

Checklist of the Benthic Marine Plants of the Madeira Archipelago

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A checklist of the benthic marine plants of the archipelago of Madeira is presented based on published information and personal observations. This list includes 1 Spermatophyte and 359 algal species, comprising 64 Chlorophycota, 64 Chromophycota and 231 Rhodophycota. Fifteen doubtful records for the area are also included.

Introduction

The archipelago of Madeira, located in the Central Eastern Atlantic Ocean between the coordinates 30° to 33° N and 16° to 17° W (Fig. 1), comprises seven islands (Madeira, Porto Santo, Deserta Grande, Bugio, Selvagem Grande, Selvagem Pequena and Ilhéu de Fora). Only Madeira and Porto Santo are inhabited. Most of the islands are close to each other, except the Selvagens (Salvage islands) which are situated about half way between Madeira and the Canaries.

Phycological investigations were only sporadically conducted, mainly by visiting scientists and during small periods of time (see revision in Levring 1974). Among the first studies Piccone (1884) is worth mentioning, whose collections were deposited in the Department of Botany of the Naturhistorisches Museum in Vienna (W) and have been revised by Prud'homme van Reine *et al.* (1994). In this century the first studies were conducted by Gain and Mirande (1912), Gain (1914), Menezes (1926) and Cabioch (1974). Levring (1974), based on the previous investigations and on his own collections, listed 254 macroalgal species. A few years later, during the CANCAP expeditions of the Dutch Government (1977–1987), collections were done in several of the mid-Atlantic islands. The collections are deposited at the National Herbarium Nederland in Leiden (L). Part of the material was examined and several publications were made concerning the marine algal flora of the Madeira archipelago (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Haroun and Prud'homme van Reine 1993, Weisscher 1982, 1983).

Since Levring (1974), all the published information has been widespread, rendering difficult any biogeographical assessment of the Macaronesian algal flora.

The aim of this work is to compile an updated catalogue of the marine plants of the Madeira archipelago, including macroalgae and seagrasses.

Material and Methods

After a review of the pertinent references and revision of available live/preserved material, only valid records are included in this checklist. Many herbarium sheets have been revised by the authors. Herbarium abbreviations are from the Index Herbariorum (Holmgren *et al.* 1990). Most of the specimens are deposited in either L (CANCAP expeditions) or in the Herbarium of the Museu Municipal do Funchal (Historia Natural), some old specimens are kept in PAD and W. Doubtful records are kept separate and certainly need further attention.

The systematic arrangement, including the ordinal and lower classification schemes, mainly follows Silva *et al.* (1996). We have also adopted the new division (phylum) names Rhodophycota, Chromophycota (which includes Phaeophyceae) and Chlorophycota suggested by those authors. Besides, new taxonomic data for specific genera, such as *Dictyota* (Hörnig *et al.* 1992 a, b, 1993) and *Laurencia/Chondrophycus* (Nam 1999) are also incorporated. In some cases, the nomenclatural status suggested by Wynne (1998) in the recent revision of the western Atlantic tropical and subtropical marine flora is adopted. Genera and species appear alphabetically within their assigned family or genera, respectively. Subspecies and lower classification levels are not quoted. Nomenclatural authorities are given in full, mainly to avoid errors due to different abbreviation systems, Brummitt and Powell's (1992) compilation of names of authors is mainly followed. Besides, the recommendation of the ICBN (Greuter *et al.* 1994) to avoid using *in* is adopted. For each taxon the place where

it was collected is given (M, Madeira; PS, Porto Santo; DG, Deserta Grande; SG, Selvagem Grande; SP, Selvagem Pequena; IF, Ilhéu de Fora; Selvagens or Desertas, when no specific place is referred to) together with the respective bibliographic references.

Results

Spermatophyta

Class Magnoliophytina

Subclass Lilida

Cymodocea nodosa (Ucria) Ascherson

M (Levring 1974, but only the genus was mentioned, Augier 1985, Wirtz 1995).

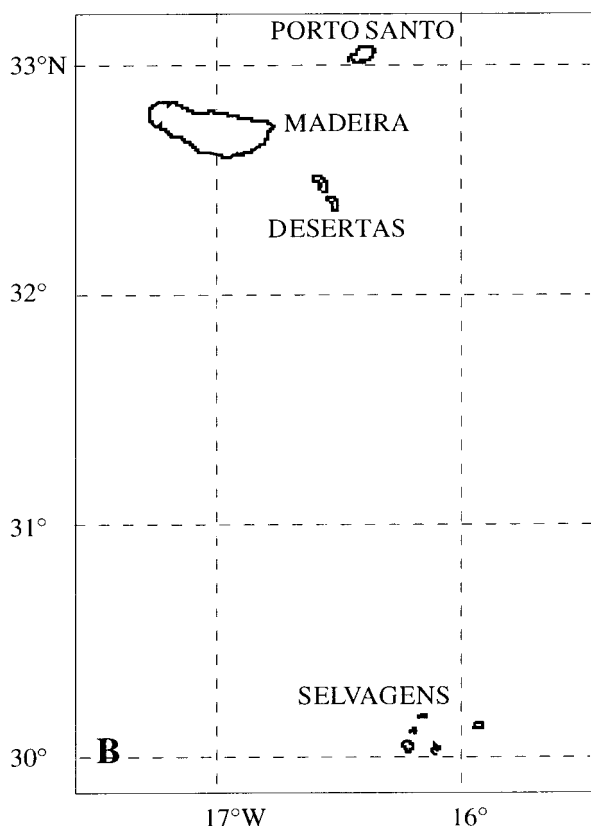
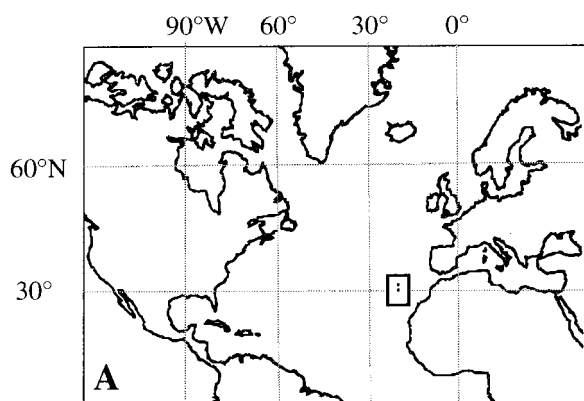


Fig. 1. Madeira Archipelago: location in the Atlantic Ocean (A) and relative position of the islands (B).

Chlorophycota

Ctenocladales

Ctenocladaceae

Pseudendoclonium marinum (Reinke) Aleem *et* E. Schulz

= *Pseudendoclonium* cf. *submarinum* Wille – **SP** (Audiffred and Weisscher 1984)

= *Protoderma marina* Reinke – **SP** (Weisscher 1983).

Ulvellaceae

Acrochaete leptochaete (Huber) Nielsen

M (Pedersen 1983).

Entocladia flustrae (Reinke) Taylor

= *Epicladia flustrae* Reinke – **M** (Pedersen 1983).

Entocladia viridis Reinke

M (Levring 1974, Pedersen 1983, Weisscher 1983); **SP** (Weisscher 1983).

= *Phaeophila viridis* (Reinke) Burrows – **M**, **SG** and **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Pringsheimiella scutata (Reinke) von Höhnelt *ex* Marchewianka

PS (Audiffred and Prud'homme van Reine 1985).

Phaeophilales

Phaeophilaceae

Phaeophila dendroides (P. Crouan *et* H. Crouan) Batters

M (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Ulvales

Percursariaceae

Percursaria percursa (C. Agardh) Rosenvinge – **SP** (Weisscher 1983).

Ulvaceae

Enteromorpha clathrata (Roth) Greville

M (Menezes 1926, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985) **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP**

(Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Enteromorpha compressa (Linné) Nees

M (Piccone 1884, Gain 1914, Menezes 1926, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Gain 1914, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Piccone 1884, Gain 1914, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Enteromorpha flexuosa (Wulfen *ex* Roth) J. Agardh subsp. *paradoxa* (Dillwyn) Bliding

M and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Enteromorpha lingulata* J. Agardh – **DG** (Gain 1914).

Enteromorpha intestinalis (Linné) Nees

PS (Audiffred and Prud'homme van Reine 1985); **SG** (Gain and Mirande 1912, Gain 1914, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Enteromorpha linza (Linné) J. Agardh

SG (Gil-Rodríguez *et al.* 1978, Weisscher 1983); **SP** (Weisscher 1983).

Enteromorpha muscoides (Clemente y Rubio) Cremades

= *Enteromorpha ramulosa* (J. E. Smith) Hook – **M** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Prud'homme van Reine *et al.* 1994); **SG** (Gain and Mirande 1912, Gain 1914, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).
= *Enteromorpha ramulosa* Hook var. *spinescens* – **M** (Gain 1914).

Enteromorpha prolifera (O. F. Müller) J. Agardh

M and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Enteromorpha procera Ahlner

= *Enteromorpha ahlneriana* Bliding – **M** (Levring 1974).

Ulva fasciata Delile

= *Phycoseris nematoida* (Bory) Montagne – **M** (Grunow 1868).

Ulva lactuca Linné

M (Piccone 1884, Gain 1914, Menezes 1926, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **DG** and **SG** (Gain 1914, Audiffred and Prud'homme van Reine 1985).

Ulva rigida C. Agardh

M (Levring 1974, Augier 1985, Prud'homme van Reine *et al.* 1994).

Monostromataceae

Blidingia marginata (J. Agardh) P. Dangeard

= *Blidingia minima* var. *minima* – **M** (Prud'homme van Reine *et al.* 1994).

Blidingia minima (Nägeli *ex* Kützing) Kylin

M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Cladophorales

Anadyomenaceae

Anadyomene stellata (Wulfen) C. Agardh

SP (Weisscher 1983).

Microdictyon boergesenii Setchell

M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Microdictyon tenuis (C. Agardh) Decaisne

Desertas (Cabioch 1974).

Cladophoraceae

Chaetomorpha aerea (Dillwyn) Kützing

M (Levring 1974, Augier 1985); **PS** (Paula *et al.* 1992); **SG** (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978).

Chaetomorpha capillaris (Kützing) Børgesen

M (Levring 1974, Augier 1985); **PS** (Paula *et al.* 1992).
= *Chaetomorpha callithrix* Kützing – **M** (Grunow, 1868).

Chaetomorpha linum (O. F. Müller) Kützing

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** and **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Chaetomorpha gallica* Kützing – **M** (Grunow, 1868).

Chaetomorpha pachynema (Montagne) Montagne

M (Levring 1974, Augier 1985).

Cladophora albida (Nees von Esenbeck) Kützing
SG (Audiffred and Weisscher 1984).

= *Cladophora neesiorum* (C. Agardh) Kützing – SG (Gain and Mirande 1912).

Cladophora coelothrix Kützing

M (Weisscher 1983, Audiffred and Weisscher 1984, Prud'homme van Reine *et al.* 1994); DG, SG and SP (Weisscher 1983, Audiffred and Weisscher 1984).

= *Cladophora repens* (J. Agardh) Harvey – M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); PS (Paula *et al.* 1992); SG (Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Prud'homme van Reine 1985) DG and SP (Levring 1974, Audiffred and Prud'homme van Reine 1985).

= *Aegagropila repens* (J. Agardh) Kützing – DG (Gain 1914).

Cladophora feredayi Harvey

M and SG (Audiffred and Weisscher 1984).

Cladophora glomerata (Linné) Kützing

M (Prud'homme van Reine *et al.* 1994).

Cladophora hutchinsiae (Dillwyn) Kützing

M (Levring 1974); SG (Levring 1974, Gil-Rodríguez *et al.* 1978).

Cladophora laetevirens (Dillwyn) Kützing

M (Audiffred and Weisscher 1984); SG (Audiffred and Weisscher 1984, Prud'homme van Reine *et al.* 1994).

= misidentified as *Cladophora lutescens* Kützing – SG (Piccone 1884).

= misidentified as *Cladophora dalmatica* Kützing – SG (Audiffred and Weisscher 1984).

Cladophora liebetruthii Grunow

M and SG (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); PS and DG (Audiffred and Prud'homme van Reine 1985).

= *Cladophora boodleoides* Børgesen – M (Levring 1974, Augier 1985).

Cladophora pellucida (Hudson) Kützing

M (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); PS (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); DG (Levring 1974, Audiffred and Prud'homme van Reine 1985); SG (Piccone 1884, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); SP (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

= misidentified as *Cladophora utriculosa* Kützing – M (Piccone 1884).

Cladophora prolifera (Roth) Kützing

M (Menezes 1926, Levring 1974, Audiffred and Prud'homme van Reine 1985); PS (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); DG (Gain

1914); SG (Gil-Rodríguez *et al.* 1978, Audiffred and Prud'homme van Reine 1985).

Cladophora sericea (Hudson) Kützing

= *Cladophora flexuosa* (Müller) Kützing – M (Levring 1974); SG (Levring 1974, Gil-Rodríguez *et al.* 1978).

Cladophora socialis Kützing

M (Prud'homme van Reine *et al.* 1994).

Cladophora vagabunda (Linné) van den Hoek

SG (Audiffred and Weisscher 1984).

= *Cladophora fascicularis* (Mertens *ex* Agardh) Kützing – M (Levring 1974).

Urospora laeta (Thuret) Børgesen

DG (Levring 1974, Audiffred and Prud'homme van Reine 1985); SG (Gil-Rodríguez *et al.* 1978, Audiffred and Prud'homme van Reine 1985).

Chaetosiphonaceae

Blastophysa rhizopus Reinke

M (Levring 1974, Audiffred and Prud'homme van Reine 1985); DG (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Siphonocladaceae

Cladophoropsis membranacea (Hofman Bang *ex* C. Agardh) Børgesen

SP (Weisscher 1983).

Phyllocladion anastomosans (Harvey) Kraft *et* M. J. Wynne

= *Struvea anastomosans* (Harvey) Piccone *et* Grunow *ex* Piccone – M and PS (Audiffred and Prud'homme van Reine 1985).

Phyllocladion pulcherrimum J. E. Gray

= *Struvea ramosa* Dickie – M (Levring 1974, Augier 1985).

Valoniaceae

Ernodesmis verticillata (Kützing) Børgesen

M (Levring 1974).

Valonia macrophysa Kützing

SP (Weisscher 1983).

Valonia utricularis (Roth) C. Agardh

M (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); PS (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); DG (Audiffred and Prud'homme van Reine 1985); SG (Gain and Mirande 1912, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); SP (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Bryopsidales

Bryopsidaceae

Bryopsis corymbosa J. Agardh

M (Levring 1974, Prud'homme van Reine *et al.* 1994).

Bryopsis hypnoides J. V. Lamouroux

SG (Audiffred and Weisscher 1984).

Bryopsis plumosa (Hudson) C. Agardh

PS (Audiffred and Prud'homme van Reine 1985); **DG** (Gain 1914, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Pedobesia lamourouxii (J. Agardh) J. Feldmann, Loureau, Codomier *et* Couté

= *Derbesia lamourouxii* (J. Agardh) Solier – **M** (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Derbesia tenuissima (Morris *et* De Notaris) P. Crouan *et* H. Crouan

M (Weisscher 1983); **DG** (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Caulerpacae

Caulerpa prolifera (Forsskål) J. Agardh

M (Levring 1974, Augier 1985).

Caulerpa racemosa (Forsskål) J. Agardh

DG (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Caulerpa webbiana Montagne

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992) and **SG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Udotaceae

Penicillus capitatus Lamarck

PS (Audiffred and Prud'homme van Reine 1985).

Pseudochlorodesmis furcellata (Zanardini) Børgesen

M (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

= *Derbesia furcellata* (Zanardini) Ardissonne – **M**, **SG** and **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Codiaceae

Codium adhaerens C. Agardh

M (Gain 1914, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Gain 1914, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **Selva-gens** (Pickering and Hansen 1969); **SG** (Gain and Mirande 1912, Gain 1914, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Codium decorticatum (Woodward) Howe

M and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Codium elisabethae O. C. Schmidt

PS (Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine 1988).

Codium tomentosum Stackhouse

M (Menezes 1926, Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** and **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Prud'homme van Reine 1985); **Selvagens** (Levring 1974).

Dasycladales

Dasycladaceae

Dasycladus vermicularis (Scopoli) Krasser

M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** and **SP** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Dasycladus claviformis* C. Agardh – **DG** (Gain 1914).

Polyphysaceae

Acetabularia polyphysoides P. Crouan *et* H. Crouan *ex* Schramm *et* Mazé

SP (Weisscher 1983).

Acetabularia parvula Solms-Laubach

PS (Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985).

Chromophycota**Phaeophyceae**

Ectocarpales

Ectocarpaceae

Acinetospora crinita (Carmichael *ex* Harvey) Kornmann

SP (Weisscher 1983).

Ectocarpus siliculosus (Dillwyn) Lyngbye

M, **SG** and **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

= *Ectocarpus confervoides* (Roth) Le Jolis – **M** (Levring 1974); **SG** and **SP** (Gil-Rodríguez *et al.* 1978).

Feldmannia irregularis (Kützinger) Hamel

M (Levring 1974, Weisscher 1982, 1983, Pedersen 1983); **SG** (Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983); **SP** (Weisscher 1983); **IF** (Weisscher 1982, 1983).

Herponema minutum Levring

M (Levring 1974, Augier 1985).

Hincksia ovata (Kjellman) P. C. Silva

= *Giffordia intermedia* (Rosenvinge) Lund – **SP** (Weisscher 1983).

Hincksia mitchelliae (Harvey) P. C. Silva

= *Giffordia mitchelliae* (Harvey) Hamel – **M** (Levring 1974, Audiffred and Weisscher 1984, Augier 1985); **SG** (Audiffred and Weisscher 1984).

Kuetzingiella battersii (Bornet *ex* Sauvageau) Kornmann

M (Levring 1974, Augier 1985).

Mikrosyphar sphacelariae Levring

M (Levring 1974, Augier 1985).

Ralfsiaceae

Ralfsia bornetii Kuckuck

M (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Ralfsia verrucosa (Areschoug) Areschoug

M (Levring 1974, Audiffred and Weisscher 1984); **SG** (Audiffred and Weisscher 1984).

Myrionemataceae

Myrionema orbiculare (J. Agardh) Loiseaux

= *Ascocylus orbicularis* (J. Agardh) Kjellman – **M** (Levring 1974).

Myrionema corunnae Sauvageau

M (Levring 1974).

Myrionema strangulans Greville

M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Elachistaceae

Elachista intermedia P. Crouan *et* H. Crouan

M (Levring 1974); **SG** (Gil-Rodríguez *et al.* 1978).

Leptonematella fasciculata (Reinke) P. C. Silva

SG (Audiffred and Weisscher 1984).

Sphacelariales

Choristocarpaceae

Discosporangium mesarthrocarpum (Meneghini) Hauck

PS (Audiffred and Prud'homme van Reine 1985).

Sphacelariaceae

Sphacelaria cirrosa (Roth) C. Agardh

M (Menezes 1926, Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine, 1985).

= *Sphacelaria hystrix* Suhr *ex* Reinke – **M** (Menezes 1926, Levring 1974, Augier 1985); **SG** (Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978).

Sphacelaria nana Nägeli *ex* Kützinger

M and **PS** (Audiffred and Prud'homme van Reine 1985).

= *Sphacelaria britannica* Sauvageau – **M** and **PS** (Levring 1974).

Sphacelaria rigidula Kützinger

PS (Audiffred and Prud'homme van Reine 1985).

Sphacelaria tribuloides Meneghini

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Stypocaulaceae

Halopteris filicina (Grateloup) Kützinger

M (Gain 1914, Menezes 1926, Levring 1974, Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF**

(Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Stypocaulon scoparium (Linné) Kützing

M (Menezes 1926, Augier 1985, Prud'homme van Reine *et al.* 1994); **SG** (Gain 1914).

= *Halopteris scoparia* (Linné) Sauvageau – **M** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Gain 1914, Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Sphacelaria scoparia* C. Agardh – **M** (Menezes 1926).

Cladostephaceae

Cladostephus spongiosus (Hudson) C. Agardh

M (Gain 1914, Menezes 1926); **PS** (Levring 1974).

= *Cladostephus spongiosus* (Hudson) C. Agardh forma *spongiosus* – **M** and **PS** (Audiffred and Prud'homme van Reine 1985).

= *Cladostephus spongiosus* (Hudson) C. Agardh forma *verticillatus* (Lightfoot) Prud'homme van Reine – **M**, **PS** and **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Cladostephus verticillatus* (Lightfoot) C. Agardh – **M** (Levring 1974, Augier 1985); **PS** (Levring 1974).

Dictyotales

Dictyotaceae

Dictyopteris polypodioides (De Candolle) J. V. Lamouroux

= *Dictyopteris membranacea* (Stackhouse) Batters – **M** and **PS** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Weisscher 1984); **Desertas** (Cabioch 1974); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dictyota bartayresiana J. V. Lamouroux

= *Dictyota bartayresii* J. V. Lamouroux – **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dictyota cervicornis Kützing

PS (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'

homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dictyota ciliolata Sonder *ex* Kützing

PS (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dictyota dichotoma (Hudson) J. V. Lamouroux

M (Menezes 1926, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **Desertas** (Cabioch 1974, Weisscher 1983); **DG** (Audiffred and Weisscher 1984); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Dictyota volubilis* Kützing – **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dictyota dichotoma var. *intricata* (C. Agardh) Greville

= *Dictyota divaricata* J. V. Lamouroux – **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Dictyota linearis* (C. Agardh) Greville – **M** and **PS** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Piccone 1884, Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dictyota fasciola (Roth) J. V. Lamouroux

M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS**, **DG** and **SP** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Gain and Mirande 1912, Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine, 1985).

= *Dilophus fasciola* (Roth) Howe – **SG** (Gil-Rodríguez *et al.* 1978).

Dictyota kohlmeieri (Nizamuddin *et* Gerloff) Hörning, Schnetter *et* Prud'homme van Reine **SP** (Weisscher 1983).

Dictyota spiralis Montagne

DG (Audiffred and Prud'homme van Reine 1985).

Lobophora variegata (J. V. Lamouroux) Womersley *ex* Oliveira

M (Weisscher 1982, 1983); **PS** (Weisscher 1982, 1983, Paula *et al.* 1992); **SG** and **IF** (Weisscher 1982, 1983); **SP** (Weisscher 1983).

= *Pocockiella variegata* (J. V. Lamouroux) Papenfuss – **M** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985); **SP** and **IF** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Zonaria variegata* J. V. Lamouroux – **M** (Menezes 1926).

Padina pavonica (Linné) Thivy

M (Piccone 1884, Gain 1914, Menezes 1926, Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **Desertas** (Cabioch 1974); **DG** (Gain 1914, Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Stypopodium zonale (J. V. Lamouroux) Papenfuss

PS (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Zonaria lobata* C. Agardh – **M** (Menezes 1926).

Taonia atomaria (Woodward) J. Agardh

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Augier 1985); **Desertas** (Cabioch 1974, Weisscher 1983); **DG** (Audiffred and Weisscher 1984); **SG** (Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Zonaria tournafortii (J. V. Lamouroux) Montagne

M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994, Paula *et al.* 1992); **Selvagens** (Pickering and Hansen 1969); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Prud'homme van Reine 1985).

= *Zonaria flava* (Clemente y Rubio) C. Agardh – **M** and **DG** (Gain 1914).

Cutleriales

Cutleriaceae

Cutleria multifida (J. E. Smith) Greville
SG (Gain 1914).

Chordariales

Corynophlaeaceae

Corynophlaea ? crispa (Harvey) Kuckuck
M (Pedersen 1983).

Spermatochneaceae

Nemacystus erythraeus (J. Agardh) Sauvageau

PS (Audiffred and Prud'homme van Reine 1985, de Jong and Prud'homme van Reine 1997); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Nemacystus flexuosus (C. Agardh) Kylin var. *flexuosus*

M (Weisscher 1983, Audiffred and Weisscher 1984); **PS** (de Jong and Prud'homme van Reine 1997); **SG** (Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Nemacystus hispanicus (Sauvageau) Kylin
M (Levring 1974).

Stilophora tenella (Esper) P. C. Silva

= *Stilophora rhizodes* (Turner) J. Agardh – **SG** (Audiffred and Weisscher 1984).

Chordariaceae

Cladosiphon contortus (Thuret) Kylin
SG (Audiffred and Weisscher 1984).

Liebmannia levillei J. Agardh

M and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Scytosiphonales

Scytosiphonaceae

Colpomenia sinuosa (Mertens *ex* Roth) Derbès *et* Solier

M (Gain 1914, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Gain 1914, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Hydroclathrus clathratus (Bory *ex* C. Agardh) Howe

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984); **DG** (Audiffred and Weisscher 1984);

SG (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

= *Hydroclathrus cancellatus* Bory – **DG** (Gain 1914); **SG** (Gain and Mirande 1912, Gain 1914).

Scytosiphon lomentaria (Lyngbye) Link
M (Levring 1974).

Dictyosiphonales

Giraudiaceae

Giraudia sphacelariodes Derbès *et* Solier

M (Levring 1974, Weisscher 1983); **Selvagens** (Audiffred and Weisscher 1984); **SP** (Weisscher 1983).

Punctariaceae

Asperococcus fistulosus (Hudson) W. J. Hooker
= *Asperococcus echinatus* Greville – **M** (Menezes 1926, Levring 1974).

Sporochnales

Sporochnaceae

Sporochnus bolleanus Montagne

M and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Sporochnus pedunculatus (Hudson) C. Agardh
M (Levring 1974, Augier 1985).

Desmarestiales

Arthrocladiaceae

Arthrocladia villosa (Hudson) Duby

M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Laminariales

Laminariaceae

(*Laminaria saccharina* C. Agardh)

M (Menezes 1926, recorded as drift plants).

Fucales

Fucaceae

(*Ascophyllum nodosum* (Linné) Jolis)

M and **PS** (Menezes 1926, recorded as drift plants).

Sargassaceae

Sargassum desfontainesii (Turner) C. Agardh

M (Piccone 1884, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Augier 1985); **DG** (Piccone 1884, Gain 1914, Weisscher 1983, Audiffred and Weisscher 1984); **SG** (Gain and Mirande 1912, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Prud'homme

van Reine *et al.* 1994); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

(*Sargassum natans* (Linné) Gaillon)

M (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978). Recorded as drift plants.

= *Sargassum bacciferum* C. Agardh – **M** (Menezes 1926); **Selvagens** (Pickering and Hansen 1969); **SG** (Piccone 1884).

Sargassum vulgare C. Agardh

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Sargassum vulgare* C. Agardh var. *diversifolium* – **SG** (Gain 1914).

= misidentified as *Sargassum albertisii* Piccone – **SG** (Piccone 1884).

= misidentified as *Sargassum fissifolium* (Martens) J. Agardh – **M** and **SG** (Piccone 1884).

Cystoseiraceae

Cystoseira abies-marina (S. G. Gmelin) C. Agardh

M (Piccone 1884, Gain 1914, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985); **Selvagens** (Pickering and Hansen 1969); **SG** (Piccone 1884, Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Cystoseira compressa (Esper) Gerloff *et* Nizamuddin
M (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **SG** (Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **SP** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Cystoseira abrotanifolia* (Linné) C. Agardh – **SG** (Piccone 1884).

= misidentified as *Cystoseira barbata* C. Agardh var. *pumila* Montagne – **M** (Piccone 1884).

= *Cystoseira fimbriata* (Desf.) Børgesen – **M** and **SG** (Levring 1974).

Cystoseira foeniculacea (Linné) Greville
M, **PS**, **SG** and **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Cystoseira discors* (Linné) C. Agardh – **M** (Gain 1914, Levring 1974, Weisscher 1983); **PS** (Levring 1974, Weisscher 1983); **SP** (Weisscher 1983).

Cystoseira humilis Kützing

M (Levring 1974, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Levring 1974, Paula *et al.* 1992); **DG** (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Prud'homme van Reine *et al.* 1994).

= *Cystoseira humilis* Kützing var. *humilis* – **M** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **PS**, **DG**, **SG** and **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Cystoseira barbata* J. Agardh – **M** (Piccone 1884, Menezes 1926); **SG** (Piccone 1884).

= *Cystoseira canariensis* Sauvageau – **SG** (Gain and Mirande 1912, Gain 1914).

Cystoseira nodicaulis (Withering) Roberts

M (Prud'homme van Reine *et al.* 1994).

= *Cystoseira granulata* (Turner) C. Agardh sensu Greville – **M** (Piccone 1884).

Cystoseira tamariscifolia (Hudson) Papenfuss

M (Levring 1974, Augier 1985).

= *Cystoseira ericoides* (Linné) C. Agardh – **M** (Menezes 1926).

Rhodophycota

Rhodophyceae

Bangiophycidae

Porphyridiales

Porphyridiaceae

Chroodactylon ornatum (C. Agardh) Basson

= *Asterocystis ornata* (C. Agardh) Hamel – **M** (Levring 1974).

Stylonema alsidii (Zanardini) K. M. Drew

= *Goniotrichum alsidii* (Zanardini) Howe – **M** and **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** and **SP** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Stylonema cornu-cervi Reinsch

= *Goniotrichum cornu-cervi* (Reinsch) Hauck – **M** (Levring 1974).

Erythropeltidales

Erythrotrichiaceae

Erythrocladia irregularis Rosenvinge

M (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Erythrotrichia carnea (Dillwyn) J. Agardh

M (Levring 1974); **Selvagens** (Audiffred and Weisscher 1984); **SG** (Gil-Rodríguez *et al.* 1978).

= *Erythrotrichia obscura* Berthold – **M** (Levring 1974).

Sahlingia subintegra (Rosenvinge) Kornmann

= *Erythrocladia subintegra* Rosenvinge – **M** (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Bangiales

Bangiaceae

Bangia atropurpurea (Roth) C. Agardh

M (Schmidt 1931).

Porphyra carnea Grunow

M (Prud'homme van Reine *et al.* 1994).

Porphyra leucosticta Thuret

M (Levring 1974).

Porphyra umbilicalis (Linné) J. Agardh

= *Porphyra laciniata* (Lightfoot) C. Agardh – **M** (Menezes 1926).

Floridiophycidae

Acrochaetiales

Acrochaetiaceae

Acrochaetium canariense Børgesen

M (Levring 1974, Augier 1985).

Acrochaetium codii (P. Crouan *et* H. Crouan)

Garbary

= *Rhodothamniella codii* (P. Crouan) J. Feldmann – **M** and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Acrochaetium crassipes (Børgesen) Børgesen

M (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Acrochaetium daviesii (Dillwyn) Nägeli

M (Levring 1974).

Acrochaetium liagorae Børgesen

PS (Audiffred and Prud'homme van Reine 1985).

Acrochaetium occidentale Børgesen

M (Levring 1974).

Acrochaetium parvulum (Kylin) Hoyt

M (Levring 1974).

Acrochaetium pulchellum Børgesen

M (Levring 1974).

Acrochaetium* cf. *repens Børgesen

Selvagens (Audiffred and Weisscher 1984).

Acrochaetium robustum Børgesen

M (Levring 1974, Augier 1985).

Acrochaetium secundatum (Lyngbye) Nägeli and Cramer

= *Acrochaetium virgatulum* (Harvey) Bornet – **SP** (Weisscher 1983).

Audouinella membranacea (Magnus) Papenfuss

M (Pedersen 1983).

Colaconema savianum (Meneghini) Nielsen

= *Acrochaetium thuretii* (Bornet) Collins *et* Herv. – **M** (Levring 1974).

Rhodothamniella floridula (Dillwyn) Feldmann

= *Rhodochorton floridulum* (Dillwyn.) Nägeli – **M** (Levring 1974).

Schmitziella endophloea Bornet *et* Batters

M (Levring 1974).

Nemaliales

Liagoraceae

Helminthocladia calvadosii (J. V. Lamouroux *ex* Duby) Setchell

M (Levring 1974).

Helminthocladia stackhousei (Clemente) Cremades

= *Helminthora divaricata* (C. Agardh) J. Agardh – **M** (Levring 1974).

Liagora canariensis Børgesen

M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985); **DG** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Audiffred and Weisscher 1984).

Liagora ceranoides J. V. Lamouroux

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Kvaterick and Afonso-Carrillo 1995); **PS** (Audiffred and Prud'homme van Reine 1985); **Selvagens** (Kvaterick and Afonso-Carrillo 1995); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Liagora pulverulenta* C. Agardh – **M** (Menezes 1926).

Liagora distenta (Mertens *ex* Roth) C. Agardh

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Kvaterick and Afonso-Carrillo 1995); **PS** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **Selvagens** (Kvaterick and Afonso-

Carrillo 1995); **SG** and **SP** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Liagora complanata* C. Agardh – **Selvagens** (Pickering and Hansen 1969).

Liagora gymnarthron Børgesen

M (Kvaterick and Afonso-Carrillo 1995); **SG** (cf., Audiffred and Weisscher 1981).

Liagora maderensis Kützing

M (Kvaternik and Afonso-Carrillo 1995).

Liagora tetrasporifera Børgesen

PS (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Liagora valida Harvey

M (Levring 1974, Augier 1985).

= *Liagora fragilis* Zanardini – **M** (Prud'homme van Reine *et al.* 1994).

Liagora viscida (Forskål) C. Agardh

PS (Audiffred and Prud'homme van Reine 1985, Kvaterick and Afonso-Carrillo 1995).

Galaxauraceae

Galaxaura obtusata (J. Ellis *et* Solander) J. V. Lamouroux

= *Galaxaura umbellata* Montagne – **M** (Gain 1914).

Galaxaura rugosa (J. Ellis *et* Solander) J. V. Lamouroux

SG (Audiffred and Weisscher 1984).

= *Galaxaura flagelliformis* Kjellman – **M** (Weisscher 1983, Audiffred and Weisscher 1984); **Selvagens** (Pickering and Hansen 1969); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984);

= *Galaxaura squalida* Kjellman – **SG** (Audiffred and Weisscher 1984).

Scinaia complanata (Collins) Cotton

M and **DG** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Scinaia furcellata (Turner) J. Agardh

M and **DG** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Tricleocarpa fragilis (Linné) Huisman *et* Townsend
= *Galaxaura oblongata* (J. Ellis *et* Solander) J. V.
Lamouroux – **Selvagens** (Pickering and Hansen
1969); **SG** (Levring 1974, Gil-Rodríguez *et al.*
1978).

Gelidiales
Gelidiaceae

Gelidiopsis intricata (C. Agardh) Vickers
DG and **SG** (Audiffred and Prud'homme van Reine
1985).

Gelidium corneum (Hudson) J. V. Lamouroux
M (Menezes 1926, Levring 1974); **DG** (Gain 1914).

Gelidium crinale (Turner) Gaillon
M (Menezes 1926); **SG** (Levring 1974, Gil-Rodríguez
et al. 1978).

Gelidium microdon Kützing
= *Gelidium spinulosum* (C. Agardh) J. Agardh –
M (Levring 1974, Prud'homme van Reine *et al.*
1994).

Gelidium pulvinatum (Kützing) Thuret *ex* Bornet
M (Grunow 1868, Prud'homme van Reine *et al.*
1994).

Gelidium pusillum (Stackhouse) Le Jolis
M (Levring 1974, Weisscher 1983, Audiffred and
Weisscher 1984, Audiffred and Prud'homme van
Reine 1985, Augier 1985); **DG** (Levring 1974,
Weisscher 1983, Audiffred and Weisscher 1984, Au-
diffred and Prud'homme van Reine 1985); **SG**
(Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher
1983, Audiffred and Weisscher 1984, Audiffred and
Prud'homme van Reine 1985); **SP** (Weisscher 1983,
Audiffred and Weisscher 1984, Audiffred and Prud'-
homme van Reine 1985).

Gelidium spathulatum (Kützing) Bornet
M (Levring 1974).

Pterocladia capillacea (Gmelin) Santelices *et* Hom-
mersand
M (Levring 1974, Audiffred and Prud'homme van
Reine 1985, Augier 1985); **PS** and **DG** (Audiffred and
Prud'homme van Reine 1985); **SG** (Gain 1914, Audif-
fred and Prud'homme van Reine 1985).

Gelidiellaceae

Gelidiella ramellosa (Kützing) J. Feldmann *et* G. Ha-
mel
M (Augier 1985); **SG** (Levring 1974, Gil-Rodríguez
et al. 1978).

Gelidiella pannosa (J. Feldmann) J. Feldmann *et*
G. Hamel
= *Gelidiella tenuissima* J. Feldmann and G. Hamel
– **M** (Levring 1974, Weisscher 1983, Audiffred and
Weisscher 1984); **SG** (Audiffred and Weisscher
1984); **SP** (Weisscher 1983, Audiffred and
Weisscher 1984).

Gracilariales
Gracilariaceae

Gracilaria armata (C. Agardh) Greville
M (Levring 1974).

Gracilaria conferta (Schousboe *ex* Montagne) J. Feld-
mann *et* G. Feldmann
M (Prud'homme van Reine *et al.* 1994).

Gracilaria verrucosa (Hudson) Papenfuss
M and **DG** (Levring 1974, Audiffred and Prud'-
homme van Reine 1985); **PS** (Audiffred and Prud'-
homme van Reine 1985); **Desertas** (Cabioch 1974).

Bonnemaisoniales
Naccariaceae

Atractophora hypnoides P. Crouan *et* H. Crouan
M (Levring 1974).

Bonnemaisoniaceae

Asparagopsis armata Harvey
M (Levring 1974, Audiffred and Weisscher 1984, Au-
diffred and Prud'homme van Reine 1985, Augier
1985); **PS** (Audiffred and Prud'homme van Reine
1985); **DG** (Levring 1974, Audiffred and Weisscher
1984, Audiffred and Prud'homme van Reine 1985);
SG (Audiffred and Weisscher 1984, Audiffred and
Prud'homme van Reine 1985).

Phase *Falkenbergia rufolanosa* (Harvey) F. Schmitz
M (Neto, personal observations).

Asparagopsis taxiformis (Delile) Trevisan
M and **DG** (Levring 1974, Weisscher 1983, Audiffred
and Weisscher 1984, Audiffred and Prud'homme van
Reine 1985); **PS** (Audiffred and Prud'homme van
Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.*
1978, Weisscher 1983, Audiffred and Weisscher 1984,
Audiffred and Prud'homme van Reine 1985); **SP**
(Weisscher 1983, Audiffred and Weisscher 1984, Au-
diffred and Prud'homme van Reine 1985).

Phase *Falkenbergia hillebrandii* (Bornet) Falkenberg
PS and **DG** (Audiffred and Prud'homme van Reine
1985); **SG** (Audiffred and Weisscher 1984, Audiffred
and Prud'homme van Reine 1985); **SP** (Weisscher
1983, Audiffred and Weisscher 1984, Audiffred and
Prud'homme van Reine 1985).

Cryptonemiales
Acrosymphytaceae

Acrosymphyton purpuriferum (J. Agardh) G. Sjöstedt
M and **DG** (Levring 1974, Audiffred and Prud'-
homme van Reine 1985).

Dumontiaceae

Dudresnaya verticillata (Withering) Le Jolis
M (Levring 1974, Audiffred and Weisscher 1984, Au-
diffred and Prud'homme van Reine 1985); **PS** (Audif-

fred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Halymeniaceae

Cryptonemia lomation (Bertolini) J. Agardh
M (Levring 1974).

Grateloupia filicina (J. V. Lamouroux) C. Agardh
M (Schmidt 1931).

Halymenia floresia (Clemente y Rubio) C. Agardh
M (Levring 1974).

Halymenia hancockii Taylor
PS (Audiffred and Prud'homme van Reine 1985).

Kallymeniaceae

Kallymenia reniformis (Turner) J. Agardh
M (Levring 1974, Augier 1985).

Meredithia microphylla (J. Agardh) J. Agardh
= *Kallymenia microphylla* J. Agardh – **M** (Levring 1974).

Gloiosiphoniaceae

Thuretella schousboei (Turpin) F. Schmitz
M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Peyssonneliaceae

Peyssonnelia armorica (P. Crouan et H. Crouan) Weber-van Bosse
= *Cruoriopsis rosenvingii* Børgesen – **M** (Levring 1974).

Peyssonnelia dubyi P. L. Crouan et H. M. Crouan
M and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez et al. 1978, Audiffred and Prud'homme van Reine 1985).

Peyssonnelia inamoena Pilger
PS and **DG** (Audiffred and Prud'homme van Reine 1985).

Peyssonnelia rubra (Greville) J. Agardh
M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **Desertas** (Cabioch 1974); **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Polystrata dura Heydrich
DG (Cabioch, 1974).

Hildenbrandiales

Hildenbrandiaceae

Hildenbrandia rubra (Sommerfelt) Meneghini
= *Hildenbrandia prototypus* Nardo – **M** (Levring 1974).

Corallinales

Corallinaceae

Amphiroa beauvoisii J. V. Lamouroux
M (Levring 1974, Augier 1985).

Amphiroa cryptarthrodia Zanardini
M (Levring 1974, Audiffred and Weisscher 1984); **SG** (Audiffred and Weisscher 1984).

Amphiroa ? fragilissima (Linné) J. V. Lamouroux –
M (Levring 1974). Material not found in the Levring collections at the time of this study.

Amphiroa rigida J. V. Lamouroux
M (Levring 1974).

Choreonema thuretii (Bornet) F. Schmitz
M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS**, **DG** and **SG** (Levring 1974, Gil-Rodríguez et al. 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Corallina elongata J. Ellis et Solander
M and **SG** (Prud'homme van Reine et al. 1994); **DG** (Audiffred and Prud'homme van Reine 1985).
= *Corallina mediterranea* Areschoug – **SG** and **SP** (Gil-Rodríguez et al. 1978).

Corallina officinalis Linné
M (Menezes 1926, Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Menezes 1926, Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Paula et al. 1992); **DG** (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **SG** (Piccone 1884, Gain 1914, Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Haliptilon virgatum (Zanardini) Garbary et J. W. Johansen
M (Prud'homme van Reine et al. 1994); **DG** (Audiffred and Prud'homme van Reine 1985).

= *Corallina granifera* J. Ellis et Solander – **M**, **SG** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Jania granifera* Decaisne – **SG** (Gain and Mirande 1912, Gain 1914).

Hydrolithon farinosum (J. V. Lamouroux) D. Penrose et Y. M. Chamberlain

= *Fosliella farinosa* (J. V. Lamouroux) Howe – **M** and **SG** (Audiffred and Weisscher 1984, Audiffred

and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974); **DG** (Audiffred and Weisscher 1984); **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Melobesia farinosa* J. V. Lamouroux – **M** (Piccone 1884, Levring 1974, Weisscher 1983, Augier 1985); **Desertas**, **SP** and **IF** (Weisscher 1983); **SG** (Piccone 1884).

Jania adhaerens J. V. Lamouroux

PS (Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Jania capillacea Harvey

PS (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Jania corniculata (Linné) J. V. Lamouroux

PS (Audiffred and Prud'homme van Reine 1985).

Jania longifurca Zanardini

M (Levring 1974).

Jania pumila J. V. Lamouroux

SG (Levring 1974, Gil-Rodríguez *et al.* 1978).

Jania rubens (Linné) J. V. Lamouroux

M (Gain 1914, Menezes 1926, Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Weisscher 1983); **SG** and **SP** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

= *Corallina rubens* Lamouroux – **DG** (Gain 1914).

Lithophyllum corallinae (P. Crouan *et* H. Crouan) Heydrich

= *Dermatolithon corallinae* (P. Crouan) Foslie – **M** (Levring 1974, Augier 1985); **PS** (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Lithophyllum frondosum (Dufour) Furnari, Cormaci *et* Alongi

= *Melobesia strictaeformis* Areschough – **SG** (Piccone 1884).

= *Crodelia expansa* (Philippi) Kylin – **M** (Levring 1974, Augier 1985).

= *Lithophyllum expansum* Philippi forma *strictaeformis* (Areschough) Foslie – **SG** (Prud'homme van Reine *et al.* 1994).

Lithophyllum incrustans Philippi

M (Levring 1974, Augier 1985).

Lithophyllum orbiculatum (Foslie) Foslie

= *Crodelia orbiculata* (Foslie) Kylin – **M** (Levring 1974, Augier 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Lithophyllum pustulatum (J. V. Lamouroux) Foslie

= *Dermatolithon pustulatum* (J. V. Lamouroux) Foslie – **M** (Levring 1974, Augier 1985).

= *Dermatolithon hapalidioides* (P. L. Crouan *et* H. M. Crouan) Foslie – **M** and **PS** (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Lithophyllum vickersiae Lemoine

M (Levring 1974, Weisscher 1983); **SP** (Weisscher 1983).

Lithothamnion corallioides P. Crouan *et* H. Crouan

Desertas (Cabioch 1974).

= *Lithophyllum solutum* (Foslie) Lemoine – **SP** (Weisscher 1983).

Lithothamnion sonderi Hauck

M and **DG** (Levring 1974).

Melobesia membranacea (Esper) J. V. Lamouroux

= *Epilithon membranaceum* (Esper) Heydrich – **M** (Levring 1974, Augier 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Mesophyllum canariense (Foslie) Lemoine

M (Levring 1974, Reyes and Afonso-Carrillo, 1993).

Phymatolithon calcareum (Pallas) W. H. Adey *et* D. L. McKibbin

= *Lithothamnion calcareum* (Pallas) Areschough – **M** (Levring 1974).

Phymatolithon lenormandii (Areschoug) W. H. Adey

= *Lithothamnion lenormandii* (Areschoug) Foslie – **M** (Levring 1974, Augier 1985); **PS** and **DG** (Levring 1974).

Pneophyllum confervicola (Kützinger) Y. M. Chamberlain

= *Melobesia minutula* Foslie – **M** and **SP** (Levring 1974, Weisscher 1983); **Desertas** (Cabioch 1974, Weisscher 1983).

Pneophyllum fragile Kützinger

= *Melobesia lejolisii* Rosanoff – **M** (Levring 1974).

Spongites fruticosus Kützinger

= *Lithothamnion fruticosum* (Kützinger) Foslie – **Desertas** (Cabioch 1974).

Gigartinales

Wurde mann iaceae

Wurde mann i miniata (Sprengel) J. Feldmann *et* G. Hamel

M, **SG**, **SP** and **IF** (Audiffred and Weisscher 1984).

= *Wurde mann i setacea* Harvey – **M** (Levring 1974, Weisscher 1982, 1983); **SP** (Weisscher 1983); **IF** (Weisscher 1982, 1983).

Nemastomataceae

Nemastoma dichotomum J. Agardh
M (Levring 1974).

Nemastoma gelatinosum Howe
M (Levring 1974).

Schizymeniaceae

Platoma cyclocolpa (Montagne) F. Schmitz
M (Levring 1974, Weisscher 1983); **SP** (Weisscher 1983).

Schizymenia dubyi (Chauvin ex Duby) J. Agardh
M (Levring 1974).

Solieriaceae

Meristotheca decumbens Grunow
M (Prud'homme van Reine *et al.* 1994).
= *Rhabdonia decumbens* (Grunow) Grunow- M (Levring 1974).

Phylloporaceae

Gymnogongrus griffithsiae (Turner) Martius
M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Prud'homme van Reine 1985).

Gigartinaceae

Chondracanthus acicularis (Roth) Fredericq
= *Gigartina acicularis* (Roth) J. V. Lamouroux – M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Piccone 1884, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Gigartina pistillata (S. Gmelin) Stackhouse
M (Levring 1974).

Sphaerococcaceae

Sphaerococcus coronopifolius Stackhouse
M (Levring 1974).

Furcellariaceae

Halarachnion ligulatum (Woodward) Kützing
PS (Audiffred and Prud'homme van Reine 1985).

Hypneaceae

Hypnea musciformis (Wulfen) J. V. Lamouroux
M (Menezes 1926, Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Haroun and Prud'homme

van Reine 1993); **PS** and **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974); **Selvagens** (Haroun and Prud'homme van Reine 1993); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Hypnea spinella (C. Agardh) Kützing
M and **Selvagens** (Haroun and Prud'homme van Reine 1993).

= *Hypnea cervicornis* J. Agardh – M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Caulacanthaceae

Catenella caespitosa (Withering) L. M. Irvine
M and **DG** (Audiffred and Prud'homme van Reine 1985).
= *Catenella repens* (Lightfoot) Batters – M and **DG** (Levring 1974).

Caulacanthus ustulatus (Turner) Kützing
M (Levring 1974, Augier 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Feldmannophycus rayssiae (J. Feldmann *et* G. Feldmann) Augier *et* Boudouresque
SG (Audiffred and Weisscher 1984).

Cystocloniaceae

Rhodophyllis divaricata (Stackhouse) Papenfuss
M (Neto, personal observations).

Plocamiales

Plocamiaceae

Plocamium cartilagineum (Linné) Dixon
M, **DG** and **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).
= *Plocamium coccineum* (Hudson) Lygnbye – M (Gain 1914, Levring 1985); **DG** (Gain 1914).

Rhodymeniales

Rhodymeniaceae

Botryocladia boergesenii J. Feldmann
SG (Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Botryocladia botryoides (Wulfen) J. Feldmann

M (Levring 1974, Audiffred and Weisscher 1984, Augier 1985); **SG** (Audiffred and Weisscher 1984).

= *Chrysomenia uvaria* (Linné) J. Agardh – **SG** (Gain and Mirande 1912, Gain 1914).

Botryocladia chiajeana (Meneghini) Kylin

M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985).

Botryocladia guineensis John

PS (Audiffred and Prud'homme van Reine 1985).

Botryocladia microphysa (Hauck) Kylin

M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Chrysomenia bullosa Levring

M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Gloioderma saccatum (J. Agardh) Kylin

= *Chrysomenia saccata* Schmitz *ex* Menezes – **M** (Menezes 1926).

Rhodymenia pseudopalmata (J. V. Lamouroux) P. C. Silva

M and **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985).

= *Rhodymenia palmetta* (Esper) Greville – **M** (Levring 1974).

Champiaceae

Champia parvula (C. Agardh) Harvey

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** and **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Chylocladia verticillata (Lightfoot) Bliding

PS (Audiffred and Prud'homme van Reine 1985).

Lomentariaceae

Lomentaria articulata (Hudson) Lyngbye

M (Gil-Rodríguez *et al.* 1978, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (? Gil-Rodríguez *et al.* 1978, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Gain 1914, Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Ceramiales

Ceramiales

Aglaothamnion byssoides (Arnott *ex* Harvey) L'Hardy-Halos *et* Rueness

= *Callithamnion byssoides* Arnott – **M** (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Paula *et al.* 1992); **DG** (Levring 1974, Audiffred and Prud'homme van Reine, 1985).

= *Aglaothamnion furcellariae* (J. Agardh) Feldmann-Mazoyer – **M**, **DG** and **SP** (Weisscher 1983).

Aglaothamnion hookeri (Dillwyn) Maggs *et* Hommersand

= *Callithamnion brodiaei* Harvey – **M** (Levring 1974, Augier 1985).

Anotrichium barbatum (C. Agardh) Nägeli

= *Griffithsia barbata* (J. E. Smith) C. Agardh – **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Anotrichium furcellatum (J. Agardh) Baldock

= *Corynospora furcellata* (J. Agardh) Levring – **M** and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Anotrichium tenue (C. Agardh) Nägeli

= *Griffithsia tenuis* C. Agardh – **M** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Antithamnion cruciatum (C. Agardh) Nägeli

M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Antithamnionella boergesenii (Cormaci *et* Furnari) Athanasiadis

= *Antithamnion elegans* Berthold – **M** (Levring 1974, Weisscher 1983, Augier 1985); **SG** and **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1983).

Antithamnionella spirographidis (Schiffner) Wollaston

= *Antithamnion spirographidis* Schiffner – **M** (Levring 1974, Augier 1985).

Callithamnion corymbosum (J. E. Smith) Lyngbye
M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Callithamnion tetragonum (Withering) Gray
M (Levring 1974, Augier 1985).

Centroceras clavulatum (C. Agardh) Montagne
M (Levring 1974, Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Gil-Rodríguez *et al.* 1978, Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Ceramium ciliatum (J. Ellis) Ducluzeau
M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **SG** (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Ceramium codii (Richards) Feldmann-Mazoyer
SG (Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Ceramium comptum Børgesen
Desertas (Cabioch 1974).

Ceramium deslongchampsii Chauvin *ex* Duby
 = *Ceramium strictum* (Kützinger) Harvey – **M** (Menezes 1926, Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Ceramium diaphanum (Lightfoot) Roth
M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Au-

diffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Ceramium elegans* Ducluzeau – **DG** (Gain 1914); **SG** (Gain and Mirande 1912).

= *Ceramium tenuissimum* (Roth) J. Agardh – **Desertas** (Cabioch 1974, Weisscher 1983); **SG** (Gil-Rodríguez *et al.* 1978, Weisscher 1983); **SP** (Weisscher 1983).

Ceramium echionotum J. Agardh

M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Ceramium flaccidum (Kützinger) Ardissoni

= *Ceramium gracillimum* (Kützinger) Griffiths *et* Harvey – **M** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** and **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Ceramium gracillimum* var. *byssoides* (Harvey) Mazoyer – **M** and **SP** (Weisscher 1983).

Ceramium nodulosum (Lightfoot) Ducluzeau

= *Ceramium rubrum* C. Agardh – **M** (Gain 1914, Menezes 1926, Levring 1974, Audiffred and Weisscher 1984); **PS** (Paula *et al.* 1992); **DG** (Gain 1914, Audiffred and Weisscher 1984); **SG** (Gil-Rodríguez *et al.* 1978, Audiffred and Weisscher 1984).

Compsothamnion thuyoides (J. E. Smith) Nägeli

M (Levring 1974); **SG** (Gil-Rodríguez *et al.* 1978).

= *Compsothamnion gracillimum* (Harvey) Nägeli – **M** (Levring 1974).

Crouania attenuata (C. Agardh) J. Agardh

M and **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** and **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Griffithsia capitata Børgesen

M (Levring 1974).

Griffithsia opuntioides J. Agardh

M (Levring 1974).

Griffithsia schousboei Montagne

M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

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

M (Levring 1974).

Monosporus pedicellatus (J. E. Smith) Solier

= *Corynospora pedicellata* (J. E. Smith) J. Agardh – **M** (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Pleonosporium borrevi (J. E. Smith) Nägeli *ex* Hauck

M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985); **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

Pterothamnion plumula (Ellis) Nägeli

M (Schmidt 1931).

Ptilothamnion pluma (Dillwyn) Thuret

SG (Audiffred and Weisscher 1984).

Spyridia filamentosa (Wulfen) Harvey

M (Gain 1914, Menezes 1926, Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Spyridia hypnoides (Bory) Papenfuss

M, **SG** and **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

= *Spyridia aculeata* (Schimper) Kützing – **M** (Levring 1974, Weisscher 1983); **SP** (Weisscher 1983).

Tiffaniella gorgonea (Montagne) Doty *et* Meñez

= *Spermothamnion gorgoneum* (Montagne) Bornet – **SG** (Audiffred and Weisscher 1984).

Vickersia baccata (J. Agardh) Karsakoff

SG (Gil-Rodríguez *et al.* 1978, Audiffred and Weisscher 1984).

Wrangelia argus (Montagne) Montagne

M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Wrangelia penicillata (C. Agardh) C. Agardh

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Delesseriaceae

Acrosorium venulosum (Zanardini) Kylin

= *Acrosorium uncinatum* (Turner) Kylin – **M** (Levring 1974, Augier 1985); **Desertas** (Cabioch 1974).

= *Nitophyllum uncinatum* Greville – **M** (Menezes 1926).

Apoglossum ruscifolium (Turner) J. Agardh

M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974); **DG** (Audiffred and Prud'homme van Reine 1985).

Cottoniella filamentosa (M. Howe) Børgesen

M (Levring 1974, Augier 1985).

= *Cottoniella arcuata* Børgesen var. *fusiformis* Cormaci *et* Furnari – **M**, **SG** and **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974).
= *Cottoniella fusiformis* Børgesen – **M** (Levring 1974, Weisscher 1983, Augier 1985); **SP** (Weisscher 1983).

Cryptopleura ramosa (Hudson) Kylin *ex* L. Newton

M and **DG** (Levring 1974, Audiffred and Prud'homme van Reine 1985).

= *Acrosorium reptans* (P. L. Crouan *et* H. M. Crouan) Kylin – **DG** (Audiffred and Prud'homme van Reine 1985).

Drachiella minuta (Kylin) Maggs *et* Hommersand

= *Myriogramme minuta* Kylin – **PS** (Audiffred and Prud'homme van Reine 1985).

Erythroglossum laciniatum (Lightfoot) Maggs *et* Hommersand

= *Polyneura laciniata* (Lightfoot) P. Dixon – **M** (Prud'homme van Reine *et al.* 1994).

= *Porphyra laciniata* C. Agardh – **M** (Menezes 1926).

Erythroglossum sandrianum (Zanardini) Kylin

M (Levring 1974).

Haraldia lenormandii (Derbès *et* Solier) J. Feldmann

PS and **DG** (Audiffred and Prud'homme van Reine 1985).

Hypoglossum hypoglossoides (Stackhouse) Collins *et* Harvey

= *Hypoglossum woodwardii* Kützing – **M** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974); **DG** and **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Nitophyllum punctatum (Stackhouse) Greville
M (Levring 1974).

Platysiphonia delicata (Clemente y Rubio) Cremades
= *Platysiphonia miniata* (C. Agardh) Børgesen – **SP** (Weisscher 1983).

Taenioma nanum (Kützing) Papenfuss
= *Taenioma macrourum* Thuret – **M** (Levring 1974).

Taenioma perpusillum (J. Agardh) J. Agardh
M (Weisscher 1983); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dasyaceae

Dasya baillouviana (S. Gmelin) Montagne
M and **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).
= *Dasya pedicellata* C. Agardh – **M** (Levring 1974).

Dasya corymbifera J. Agardh
M (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Dasya hutchinsiae Harvey
M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Prud'homme van Reine 1985).
= *Dasya arbuscula* (Dillwyn) C. Agardh – **SG** (Menezes 1926, Audiffred and Weisscher 1984).

Dasya ocellata (Grateloup) Harvey
M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985).

Dasya rigidula (Kützing) Ardissonne
M (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

fred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Halydictyon mirabile Zanardini

PS (Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Heterosiphonia crispella (C. Agardh) M. J. Wynne
= *Heterosiphonia wurdemanni* (Baillard) Falkenberg – **M** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).
= *Heterosiphonia crispella* var. *laxa* (Børgesen) Wynne – **M** (Prud'homme van Reine *et al.* 1994).

Rhodomelaceae

Alsidium corallinum C. Agardh

M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Boergeseniella fruticulosa (Wulfen) Kylin
DG (Audiffred and Prud'homme van Reine 1985).

Chondria capillaris (Hudson) Wynne
= *Chondria tenuissima* (Goodenough *et* Woodward) C. Agardh – **M** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Chondria coerulescens (J. Agardh) Falkenberg
M (Levring 1974).

Chondria dasyphylla (Woodward) C. Agardh
M (Menezes 1926, Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Chondrophyucus corallopsis (Montagne) Garbary *et* Harper
= *Laurencia corallopsis* (Montagne) M. Howe – **Selvagens** (Gil-Rodríguez and Haroun 1992 in John *et al.* 1994).

Chondrophycus perforatus (Bory de Saint-Vincent) K. W. Nam

= *Laurencia perforata* (Bory de Saint-Vincent) Montagne – **M** (Audiffred and Weisscher 1984); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Audiffred and Weisscher 1984).

Ctenosiphonia hypnoides (Welwitsch *ex* J. Agardh) Falkenberg

PS (Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985).

Dipterosiphonia dendritica (C. Agardh) F. Schmitz

M and **PS** (Levring 1974, Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Dipterosiphonia rigens (Schousboe *ex* C. Agardh) Falkenberg

M (Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985).

Erythrocytis montagnei (Derbès *et* Solier) P. C. Silva **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **SG**, **SP** and **IF** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Ricardia montagnei* Derbès and Solier – **SG** (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983); **SP** (Weisscher 1983); **IF** (Weisscher 1982, 1983).

Halopithys incurvus (Hudson) Batters

M and **PS** (Levring 1974, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992).

Herposiphonia secunda (C. Agardh) Ambronn – **M** (Levring 1974, Weisscher 1983); **SG** (Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983); **SP** (Weisscher 1983).

= *Herposiphonia tenella* (C. Agardh) Ambronn – **M** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **Desertas** (Cabioch 1974); **DG** and **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine, 1985); **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

= *Herposiphonia tenella* var. *secunda* Hollenberg – **M**, **SG** and **SP** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985).

Janczewskia verrucaeformis Solms-Laubach

M (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Laurencia flexilis Setchell

Selvagens (Gil-Rodríguez and Haroun 1992 in John *et al.* 1994).

Laurencia glandulifera (Kützing) Kützing

= *Laurencia paniculata* (C. Agardh) J. Agardh – **PS** (Audiffred and Prud'homme van Reine 1985).

Laurencia majuscula (Harvey) Lucas

M (Prud'homme van Reine *et al.* 1994).

Laurencia microcladia Kützing

PS (Cancap IV: 4097, 4098).

Laurencia obtusa (Hudson) J. V. Lamouroux

M (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Gil-Rodríguez and Haroun 1992, Prud'homme van Reine *et al.* 1994); **PS** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Gain 1914, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Gil-Rodríguez and Haroun 1992); **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Gil-Rodríguez and Haroun 1992).

Laurencia viridis Gil-Rodríguez *et* Haroun

PS, **SP** and **IF** (Gil-Rodríguez and Haroun 1992).

Lophocladia trichoclados (C. Agardh) F. Schmitz

M (Levring 1974, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985).

Lophosiphonia cristata Falkenberg

SG (Audiffred and Weisscher 1984).

Lophosiphonia reptabunda (Suhr *ex* Kützing) Kylin

PS and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Lophosiphonia obscura (C. Agardh) Falkenberg

M (Levring 1974).

Osmundea hybrida (De Candolle) K. W. Nam

M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Osmundea osmunda (S. Gmelin) Maggs *et* Hommersand

= *Laurencia pinnatifida* (Hudson) J. V. Lamouroux var. *osmunda* (S. Gmelin) Kützing – **M** (Prud'homme van Reine *et al.* 1994).

Osmundea pinnatifida (Hudson) Stackhouse

M (Menezes 1926, Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **PS** (Paula *et al.* 1992); **DG** (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Polysiphonia atlantica Kapraun *et* J. N. Norris

= *Polysiphonia macrocarpa* Harvey – **M** (Levring 1974, Weisscher 1982, 1983, Audiffred and Weisscher 1984); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1982, 1983, Audiffred and Weisscher 1984); **SP** and **IF** (Weisscher 1982, 1983, Audiffred and Weisscher 1984).

Polysiphonia brodiaei (Dillwyn) Sprengel

M (Levring 1974); **DG** (Gain 1914); **SG** (Gain and Mirande 1912, Levring 1974, Gil-Rodríguez *et al.* 1978).

Polysiphonia denudata (Dillwyn) Greville *ex* Harvey

M (Levring 1974, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** and **SG** (Audiffred and Prud'homme van Reine 1985).

Polysiphonia elongata (Hudson) Sprengel

M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **PS** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Polysiphonia erythraea (Schousboe) J. Agardh

SG (Gain and Mirande 1912, Gain 1914, Levring 1974, Gil-Rodríguez *et al.* 1978).

Polysiphonia ferulacea Suhr *ex* J. Agardh

M and **DG** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Polysiphonia flexella (C. Agardh) J. Agardh

PS (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Polysiphonia foetidissima Cocks *ex* Bornet

SP (Weisscher 1983).

Polysiphonia fucoides (Hudson) Greville

= *Polysiphonia violacea* (Roth) Greville – **M** (Levring 1974, Audiffred and Prud'homme van Reine 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985).

= *Polysiphonia violacea* var. *subulata* (Ducluzeau) Hauck – **PS** and **SG** (Audiffred and Prud'homme van Reine 1985).

Polysiphonia furcellata (C. Agardh) Harvey

M (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985, Prud'homme van Reine *et al.* 1994); **PS** (Audiffred and Prud'homme van Reine 1985, Paula *et al.* 1992); **DG** (Levring 1974, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Polysiphonia havanensis Montagne

SG (Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Polysiphonia nutans Montagne

M (Levring 1974); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978).

Polysiphonia opaca (C. Agardh) Morris *et* De Notaris

M (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **PS** and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985, Augier 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Polysiphonia scopulorum Harvey

= *Lophosiphonia scopulorum* (Harvey) Womersley – **DG** (Levring 1974, Weisscher 1983, Audiffred and Prud'homme van Reine 1985); **SG** and **SP** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Prud'homme van Reine 1985).

Polysiphonia sertularioides (Grateloup) J. Agardh

PS (Paula *et al.* 1992).

Polysiphonia sphaerocarpa Børgesen

SG (Audiffred and Weisscher 1984); **SP** (Weisscher 1983, Audiffred and Weisscher 1984).

Polysiphonia subulata (Ducluzeau) J. Agardh

M and **SG** (Audiffred and Weisscher 1984).

Polysiphonia tepida Hollenberg

DG (Audiffred and Prud'homme van Reine 1985).

Polysiphonia tripinnata J. Agardh

PS and **DG** (Audiffred and Prud'homme van Reine 1985); **SG** (Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Rytidhlaea tinctoria (Clemente y Rubio) C. Agardh

M and **PS** (Levring 1974, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SG** (Levring 1974, Gil-Rodríguez *et al.* 1978, Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985); **SP** (Weisscher 1983, Audiffred and Weisscher 1984, Audiffred and Prud'homme van Reine 1985).

Table I. Comparison of the marine flora from selected Macaronesian archipelagos.

	Chlorophycota	Chromophycota	Rhodophycota	Total	References
Azores	48	66	193	307	Neto (1994)
Canaries	110	118	370	598	Afonso Carrillo & Sanson (1999)
Madeira	64	64	231	359	This study

Doubtful records

Amphiroa verruculosa Kützinger
M (Grunow 1868).

Ceramium fastigiatum (Roth) Harvey
M (Piccone 1884, Prud'homme van Reine *et al.* 1994). Material could not be located in W. herbarium. It might be *C. diaphanum* (Lightfoot) Roth or *C. cimbricum* H. Petersen.

Chondria curvilineata Collins *et al.* Harvey
SP (Weisscher 1983). Only a photograph and drawing were found. Specimen was missing from L collections.

Corallina intermedia Grunow
M (Grunow 1868). It might be a variety of *Jania rubens* (Linné) J. V. Lamouroux.

Dasya arbuscula (Dillwyn) C. Agardh
SG (Gain 1914). The status of this entity is uncertain and requires further investigation according to Dixon (1960) and Maggs and Hommersand (1993).

Fucus vesiculosus Linné
M (Bornet 1892).

Gymnogongrus parthenopaeus Kützinger
M (Grunow 1868). Possibly *Gymnogongrus griffithsiae* (Turner) Martens.

Halitilton squamatum (J. Ellis *et al.* Solander) John, Irvine *et al.* Webster
= *Corallina squamata* J. Ellis *et al.* Solander – M (Grunow 1868).

Halymenia bermudensis Collins *et al.* Howe
SP (Weisscher 1983). Only one small specimen found in L. Not possible to assign the specific name.

Laurencia cf. *nidifica* J. Agardh
DG (Audiffred and Prud'homme van Reine 1985).

Naccaria corymbosa J. Agardh
SG (Audiffred and Weisscher 1984). Possibly *Naccaria wiggii* (Turner) Endlicher.

References

Afonso-Carrillo, J. and M. Sansón. 1999. *Algas, hongos y fanerógamas marinas de las Islas Canarias. Clave analítica*. Servicio de Publicaciones, Universidad de La Laguna, Santa Cruz de Tenerife. pp. 254.

Polysiphonia cf. *ceramiaeformis* P. Crouan *et al.* H. Crouan
SP (Weisscher 1983).

Polysiphonia cf. *paniculata* Montagne
SG (Audiffred and Weisscher 1984).

Rhodophyllis maderensis Levring
M and PS (Levring 1974, Audiffred and Prud'homme van Reine 1985). Laboratory studies on this species indicate no clear difference with *Rhodophyllis divaricata* (Stackhouse) Papenfuss.

Sargassum ledingerum (Linné) C. Agardh forma *humilis* Grunow
M (Prud'homme van Reine *et al.* 1994). Material not found in W collections at the time of this study.

Summary

The number of macroalgal species found in the present study (Table I) is significantly lower than the ones recorded for the Canaries or the British Isles (642, see in Guiry 1997), but slightly higher than the one recorded for the Azores. The archipelago of Madeira, therefore, occupies an intermediate position between the Azores and the Canaries archipelagos. In agreement with Prud'homme van Reine and van den Hoek (1990) the marine algal flora of the Madeira archipelago is closely related to the flora of the Canaries, especially regarding the red algae, while the green and brown algal flora is more similar to that of the Azores.

Recent collections and personal observations indicate the number of species recorded for the Madeira archipelago and will increase in the near future.

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Audiffred, P. A. J. and F. L. M. Weisscher. 1984. Marine algae of Selvagem Grande (Salvage Islands, Macaronesia) (Cancap Project Contribution No.37). *Bol. Mus. Mun. Funchal* 36 (156): 5–37.

- Audiffred, P. A. J. and W. F. Prud'homme van Reine. 1985. Marine algae of Ilha do Porto Santo and Deserta Grande (Madeira Archipelago) (Cancap Project Contributions No.40). *Bol. Mus. Mun. Funchal* 37 (166): 20–51.
- Augier, H. 1985. Première contribution a la cartographie des biocenoses marines benthiques de l'île de Madère. *Bol. Mus. Mun. Funchal* 37 (168): 86–129.
- Bornet, E. 1892. Les algues de P.-K.-A. Schousboe, recoltées au Maroc et dans la Méditerranée de 1815 à 1829. *Mém. Soc. nat. Sci. nat. et Mat. Cherbourg* 28: 165–376, 3 pls.
- Brummitt, R. J. and C. E. Powell. 1992. *Authors of Plant Names. A List of Authors of Scientific Names of Plants, with Recommended Standard Forms of These Names Including Abbreviations*. Kew Royal Botanic Gardens. pp. 732.
- Cabioch, J. 1974. Un fond de maerl de l'Archipel de Madère et son peuplement végétal. *Bull. Soc. Phycol. France* 19: 74–82.
- de Jong, Y. S. D. M. and W. F. Prud'homme van Reine. 1997. A review of the genus *Nemacystus* (Spermatocnaceae, Chordariales, Phaeophyceae), including phylogenetic and biogeographical hypotheses. *Nova Hedwigia* 64: 1–40.
- Dixon, P. S. 1960. Taxonomic and nomenclatural notes on the Florideae. II. *Bot. Not.* 113: 295–319.
- Gain, L. 1914. Algues provenant des Campagnes de l'Hirondelle II (1911–1912). *Bull. Inst. Oceanogr. Monaco* 279: 1–23.
- Gain, L. and R. Mirande. 1912. Note sur les algues recueillies par M. L. Garreta aux îles Salvages et Canaries. *Bull. Mus. Hist. Nat.* 18: 479–481.
- Gil-Rodríguez, M. C. and R. J. Haroun. 1992. *Laurencia viridis* sp. nov. (Ceramiales, Rhodomelaceae) from the Macaronesian Archipelagos. *Bot. Mar.* 35: 227–237.
- Gil-Rodríguez, M. C., J. R. Acebes Ginoves and P. L. Perez de Paz. 1978. Contribución al estudio de la historia natural de las Islas Salvages. *Resultados de la Expedición Científica Agamenon* 76. Santa Cruz de Tenerife, Canarias: 45–72.
- Greuter, W., F. Barrie, H. M. Burdet, W. G. Chaloner, V. Demoulin, D. L. Hawksworth, P. M. Jorgensen, D. H. Nicolson, P. C. Silva, P. Trehane and J. McNeill (eds). 1994. *International Code of Botanical Nomenclature (Tokyo code) Adopted by the Fifteenth International Congress, Yokohama, August–September, 1993*. Koeltz Scientific Books, Königstein. pp. xviii + 389.
- Grunow, A. 1868. Algen der Navarra Expedition (1857–1859) from Madeira. In: (E. Fenzl, ed.) *Reise der Österreichischen Fregatte Navarra Expedition (1857–1859) from Madeira*. Botanischer Theil, 1. Sporenpflanzen. Kaiserl.-König L. Hof- und Staatsdruckerei, Wien. pp. 1–104, 11 tab.
- Guiry, M. D. 1997. Benthic red, brown and green algae. In: (C. M. Howson and B. E. Picton, eds) *The species directory of the marine fauna and flora of the British Isles and surrounding seas*. Ulster Museum Publication 276: 341–367.
- Haroun, R. J. and W. F. Prud'homme van Reine. 1993. A biogeographical study of *Laurencia* and *Hypnea* species of the Macaronesian Region. *Courier Forsch.-Inst. Senckenberg* 159: 119–125.
- Holmgren, P. K., N. H. Holmgren and L. C. Barnett. 1990. Index herbarium. Part I. The herbaria of the world. Eighth edition. *Regnum Vegetabile* 120: 1–693.
- Hörnig, I., R. Schnetter and W. F. Prud'homme van Reine. 1992 a. The genus *Dictyota* (Phaeophyceae) in the North Atlantic. I. A new generic concept and new species. *Nova Hedwigia* 54: 45–62.
- Hörnig, I., R. Schnetter and W. F. Prud'homme van Reine. 1992 b. The genus *Dictyota* (Phaeophyceae) in the North Atlantic. II. Key to the species. *Nova Hedwigia* 54: 397–402.
- Hörnig, I., R. Schnetter and W. F. Prud'homme van Reine. 1993. Additional notes to “The genus *Dictyota* (Phaeophyceae) in the North Atlantic. I. A new generic concept and new species.” Correction and validation of new combinations in the genus *Dictyota*. *Nova Hedwigia* 56: 169–171.
- John, D. M., G. W. Lawson, J. H. Price, W. F. Prud'homme van Reine and W. J. Woekering. 1994. Seaweeds of the western coasts of tropical Africa and adjacent islands: a critical assessment. IV. Rhodophyta (Florideae) 4. L-O. *Bull. Nat. Hist. Mus. London (Bot.)* 24 (1): 49–90.
- Kvaternik, D. and J. Afonso-Carrillo. 1995. The red algal genus *Liagora* (Liagoraceae, Rhodophyta) from the Canary Islands. *Phycologia* 34: 429–447.
- Levring, T. 1974. The marine algae of the Archipelago of Madeira. *Bol. Mus. Mun. Funchal* 28 (125): 5–111.
- Maggs, C. A. and M. H. Hommersand. 1993. *Seaweeds of the British Isles. V 1. Rhodophyta. Part 3A Ceramiales*. The Natural History Museum, London. pp. xv + 444.
- Menezes, C. A. 1926. Contribuição para o estudo das algas da Madeira. *Broteria, ser. bot.* 22: 71–78.
- Nam, K. W. 1999. Morphology of *Chondrophyucus undulata* and *C. parvipapillata* and its implications for the taxonomy of the *Laurencia* (Ceramiales, Rhodophyta) complex. *Eur. J. Phycol.* 34: 455–468.
- Neto, A. I. 1994. Checklist of the benthic marine macroalgae of the Azores. *Arquipélago. Life and Marine Sciences* 12 A: 15–34.
- Paula, J., M. T. Lopes and L. C. da Fonseca. 1992. Intertidal communities of rocky shores of Porto Santo island, following the “Aragon” oil spill. In: *Preliminary Assessment of the Effects of the Aragon Oil Spill in Porto Santo Island*. Laboratório Marítimo da Guia, Cascais. D1–D57+D1–DXVII.
- Pedersen, P. M. 1983. Notes on marine benthic algae from Madeira in nature and culture. *Bocagiana* 70: 1–8.
- Piccone, A. 1884. Crociera del Corsaro alle isole Madera e Canarie del capitano Enrico d'Albertis. Alghe. *Nuovo Giornale Botanico Italiano* 16: 1–60.
- Pickering, C. H. C. and A. Hansen. 1969. Scientific expedition to the Salvage Islands July 1963: list of higher plants and Cryptogams known from the Salvage Islands. *Bol. Mus. Mun. Funchal* 24: 63–72.
- Prud'homme van Reine, W. F. 1988. Phytogeography of seaweeds of the Azores. *Helgoländ. Wissenschaft. Meeresunters* 42: 165–185.
- Prud'homme van Reine, W. F. and C. van den Hoek. 1990. Biogeography of Macaronesian seaweeds. *Courier Forsch.-Inst. Senckenberg* 129: 55–73.

- Prud'homme van Reine, W. F., R. J. Haroun and P. A. J. Audiffred. 1994. A reinvestigation of Macaronesian seaweeds as studied by A. Piccone. With remarks on those by A. Grunow. *Nova Hedwigia* 58: 67–121.
- Reyes, J. and J. Afonso-Carrillo. 1993. Morphology and anatomy of *Mesophyllum canariense* (Corallinaceae, Rhodophyta) from the Canary Islands. *Courier Forsch.-Inst. Senckenberg* 159: 127–132.
- Schmidt, O. C. 1931. Die marine Vegetation der Azoren in ihren Grundzügen dargestellt. *Biblioth. Bot.* 24(102): 1–116, 20 Tafeln.
- Silva, P. C., P. W. Basson and R. L. Moe. 1996. Catalogue of the benthic marine algae of the Indian Ocean. *Univ. California Publ. Bot.* 79: xiv + 1259.
- Weisscher, F. C. M. 1982. Marine algae from Ilhéu de Fora (Salvage Islands) (Cancap-Project Contributions No.13). *Bol. Mus. Mun. Funchal* 34 (144): 23–34.
- Weisscher, F. C. M. 1983. Marine algae from Selvagem Pequena (Salvage Islands) (Cancap-Project Contributions No.19). *Bol. Mus. Mun. Funchal* 35 (152): 41–80.
- Wirtz, P. 1995. One vascular plant and ten invertebrate species new to the marine flora and fauna of Madeira. *Arquipélago. Life and Marine Sciences* 13A: 119–123.
- Wynne, M. J. 1998. A checklist of benthic marine algae of the tropical and subtropical western Atlantic: first revision. *Beih. Nova Hedwigia* 116: iii + 155.

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