>124</sup> <i>Vaucheria velutina</i> C. Agardh (Lu, Co) <sup>125</sup> = <i>Vaucheria thuretii</i> Woronin
<b>Osmundea</b> Stackhouse <i>Osmundea hybrida</i> (A.P. De Candolle) K.W. Nam (Lu, Co, Po) = <i>Laurencia hybrida</i> (A.P. De Candolle) T. Lestiboudois = <i>Laurencia caespitosa</i> J.V. Lamouroux <i>Osmundea osmunda</i> (S.G. Gmelin) K.W. Nam & Maggs (Lu, Co, Po) = <i>Laurencia osmunda</i> (S.G. Gmelin) Maggs & Hommersand = <i>Laurencia pinnatifida</i> var. <i>osmunda</i> (Turner) Kützing <i>Osmundea pinnatifida</i> (Hudson) Stackhouse (Lu, Co, Po) = <i>Laurencia pinnatifida</i> (Hudson) J.V. Lamouroux <i>Osmundea truncata</i> (Kützing) K.W. Nam & Maggs (Co) <sup>116</sup>	PHAEOPHYCEAE SPHACELARIALES CLADOSTEPHACEAE
<b>Polysiphonia</b> Greville <i>Polysiphonia atlantica</i> Kapraun & J.N. Norris (Lu, Co, Po) = <i>Polysiphonia macrocarpa</i> Harvey <i>Polysiphonia brodiei</i> (Dillwyn) Sprengel (Lu, Co, Po) <i>Polysiphonia denudata</i> (Dillwyn) Greville ex Harvey (Lu, Co, Po) <i>Polysiphonia elongata</i> (Hudson) Sprengel (Lu, Co, Po) <i>Polysiphonia ferulacea</i> Suhr ex J. Agardh (Lu, Co, Po) <i>Polysiphonia fibrillosa</i> (Dillwyn) Sprengel (Lu, Co, Po) <i>Polysiphonia fucooides</i> (Hudson) Greville (Lu, Co, Po) = <i>Polysiphonia nigrescens</i> (Hudson) Greville ex Harvey <i>Polysiphonia furcellata</i> (C. Agardh) Harvey (Po) <sup>20</sup> <i>Polysiphonia lanosa</i> (Linnaeus) Tandy (Lu, Co, Po) = <i>Polysiphonia fastigiata</i> (Roth-) Greville = <i>Vertebrata lanosa</i> (Linnaeus) Gayral <i>Polysiphonia nigra</i> (Hudson) Batters (Lu, Co, Po) = <i>Polysiphonia atrorubescens</i> (Dillwyn) Greville <i>Polysiphonia opaca</i> (C. Agardh) Moris & De Notaris (Lu, Co, Po) <i>Polysiphonia polyspora</i> (C. Agardh) Montagne (Lu, Co, Po) <i>Polysiphonia scopulorum</i> Harvey (Lu, Co, Po) <sup>117</sup> = <i>Polysiphonia caespitosa</i> (Pocock) Hollenberg = <i>Falkenbergiella caespitosa</i> Pocock <i>Polysiphonia stricta</i> (Dillwyn) Greville (Lu, Co, Po) = <i>Polysiphonia urceolata</i> (Lightfoot ex Dillwyn) Greville <i>Polysiphonia subulata</i> (Ducluzeau) P.L. Crouan & H.M. Crouan (Co) <sup>38</sup>	<b>Cladostephus</b> C. Agardh <i>Cladostephus spongiosum</i> (Hudson) C. Agardh (Lu, Co, Po) = <i>Cladostephus spongiosus</i> f. <i>verticillatus</i> Prud'homme van Reine = <i>Cladostephus verticillatus</i> (Lightfoot) Lyngbye, nom. illeg.
<b>Pterosiphonia</b> Falkenberg <i>Pterosiphonia ardreana</i> Maggs & Hommersand (Lu, Co, Po) = <i>Pterosiphonia spinifera</i> var. <i>robusta</i> Ardré <i>Pterosiphonia complanata</i> (Clemente) Falkenberg (Lu, Co, Po) <i>Pterosiphonia parasitica</i> (Hudson) Falkenberg (Lu, Co, Po) <i>Pterosiphonia pennata</i> (C. Agardh) Sauvageau (Lu, Co, Po) <sup>118</sup>	SPHACELARIAEAE
<b>Rhodomela</b> C. Agardh <i>Rhodomela confervoides</i> (Hudson) P.C. Silva (Lu, Co) <sup>168</sup> = <i>Rhodomela subfusca</i> (Woodward) C. Agardh	<b>Sphacelaria</b> Lyngbye <i>Sphacelaria cirrosa</i> (Roth) C. Agardh (Lu, Co, Po) = <i>Sphacelaria bipinnata</i> (Kützing) Sauvageau = <i>Sphacelaria hystrix</i> Suhr ex Reinke <i>Sphacelaria fusca</i> (Hudson) S.F. Gray (Co, Po) <sup>126</sup> <i>Sphacelaria nana</i> Nägeli ex Kützing (Co, Po) <sup>66</sup> = <i>Sphacelaria britannica</i> Sauvageau = <i>Sphacelaria olivacea</i> Pringsheim <i>Sphacelaria plumula</i> Zanardini (Lu, Co, Po) <i>Sphacelaria radicans</i> (Dillwyn) C. Agardh (Co, Po) <sup>18</sup> <i>Sphacelaria rigidula</i> Kützing (Lu, Co, Po) = <i>Sphacelaria furcigera</i> Kützing <i>Sphacelaria tribuloides</i> Meneghini (Lu) <sup>127</sup>
<b>Streblocladia</b> F. Schmitz <i>Streblocladia collabens</i> (C. Agardh) Falkenberg (Lu, Co, Po) = <i>Polysiphonia collabens</i> (C. Agardh) Kützing = <i>Polysiphonia platyspira</i> Kützing	STYPOCAULACEAE <b>Halopteris</b> Kützing <i>Halopteris filicina</i> (Grateloup) Kützing (Lu, Co, Po) <b>Stypocaulon</b> Kützing <i>Stypocaulon scoparium</i> (Linnaeus) Kützing (Lu, Co, Po) = <i>Halopteris scoparia</i> (Linnaeus) Sauvageau
	DICTYOTALES DICTYOTACEAE
	<b>Dictyopteris</b> J.V. Lamouroux <i>Dictyopteris ambigua</i> (Clemente) Cremades (Co, Po) = <i>Dictyopteris polypodioides</i> sensu J.V. Lamouroux <i>Dictyopteris lucida</i> Ribera Siguán & al. (Co) <sup>128</sup> <i>Dictyopteris polypodioides</i> (A.P. De Candolle) J.V. Lamouroux (Lu, Co, Po) = <i>Dictyopteris membranacea</i> (Stackhouse) Batters

Table 1 (continuation)

- Dictyota** J.V. Lamouroux  
*Dictyota dichotoma* (Hudson) J.V. Lamouroux (Lu, Co, Po)<sup>129</sup>  
*Dictyota fasciola* (Roth) J.V. Lamouroux (Lu)<sup>130</sup>  
 = *Dilophus fasciola* (Roth) M.A. Howe  
*Dictyota spiralis* Montagne (Lu, Co)<sup>131</sup>  
 = *Dilophus spiralis* (Montagne) G. Hamel  
 = *Dictyota ligulata* Kützing
- Padina** Adanson  
*Padina pavonia* (Linnaeus) Thivy (Lu, Co, Po)  
 = *Padina mediterranea* Bory de Saint-Vincent  
 = *Zonaria pavonia* C. Agardh
- Taonia** J. Agardh  
*Taonia atomaria* (Woodward) J. Agardh (Lu, Co, Po)
- ECTOCLADIALES  
 ACINETOSPORACEAE
- Acinetospora** Bornet  
*Acinetospora crinita* (Carmichael) Sauvageau (Co, Po)  
 = *Acinetospora pusilla* (A.W. Griffiths ex Harvey) De Toni
- Feldmannia** G. Hamel  
*Feldmannia irregularis* (Kützing) G. Hamel (Co, Po)  
*Feldmannia lebelii* (J.E. Areschoug ex P.L. Crouan & H.M. Crouan) G. Hamel (Co, Po)  
 = *Feldmannia caespitosa* var. *lebelii* (J. Areschoug ex P.L. Crouan & H.M. Crouan) Knoepffler  
*Feldmannia paradoxa* (Montagne) G. Hamel (Lu, Co, Po)  
 = *Feldmannia globifera* (Kützing) G. Hamel  
*Feldmannia simplex* (P.L. Crouan & H.M. Crouan) G. Hamel (Lu, Co, Po)  
 = *Ectocarpus simplex* P.L. Crouan & H.M. Crouan
- Hincksia** E. Gray  
*Hincksia granulosa* (J.E. Smith) P.C. Silva (Lu, Co, Po)  
 = *Giffordia granulosa* (J.E. Smith) G. Hamel  
*Hincksia hincksiae* (Harvey) P.C. Silva (Lu, Co, Po)  
 = *Giffordia hincksiae* (Harvey) G. Hamel  
*Hincksia mitchelliae* (Harvey) P.C. Silva (Lu, Co, Po)  
 = *Giffordia mitchelliae* (Harvey) G. Hamel  
*Hincksia sandriana* (Zanardini) P.C. Silva (Co, Po)  
 = *Giffordia sandriana* (Zanardini) G. Hamel  
 = *Ectocarpus elegans* Thuret  
*Hincksia secunda* (Kützing) P.C. Silva (Lu, Co, Po)  
 = *Giffordia secunda* (Kützing) Batters
- Pylaiella** Bory de Saint-Vincent  
*Pylaiella littoralis* (Linnaeus) Kjellman (Lu, Co, Po)  
 = *Ectocarpus littoralis* Lyngbye
- CHORDARIACEAE
- Asperococcus** J.V. Lamouroux  
*Asperococcus bullosus* J.V. Lamouroux (Co, Po)  
 = *Asperococcus turneri* (Dillwyn ex J.E. Smith) W.J. Hooker  
*Asperococcus ensiformis* (Delle Chiaje) M.J. Wynne (Lu, Co, Po)  
 = *Asperococcus compressus* A.W. Griffiths ex W.J. Hooker  
*Asperococcus fistulosus* (Hudson) W.J. Hooker (Co, Po)  
 = *Ectocarpus repens* Reinke
- Cladosiphon** Kützing  
*Cladosiphon zosterae* (J. Agardh) Kylin (Co, Po)<sup>132</sup>  
 = *Castagnea zosterae* (J. Agardh) Thuret
- Elachista** Duby  
*Elachista flaccida* (Dillwyn) Fries (Lu, Co, Po)  
*Elachista fucicola* (Vellay) J.E. Areschoug (Lu, Co, Po)
- Elachista intermedia* P.L. Crouan & H.M. Crouan (Co)<sup>133</sup>  
*Elachista scutulata* (J.E. Smith) Duby (Lu, Co, Po)
- Eudesme** J. Agardh  
*Eudesme virescens* (Carmichael ex Berkeley) J. Agardh (Lu, Co, Po)  
 = *Castagnea virescens* (Carmichael ex Berkeley) Thuret
- Hecatonema** J. Agardh  
*Hecatonema terminale* (Kützing) Kylin (Co)<sup>134</sup>  
 = *Hecatonema maculans* F.S. Collins) Sauvageau
- Herponema** J. Agardh  
*Herponema valianthei* (Bornet ex Sauvageau) G. Hamel (Co)<sup>135</sup>  
 = *Ectocarpus valianthei* Bornet ex Sauvageau  
*Herponema velutinum* (Greville) J. Agardh (Lu, Co, Po)  
 = *Ectocarpus velutinum* (Greville) Kützing
- Isthmoplea** Kjellman  
*Isthmoplea sphaerophora* (Carmichael ex Harvey) Gobi (Po)<sup>136</sup>
- Kuckuckia** Kormann  
*Kuckuckia spinosa* (Kützing) Kornmann (Po)<sup>20</sup>  
 = *Kuckuckia kylinii* Cardinal
- Kuetzingiella** Kormann  
*Kuetzingiella holmesii* (Batters) Russell (Po)<sup>20</sup>  
 = *Ectocarpus holmesii* Batters
- Laminariocolax** Kylin  
*Laminariocolax aecidioides* (Rosenvinge) Peters in Burkhard & Peters (Co, Po)<sup>137</sup>  
 = *Gononema aecidioides* (Rosenvinge) P.M. Pedersen  
*Laminariocolax tomentosoides* (Farlow) Kylin (Po)<sup>20</sup>
- Leathesia** S.F. Gray  
*Leathesia difformis* (Linnaeus) J.E. Areschoug (Lu, Co, Po)
- Leblondiella** G. Hamel  
*Leblondiella densa* (Batters) G. Hamel (Po)<sup>69</sup>
- Leptonematella** P.C. Silva  
*Leptonematella fasciculata* (Reinke) P.C. Silva (Po)<sup>138</sup>
- Liebmannia** J. Agardh  
*Liebmannia leveillei* J. Agardh (Co, Po)  
 = *Mesogloia leveillei* (J. Agardh) Meneghini
- Litosiphon** Harvey  
*Litosiphon laminariae* (Lyngbye) Harvey (Lu, Co, Po)  
 = *Litosiphon hibernicus* (T. Johnson) Batters  
 = *Litosiphon pusillus* (Carmichael ex W.J. Hooker) Harvey
- Mesogloia** C. Agardh  
*Mesogloia vermiculata* (J.E. Smith) S.F. Gray (Lu, Po)<sup>139</sup>
- Mikrosyphar** Kuckuck  
*Mikrosyphar polysiphoniae* Kuckuck (Co)<sup>135</sup>
- Myriactula** Kuntze  
*Myriactula areschougii* (P.L. Crouan & H.M. Crouan) G. Hamel (Lu)<sup>41</sup>  
*Myriactula rivulariae* (Suhr) Feldmann (Lu, Co, Po)  
 = *Myriactula pulvinata* (Kützing) Kuntze  
 = *Elachista pulvinata* (Kützing) Harvey
- Myrionema** Greville  
*Myrionema coronnae* Sauvageau (Co, Po)<sup>140</sup>  
*Myrionema magnusii* (Sauvageau) Loiseaux (Co, Po)<sup>141</sup>  
 = *Ascocyclus magnusii* Sauvageau  
*Myrionema strangulans* Carmichael ex Greville (Lu, Co, Po)  
 = *Myrionema vulgare* Thuret
- Myriotrichia** Harvey  
*Myriotrichia clavaeformis* Harvey (Lu, Co, Po)  
 = *Myriotrichia filiformis* Harvey  
 = *Myriotrichia repens* Hauck

Table 1 (continuation)

<b>Petrospongium</b> Nägeli ex Kützing	= <i>Scytosiphon simplicissimus</i> var. <i>complanatus</i> (Rosenvinge) Cremades
<i>Petrospongium berkeleyi</i> (Greville) Nägeli ex Kützing (Co, Po) <sup>142</sup>	<i>Scytosiphon dotyi</i> M.J. Wynne (Lu, Co, Po) <sup>151</sup>
= <i>Cylindrocarpus berkeleyi</i> (Greville) P.L. Crouan & H.M. Crouan	<i>Scytosiphon lomentaria</i> (Lyngnbye) Link (Lu, Co, Po)
	= <i>Scytosiphon simplicissimus</i> (Clemente) Cremades
<b>Phaeostroma</b> Kuckuck	<b>Stragularia</b> Strömfelt
<i>Phaeostroma pustulosum</i> Kuckuck (Po) <sup>98</sup>	<i>Stragularia clavata</i> (Harvey) G. Hamel (Co, Po) <sup>18</sup>
= <i>Streblonema aequale</i> Oltmanns	= <i>Ralfsia clavata</i> (Harvey) P.L. Crouan & H.M. Crouan
<b>Pilocladus</b> Kuckuck ex Kormann	= <i>Ralfsia disciformis</i> P.L. Crouan & H.M. Crouan
<i>Pilocladus codicola</i> (Stechell & N.L. Gardner) Ardré (Lu, Co) <sup>143</sup>	<b>Symphycarpus</b> Rosenvinge
= <i>Streblonema codicola</i> Stechell & N.L. Gardner	<i>Symphycarpus strangulans</i> Rosenvinge (Po) <sup>152</sup>
<b>Protectocarpus</b> Kuckuck ex Kornmann	RALFSIACEAE
<i>Protectocarpus speciosus</i> (Börgeesen) Kornmann (Po) <sup>144</sup>	<b>Pseudolithoderma</b> Svedelius ex Kjelman & Svedelius
= <i>Hecatonema speciosum</i> (Börgeesen) A.D. Cotton	<i>Pseudolithoderma extensum</i> (P.L. Crouan & H.M. Crouan) S. Lund (Po) <sup>18</sup>
<b>Punctaria</b> Greville	= <i>Lithoderma extensum</i> (P.L. Crouan & H.M. Crouan) G. Hamel
<i>Punctaria latifolia</i> Greville (Lu, Co, Po)	<b>Ralfsia</b> Berkeley
<i>Punctaria plantaginea</i> (Roth) Greville (Po) <sup>69</sup>	<i>Ralfsia verrucosa</i> (J.E. Areschoug) J.E. Areschoug (Lu, Co, Po)
<i>Punctaria tenuissima</i> (C. Agardh) Greville (Po) <sup>145</sup>	CUTLERIALES
= <i>Desmotrichum undulatum</i> (J. Agardh) Reinke	CUTLERIACEAE
= <i>Punctaria undulata</i> J. Agardh	<b>Cutleria</b> Greville
= <i>Punctaria baltica</i> (Kützing) Batters	<i>Cutleria adpersa</i> (Mertens ex Roth) De Notaris (Lu, Co, Po)
<b>Sauvageaugloia</b> G. Hamel ex Kylin	<i>Cutleria multifida</i> (Turner) Greville (Lu, Co, Po) <sup>153</sup>
<i>Sauvageaugloia divaricata</i> (Clemente) Cremades (Co) <sup>146</sup>	" <i>Aglaozonia parvula</i> " (Greville) Zanardini [stage] (Lu, Co, Po)
<i>Sauvageaugloia griffithsiana</i> (Greville ex W.J. Hook) G. Hamel ex Kylin (Lu, Po) <sup>147</sup>	= <i>Aglaozonia reptans</i> (P.L. Crouan & H.M. Crouan) Kützing
= <i>Mesogloia griffithsiana</i> A.W. Griffiths ex Harvey	<b>Zanardinia</b> Zanardini
= <i>Sauvageaugloia chodariaeformis</i> (P.L. Crouan & H.M. Crouan) Kylin	<i>Zanardinia typus</i> (Nardo) P.C. Silva (Co, Po) <sup>154</sup>
= <i>Castagnea chordariaeformis</i> Sauvageau	= <i>Zanardinia prototypus</i> (Nardo) Nardo, <i>nom. illeg.</i>
<b>Spongonema</b> Kützing	= <i>Zanardinia collaris</i> (Montagne) P.L. Crouan & H.M. Crouan
<i>Spongonema tomentosum</i> (Hudson) Kützing (Lu, Co, Po)	SPOROCHNALES
= <i>Ectocarpus tomentosus</i> (Hudson) Lyngbye	SPOROCHNACEAE
<b>Stictyosiphon</b> Kützing	<b>Carpomitra</b> Kützing
<i>Stictyosiphon soriferus</i> (Reinke) Rosenvinge (Po) <sup>18</sup>	<i>Carpomitra costata</i> (Stackhouse) Batters (Lu, Co, Po)
<b>Stilophora</b> J. Agardh	<b>Sporochnus</b> C. Agardh
<i>Stilophora tenella</i> (Esper) P.C. Silva (Po) <sup>74</sup>	<i>Sporochnus pedunculatus</i> (Hudson) C. Agardh (Lu, Co) <sup>155</sup>
= <i>Stilophora rhizodes</i> (C. Agardh) J. Agardh	DESMARESTIALES
<b>Striaria</b> Greville	DESMARESTIACEAE
<i>Striaria attenuata</i> (Greville) Greville (Co, Po)	<b>Desmarestia</b> J.V. Lamouroux
ECTOCARPACEAE	<i>Desmarestia aculeata</i> (Linnaeus) J.V. Lamouroux (Lu, Co, Po)
<b>Ectocarpus</b> Lyngbye	<i>Desmarestia dudresnayi</i> J.V. Lamouroux ex Léman (Lu, Co, Po) <sup>156</sup>
<i>Ectocarpus fasciculatus</i> Harvey (Lu, Co, Po)	<i>Desmarestia ligulata</i> (Lightfoot) J.V. Lamouroux (Lu, Co, Po)
<i>Ectocarpus siliculosus</i> (Dillwyn) Lyngbye (Lu, Co, Po)	LAMINARIALES
= <i>Ectocarpus siliculosus</i> var. <i>confervoides</i> (Roth) Kjellman	ALARIACEAE
SCYTOSIPHONACEAE	<b>Undaria</b> Suringar
<b>Colpomenia</b> (Endlicher) Derbès & Solier	<i>Undaria pinnatifida</i> (Harvey) Suringar (Co, Po) <sup>157</sup>
<i>Colpomenia peregrina</i> Sauvageau (Lu, Co, Po)	CHORDACEAE
<b>Componema</b> Kuckuck	<b>Chorda</b> Stackhouse
<i>Componema minutum</i> (C. Agardh) Kornmann (Co) <sup>148</sup>	<i>Chorda filum</i> (Linnaeus) Stackhouse (Lu, Co, Po)
<b>Petalonia</b> Derbès & Solier	LAMINARIACEAE
<i>Petalonia fascia</i> (O.F. Müller) Kuntze (Lu, Co, Po)	<b>Laminaria</b> J.V. Lamouroux
= <i>Phyllitis fascia</i> (O.F. Müller) Kützing	<i>Laminaria hyperborea</i> (Gunnerus) Foslie (Lu, Co, Po)
= <i>Phyllitis debilis</i> (C. Agardh) Kützing	= <i>Laminaria cloustoni</i> Edmonston
= <i>Phyllitis caespitosa</i> Le Jolis	<i>Laminaria ochroleuca</i> Bachelot de la Pylaie (Lu, Co, Po)
= <i>Laminaria fascia</i> Kützing	= <i>Laminaria iberica</i> (G. Hamel) Lami
<i>Petalonia zosterifolia</i> (Reinke) Kuntze (Co) <sup>149</sup>	= <i>Laminaria pallida</i> var. <i>iberica</i> G. Hamel
= <i>Phyllitis zosterifolia</i> Reinke	<i>Laminaria saccharina</i> (Linnaeus) J.V. Lamouroux (Lu, Co, Po)
<b>Scytosiphon</b> C. Agardh	
<i>Scytosiphon complanatus</i> (Rosenvinge) Doty (Lu, Co) <sup>150</sup>	

Table 1 (continuation)

<p>PHYLLARIACEAE</p> <p><b>Phyllariopsis</b> E.C. Henry &amp; South  <i>Phyllariopsis brevipes</i> (C. Agardh) E.C. Henry &amp; South subsp.  <i>pseudopurpurascens</i> Pérez-Cirera &amp; al. (Lu, Co, Po) <sup>158</sup>  = <i>Phyllaria reniformis</i> (J.V. Lamouroux) Rostafinsky, p.p.  <i>Phyllariopsis purpurascens</i> (C. Agardh) E.C. Henry &amp; South (Lu, Co, Po)  = <i>Phyllaria purpurascens</i> (C. Agardh) Rostafinsky</p> <p><b>Saccorhiza</b> Bachelot de la Pylaie  <i>Saccorhiza polyschides</i> (Lightfoot) Batters (Lu, Co, Po)  = <i>Saccorhiza bulbosa</i> Pylaie</p> <p>FUCALES</p> <p>CYTOSEIRACEAE</p> <p><b>Bifurcaria</b> Stackhouse  <i>Bifurcaria bifurcata</i> R. Ross (Lu, Co, Po)  = <i>Bifurcaria rotundata</i> Papenfuss  = <i>Bifurcaria tuberculata</i> (Hudson) Stackhouse</p> <p><b>Cystoseira</b> C. Agardh  <i>Cystoseira baccata</i> (S.G. Gmelin) P.C. Silva (Lu, Co, Po)  = <i>Cystoseira fibrosa</i> (Hudson) C. Agardh  <i>Cystoseira foeniculacea</i> (Linnaeus) Greville (Lu, Co, Po)  <i>Cystoseira humilis</i> Kützling var. <i>myriophylloides</i> (Sauvageau) J.H. Price &amp; D.M. John (Lu, Co, Po)  <i>Cystoseira nodicaulis</i> (Withering) M. Roberts (Lu, Co, Po)  = <i>Cystoseira granulata</i> C. Agardh  <i>Cystoseira tamariscifolia</i> (Hudson) Papenfuss (Lu, Co, Po)  = <i>Cystoseira ericoides</i> (Linnaeus) C. Agardh  <i>Cystoseira usneoides</i> (Linnaeus) M. Roberts (Lu, Co, Po)  = <i>Cystoseira concatenata</i> C. Agardh, p.p.</p> <p><b>Halidrys</b> Lyngbye  <i>Halidrys siliquosa</i> (Linnaeus) Lyngbye (Lu, Co, Po)</p> <p>FUCACEAE</p> <p><b>Ascophyllum</b> Stackhouse  <i>Ascophyllum nodosum</i> (Linnaeus) Le Jolis (Lu, Co, Po)</p> <p><b>Fucus</b> Linnaeus  <i>Fucus ceranoides</i> Linnaeus (Lu, Co, Po)  <i>Fucus serratus</i> Linnaeus (Lu, Co, Po)  <i>Fucus spiralis</i> Linnaeus (Lu, Co, Po) <sup>159</sup>  <i>Fucus vesiculosus</i> Linnaeus (Lu, Co, Po) <sup>160</sup></p> <p><b>Pelvetia</b> Decaisne &amp; Thuret  <i>Pelvetia canaliculata</i> (Linnaeus) Decaisne &amp; Thuret (Lu, Co, Po)</p> <p>HIMANTHALIACEAE</p> <p><b>Himantalia</b> Lyngbye  <i>Himantalia elongata</i> (Linnaeus) S.F. Gray (Lu, Co, Po)  = <i>Himantalia lorea</i> (Linnaeus) Lyngbye</p> <p>SARGASSACEAE</p> <p><b>Sargassum</b> C. Agardh  <i>Sargassum muticum</i> (Yendo) Fensholt (Lu, Co, Po)  = <i>Sargassum kjellmanianum</i> Yendo f. <i>muticum</i> Yendo</p> <p>INCERTAE SEDIS</p> <p><b>Bachelotia</b> (Bornet) Kuckuck ex G. Hamel  <i>Bachelotia antillarum</i> (Grunow) Gerloff (Lu, Co, Po)  = <i>Pilayella fulvescens</i> Bornet</p> <p><b>Pilinia</b> Kützling  <i>Pilinia rimosa</i> Kützling (Po) <sup>161</sup>  = <i>Waerniella lucifuga</i> (Kuckuck) Kylin  = <i>Leptonema lucifuga</i> Kuckuck</p>	<p>CHLOROPHYTA</p> <p>ULVOPHYCEAE</p> <p>ULVALES</p> <p>CAPSOSIPHONACEAE</p> <p><b>Capsosiphon</b> Gobi  <i>Capsosiphon fulvescens</i> (C. Agardh) Setchell &amp; N.L. Gardner (Co, Po) <sup>162</sup>  = <i>Capsosiphon aureolus</i> (Kützling) Gobi</p> <p>CHAETOPHORACEAE</p> <p><b>Bolbocoleon</b> Pringsheim <sup>163</sup>  <i>Bolbocoleon piliferum</i> Pringsheim (Po) <sup>41</sup></p> <p><b>Pringsheimiella</b> von Höhnel  <i>Pringsheimiella scutata</i> (Reinke) Höhnel ex Marchewianka (Co, Po)</p> <p><b>Tellamia</b> Batters  <i>Tellamia contorta</i> Batters (Lu, Po) <sup>164</sup>  = <i>Tellamia intricata</i> Batters</p> <p>ENDOSPHAERACEAE</p> <p><b>Chlorochytrium</b> Cohn  <i>Chlorochytrium cohnii</i> E.P. Wright (Co, Po) <sup>56</sup></p> <p>GOMONTIACEAE</p> <p><b>Gomontia</b> Bornet &amp; Flahault  <i>Gomontia polyrhiza</i> (Lagerheim) Bornet &amp; Flahault (Lu, Co, Po)</p> <p>KORNMANIACEAE</p> <p><b>Pseudendoclonium</b> Wille  <i>Pseudendoclonium submarinum</i> Wille (Co, Po) <sup>165</sup>  = <i>Protoderma marina</i> Reinke  = <i>Pseudodendoclonium marinum</i> (Reinke) Allem &amp; E. Schulz</p> <p>MONOSTROMATACEAE</p> <p><b>Monostroma</b> Thuret  <i>Monostroma obscurum</i> (Kützling) J. Agardh (Lu, Co, Po)  = <i>Ulvaria obscura</i> (Kützling) Gayral  <i>Monostroma oxyspermum</i> (Kützling) Doty (Lu, Co, Po)  = <i>Gayralia oxysperma</i> (Kützling) K.L. Vinogradova ex Scagel &amp; al.  = <i>Ulvaria oxysperma</i> (Kützling) Bliding  = <i>Monostroma orbiculatum</i> Thuret</p> <p>ULVACEAE</p> <p><b>Blidingia</b> Kylin  <i>Blidingia chadefaudii</i> (Feldmann) Bliding (Co) <sup>166</sup>  <i>Blidingia marginata</i> (J. Agardh) P.J.L. Dangeard ex Bliding (Lu, Co, Po)  <i>Blidingia minima</i> (Nägeli ex Kützling) Kylin (Lu, Co, Po)  = <i>Enteromorpha micrococca</i> Kützling  <i>Blidingia ramifera</i> (Bliding) Garbary &amp; Barkhouse (Lu, Co, Po)  = <i>Blidingia minima</i> var. <i>ramifera</i> Bliding</p> <p><b>Percursaria</b> Bory  <i>Percursaria percursa</i> (C. Agardh) Rosenvinge (Co, Po)</p> <p><b>Ulva</b> Linnaeus <sup>167</sup>  <i>Ulva bifrons</i> Ardré (Co) <sup>116</sup>  <i>Ulva clathrata</i> (Roth) C. Agardh (Lu, Co, Po) <sup>168</sup>  = <i>Enteromorpha clathrata</i> (Roth) Greville  = <i>Enteromorpha muscoides</i> (Clemente) Cremades  = <i>Enteromorpha ramulosa</i> (Smith) Carmichael in Hooker  = <i>Enteromorpha crinita</i> (Roth) J. Agardh  <i>Ulva compressa</i> Linnaeus (Lu, Co, Po)  <i>Ulva curvata</i> (Kützling) de Toni (Lu, Co, Po)  <i>Ulva flexuosa</i> Wulfen (Lu, Co, Po)</p>
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Table 1 (continuation)

= <i>Enteromorpha flexuosa</i> (Wulfen) J. Agardh	= <i>Cladophora hamosa</i> (Kützing) Kützing
<i>Ulva intestinalis</i> Linnaeus (Lu, Co, Po)	= <i>Cladophora neesiorum</i> (C. Agardh) Kützing
= <i>Enteromorpha intestinalis</i> (Linnaeus) Nees	= <i>Cladophora refracta</i> Kützing
<i>Ulva linza</i> Linnaeus (Co, Po)	<i>Cladophora coelothrix</i> Kützing (Lu, Co, Po)
= <i>Enteromorpha linza</i> (Linnaeus) J. Agardh	= <i>Cladophora repens</i> Harvey
<i>Ulva prolifera</i> O.F. Müller (Lu, Co, Po) <sup>169</sup>	<i>Cladophora dalmatica</i> Kützing (Po) <sup>18</sup>
= <i>Enteromorpha prolifera</i> (O.F. Müller) J. Agardh	<i>Cladophora globulina</i> (Kützing) Kützing (Co, Po) <sup>18</sup>
= <i>Enteromorpha torta</i> (Mertens) Reinbold	<i>Cladophora hutchinsiae</i> (Dillwyn) Kützing (Lu, Co, Po)
<i>Ulva pseudocurvata</i> Koeman & Hoek (Co, Po)	= <i>Cladophora rectangularis</i> (A.W. Griffiths ex Harvey) Harvey
<i>Ulva pseudolinza</i> (Koeman & Hoek) H.S. Hayden & al. (Lu, Co, Po)	<i>Cladophora laetevirens</i> (Dillwyn) Kützing (Lu, Co, Po)
= <i>Enteromorpha pseudolinza</i> Koeman & Hoek	<i>Cladophora lehmanniana</i> (Lindenberg) Kützing (Co, Po)
<i>Ulva ralfsii</i> (Harvey) Le Jolis (Po) <sup>20</sup>	= <i>Cladophora utriculosa</i> Kützing
= <i>Enteromorpha ralfsii</i> Harvey	= <i>Cladophora macallana</i> Harvey
<i>Ulva rhacodes</i> (Holmes) Papenfuss (Po) <sup>18</sup>	<i>Cladophora liniformis</i> Kützing (Po) <sup>18</sup>
<i>Ulva rigida</i> C. Agardh (Lu, Co, Po) <sup>170</sup>	<i>Cladophora pellucida</i> (Hudson) Kützing (Lu, Co, Po)
<i>Ulva rotundata</i> Bliding (Co, Po)	= <i>Cladophora pseudopellucida</i> Hoek
<i>Ulva scandinavica</i> Bliding (Co) <sup>20</sup>	= <i>Cladophora trichotoma</i> (C. Agardh) Kützing
<i>Ulva simplex</i> (K.L. Vinogradova) H.S. Hayden & al. (Co, Po)	<i>Cladophora prolifera</i> (Roth) Kützing (Lu, Co, Po) <sup>174</sup>
= <i>Enteromorpha simplex</i> (K.L. Vinogradova) Koeman & Hoek	<i>Cladophora ruchingeri</i> (C. Agardh) Kützing (Co, Po)
= <i>Enteromorpha prolifera</i> f. <i>simplex</i> Vinogradova, 1974	<i>Cladophora rupestris</i> (Linnaeus) Kützing (Lu, Co, Po)
<b>Umbraulva</b> E.H. Bae & I.K. Lee	<i>Cladophora sericea</i> (Hudson) Kützing (Co, Po)
<i>Umbraulva olivascens</i> (P.J.L. Dangeard) E.H. Bae & I.K. Lee (Lu, Co, Po)	= <i>Cladophora glaucescens</i> A.W. Griffiths ex Harvey
= <i>Ulva olivascens</i> P.J.L. Dangeard	= <i>Cladophora balliana</i> Harvey
<b>Ruthnielsenia</b> C.J. O'Kelly, B. Wynsor & W.K. Bellows	<b>Rhizoclonium</b> Kützing
<i>Ruthnielsenia tenuis</i> (Kyllin) C.J. O'Kelly, B. Wynsor & W.K. Bellows (Co) <sup>20</sup>	<i>Rhizoclonium riparium</i> (Roth) Harvey (Lu, Co, Po)
= <i>Phaeophyla tenuis</i> R. Nielsen	= <i>Rhizoclonium implexum</i> (Dillwyn) Kützing
= <i>Entocladia tenuis</i> Kylin	= <i>Rhizoclonium kernerii</i> Stockmayer
ULVELLACEAE	= <i>Rhizoclonium kochianum</i> Kützing
<b>Acrochaete</b> Pringsheim	<i>Rhizoclonium tortuosum</i> (Dillwyn) Kützing (Co, Po)
<i>Acrochaete repens</i> Pringsheim (Po) <sup>41</sup>	= <i>Lola tortuosa</i> (Dillwyn) Chapman
= <i>Acrochaete parasitica</i> Oltmanns	= <i>Chaetomorpha ligustica</i> (Kützing) Kützing
<b>Entocladia</b> Reinke	WITROCKIELLACEAE
<i>Entocladia viridis</i> Reinke (Co, Po)	<b>Wittrockiella</b> Wille
= <i>Phaeophyla viridis</i> (Reinke) Burrow	<i>Wittrockiella paradoxa</i> Wille (Co) <sup>1</sup>
<i>Entocladia wittrockii</i> Wille (Po) <sup>20</sup>	BRYOPSIDOPHYCEAE
= <i>Phaeophyla wittrockii</i> (Wille) R. Nielsen	ACROSIPHONIALES
<b>Epicladia</b> Reinke	ACROSIPHONIACEAE
<i>Epicladia flustrae</i> Reinke (Co, Po)	<b>Acrosiphonia</b> J. Agardh
<b>Ulvella</b> P.L. Crouan & H.M. Crouan	<i>Acrosiphonia arcta</i> (Dillwyn) Gain (Lu, Co, Po)
<i>Ulvella lens</i> P.L. Crouan & H.M. Crouan (Lu, Po)	= <i>Spongomorpha arcta</i> (Dillwyn) Kützing
= <i>Pseudulvella applanata</i> Setchell & N.L. Gardner	= <i>Acrosiphonia spinescens</i> (Kützing) Kjellman
<i>Ulvella setchellii</i> P.J.L. Dangeard (Lu, Co, Po) <sup>171</sup>	" <i>Codiolum petrocelidis</i> " Kuckuck [stage] (Co, Po) <sup>175</sup>
CLADOPHOROPHYCEAE	<b>Urospora</b> J.E. Areschoug
CLADOPHORALES	<i>Urospora penicilliformis</i> (Roth) J.E. Areschoug (Co, Po)
CLADOPHORACEAE	= <i>Urospora mirabilis</i> J.E. Areschoug
<b>Chaetomorpha</b> Kützing	= <i>Urospora bangioides</i> (Harvey) Holmes & Batters
<i>Chaetomorpha aerea</i> (Dillwyn) Kützing (Lu, Co, Po)	= <i>Urospora isogama</i> (J.E. Smith) Batters
<i>Chaetomorpha linum</i> (O.F. Müller) Kützing (Co, Po)	BRYOPSIDALES
<i>Chaetomorpha mediterranea</i> (Kützing) Kützing (Lu, Co, Po)	BRYOPSIDACEAE
= <i>Chaetomorpha capillaris</i> (Kützing) Börgesen	<b>Bryopsis</b> J.V. Lamouroux
<i>Chaetomorpha melagonium</i> (F. Weber & D. Morh.) Kützing (Po) <sup>20</sup>	<i>Bryopsis hypnoides</i> J.V. Lamouroux (Co, Po)
<b>Cladophora</b> Kützing <sup>172</sup>	<i>Bryopsis plumosa</i> (Hudson) C. Agardh (Lu, Co, Po)
<i>Cladophora aegagropila</i> (Linnaeus) Trevisan (Co, Po) <sup>173</sup>	= <i>Bryopsis arbuscula</i> J.V. Lamouroux
<i>Cladophora albida</i> (Nees) Kützing (Lu, Co, Po)	= <i>Bryopsis rosae</i> J. Agardh
	CODIACEAE
	<b>Codium</b> Stackhouse
	<i>Codium adhaerens</i> C. Agardh (Lu, Co, Po)
	<i>Codium decortatum</i> (Woodward) M.A. Howe (Lu, Co, Po)

**Table 1** (continuation)

= <i>Codium elongatum</i> (Turner) C. Agardh	CHLOROCYSTIDACEAE
<i>Codium fragile</i> (Suringar) Hariot subsp. <i>tomentosoides</i> (Goor)	<b>Halochlorococcum</b> P.J.L. Dangeard
P.C. Silva (Lu, Co, Po)	<i>Halochlorococcum moorei</i> (N.L. Gardner) Kornmann & Sahling
= <i>Codium mucronatum</i> var. <i>tomentosoides</i> Van Goor	(Co, Po) <sup>179</sup>
<i>Codium tomentosum</i> Stackhouse (Lu, Co, Po) <sup>176</sup>	= <i>Chlorochytrium willei</i> Printz
= <i>Codium dichotomum</i> (Hudson) Setchell	ULOTRICHALES
<i>Codium vermilara</i> (Olivi) Delle Chiaje (Lu, Co, Po)	ULOTRICHACEAE
DERBESIAEAE	<b>Ulothrix</b> Kützing
<b>Derbesia</b> Solier	<i>Ulothrix flacca</i> (Dillwyn) Thuret (Co, Po)
<i>Derbesia marina</i> (Lyngbye) Solier (Lu, Co) <sup>47</sup>	= <i>Ulothrix pseudoflacca</i> Wille
= <i>Vaucheria marina</i> Lyngbye	= <i>Ulothrix consociata</i> Wille
<i>Derbesia tenuissima</i> (Moris & De Notaris) P.L. Crouan & H.M. Crouan (Co, Po) <sup>177</sup>	<i>Ulothrix implexa</i> (Kützing) Kützing (Co, Po)
<b>Pedobesia</b> McRaid & Womersley	<i>Ulothrix subflaccida</i> Wille (Co, Po)
<i>Pedobesia solieri</i> Feldman ex Abélard & Knoepffler (Co, Po) <sup>178</sup>	TREBOUXIOPHYCEAE
OSTREOBIACEAE	PRASIOLOALES
<b>Ostreobium</b> Bornet & Flahault	PRASIOLOACEAE
<i>Ostreobium quekettii</i> Bornet & Flahault (Po) <sup>100</sup>	<b>Prasiola</b> (C. Agardh) Meneghini <sup>180</sup>
CHLOROCYSTIDALES	<i>Prasiola stipitata</i> Suhr ex Jessen (Co, Po)

**Table 2.** Number of species from Britain and Ireland (Hardy & Guiry 2003), Galicia (this article), Basque coast (Gorostiaga & al., 2004), N Portugal (Ardre, 1970; Cremades & al., 2002; Bárbara & al., 2003b; Araújo & al., 2003, 2005), S Portugal (Ardre 1970), Andalucía (Flores Moya & al., 1995a,b; Conde & al., 1996), Canary Islands (Haroun & al., 2002), and Atlantic coast of Morocco (Benhissoune & al., 2001, 2002a,b, 2003), as well as comparative Feldmann's (Rhodophyta/Pheophyta, Feldmann, 1937) and Cheney's (Rhodophyta+Chlorophyta/Pheophyta, Cheney, 1977) ratios.

	Britain and Ireland	Galicia (NW Spain)	Basque coast	N Portugal	S Portugal	Andalucía (S Spain)	Canary Islands	Atlantic coast of Morocco
Rhodophyta	341	296	215	205	215	348	385	314
Ochrophyta	182	127	65	67	75	108	125	107
Chlorophyta	120	77	51	46	46	86	117	83
R/P ratio	1,87	2,33	3,31	3,06	2,87	3,22	3,08	2,93
R+C/P ratio	2,53	2,94	4,09	3,75	3,48	4,02	4,02	3,71

## Notes

1. Calvo & al. (1999).
2. López Rodríguez & Pérez-Cirera (1996).
3. Peña & Bárbara (2003a).
4. Peña & Bárbara (2002).
5. Includes *Hyella caespitosa* var. *nitida* Batters (Po), a new record for Galicia, collected in the Ría de Arousa, 1995.
6. Calvo & Bárbara (2003) as *Hyella* sp.
7. Guillermes Vázquez (1997).
8. Calvo & Bárbara (2000b).
9. Miranda (1936).
10. Calvo & Bárbara (2003).
11. Calvo & Bárbara (2000c) and Bárbara & al. (2003a).
12. Andrés Abad & al. (1995) and Veiga & al. (1998b).
13. Sauvageau (1897) and Miranda (1943a).
14. Includes *Oscillatoria bonnemaisonii* var. *intermedia* (Crouan) Ardre (Po) reported by Guillermes & Cremades (1993).
15. Andrés Abad & al. (1995) and Bárbara & Cremades (1996).
16. Bárbara & Cremades (1996). New record for Pontevedra, collected in the Ría de Pontevedra, 1997.
17. López Rodríguez & al. (2000).
18. Donze (1968).
19. Bárbara & Cremades (1996).
20. Niell (1978).
21. Niell (1978) and Bárbara & al. (2003a).
22. Valenzuela & Pérez Cirera (1982) and Guillermes & al. (1994).
23. Donze (1968) and López Rodríguez & Pérez-Cirera (1996).
24. Bárbara & al. (2003a).
25. Bárbara & al. (2002).
26. Calvo & al. (1999) as *Phormidium amphibium* (C. Agardh ex Gomont) Anagnostidis & Komárek (see Calvo & Bárbara, 2003).
27. Niell (1978) and Calvo & Bárbara (2000b).
28. Niell (1978) and Calvo & al. (1999).
29. Includes *Calothrix confervicola* var. *purpurea* Bornet & Flahault (Lu, Co)
30. New record for Galicia, collected in the Ría de Ferrol, 1990.

31. Miranda (1934), Seoane Camba (1957), Niell (1970a) and Valenzuela & Pérez-Cirera (1982).
32. Bárbara & al. (2004).
33. Pérez-Cirera (1975a) and Valenzuela & Pérez-Cirera (1982).
34. Otero-Schmitt (1992) and Otero-Schmitt & Pérez-Cirera (2002).
35. Bescansa (1948), Pérez-Cirera (1975b) and Niell (1978).
36. Valenzuela & Pérez-Cirera (1982).
37. Cremades & Bárbara (1990) and Bárbara & al. (2003a).
38. Otero-Schmitt & Pérez-Cirera (1996).
39. Donze (1968), Pérez-Cirera (1975a) and Valenzuela Miranda (2001).
40. Miranda (1934) and Polo & al. (1982).
41. Miranda (1934).
42. Gallardo & Margalet (1992).
43. Pérez-Cirera & al. (1989b).
44. Granja & al. (1993).
45. Includes *Gelidium pusillum* var. *pulvinatum* (C. Agardh) J. Feldmann (Lu, Co, Po).
46. Includes *Gelidium attenuatum* (Lu, Co, Po).
47. Donze (1968) and Bárbara & al. (2002).
48. Niell (1978) and Díaz Tapia & Bárbara (2005a,b).
49. Some material of *Gracilaria* sp. and *G. bursa-pastoris* from Galicia corresponds to *G. vermiculophylla* (see Rueness 2005).
50. Rueness (2005). New record for Lugo, collected as *Gracilaria bursa-pastoris* in the Ría de Foz, 2004. DNA sequences of this collection were identical to *G. vermiculophylla* (Rueness, per. com.).
51. New record for Galicia, collected in the Ría de Ortigueira, 1997.
52. "*Hymenoclonium serpens*" [stage] was reported by Veiga & al. (1998a) and Bárbara & al. (2004).
53. Miranda (1934), Niell (1978) and Valenzuela & Pérez-Cirera (1982).
54. It has only it has been reported "*Trailliella intricata*" Batters [stage] (Bárbara & al., 2004) of the species *Bonnemaisonia hamifera* Hariot.
55. Miranda (1936), Otero-Schmitt & Pérez-Cirera (1996) and Bárbara & al. (2003a).
56. Granja & al. (1992) and Bárbara & al. (2002).
57. In our opinion, *Cryptonemia seminervis* corresponds to young individuals of *C. lomation* (see Cremades, 1990).
58. Pérez-Cirera & al. (1989a), Bárbara & Cremades (1996) and Bárbara & Cremades (2004).
59. *Grateloupia filicina* var. *luxurians* A. Gepp & E.S. Gepp was raised to species rank by De Clerck & al. (2005). It was reported from Galicia by López Rodríguez & al. (1991) and Bárbara & al. (2002).
60. Includes the reports of *Grateloupia filicina* (J.V. Lamouroux) C. Agardh since De Clerck & al. (2005) reinstated *G. minima* as a separate species from the northeastern Atlantic Ocean.
61. Granja & al. (1992) and Bárbara & Cremades (1996).
62. ICES (1992), Cremades (1995) and Bárbara & al. (2002) as *Grateloupia doryphora* (Montagne) M.A. Howe and by Bárbara & Cremades (2004) as *G. turuturu*.
63. Rodríguez-Prieto & Vergés (2001).
64. New record for Lugo, collected in As Salseiras, 1994.
65. Granja & al. (1993) and Bárbara & Cremades (1996).
66. Donze (1968) and Niell (1978).
67. Cremades & al. (1997b).
68. See Beltrán & Bárbara (2003) for a comparative study between the two Galician *Corallina* species.
69. Miranda (1934), Bescansa Casares (1948) and Seoane Camba (1957).
70. Includes *Jania rubens* var. *corniculata* (Linnaeus) Yendo (Lu, Co, Po).
71. Veiga & al. (1998b).
72. For a comparative study between *Lithothamnion corallioides* and *Phymatolithon calcareum* in Galicia, see Adey & McKibbin (1970) and Peña & Bárbara (2004).
73. Cabioch & Mendoza (2003) reported five *Mesophyllum* species from Europe.
74. Donze (1968), Veiga & al. (1998a) and Bárbara & al. (2002).
75. According to Chamberlain (1991), *Titanoderma* is considered distinct from *Lithophyllum*.
76. Sauvageau (1897) and Miranda (1943c).
77. See López Rodríguez & al. (2002) for the complete distribution in the Iberian Peninsula.
78. López Rodríguez & al. (2002).
79. "*Cruoria rosea*" [stage] was reported by Bárbara & al. (2004).
80. Bescansa Casares (1948), Pérez-Cirera & al. (1989c), Bárbara & Cremades (1996) and Bárbara & al. (2003a).
81. Includes *Chondracanthus teedei* var. *lusitanicus* (Mesquita Rodrigues) Bárbara & Cremades (Lu, Co, Po). This variety is a new record for Lugo, collected in Peinzás, 2004.
82. Includes *Chondrus crispus* f. *filiformis* (Hudson) Thomas (Lu, Co), *C. crispus* var. *incurvatus* Lyngbye (Co), and *C. crispus* var. *planus* (Turner) Batters (Co).
83. Bárbara & Cremades (1996) and Veiga & al. (1998b).
84. "*Haematocelis fissurata*" [stage] was reported by Bárbara & al. (2002).
85. Donze (1968) and Pérez-Cirera (1975a,b).
86. Colmeiro (1867) and López Varela & al. (2002).
87. Bárbara & al. (1996) described the cystocarps of *Lomentaria orcadensis*.
88. New record for Lugo, collected in San Ciprián, 2005.
89. Veiga & al. (1998a,b).
90. New record for Lugo, collected in San Ciprián, 2005.
91. Miranda (1934) and Seoane-Camba (1957).
92. New record for Lugo, collected in Morás, 2004.
93. Bárbara & al. (2003a). New record for Lugo, collected in Morás, 2004.
94. Pérez-Cirera (1975a) and Otero Schmitt (1992).
95. Veiga & al. (1998a) and Bárbara & al. (2003a).
96. Donze (1968) and Bárbara & al. (2003a).
97. Peña & Bárbara (2003b).
98. Seoane-Camba (1957) and Niell (1978).
99. Includes *Ceramium ecbionotum* var. *mediterraneum* Feldmann-Mazoyer (Lu, Co, Po).
100. Miranda (1934) and Niell (1978).
101. New record for Lugo, collected in Morás, 2004.
102. Bárbara & al. (2001), Peña & Bárbara (2005) and Díaz Tapia & Bárbara (2005a).
103. Niell (1978) and Peña & Bárbara (2003b).
104. Includes *Spermothamnion repens* f. *turneri* (Mertens ex Roth) Rosenvinge (Co, Po) and *S. repens* var. *flagelliferum* (De Notaris) Feldmann-Mazoyer (Lu, Co).
105. *Spyridia filamentosa* was reported from Galicia by Donze (1968), Niell (1970a) and Veiga & al. (1998b), but records of *S. filamentosa* (Wulfen) Harvey from Europe correspond to *S. griffithsiana* (see Zuccarello & al., 2004).
106. Bárbara & al. (1992b) and Bárbara & al. (2002).
107. Reported by Veiga & al. (1998b), Peña & Bárbara (2002) and Bárbara & al. (2004), it could be the alien species *Dasya ses-*

- silis* Yamada, reported as new from Europe by Verlaque (2002). A revision of *Dasya* from Galicia is needed.
108. Bárbara & al. (2003b) as *Dasyasiphonia* sp. European material of this species is conspecific with *Heterosiphonia japonica* (see Bjaerke & Rueness, 2005).
  109. Guillermes & Cremades (1997) and Bárbara & al. (2002).
  110. Bárbara & al. (2002). New record for Pontevedra, collected in Islas Cíes, 2003.
  111. Donze (1968) and Veiga & al. (1998b). New record for Lugo, collected in San Ciprián, 2005.
  112. Donze (1968), Pérez-Cirera (1975b) and Niell (1978).
  113. Cremades & Bárbara (1990). New record for Lugo, collected in San Ciprián, 2005.
  114. Otero Schmitt (1992).
  115. Cremades & al. (1997a).
  116. Veiga & al. (1998a).
  117. Reported by Pérez-Cirera & al. (1989d) and Granja & al. (1993) as *Falkenbergiella caespitosa* Pocock. However Stegenga & al. (1997) treated *F. caespitosa* as a synonym of *Poly-siphonia scopulorum*.
  118. Díaz Tapia & Bárbara (2004).
  119. Granja & al. (1993) and Bárbara & al. (2002).
  120. Pérez Cirera & al. (1989d) and Granja & al. (1993). New record for A Coruña, collected in Seaia, 2002.
  121. New record for Lugo, collected in the Ría de Foz, 2003.
  122. Bárbara & Cremades (1996) and Bárbara & al. (2003a).
  123. Calvo & Bárbara (2000b) and Bárbara & al. (2003a).
  124. Calvo & Bárbara (2000a) and Bárbara & al. (2003a).
  125. Calvo & al. (1999) and Bárbara & al. (2003a).
  126. Pérez-Cirera (1975a), Niell (1978) and Valenzuela & Pérez-Cirera (1982).
  127. New record for Galicia, collected in Lugo, San Ciprián, 2004.
  128. Ribera Siguan & al. (2005).
  129. Includes *Dictyota dichotoma* var. *intricata* (C. Agardh) Greville (Lu, Co, Po).
  130. Polo & al. (1982).
  131. Pérez Cirera (1977a) and Cremades & al. (1997a).
  132. Miranda (1934) and Bárbara & al. (2003a).
  133. Bárbara & Cremades (1993).
  134. Pérez-Cirera (1975a).
  135. Sauvageau (1897).
  136. Niell & al. (1980).
  137. Veiga & al. (1997) and Bárbara & al. (2002).
  138. Donze (1968), Niell (1978) and Guillermes & al. (1994).
  139. Seoane Camba (1957) and Bárbara & al. (2002).
  140. Miranda (1943b), Donze (1968) and Niell (1978).
  141. According to Fletcher (1987), *Myrionema magnusii* could be a stage of another species.
  142. Niell (1978) and Veiga & al. (1998a). New record for Lugo, collected in Punta Riomar, 1993.
  143. Reported as new record for Galicia by Bárbara & al. (2003a). New record for A Coruña, collected in Cabo Corrubedo, 1999.
  144. Niell (1978) and Guillermes Vázquez (1997).
  145. Donze (1968), Niell (1978) and Valenzuela & Pérez-Cirera (1982).
  146. López Rodríguez & al. (1991).
  147. Sauvageau (1897) and Donze (1968).
  148. New record for Galicia, collected in Ferrol, Santa Comba, 2004.
  149. Bárbara & Cremades (1990) and Bárbara & al. (2002).
  150. Pérez-Cirera & al. (1991a) and Cremades & al. (1997a).
  151. Pérez-Cirera & al. (1991a), Guillermes Vázquez (1997) and Bárbara & al. (2002).
  152. Donze (1968) and Bárbara & al. (2004).
  153. See Wynne (2003) for the correct name of *Cutleria multifida*. New record for Lugo, collected in the Ría de Viveiro, 1996. *Aglaozonia parvula* [stage] is new record for Lugo, collected in the Ría de Viveiro, 1999.
  154. Niell (1976) and Granja & al. (1992).
  155. Colmeiro (1889) and Miranda (1944). This species was reported as new for Lugo in 1996 (Ría de Viveiro), but the herbarium voucher is lost.
  156. Bárbara & Cremades (1996) and Bárbara & al. (2002, 2004).
  157. Santiago Caamaño & al. (1990), Bárbara & al. (2002) and Pérez-Ruzafa & al. (2002).
  158. Pérez-Cirera & al. (1991b) and Granja & al. (1993).
  159. Includes *Fucus spiralis* var. *platycarpus* Batters (Lu, Co, Po) and *F. spiralis* var. *limitaneus* (Montagne) I.M. Pérez-Ruzafa (Lu, Co, Po).
  160. Includes *Fucus vesiculosus* var. *compressus* Kjellman (Lu, Co, Po), *F. vesiculosus* var. *linearis* (Hudson) Kützinger (Lu, Co, Po), *F. vesiculosus* var. *vadorum* J.E. Areschoug (Lu, Co, Po) and *F. vesiculosus* var. *volubilis* Goodenough & Woodward (Lu).
  161. Seoane (1957), Niell (1978) and Valenzuela & Pérez-Cirera (1982).
  162. Gallardo García (1984) and López Rodríguez & Pérez Cirera (1990).
  163. O'Kelly & al. (2004a) placed *Bolbocoleum piliferum* within the Ulvophyceae on the basis of a clade containing representatives of the families Ulvaceae, Ulvellaceae and Kornmanniaceae.
  164. Sauvageau (1897) and Niell (1978).
  165. Valenzuela & Miranda (1982) and Calvo & al. (1999).
  166. Granja & al. (1992).
  167. Following Hayden & al. (2003), *Enteromorpha* is included in *Ulva*.
  168. Following Blomster & al. (1999), *Enteromorpha muscoides* (Lu, Co, Po) is included in *Ulva clathrata*.
  169. Following Burrows (1991), *Enteromorpha torta* (Lu, Co, Po) is included in *Ulva prolifera*.
  170. Includes *Ulva rigida* var. *fimbriata* (Welwitsch) J. Agardh (Lu, Co, Po).
  171. New record for Pontevedra, collected in the Ría de Arousa, 1999.
  172. The genus *Cladophora* requires a revision in Galicia.
  173. Donze (1968), Niell (1978) and Calvo & Bárbara (2002).
  174. Miranda (1943b), Niell (1978) and Gallardo & Margalet (1992).
  175. Bárbara & Cremades (1996) and Veiga & al. (1998b).
  176. Includes *C. tomentosum* var. *mucronatum* (G. Hamel) Ardré (Lu, Co, Po).
  177. Donze (1968) and Peña & Bárbara (2002).
  178. Granja & al. (1992) and Guillermes & Cremades (1993).
  179. Cremades & al. (1992) and Guillermes Vázquez (1997).
  180. Following Friedl & O'Kelly (2002), *Prasiola* is included in Trebouxiophyceae.

### Taxa excludenda

#### Cyanophyta

- Aphanocapsa pulchra* (Kützinger) Rabenhorst (Co) is *Aphanocapsa conferta* (Calvo & Bárbara, 2003).  
*Brachytrichia quoyi* (C. Agardh) Bornet & Flahault (Co, Po) reported by Niell (1978), López Ro-

- dríguez & al. (1991), Granja & al. (1992), Bárbara & Cremades (1996) and Donze (1998) corresponds to *Brachytrichia lloydii*.
- Geitlerinema amphibium* (C. Agardh) Anagnostidis (Co) reported by Calvo & al. (1999) as *Phormidium amphibium* (C. Agardh ex Gomont) Anagnostidis & Komárek is *Leptolyngbya perelegans* (Calvo & Bárbara, 2003).
- Gloeotrichia pisum* (C. Agardh) Thuret (Co) reported by Calvo & al. (1999) is *Rivularia nitida* (Calvo & Bárbara, 2003).
- Gomphosphaeria aponina* auct. (Co) is *Gomphosphaeria salina* (Calvo & Bárbara, 2003).
- Heteroleibleinia kuetzingii* (Schmidle) Compère (Po) reported as *Lyngbya kuetzingii* Schmidle by Niell (1970a) is not included in Niell (1978).
- Nostoc minutum* Desmazières ex Bornet & Flahault (Co) reported by Calvo & al. (1999) corresponds to *Nostoc sphaericum*.
- Oscillatoria curviceps* C. Agardh (Co) reported by Calvo & al. (1999) is *Oscillatoria limosa* (Calvo & Bárbara, 2003).
- Porphyrosiphon martensianus* (Meneghini) Anagnostidis & Komárek (Co, Po) reported by Calvo & al. (1996) and López-Rodríguez & Pérez-Cirera (1996) as *Lyngbya martensiana* is *Lyngbya aestuarii*.
- Synechocystis salina* Wislouch (Po) reported by López-Rodríguez & Pérez-Cirera (1996) corresponds to *Aphanocapsa litoralis*.
- Xenococcus acervatus* Setchell & N.L. Gardner (Po) reported by Guillermes (1997) corresponds to *X. schousboei* after the herbarium revision.
- ### Rhodophyta
- Alsidium helminthochorton* (Schwendimann) Kützing reported by Colmeiro (1867) should be excluded from the Galician seaweeds flora (see Miranda, 1944).
- Amphiroa rigida* J.V. Lamouroux (Co, Po) reported by Bescansa (1948), Donze (1968), Pérez-Cirera (1975a) and Niell (1978) corresponds to *Amphiroa van-bosseae* (Cremades & al., 1997b).
- Amphiroa verruculosa* Kützing (Co) reported by Sauvageau (1989) corresponds to *Amphiroa van-bosseae* (Cremades & al., 1997b).
- Ceramium deslongchampsii* Chauvin ex Dubyi (Co) reported by Bescansa (1948) is *C. diaphanum* (Bárbara & al., 1994). *Ceramium deslongchampsii* (Lu, Po) reported by Niell (1978) and Polo & al. (1982) requires confirmation since no herbarium vouchers from Galicia have been found.
- Chondracanthus elegans* (Greville) Guiry (Po) reported by Donze (1968) as *Gigartina elegans*, was excluded from the Galician seaweeds flora by Niell (1978). Donze (1968) report could be a misidentification for *Chondracanthus teedei* var. *lusitanicus*.
- Cystoclonium purpureum* (Hudson) Batters (Co) reported by Lázaro e Ibiza (1889) could be *Rhodomela subfusca* (Miranda, 1936).
- Gelidium fasciculatum* G. Hamel (Po) described by Hamel (1928a) and reported by Seoane Camba (1957) was excluded by Niell (1978).
- Griffithsia corallinoides* (Linnaeus) Trevisan (Po) reported by Colmeiro (1867) could be a confusion with *Griffithsia schousboei* (see Miranda, 1944). Reports by Seoane-Camba (1957) and Niell (1978) correspond to *G. schousboei* (Pérez-Cirera & al., 1989d).
- Halopitys incurva* (Hudson) Batters (Co) reported by Lázaro e Ibiza (1889) as *Rytiphlaea pinastroides* Ag. was not found in Lázaro original herbarium.
- Halymenia floresia* (Clemente) C. Agardh (Lu) reported by Polo & al. (1982) is a meridional species and no herbarium vouchers from Galicia have been found. Likely this report corresponds to *Halarachnion ligulatum*.
- Heterosiphonia crispella* (C. Agardh) M.J. Wynne var. *laxa* (Börgeesen) M.J. Wynne (Co) reported by Bárbara & Cremades (1996) is the alien species *H. japonica*, reported by Bárbara & al. (2003a) as *Dasyisiphonia* sp.
- Laurencia paniculata* Kützing (Po) reported by Bescansa (1948) could not be found in his herbarium (Bárbara & al., 1994). According to Boisset & al. (2000), *L. paniculata* could be conspecific with *Osmundea truncata* (Kützing) Nam & Maggs.
- Membranoptera alata* (Hudson) Stackhouse (Co) reported by Colmeiro (1867) as *Hypoglossum alatum* Kützing (leg. López Seoane), was not collected in Galicia (Dosil Mancilla, 1997). According to Miranda (1944), this species should be excluded from the Spanish seaweeds flora since it is a cold-water species. Reports by Fischer-Piette & Seoane-Camba (1962), Ardré (1957) and Donze (1968) could correspond to *Apoglossum ruscifolium*, since Maggs & Hommersand (1993) stated that, occasionally, *M. alata* is misidentified as *A. ruscifolium*.
- Naccaria wiggii* (Turner) Endlicher (Co) reported by Bescansa (1948) is *Lomentaria clavellosa* (Bárbara & al., 1994).
- Odonthalia dentata* (Linnaeus) Lyngbye (Lu) reported by Polo & al. (1982) could be a *Plocamium*, since the former is a cold-water species for which no herbarium vouchers have been found.
- Phycodrys rubens* (Linnaeus) Batters (Co, Po) reported by López Seoane (1866), Colmeiro (1889),

Donze (1968), Pérez-Cirera (1975a,b) and Niell (1978) corresponds to drift and spoil material of *Delesseria sanguinea*.

*Phyllophora pseudoceranoioides* (S.G. Gmelin) Newroth & A.R.A. Taylor (Co, Po) reported by Donze (1968) and Pérez-Cirera (1975b, as *Phyllophora membraniifolia* (Goodenough & Woodward) J. Agardh) requires confirmation because confusion with sturdy specimens of *Gymnogongrus crenulatus* is common. According to Miranda (1994) it should be excluded from the Galician seaweeds flora.

*Ptilota gunneri* P.C. Silva, Maggs & L.M. Irvine reported by Colmeiro (1867, 1889) as *Ptilota plumosa* (Linnaeus) C. Agardh is the only record of this septentrional species, easy to confuse with *Plumaria plumosa* (see Miranda, 1944). Moreover, no herbarium vouchers from Galicia were found.

*Polysiphonia foetidissima* Cocks ex Bornet (Co) reported by Bescansa (1948) is the only record from Galicia, but we could not find material in Bescansa original herbarium (Bárbara & al., 1994).

*Porphyrostromium ciliare* (Carmichael) M.J. Wynne (Co) reported by Bescansa (1948) as *Bangia ciliaris* Carmichael is *Erythrotrichia carnea* (Bárbara & al., 1994).

#### Ochrophyta

*Cystoseira compressa* (Esper) Gerloff & Nizamuddin (Lu) reported by Gallardo & Margalet (1992) is excluded because its main range covers the southern Iberian Peninsula, Africa, Caribbean and Mediterranean coasts (Gómez Garreta & al., 2000). This report could belong to *C. foeniculacea*.

*Cystoseira spinosa* Sauvageau var. *compressa* (Ercegovic) Cormaci & al. (Po) reported by Niell (1978) as *Cystoseira platyramosa* is excluded because its range covers the Mediterranean and Adriatic Sea (Gómez Garreta & al., 2000). The record from Lugo could belong to *C. foeniculacea* or *C. myriophylloides*.

*Ecklonia muratii* Feldmann (Co) reported by Bory de Saint-Vincent (1897) is *Calliphtharion ciliata* (Miranda, 1944).

*Laminaria digitata* (Linnaeus) J.V. Lamouroux (Co) reported by Lázaro e Ibiza (1889) is not present in Spanish coasts (see Seoane Camba, 1965a).

*Pseudolithoderma extensum* (P.L. Crouan & H.M. Crouan) S. Lund (Co) reported by Bescansa (1948) as *Lithoderma fatiscens* Areschoug is the only record from Galicia, but we could not find herbarium vouchers (Bárbara & al., 1994).

*Sargassum vulgare* C. Agardh (Co) reported by Lázaro e Ibiza (1889) is the only record from Galicia of this meridional species.

#### Chlorophyta

*Cladophora flexuosa* (O.F. Müller) Kützinger (Co) reported by Bescansa (1948) as *Cladophora gracilis* Kützinger is the only record from Galicia, and herbarium vouchers were not found (Bárbara & al., 1994).

*Cladophora fracta* (O.F. Müller ex Vahl) Kützinger (Co, Po) reported by Bescansa (1948) is a freshwater algae that we could not find in Bescansa original herbarium (Bárbara & al., 1994).

*Cladophora vagabunda* (Linnaeus) Hoek (Co, Po) reported by Donze (1968) is excluded because no material could be found in the Nationaal Herbarium Nederland (Prud'homme van Reine, pers. com.), where vouchers should be deposited.

*Monostroma grevillei* (Thuret) Wittrock (Po) reported by Donze (1968) corresponds to *Ulva* spp. (Gallardo García 1984).

*Ulva lactuca* Linnaeus (Co, Po) was excluded by Niell (1978).

*Ulva procera* (K. Ahlner) H.S. Hayden & al. (Co), reported by Otero Schmitt (1992) as *Enteromorpha ahlnneriana* Bliding is the only record from Galicia and no herbarium voucher could be found.

#### Dubious records and *taxa inquirenda*

##### Cyanophyta

*Aphanocapsa elachista* W. West & G.S. West (Co) reported by Veiga & al. (1998) is considered a planktonic species from eutrophic waters, and marine records should belong to other species. The Galician record could be *A. conferta*.

*Dermocarpa orbicularis* Miranda (Po) described by Miranda (1936) requires taxonomic re-investigation.

*Hydrococcus marinus* Grunow (Co) reported by López-Rodríguez (1994) could be a *Radaisia* species.

*Hydrococcus rivularis* Kützinger (Co) reported by López-Rodríguez (1994) could be a *Radaisia* species.

*Leptolyngbya golenkiniana* (Gomont) Anagnostidis & Komárek (Co, Po) reported by Granja & al. (1992), Guillermes & Cremades (1993) and Guillermes & al. (1994) requires taxonomic re-investigation.

*Merismopedia glauca* (Ehrenberg) Kützinger (Po) reported by López-Rodríguez & Pérez-Cirera (1996) is considered a freshwater species by several authors. The Galician record requires confirmation, as it could be *M. mediterranea*.

*Merismopedia thermalis* Kützinger (Po) reported by Miranda (1934) as *Agmenellum thermale* is a ther-

- mophilic species (Komárek & Anagnostidis 1999); the Galician record from marine habitats would require confirmation.
- Palmogloea protuberans* (J.E. Smith & Sowerby) Kützting (Po) reported by Niell (1978) requires confirmation, as its distribution covers Pacific Islands, Australia and New Zealand (Guiry & Dhonncha, 2005).
- Phormidium favosum* (Bory) Gomont (Co) reported by Calvo & al. (1999) requires confirmation due to confusion between *P. favosum* and *P. autumnale*.
- Pleurocapsa gallaecica?* Miranda (Po) reported by Valenzuela & Pérez-Cirera (1982) and Valenzuela Miranda (2001) requires taxonomic re-investigation.
- Porphyrosiphon notarisii* (Meneghii) Kützting (Po) reported by Niell (1978) requires confirmation as it is a species from clearly non-marine habitats.
- Schizothrix arenaria* (Berkeley) Gomont (Po) reported by Niell (1978) requires confirmation.
- Schizothrix calcicola* (C. Agardh) Gomont (C, Po) reported by Donze (1968) and Niell (1978) requires confirmation as it is a species from clearly non-marine habitats.
- Schizothrix mexicana* Gomont (Po) reported by Niell (1978) requires confirmation.
- Spirulina versicolor* Cohn ex Gomont (Co) reported by Bescansa (1948) requires confirmation; it was collected in an aquarium filled with seawater previously sterilized.
- Xenococcus laminariae* Feldmann (Co) reported by López Varela (2000) requires confirmation.
- Rhodophyta
- Acrochaetium codii* (P.L. Crouan & H.M. Crouan) Bornet (Po) reported by Miranda (1934) requires confirmation.
- Acrochaetium pectinatum* (Kylin) G. Hamel (Po) reported by Miranda (1934) requires confirmation.
- Asparagopsis taxiformis* (Delile) Trevisan de Saint-Léon reported by Miranda (1934) as "*Falkenbergia hillebrandii*" (Bornet) Falkenberg [stage] requires confirmation.
- Callithamnion cryptopterum* Kützting (Po) reported by Valenzuela & Pérez-Cirera (1982) as *C. micropterum* Kützting requires confirmation.
- Ceramium tenue* J. Agardh (Po) reported by Valenzuela & Pérez-Cirera (1982) requires confirmation because several species have been recorded under this name (see Maggs & Hommersand, 1993).
- Ceramium tenuissimum* (Lyngbye) J. Agardh (Co, Po) reported by Donze (1968), Pérez-Cirera (1975) and Niell (1978) requires confirmation, as it could be *C. diaphanum*.
- Coccotylus truncatus* (Pallas) M.J. Wynne & J.N. Heine (Lu) reporter by Polo & al. (1982) as *Phyllophora brodiaei* (Turner) J. Agardh requires confirmation.
- Compsopogon coeruleus* (Balbis ex C. Agardh) Montagne (Co, Po) reported by Donze (1968) requires confirmation.
- Drachiella heterocarpa* (Chauvin ex Duby) Maggs & Hommersand (Co, Po) reported by Colmeiro (1867), Seoane Camba (1957) and Donze (1968) as *Nitophyllum versicolor* Harvey requires confirmation. Miranda (1944) stated that its presence is unlikely in northwestern Spain.
- Erythrotrichia reflexa* (P.L. Crouan & H.M. Crouan) Thuret ex De Toni (Co) reported by Pérez-Cirera (1975a) could be *E. carnea*.
- Gelidiocolax christiana* J. & G. Feldmann (Co, Po) reported by Donze (1968) requires re-investigation due to confusion with *G. margaritoides*.
- Gigartina falcata* J. Agardh (Lu, Po) reported by Niell (1970a), Polo & al. (1982) and Valenzuela & Pérez-Cirera (1982) requires confirmation due to resemblance with *Chondracanthus acicularis*.
- Gracilaria cervicornis* (Turner) J. Agardh (Po) reported by Donze (1968) requires confirmation.
- Gracilaria dura* (C. Agardh) J. Agardh (Po) reported by Niell (1978) requires confirmation.
- Gymnogongrus patens* (Goodenough & Woodward) J. Agardh (Co, Po) reported by Donze (1968) and Pérez-Cirera (1975a,b, 1976) requires confirmation.
- Gymnothamnion pteroton* (Schousboe ex Bornet) Athanasiadis (Po) reported by Miranda (1934) as *Antithamnion pteroton* Schousboe ex Bornet requires confirmation.
- Halymenia bermudensis* F.S. Collins & M.A. Howe (Po) reported by Donze (1968) requires confirmation.
- Peyssonelia polymorpha* (Zanardini) F. Schmitz (Lu) reported by Polo & al. (1982) requires confirmation.
- Peyssonelia squamaria* (S.G. Gmelin) Decaisne (Co) reported by Bescansa (1948) is *P. coriacea* (Bárbara & al., 1994). Records from Lugo and A Coruña (Polo & al., 1982, Donze, 1968) require further confirmation.
- Polyides rotundus* (Hudson) Greville strongly resembles *Furcellaria lumbricalis*. Reports of *P. rotundus* and *F. lumbricalis* from A Coruña and Pontevedra by Donze (1968), Pérez-Cirera (1975b) and Niell (1978) should therefore be re-examined.

*Polysiphonia funebris* De Notaris ex J. Agardh (Po) reported by Niell (1978) requires confirmation.

*Rhodochorton atlanticum* Miranda (Po) described by Miranda (1936) requires taxonomic re-investigation.

*Rhodochorton velutinum* (Hauck) G. Hamel (Po) reported by Miranda (1934) requires investigation.

*Spermothamnion flabellatum* Bornet (Co, Po) reported by Donze (1968) requires confirmation.

#### Ochrophyta

*Chilionema hispanicum* (Sauvageau) R.L. Fletcher (Lu) reported by Miranda (1944) as *Ascocyclus hispanicus* Sauvageau requires confirmation.

*Colpomenia sinuosa* (Mertens ex Roth) Derbès & Solier (Co, Po) reported by Bescansa (1948) is *C. peregrina* (Bárbara & al., 1994). Other records from Pontevedra (Hamel, 1928b; Miranda, 1943b; Seoane Camba, 1957; Valenzuela & Pérez-Cirera, 1982) require revision since *C. sinuosa* is a meridional species.

*Desmarestia viridis* (O.F. Müller) J.V. Lamoux (Co) reported by Colmeiro (1867) is unlikely in Galicia (see Miranda, 1944).

*Giffordia recurvata* (Kuckuck ex Kormann) Cardinal, nom. inval. (Co, Po) reported by Donze (1968) could be *Hinksia granulosa*. *Ectocarpus recurvatus* Kuckuck is a nomen nudum, and Cardinal did not provide a latin description and holotype. *Hinksia recurvata* (Cardinal) Athanasiadis, based on Cardinal's invalid name, is therefore illegitimate.

*Kylinia* sp. (Co, Po) reported by Donze (1968) requires investigation.

*Zonaria tournefortii* (J.V. Lamourux) Montagne (Co) reported by Colmeiro (1867) as *Stypopodium flavum* Kützing is unlikely in Galicia (see Miranda, 1944).

#### Chlorophyta

*Bryopsis feldmannii* Gallardo & G. Furnari (Po) reported by Niell (1978) as *B. cupressoides* Kützing requires confirmation.

*Chaetomorpha auricoma* (Suhr) Kjellmann (Co) reported by Donze (1968) requires taxonomic investigation.

*Chaetomorpha gracilis* Kützing (Co) reported by Bescansa (1948) requires confirmation.

*Cladophora glomerata* (Linnaeus) Kützing (Co, Po) reported by Donze (1968) and Niell (1978) requires confirmation.

*Cladophora parriaudii* Hoek (Po) reported by Donze (1968) requires confirmation.

*Codium diffforme* Kützing (Lu) and *C. effusum* (Rafi-

nesque) Delle Chiaje (Lu) reported by Sauvageau (1897) require confirmation because they are often confused with *C. adhaerens*.

*Enteromorpha pilifera* Kützing (Co) reported by Peña Freire (2003) requires confirmation.

*Enteromorpha stipitata* P.J.L. Dangeard, nom. inval. (Po) reported by Donze (1968) requires re-study.

*Ulva gigantea* (Kützing) Bliding (Po) reported by Niell (1978) requires confirmation.

*Ulvaria fusca* Ruprecht reported by Niell (1978) requires confirmation.

#### Acknowledgements

We thank three anonymous referees and Tomás Gallardo (Universidad Complutense, Madrid) for their very valuable suggestions and corrections to the original manuscript.

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## Appendix I. Northern cold-temperate species

### Rhodophyta

*Aglaothamnion pseudobyssoides*  
*Aglaothamnion roseum*  
*Aglaothamnion sepositum*  
*Bostrychia scorpioides*  
*Brongiartella byssoides*  
*Callocolax neglectus*  
*Ceramium shuttleworthianum*  
*Chondrus crispus*  
*Choreocolax polysiphoniae*  
*Cruoria pellita*  
*Delesseria sanguinea*  
*Dilsea carnosa*  
*Dumontia contorta*  
*Gloiosiphonia capillaris*  
*Halarachnion ligulatum*  
*Halurus flosculosus*  
*Harveyella mirabilis*  
*Heterosiphonia plumosa*  
*Lomentaria orcadensis*  
*Mastocarpus stellatus*  
*Palmaria palmata*  
*Plumaria plumosa*  
*Polysiphonia fucoides*  
*Polysiphonia lanosa*  
*Polysiphonia nigra*  
*Polysiphonia stricta*  
*Porphyra linearis*  
*Porphyra purpurea*

*Rhodochorton purpureum*  
*Rhodomela confervoides*  
*Rhodothamniella floridula*

#### Ochrophyta

*Ascophyllum nodosum*  
*Chorda filum*  
*Desmarestia aculeata*  
*Desmarestia ligulata*  
*Ectocarpus fasciculatus*  
*Elachista flaccida*  
*Elachista fucicola*  
*Elachista scutulata*  
*Eudesme virescens*  
*Fucus ceranoides*  
*Fucus serratus*  
*Fucus spiralis*  
*Fucus vesiculosus*  
*Halidrys siliquosa*  
*Himantalia elongata*  
*Laminaria hyperborea*  
*Laminaria saccharina*  
*Laminariocolax aecidioides*  
*Litosiphon laminariae*  
*Pelvetia canaliculata*  
*Petalonia zosterifolia*  
*Pylaiella littoralis*  
*Protectocarpus speciosus*  
*Saccorbiza polyschides*  
*Scytosiphon dotyi*  
*Sphacelaria plumula*  
*Spongonema tomentosum*  
*Striaria attenuata*  
*Vaucheria arcassonensis*  
*Vaucheria coronata*  
*Vaucheria dichotoma*  
*Vaucheria erythrospora*  
*Vaucheria intermedia*  
*Vaucheria subsimplex*  
*Vaucheria velutina*

#### Chlorophyta

*Acrosiphonia arcta*  
 “*Codiolum petrocelidis*” [stage]  
*Blidingia chadefaudii*  
*Blidingia ramifera*  
*Capsosiphon fulvescens*  
*Halochlorococcum moorei*  
*Prasiola stipitata*  
*Pseudendoclonium submarinum*  
*Ulvella setchellii*  
*Urospora penicilliformis*

### Appendix II. Southern warm-temperate species

#### Rhodophyta

*Amphiroa van-bosseae*  
*Antithamnion densum*  
*Aphanocladia stichidiosa*  
*Callithamniella tingitana*

*Ceramium callipterum*  
*Ceramium ecbionotum*  
*Ctenosiphonia hypnoides*  
*Gigartina pistillata*  
*Griffithsia opuntiooides*  
*Griffithsia schousboei*  
*Gymnogongrus crenulatus*  
*Haraldia lenormandii*  
*Laurencia minuta*  
*Leptosiphonia schousboei*  
*Liagora distenta*  
*Lithophyllum stictaeforme*  
*Peyssonnelia coriacea*  
*Pleonosporium flexuosum*  
*Plocamium raphelisianum*  
*Polysiphonia polyspora*  
*Polysiphonia scopulorum*  
*Spermothamnion repens* var. *flagelliferum*  
*Streblacladia collabens*  
*Tiffaniella capitata*

#### Ochrophyta

*Cutleria adpersa*  
*Halopteris filicina*  
*Padina pavonica*

#### Chlorophyta

*Codium decortcatum*

### Appendix III. Endemic species of Lusitanic province

#### Rhodophyta

*Ahnfeltiopsis pusilla*  
*Apoglossocolax pusilla*  
*Callithamnion tetricum*  
*Chondracanthus teedei* var. *lusitanicus*  
*Cordylecladia erecta*  
*Drachiella spectabilis*  
*Erythrogllossum lusitanicum*  
*Gelidiella calcicola*  
*Gelidiocolax deformans*  
*Gelidium maggsiae*  
*Gonimophyllum buffhamii*  
*Haraldiophyllum bonnemaisonii*  
*Itonoa marginifera*  
*Laurencia pyramidalis*  
*Osmundea osmunda*  
*Polyneura bonnemaisonii*  
*Pterosiphonia complanata*  
*Ptilothamnion sphaericum*  
*Rhodymenia holmesii*

#### Ochrophyta

*Bifurcaria bifurcata*  
*Cystoseira baccata*  
*Cystoseira foeniculacea*  
*Cystoseira nodicaulis*  
*Desmarestia dudresnayi*

*Laminaria ochroleuca*  
*Petrospongium berkeleyi*  
*Phyllariopsis brevipes* subsp. *pseudopurpurascens*  
*Phyllariopsis purpurascens*

#### Chlorophyta

*Codium tomentosum* var. *mucronatum*  
*Ulva rigida* var. *fimbriata*

### Appendix IV. Alien species

#### Rhodophyta

*Antithamnionella ternifolia*  
*Asparagopsis armata* and “*Falkenbergia rufolanosa*” [stage]  
*Gracilaria vermiculophylla*  
*Grateloupia luxurians*  
*Grateloupia turuturu*  
*Heterosiphonia japonica*  
*Lomentaria bakodatensis*  
*Neosiphonia harveyi*

#### Ochrophyta

*Colpomenia peregrina*  
*Sargassum muticum*  
*Undaria pinnatifida*

#### Chlorophyta

*Codium fragile* subsp. *tomentosoides*

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Received: 4-I-2005  
Accepted: 26-V-2005