

## Seaweeds of the Greek coasts: Rhodophyta excluding Ceramiales

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*An updated checklist of the red seaweeds (Rhodophyta), excluding the order Ceramiales, of the Greek coasts is provided, based on literature records, critically reviewed from present-day taxonomic and nomenclatural aspects. The total number of genera, species and infraspecific taxa currently accepted is 78, 138 and 4 respectively. The occurrence of each taxon in the North Aegean, South Aegean and Ionian Seas is given. Knowledge gaps are pointed, with 57 taxa pending confirmation of their presence marked. Moreover, 13 excludenda and 12 inquirenda taxa are briefly discussed. In overall, a solid updated baseline of the Rhodophyta (excluding Ceramiales) taxa occurrence in Greece is provided, critical for future tailor-targeting seaweed studies.*

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**Key words:** Aegean Sea, red algae, Rhodophyta, checklist, Ionian Sea

### INTRODUCTION

Phycological studies on marine macroalgae have been carried out along the Greek coasts since the early 19<sup>th</sup> century (SIBTHORP, 1813; GREVILLE, 1826; BORY, 1832), resulting in several new species and genera and in numerous records of common Mediterranean taxa. However, the major part of these studies has not been updated in a modern context, while the provided data in the classical publications are usually too limited to allow unequivocal identification, frequently resulting in taxonomic confusion (TSIAMIS & PANAYOTIDIS, 2016a).

A first attempt to produce a checklist of the Greek marine seaweeds was made by DIANNE-LIDIS (1950), followed by the work of GERLOFF

& GEISSLER (1974). Later on, ATHANASIADIS (1987) compiled a critically reviewed catalogue of marine seaweeds, but concerning only the Aegean Sea. In addition, the annotated checklists of the Mediterranean seaweed flora by RIBERA *et al.* (1992), GALLARDO *et al.* (1993) and GÓMEZ GARRETA *et al.* (2001) included seaweeds occurring in Greece.

Aiming to update the knowledge of the Greek marine seaweed flora, the present work is focusing exclusively in the red seaweeds (Rhodophyta) excluding the order Ceramiales Oltmanns, aiming to deliver a solid updated and annotated baseline of the Greek taxa, critical for future tailor-targeting studies. Our work constitutes the final part in a series that previously treated the Phaeophyceae, the Ulvophy-

ceae and the Ceramiales (Rhodophyta) of the Greek coasts (TSIAMIS *et al.*, 2013a, 2014; TSIAMIS & PANAYOTIDIS, 2016a).

## MATERIAL AND METHODS

From the early 19<sup>th</sup> century until 2017, 13 PhD theses and about 150 research papers have been published on seaweeds from Greece. Master and Bachelor Degree theses as well as conference contributions have not been taken into account for this study. Records of rhodophytes in all other publications have been critically reviewed from present-day taxonomic and nomenclatural aspects, following the on-line data provided by SILVA (2018) and GUIRY & GUIRY (2018), unless otherwise specified in the “Notes”.

The checklist has been compiled following the scheme in TSIAMIS & PANAYOTIDIS (2016a):

1. accepted taxa: there is at least one documented record from Greece, in the form of description and/or illustration(s),
2. pending confirmation of their presence: undocumented records or records with no sufficient documentation to permit accurate identification under modern standards,
3. *excludenda*: misidentifications,
4. *inquirenda*: taxa not typified, with uncertain taxonomic application.

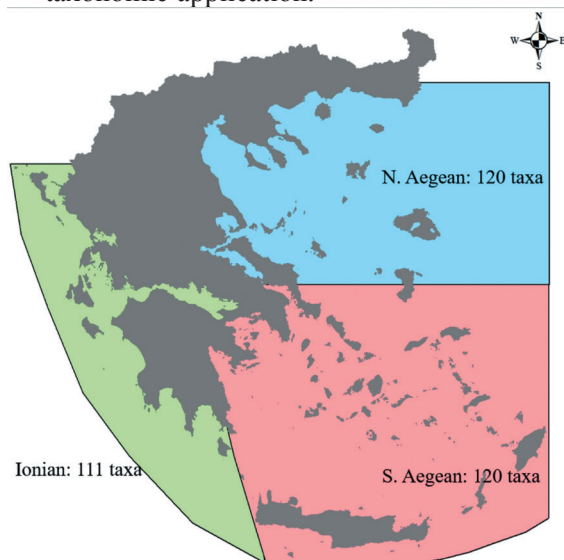


Fig. 1. Accepted Rhodophyta algal taxa (excluding Ceramiales) within each biogeographic region of the Greek seas

Taxa are listed alphabetically. For each taxon applied synonyms to previous records from Greece are provided. The distribution of each accepted taxon is given for the three biogeographic regions: North Aegean, South Aegean and Ionian Sea (Fig. 1). Due to space limitation, only one reference is given for each region, giving priority to publications that include descriptions and/or illustration(s). Additional references are available by the authors on request.

## RESULTS

The present checklist recognizes at least 142 Rhodophyta species and infraspecific taxa (excluding Ceramiales), within 78 genera, to occur in Greece (Table 1). In addition, there are 57 taxa pending confirmation of their presence on the Greek coasts (Table 2).

### *Taxa Excludenda*

#### ***Bangia atropurpurea* (Mertens in Roth)**

##### **C. Agardh**

Based on MULLER *et al.* (2003) molecular work, *Bangia atropurpurea* is apparently a freshwater species, distinct from *B. fuscopurpurea* found in the marine environment. Therefore, the several Greek records (e.g. ANAGNOSTIDIS, 1968; NIKOLAIDIS & HARITONIDIS, 1990; MALEA & HARITONIDIS, 2001), which all lack sufficient documentation, should be excluded from the Greek marine flora, possibly referring to *B. fuscopurpurea*.

#### ***Bangia thaerasiae* Bory**

Originally described by BORY (1832: 334) based on specimens collected from Santorini Island (South Aegean Sea), but was later proven to belong to a diatom by DE TONI (1897: 12).

#### ***Chondrus crispus* Stackhouse**

= *Chondrus norvegicus* (Gunnerus) Lamouroux

= *Gymnogongrus norvegicus* (Gunnerus) J. Agardh

This North Atlantic alga does not occur in the Mediterranean Sea and the Greek records from

the Aegean Sea (RAULIN, 1869; TSEKOS *et al.*, 1982) and Ionian Sea (TSEKOS & HARITONIDIS, 1977), which all lack documentation, should be considered as misidentifications, possibly referring to a *Gymnogongrus* species.

***Colaçonema caespitosum* (J. Agardh)**

**Jackelman, Stegenga & Bolton**

0= *Rhodothamniella codii* (Crouan frat.) J. Feldmann

The single undocumented record by DIAPOULIS *et al.* (1986, as *Rhodothamniella codii*) from the Saronikos Gulf (South Aegean Sea) should be a misidentification, possibly referring to *Colaçonema codicola* (Børgesen) Jackelman, Stegenga & Bolton (see also BIDOUX & MAGNE, 1989; VERLAQUE *et al.*, 2015: 139).

***Dumontia contorta* (S.G. Gmelin) Ruprecht**

= *Dumontia incrassata* (O.F. Müller) Lamouroux

The single undocumented record by TSEKOS & HARITONIDIS (1977) from the Ionian Sea should be a misidentification, since this circumpolar species does not occur in the Mediterranean Sea.

***Gigartina pistillata* (S.G. Gmelin) Stackhouse**

The Greek records from the North Aegean Sea (HARITONIDIS & TSEKOS, 1975) and Ionian Sea (HARITONIDIS & TSEKOS, 1976; TSEKOS *et al.*, 1982; HARITONIDIS *et al.*, 1986), which all lack descriptions or illustrations, should be excluded from the Greek flora as misidentifications, since this species does not seem to occur in the Eastern Mediterranean Sea.

***Iridaea cordata* (Turner) Bory**

This South America species is not known to occur in the Mediterranean Sea and the undocumented Greek record by TSEKOS *et al.* (1982) from the North Aegean Sea should be considered as a misidentification.

***Kallymenia reniformis* (Turner) J. Agardh**

= *Fucus reniformis* Turner

Since most of the Mediterranean records of this NE Atlantic species should refer to *Meredithia microphylla* (ATHANASIADIS, 2016: 650),

we prefer to cite the several Greek records (e.g. GIACCONE, 1968a; DIAPOULIS *et al.*, 1986; NIKOLAIDIS & HARITONIDIS, 1990), which all lack documentation, within the list of *taxa excludenda* for the Greek flora.

***Liagora ceranoides* Lamouroux**

0This species has been reported from the Peloponnese by BORY (1832: 329) but actually referring to *L. viscida* (see also ATHANASIADIS, 2016: 137), and from Rhodes Island (South Aegean Sea) by REINBOLD (1898) but corresponding to a misidentification of *Ganonema farinosum* (HAMEL, 1931: 310). The record by DIANNELIDIS *et al.* (1977) from Rhodes Island, which lacks documentation, should be also treated as a misidentification since this species does not seem to occur in the Eastern Mediterranean Sea.

***Mastocarpus stellatus* (Stackhouse in Withering) Guiry**

0= *Gigartina stellata* (Stackhouse in Withering) Batters

The single record by GERLOFF & GEISSLER (1974) from the Ionian Sea is without justification and should be a misidentification, since this species does not occur in the Eastern Mediterranean Sea.

***Nemalion multifidum* (Lyngbye) Chauvin**

0This species does not seem to occur in the Mediterranean Sea and the Greek records from the Ionian Sea (HARITONIDIS & TSEKOS, 1976; TSEKOS & HARITONIDIS, 1977; TSEKOS *et al.*, 1982), which all lack descriptions or illustrations, should be excluded from the Greek flora, possibly referring to *Nemalion lubricum* (see also LE GALL & SAUNDERS, 2010).

***Phyllophora crispa* (Hudson) Dixon**

0= *Phyllophora epiphylla* (O.F. Müller) Batters

= *Phyllophora rubens* auctorum

Based on ATHANASIADIS (2016: 524-528) this species does not occur in the Mediterranean Sea and the numerous records reported from the basin should refer to *Phyllophora spiralis* (= *P. nervosa*). Thus, the several Greek records (e.g.

POLITIS, 1928; KOUSSOURIS, 1976; DIAPOULIS & HARITONIDIS, 1984), which all lack documentation, should be excluded, probably referring to *P. spiralis*.

***Phyllophora pseudoceranoides* (S.G. Gmelin)**

**Newroth & Taylor ex Dixon & Irvine**

= *Phyllophora membranifolia* (Goodenough & Woodward) Endlicher *nom. illeg.*

There are no documented records of this North Atlantic species from the Mediterranean Sea, and the Greek records from the Aegean Sea (CANDARGY, 1899; ANAGNOSTIDIS, 1968; NIKOLAIDIS & HARITONIDIS, 1990) probably correspond to misidentifications.

*Taxa Inquirenda*

***Amphiroa articulata* (Bory) Athanasiadis**

= *Nullipora articulata* Bory

Erected by BORY (1832: 206) based on plants collected from Sapience islet (Peloponnese). ATHANASIADIS (2016: 292) placed the species under the genus *Amphiroa* based on Bory's protologue and plates. However, in the absence of the type specimen and a detailed diagnosis of it we agree with CORMACI *et al.* (2017) to place the species within the the *taxa inquirenda*.

***Bangia sericea* Bory**

This taxon was erected by BORY (1832: 334) based on plants collected from the South Peloponnese coasts. Based on him and following studies (PREDA, 1908-09) the species is close to *Conferva atropurpurea* (= *Bangia atropurpurea*), although this taxon is considered nowadays to be a freshwater species (see *taxa excludenda*). We prefer to cite *Bangia sericea* within the list of *taxa inquirenda* until the type specimen is re-investigated.

***Chylocladia pygmaea* (Funk) Kylin**

The specific status of this taxon remains unclear and requires taxonomic re-investigation (ALONGI *et al.*, 2008: 149). In Greece, it was reported by CATRA & GIARDINA (2009) from Karpathos Island, but without documentation.

***Erythrotrichia simplex* Dangeard *nom. inval.***

Entity of uncertain taxonomic status since no type has been designated. There are several records of this species from Greece (e.g. DIAPOULIS & HARITONIDIS, 1987a; CHRYSOVERGIS, 1995) but in all cases lacking documentation.

***Goniolithon subtenellum* Foslie**

= *Lithothamnion subtenellum* (Foslie) Lemouine

Based on ATHANASIADIS (2016: 289), the taxonomic position of this species is uncertain, since it has been associated with both *Lithophyllum orbiculatum* (Foslie) Foslie and *Hydroliothon samoense* (Foslie) Keats & Chamberlain. In Greece, *Goniolithon subtenellum* has been reported by GIACCONE (1968a) from the Aegean Sea but without documentation. The species is accepted by CORMACI *et al.* (2017) as *Lithophyllum orbiculatum* (Foslie) Foslie.

***Grateloupia neglecta* (Bory) Kützing**

= *Gelidium neglectum* Bory

Originally described from the Peloponnese by BORY (1832: 324), it has been associated with *Grateloupia filicina* (DE TONI, 1905). Since Bory's original material has never been re-examined its taxonomic status remains unclarified (see also GARGIULO *et al.*, 2013: 6).

***Halymenia rhodymenioides* Ercegović**

A rare and deep-water species (below 60 m depth) described by ERCEGOVIĆ (1949) from Jabuka (Adriatic Sea), but with obscure taxonomic status. It was later reported by SCHNETTER & SCHNETTER (1981) from Kephallonia Island (Ionian Sea), but lacking documentation.

***Lithophyllum fasciculatum* auctorum**

= ? *Lithothamnion fasciculatum sensu* Arechoug

The binomial *Lithophyllum fasciculatum* (Lamarck) Foslie is based on *Millepora fasciculata* Lamarck, which according to BASSO *et al.* (2004) its type collection is heterogenous, containing two distinct plants: one belonging to an undescribed species of *Clathromorphum*, and the other belonging to a another *Lithothamnion* spe-

cies. The sporadic Greek records from the North Aegean (DIANNELIDIS, 1950) and South Aegean Sea (POLITIS, 1928) are without documentation and should be considered as doubtful (see also ATHANASIADIS, 1987: 40).

***Lithothamnion hauckii* Rothpletz**

= *Lithothamnion mamillosum* Hauck *nom. illeg.*

= *Neogoniolithon mamillosum* (Hauck) Setchell & Mason

Species of uncertain taxonomic status (WOELKERLING *et al.*, 1998), but frequently reported from the Greek coasts (e.g. DIANNELIDIS *et al.*, 1977; SCHNETTER & SCHNETTER, 1981; TSEKOS *et al.*, 1982); however, none of the Greek records contain any description or illustrations.

***Peyssonnelia codana* (Rosenvinge) Levring  
*sensu* Verlaque**

Although the type material of *Peyssonnelia codana* belongs to *P. dubyi*, Mediterranean plants differ from the latter (VERLAQUE, 1978). The single Greek record from Sithonia (North Aegean Sea) by ATHANASIADIS (1987: 50-51, as *Peyssonnelia* sp.) is in good agreement with Verlaque's concept, showing spermatangial structures distinct from those of *P. dubyi* (ATHANASIADIS, 2016: 675).

***Pneophyllum zonale* (Crouan frat.)**

**Chamberlain**

= *Melobesia zonalis* (Crouan frat.) Foslie

Previously considered as a synonym of *Pneophyllum coronatum*, but the type specimen of *P. zonale*'s basionym (*Hapalidium coronatum* Crouan frat.) does not match with *P. coronatum*. Hence, the species should be included within the *taxa inquirenda* (see also CORMACI *et al.*, 2017). In Greece, *P. zonale* has been reported from the Aegean Sea by ATHANASIADIS (1987, the description possibly matches with *P. coronatum*) and GIACCONE (1968a, as *Melobesia zonalis*, without documentation).

***Porphyra atropurpurea* (Olivi) De Toni**

The taxonomic position of this species is

uncertain, since the type has not been designated (BRODIE *et al.*, 2007). The latter authors state that it could correspond to *Porphyra olivii* (= *Pyropia koreana*). Based on ATHANASIADIS (2016) it could represent a synonym of *Po. leucostica* (= *Py. leucosticta*). In Greece, the species has been reported by KATSIKOPOULOS (1939) and HARITONIDIS & TSEKOS (1974), but without documentation.

## DISCUSSION

The first checklist of Greek seaweeds (DIANNELIDIS, 1950) included 44 currently accepted species and infraspecific taxa of Rhodophyta excluding Ceramiales. Later on, GERLOFF & GEISSLER (1974) listed 81, while ATHANASIADIS (1987) reported 122 taxa for the Aegean Sea only. Based on our study, the total number has presently increased to 142 confirmed taxa, following the several new studies during the recent years (e.g. TSIAMIS *et al.*, 2010; TSIAMIS, 2012; CATRA & ALONGI, 2013; TSIAMIS & PANAYOTIDIS, 2016b). Combined with the annotated list of the Greek Ceramiales taxa (TSIAMIS & PANAYOTIDIS, 2016a), the total number of accepted Rhodophyta taxa along the Greek coasts is 262.

The distribution of these 142 non-Ceramiales along the Greek coasts has as follows: 120 taxa have been found in the N. Aegean, 120 taxa in the S. Aegean and 111 taxa in the Ionian Sea (Fig. 1).

The Greek marine flora seems to host far less non-Ceramiales Rhodophyta taxa comparing with the neighboring Italian coasts, where 290 taxa have been recorded (FURNARI *et al.*, 2010). This difference definitely reflects the limited studies that have been hitherto conducted in Greece, and generally in the eastern Mediterranean Sea, with several coastal regions and islands still remaining poorly surveyed, particularly in the sublittoral and circalittoral zones.

All taxa reported in the current study have been critically reviewed from present-day taxonomic and nomenclatural aspects, providing also all synonyms ever cited in the literature of Greek seaweeds, minimizing thus the vast taxonomic confusion of the Greek records. Still,

too many taxa (57) are pending confirmation in Greece. This is due to the lack of documentation, since most records have been given in form of species names without deposition of material in public herbaria. Several other taxa are treated as *excludenda* or *inquirenda* (13 and 12 taxa respectively), which underlies the taxonomic difficulties, particularly concerning the identification of members of the genera *Acrochaetium*, *Gracilaria*, *Porphyra*, and the non-articulated calcified taxa of the order Corallinales (e.g. *Fosliella*, *Goniolithon*, *Lithophyllum*, *Lithothamnion*, *Pneophyllum*, *Titanoderma*).

We conclude that there are still major gaps in the documentation of the marine flora of the Aegean and Ionian Seas, and surveys in the unexplored areas and particularly in deeper habitats will further increase the number of taxa. Our study can offer a solid updated baseline of the current knowledge of Rhodophyta taxa (excluding Ceramiales) in Greece, critical for future tailor-targeting seaweed studies.

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Table 1. Accepted Rhodophyta algal taxa (excluding Ceramiales) in the North and South Aegean, and the Ionian Seas. For each taxon a basic reference is provided together with applied synonyms in previous Greek records

Taxa	North Aegean	South Aegean	Ionian Sea
<i>Acrochaetium crassipes</i> (Børgesen) Børgesen = <i>Audouinella crassipes</i> (Børgesen) Garbary	ATHANASIADIS, 1987	DIAPOULIS & HARITONIDIS, 1987a	DIAPOULIS & HARITONIDIS, 1987b
<i>Acrochaetium humile</i> (Rosenvinge) Børgesen = <i>Audouinella humilis</i> (Rosenvinge) Garbary	ATHANASIADIS, 1987		
<i>Acrochaetium mediterraneum</i> (Levring) Athanasiadis = <i>Audouinella mediterranea</i> (Levring) Ballesteros <i>nom. inval.</i>	DIAPOULIS & HARITONIDIS, 1984	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Acrochaetium microscopicum</i> (Nägeli ex Kützing) Nägeli = <i>Audouinella microscopica</i> (Nägeli ex Kützing) Woelkerling	CHRYSOVERGIS & PANAYOTIDIS, 1995	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Acrochaetium secundatum</i> (Lyngbye) Nägeli = <i>Audouinella secundata</i> (Lyngbye) Dixon = <i>Acrochaetium virgatulum</i> (Harvey) Batters = <i>Audouinella virgatula</i> (Harvey) Dixon	DIANNELIDIS, 1953	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Acrodiscus vidovichii</i> (Meneghini) Zanardini = <i>Chondrus vidovichii</i> Meneghini = <i>Cryptonemia vidovichii</i> (Meneghini) Zanardini	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Acrosymphyton purpuriferum</i> (J. Agardh) Sjöstedt = <i>Dudresnaya purpurifera</i> J. Agardh = <i>Helminthiopsis purpurifera</i> (J. Agardh) Papenfuss	ATHANASIADIS, 1987	DIANNELIDIS <i>et al.</i> , 1977	SCHNETTER & SCHNETTER, 1981
<i>Amphiroa beauvoisii</i> Lamouroux		KOUSSOURIS <i>et al.</i> , 1973	BITIS, 1988
<i>Amphiroa cryptarthrodia</i> Zanardini = <i>Amphiroa verruculosa</i> Kützing <i>nom. illeg.</i> <sup>(1)</sup>		LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Amphiroa fragilissima</i> (Linnaeus) Lamouroux		CATRA & GIARDINA, 2009	
<i>Amphiroa rigida</i> Lamouroux	ATHANASIADIS, 1987	LAZARIDOU, 1994	BITIS, 1988
<i>Amphiroa rubra</i> (Philippi) Woelkerling	ATHANASIADIS, 1987	SARTONI & DE BIASI, 1999	
<i>Asparagopsis armata</i> Harvey = <i>Falkenbergia rufolanosa</i> (Harvey) Schmitz	CHRYSOVERGIS, 1995	PANAYOTIDIS & CHRYSOVERGIS, 1998	CATRA & ALONGI, 2012
<i>Asparagopsis taxiformis</i> (Delile) Trevisan	TSIAMIS, 2012	TSIAMIS, 2012	TSIAMIS, 2012
<i>Bangia fuscopurpurea</i> (Dillwyn) Lyngbye	ATHANASIADIS, 1987 <sup>(2)</sup>	DIANNELIDIS <i>et al.</i> , 1977	SCHNETTER & SCHNETTER, 1981
<i>Beckerella dentata</i> (Kützing) Athanasiadis = <i>Beckerella mediterranea</i> H. Huvé = <i>Ptilophora mediterranea</i> (H. Huvé) Norris = <i>Phyllophora aegei</i> Giaccone <i>nom. inval.</i>		GIACCONE, 1968b	HUVE, 1962
<i>Bonnemaisonia asparagoides</i> (Woodward) C. Agardh = <i>Hymenoclonium serpens</i> (Crouan <i>frat.</i> ) Batters	ATHANASIADIS, 1987	DIAPOULIS <i>et al.</i> , 1986	
<i>Bonnemaisonia clavata</i> Hamel	ATHANASIADIS, 1987		
<i>Botryocladia botryoides</i> (Wulfen) J. Feldmann = <i>Botryocladia uvaria</i> (C. Agardh) Kylin <i>nom. illeg.</i> = <i>Chrysymenia uvaria</i> (C. Agardh) J. Agardh <i>nom. illeg.</i> = <i>Gastroclonium uvarium</i> (C. Agardh) Kützing <i>nom. illeg.</i>	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Botryocladia madagascariensis</i> G. Feldmann		CATRA & GIARDINA, 2009	TSIAMIS & VERLAQUE, 2011

<i>Calosiphonia vermicularis</i> (J. Agardh) Schmitz	ATHANASIADIS, 1987	DIAPOULIS & HARITONIDIS, 1987a	
<i>Caulacanthus ustulatus</i> (Mertens ex Turner) Kützing	ATHANASIADIS, 1987		SCHNETTER & SCHNETTER, 1981
<i>Champia parvula</i> (C. Agardh) Harvey	ATHANASIADIS, 1987	LAZARIDOU, 1994	BITIS, 1988
<i>Chondracanthus acicularis</i> (Roth) Fredericq = <i>Gigartina acicularis</i> (Roth) Lamouroux = <i>Sphaerococcus acicularis</i> (Roth) C. Agardh	DIAPOULIS & HARITONIDIS, 1984	DIANNELIDIS <i>et al.</i> , 1977	BITIS, 1988
<i>Chondracanthus teedei</i> (Mertens in Roth) Kützing = <i>Chondroclonium teedei</i> (Mertens in Roth) Kützing = <i>Gigartina teedei</i> (Mertens in Roth) Lamouroux = <i>Sphaerococcus teedei</i> (Mertens in Roth) C. Agardh	ANAGNOSTIDIS, 1968	DIANNELIDIS <i>et al.</i> , 1977	BITIS, 1988
<i>Choreonema thuretii</i> (Bornet) Schmitz	ATHANASIADIS, 1987	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Chroodactylon ornatum</i> (C. Agardh) Basson = <i>Asterocytis ornata</i> (C. Agardh) Hamel = <i>Asterocytis ramosa</i> (Thwaites in Harvey) Gobi ex Schmitz	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Chrysmenia ventricosa</i> (Lamouroux) J. Agardh	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Chylocladia verticillata</i> (Lightfoot) Bliding = <i>Chylocladia squarrosa</i> (Kützing) Thuret = <i>Chylocladia kaliformis</i> (Withering) Greville in W.J. Hooker = <i>Gastroclonium kaliforme</i> (Withering) Ardissonne = <i>Lomentaria kaliformis</i> var. <i>squarrosa</i> (Kützing) J. Agardh	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	BITIS, 1988
<i>Colaconema daviesii</i> (Dillwyn) Stegenga = <i>Acrochaetium daviesii</i> (Dillwyn) Nägeli = <i>Audouinella daviesii</i> (Dillwyn) Woelkerling	ATHANASIADIS, 1987	LAZARIDOU, 1994	DIAPOULIS & HARITONIDIS, 1987b
<i>Contarinia peyssonneliiformis</i> Zanardini	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	SCHNETTER & SCHNETTER, 1981
<i>Corallina caespitosa</i> Walker, Brodie & Irvine	WALKER <i>et al.</i> , 2009		
<i>Corallina elongata</i> Ellis & Solander <sup>(3)</sup> = <i>Corallina mediterranea</i> Areschoug	ATHANASIADIS, 1987	ATHANASIADIS, 1987	BITIS, 1988
<i>Corallina officinalis</i> Linnaeus	DIANNELIDIS, 1953	LAZARIDOU, 1994	BITIS, 1988
<i>Cryptonemia lomation</i> (Bertoloni) J. Agardh = <i>Sphaerococcus lactuca</i> C. Agardh <i>nom. illeg.</i>	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Dudresnaya verticillata</i> (Vellay in Withering) Le Jolis = <i>Dudresnaya coccinea</i> (C. Agardh) Crouan <i>frat.</i>	ATHANASIADIS, 1987	TSIAMIS <i>et al.</i> , 2013b	SCHNETTER & SCHNETTER, 1981
<i>Erythrotrichia carnea</i> (Dillwyn) J. Agardh = <i>Erythrotrichia ceramicola</i> (Lyngbye) Areschoug	ATHANASIADIS, 1987	LAZARIDOU, 1994	BITIS, 1988
<i>Ganonema farinosum</i> (Lamouroux) Fan & Wang = <i>Cladostephus dubium</i> Bory	TSIAMIS, 2012	TSIAMIS, 2012	TSIAMIS, 2012
<i>Gastroclonium clavatum</i> (Roth) Ardissonne	ATHANASIADIS, 1987	TSIAMIS <i>et al.</i> , 2013b	BITIS, 1988
<i>Gelidiella lubrica</i> (Kützing) J. Feldmann & Hamel	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	SCHNETTER & SCHNETTER, 1981
<i>Gelidium crinale</i> (Turner) Gaillon = <i>Acrocarpus crinalis</i> (Turner) Kützing	ANAGNOSTIDIS, 1968	DIAPOULIS & HARITONIDIS, 1987a	BITIS, 1988
<i>Gelidium pectinatum</i> Montagne <sup>(4)</sup> = <i>Gelidium bipectinatum</i> Furnari <i>nom. illeg.</i>	TSIAMIS, 2012	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981

<i>Gelidium pulchellum</i> (Turner) Kützing			TSIAMIS & PANAYOTIDIS, 2016b
<i>Gelidium pusillum</i> (Stackhouse) Le Jolis = <i>Gelidium intricatum</i> Lamouroux	ATHANASIADIS, 1987	LAZARIDOU, 1994	BITIS, 1988
<i>Gelidium spinosum</i> (S.G. Gmelin) Silva = <i>Gelidium latifolium</i> (Greville) Bornet	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Gracilaria bursa-pastoris</i> (S.G. Gmelin) Silva = <i>Gracilaria compressa</i> (C. Agardh) Greville	DIANNELIDIS, 1953	DIANNELIDIS <i>et al.</i> , 1977	TSEKOS & HARITONIDIS, 1977
<i>Gracilaria corallicola</i> Zanardini	ATHANASIADIS, 1987	GIACCONE, 1968a	
<i>Gracilaria dura</i> (C. Agardh) J. Agardh = <i>Sphaerococcus durus</i> C. Agardh	DIANNELIDIS, 1953	DIANNELIDIS <i>et al.</i> , 1977	GRUNOW, 1861
<i>Grateloupia filicina</i> (Lamouroux) C. Agardh	ATHANASIADIS, 1987		SCHNETTER & SCHNETTER, 1981
<i>Gymnogongrus griffithsiae</i> (Turner) Martius	ATHANASIADIS, 1987	COPPEJANS, 1974	SCHNETTER & SCHNETTER, 1981
<i>Halarachnion ligulatum</i> (Woodward) Kützing	ATHANASIADIS, 1987	GIACCONE, 1968a	TSIAMIS, 2012
<i>Halymenia elongata</i> C. Agardh = <i>Halymenia trigona</i> auctorum = ? <i>Halymenia cavernicola</i> Giaccone <i>nom. inval.</i>	ATHANASIADIS, 1987	GIACCONE, 1968b	
<i>Halymenia floresii</i> (Clemente) C. Agardh = <i>Halymenia floresii</i> var./f. <i>macroptera</i> Kützing = <i>Halymenia floresii</i> var./f. <i>tripinnata</i> Kützing	ATHANASIADIS, 1987	GIACCONE, 1968a	SCHNETTER & SCHNETTER, 1981
<i>Halymenia latifolia</i> Crouan <i>frat. ex</i> Kützing	ATHANASIADIS, 1987		
<i>Hildenbrandia rubra</i> (Sommerfelt) Meneghini = <i>Hildenbrandia prototypus</i> Nardo	ATHANASIADIS, 1987		SCHNETTER & SCHNETTER, 1981
<i>Hydrolithon boreale</i> (Foslie) Chamberlain = <i>Melobesia farinosa</i> f. <i>callithamnioides</i> Foslie = <i>Hydrolithon farinosum</i> f. <i>callithamnioides</i> (Foslie) Serio = <i>Melobesia solmsiana</i> Falkenberg = <i>Fosliella farinosa</i> var. <i>solmsiana</i> (Falkenberg) Taylor = <i>Melobesia farinosa</i> var. <i>solmsiana</i> (Falkenberg) Lemoine = <i>Melobesia callithamnioides</i> sensu Falkenberg	DIANNELIDIS, 1953	DIANNELIDIS <i>et al.</i> , 1977	TSEKOS & HARITONIDIS, 1977
<i>Hydrolithon farinosum</i> (Lamouroux) Penrose & Chamberlain var. <i>farinosum</i> <sup>(5)</sup> = <i>Melobesia farinosa</i> Lamouroux = <i>Fosliella farinosa</i> (Lamouroux) Howe	ATHANASIADIS, 1987	LAZARIDOU, 1994	BITIS, 1988
<i>Hypnea anastomosans</i> Papenfuss, Lipkin & Silva		TSIAMIS & VERLAQUE, 2011	
<i>Hypnea cornuta</i> (Kützing) J. Agardh		TSIAMIS, 2012	
<i>Hypnea musciformis</i> (Wulfen) Lamouroux	ATHANASIADIS, 1987	ATHANASIADIS, 1987	SCHNETTER & SCHNETTER, 1981
<i>Hypnea spinella</i> (C. Agardh) Kützing = ? <i>Hypnea cervicornis</i> auctorum	TSIAMIS, 2012	TSIAMIS, 2012	
<i>Hypnea valentiae</i> (Turner) Montagne		TSIAMIS & VERLAQUE, 2011	
<i>Irvinea boergesenii</i> (J. Feldmann) Wilkes, McIvor & Guiry = <i>Botryocladia boergesenii</i> J. Feldmann	ATHANASIADIS, 1987	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Jania adhaerens</i> Lamouroux	CHRYSOVERGIS, 1995	NIZAMUDDIN & LEHNBERG, 1970	BITIS, 1988

<i>Jania longifurca</i> Zanardini ex Zanardini	DIANNELIDIS, 1953	DIAPOULIS & HARITONIDIS, 1987a	SCHNETTER & SCHNETTER, 1981
<i>Jania rubens</i> (Linnaeus) Lamouroux var. <i>rubens</i> = <i>Corallina rubens</i> Linnaeus	ATHANASIADIS, 1987	LAZARIDOU, 1994	BITIS, 1988
<i>Jania rubens</i> var. <i>corniculata</i> (Linnaeus) Yendo <sup>(6)</sup> = <i>Jania corniculata</i> (Linnaeus) Lamouroux	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Jania virgata</i> (Zanardini) Montagne = <i>Corallina virgata</i> Zanardini = <i>Haliptilon virgatum</i> (Zanardini) Garbary & Johansen = <i>Corallina virgata</i> var. <i>attenuata</i> (Kützing) Schiffner & Schussnig = <i>Corallina virgata</i> var. <i>penicillata</i> Schiffner = <i>Corallina granifera</i> Ellis & Solander	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Liagora viscida</i> (Forsskål) C. Agardh = <i>Liagora cladoniaeformis</i> Bory	ATHANASIADIS, 1987	NIZAMUDDIN & LEHNBERG, 1970	SCHNETTER & SCHNETTER, 1981
<i>Lithophyllum cystoseirae</i> (Hauck) Heydrich = <i>Melobesia cystoseirae</i> Hauck = <i>Titanoderma cystoseirae</i> (Hauck) Woelkerling, Chamberlain & Silva <sup>(7)</sup> = <i>Dermatolithon cystoseirae</i> (Hauck) Huvé = <i>Dermatolithon papillosum</i> var. <i>cystoseirae</i> (Hauck) Lemoine	ATHANASIADIS, 1987	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Lithophyllum dentatum</i> (Kützing) Foslie	ATHANASIADIS, 1987	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Lithophyllum incrustans</i> Philippi	DIAPOULIS & HARITONIDIS, 1984	LAZARIDOU, 1994	BITIS, 1988
<i>Lithophyllum papillosum</i> (Zanardini ex Hauck) Foslie = <i>Dermatolithon papillosum</i> (Zanardini ex Hauck) Foslie = <i>Goniolithon papillosum</i> (Zanardini ex Hauck) Foslie	ATHANASIADIS, 1987		SCHNETTER & SCHNETTER, 1981
<i>Lithophyllum pustulatum</i> (Lamouroux) Foslie = <i>Melobesia pustulata</i> Lamouroux = <i>Dermatolithon pustulatum</i> (Lamouroux) Foslie = <i>Dermatolithon hapalidioides</i> (Crouan frat.) Foslie = <i>Titanoderma pustulatum</i> (Lamouroux) Nägeli = <i>Titanoderma hapalidioides</i> (Crouan frat.) Price, John & Lawson = <i>Titanoderma verrucatum</i> (Lamouroux) Chamberlain	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	SCHNETTER & SCHNETTER, 1981
<i>Lithophyllum racemus</i> (Lamarck) Foslie = <i>Lithothamnion crassum</i> Philippi = <i>Lithophyllum crassum</i> (Philippi) Heydrich nom. illeg.	BALBINI & BRESSAN, 1997	LEMOINE, 1915	GIACCONE, 1968c
<i>Lithophyllum stictaeforme</i> (Areschoug) Hauck = <i>Lithophyllum expansum</i> f. <i>stictaeformis</i> (Areschoug) Foslie = <i>Lithophyllum frondosum</i> (Dufour) Furnari, Cormaci & Alongi = <i>Pseudolithophyllum expansum</i> f. <i>stictaeformis</i> Philippi	ATHANASIADIS, 1987 <sup>(8)</sup>	GIACCONE, 1968a	TSIRIKA & HARITONIDIS, 2005
<i>Lithophyllum trochanter</i> (Bory) Huvé ex Woelkerling <sup>(9)</sup> = <i>Nullipora trochanter</i> Bory = <i>Titanoderma trochanter</i> (Bory) Benhissoune, Boudouresque, Perret-Boudouresque & Verlaque	NIKOLAIDIS & HARITONIDIS, 1990	ATHANASIADIS, 2016	BORY, 1832
<i>Lithothamnion corallioides</i> (Crouan frat.) Crouan frat. = <i>Lithothamnion solutum</i> (Foslie) Foslie = <i>Lithophyllum solutum</i> (Foslie) Lemoine = <i>Nullipora informis</i> (Lamarck) Schweigger <sup>(10)</sup>	BALBINI & BRESSAN, 1997	LEMOINE, 1915	SCHNETTER & SCHNETTER, 1981
<i>Lithothamnion minervae</i> Basso = <i>Lithothamnion fruticosum</i> auctorum = ? <i>Lithothamnion fruticosum</i> f. <i>crassiusculum</i> Foslie		LEMOINE, 1915	GIACCONE, 1968c

<i>Lomentaria chylocradiella</i> Funk	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	TSIRIKA & HARITONIDIS, 2005
<i>Lomentaria clavellosa</i> (Lightfoot ex Turner) Gaillon	ATHANASIADIS, 1987	GERLOFF & GEISSLER, 1974	DIAPOULIS & HARITONIDIS, 1987b
<i>Lomentaria compressa</i> (Kützinger) Kylin		GIACCONE, 1968a	BITIS, 1988
<i>Lomentaria ercegovičii</i> Verlaque, Boudouresque, Meinesz, Giraud & Marcot-Coqueugnot = <i>Lomentaria tenera</i> Ercegović <i>nom. illeg.</i>		LAZARIDOU, 1994	TSIAMIS, 2012
<i>Melobesia membranacea</i> (Esper) Lamouroux = <i>Epilithon membranaceum</i> (Esper) Heydrich = <i>Lithothamnion membranaceum</i> (Esper) Foslie = <i>Hapalidium roseolum</i> Kützinger	ATHANASIADIS, 1987	LAZARIDOU, 1994	DIAPOULIS & HARITONIDIS, 1987b
<i>Meredithia microphylla</i> (J. Agardh) J. Agardh = <i>Kallymenia microphylla</i> J. Agardh	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Mesophyllum expansum</i> (Philippi) Cabioch & Mendoza = <i>Lithophyllum expansum</i> Philippi = <i>Crodelia expansa</i> (Philippi) Kylin = <i>Lithothamnion expansum</i> (Philippi) Foslie = <i>Pseudolithophyllum expansum</i> (Philippi) Lemoine	ATHANASIADIS & NETO, 2010	LAZARIDOU, 1994	HUVE, 1962
<i>Mesophyllum macedonis</i> Athanasiadis	ATHANASIADIS, 1999		
<i>Mesophyllum philippii</i> (Foslie) Adey = <i>Lithothamnion philippii</i> Foslie		LEMOINE, 1915	SCHNETTER & SCHNETTER, 1981
<i>Metapeyssonnella feldmannii</i> Boudouresque, Coppejans & Marcot			CATRA & ALONGI, 2013
<i>Nemalion lubricum</i> Duby = <i>Nemalion elminthoides</i> auctorum <sup>(11)</sup> = <i>Alcyonidium nemalion</i> auctorum	ATHANASIADIS, 1987	TSIAMIS <i>et al.</i> , 2013b	BITIS, 1988
<i>Nemastoma dichotomum</i> J. Agardh var. <i>dichotomum</i>	ATHANASIADIS, 1987	KOUSSOURIS <i>et al.</i> , 1973	SCHNETTER & SCHNETTER, 1981
<i>Nemastoma dichotomum</i> var. <i>biasoletianum</i> (Kützinger) Rodríguez-Prieto, Verlaque & Vergés		TSIAMIS, 2012	RODRIGUEZ-PRIETO <i>et al.</i> , 2004
<i>Neogoniolithon brassica-florida</i> (Harvey) Setchell & Mason = <i>Neogoniolithon notarisii</i> (Dufour) Hamel & Lemoine = <i>Spongites notarisii</i> (Dufour) Athanasiadis	ATHANASIADIS, 1987	DIAPOULIS & HARITONIDIS, 1987a	SCHNETTER & SCHNETTER, 1981
<i>Neurocaulon foliosum</i> (Meneghini) Zanardini ex Kützinger = <i>Cryptonemia forbesii</i> Harvey in W.J. Hooker = <i>Constantinea reniformis</i> sensu Postels & Ruprecht = <i>Neurocaulon reniforme</i> auctorum		LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Parviphycus antipae</i> (Celan) Santelices = <i>Gelidiella antipae</i> Celan	ATHANASIADIS, 1985	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Peyssonnelia armorica</i> (Crouan <i>frat.</i> ) Weber van Bosse = <i>Cruoriella armorica</i> Crouan <i>frat.</i>	ATHANASIADIS, 1985	CATRA & GIARDINA, 2009	
<i>Peyssonnelia bornetii</i> Boudouresque & Denizot	ATHANASIADIS, 1985	LAZARIDOU, 1994	TSIRIKA & HARITONIDIS, 2005
<i>Peyssonnelia coriacea</i> J. Feldmann		TSIAMIS <i>et al.</i> , 2010a	
<i>Peyssonnelia crispata</i> Boudouresque & Denizot	ATHANASIADIS, 1985	LAZARIDOU, 1994	
<i>Peyssonnelia dubyi</i> Crouan <i>frat.</i>	ATHANASIADIS, 1985	CATRA & GIARDINA, 2009	

<i>Peyssonnelia harveyana</i> J. Agardh	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	DIAPOULIS & HARITONIDIS, 1987b
<i>Peyssonnelia heteromorpha</i> (Zanardini) Athanasiadis = <i>Peyssonnelia polymorpha</i> (Zanardini) Schmitz in Falkenberg	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Peyssonnelia immersa</i> Maggs & Irvine	ATHANASIADIS, 1987		
<i>Peyssonnelia orientalis</i> (Weber-van Bosse) Cormaci & Furnari		LAZARIDOU, 1994	
<i>Peyssonnelia rosa-marina</i> Boudouresque & Denizot	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Peyssonnelia rubra</i> (Greville) J. Agardh = <i>Zonaria rubra</i> Greville	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Peyssonnelia squamaria</i> (S.G. Gmelin) Decaisne ex J. Agardh = <i>Padina squamaria</i> (S.G. Gmelin) Lamouroux ex Bory = <i>Padina squamaria</i> var. <i>sanguinea</i> Bory nom. illeg.	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Peyssonnelia stoechas</i> Boudouresque & Denizot		TSIAMIS, 2012	TSIAMIS <i>et al.</i> , 2010
<i>Phyllophora spiralis</i> (Ginanni) Athanasiadis = <i>Phyllophora nervosa</i> (Lamouroux) Greville <sup>(12)</sup> = <i>Sphaerococcus nervosus</i> (Lamouroux) C. Agardh = <i>Phyllophora crispa</i> auctorum	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Phymatolithon calcareum</i> (Pallas) Adey & McKibbin ex Woelkerling & Irvine = <i>Lithothamnion calcareum</i> (Pallas) Areschoug = <i>Nullipora calcarea</i> (Pallas) Lamarck = <i>Phymatolithon polymorphum</i> (Linnaeus) Foslie	BALBINI & BRESSAN, 1997	LEMOINE, 1915	SCHNETTER & SCHNETTER, 1981
<i>Phymatolithon lenormandii</i> (Areschoug) Adey = <i>Lithothamnion lenormandii</i> (Areschoug) Foslie	HARITONIDIS, 1978	LEMOINE, 1915	DIAPOULIS & HARITONIDIS, 1987b
<i>Platoma cyclocolpum</i> (Montagne) Schmitz	ATHANASIADIS, 1987	COPPEJANS, 1974	SCHNETTER & SCHNETTER, 1981
<i>Plocamium cartilagineum</i> (Linnaeus) Dixon <sup>(13)</sup> = <i>Plocamium coccineum</i> var. <i>uncinatum</i> (C. Agardh) J. Agardh = <i>Fucus coccineus</i> Hudson	NIKOLAIDIS & HARITONIDIS, 1990	DIAPOULIS & HARITONIDIS, 1987a	SCHNETTER & SCHNETTER, 1981
<i>Pneophyllum confervicola</i> (Kützing) Chamberlain = <i>Hapalidium phyllactidium</i> Kützing nom. nov. illeg. = <i>Fosliella minutula</i> (Foslie) Ganesan comb. inval. = <i>Pneophyllum confervicola</i> f. <i>minutulum</i> (Foslie) Chamberlain	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	GRUNOW, 1861
<i>Pneophyllum coronatum</i> (Rosanoff) Penrose = <i>Pneophyllum rosanoffii</i> Chamberlain	ATHANASIADIS, 1987		
<i>Pneophyllum fragile</i> Kützing = <i>Melobesia lejolisii</i> Rosanoff = <i>Fosliella lejolisii</i> (Rosanoff) Howe = <i>Pneophyllum lejolisii</i> (Rosanoff) Chamberlain	CHRYSOVERGIS, 1995	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Polystrata compacta</i> (Foslie) Denizot ex Athanasiadis	ATHANASIADIS, 1987		
<i>Porphyrostromium ciliare</i> (Carmichael in WJ Hooker) Wynne		TSIAMIS <i>et al.</i> , 2010	
<i>Predaea ollivieri</i> J. Feldmann	ATHANASIADIS, 1987	DIAPOULIS & HARITONIDIS, 1987a	TSIAMIS, 2012



<i>Pterocladia capillacea</i> (S.G. Gmelin) Santelices & Hommersand = <i>Gelidium capillaceum</i> (S.G. Gmelin) Meneghini = <i>Gelidium corneum</i> var. <i>pinnatum</i> (Hudson) Greville = <i>Pterocladia capillacea</i> (S.G. Gmelin) Bornet = <i>Pterocladia pinnata</i> (Hudson) Papenfuss	DIANNELIDIS, 1953	ATHANASIADIS, 1987	BITIS, 1988
<i>Pterocladia melanoidea</i> (Schousboe ex Bornet) Santelices & Hommersand = <i>Gelidium melanoideum</i> Schousboe ex Bornet = <i>Pterocladia melanoidea</i> (Schousboe ex Bornet) Dawson	ATHANASIADIS, 1987	LAZARIDOU, 1994	DIAPOULIS & HARITONIDIS, 1987b
<i>Pyropia elongata</i> (Kylin) Neefus & Brodie = <i>Porphyra rosengurtii</i> Coll & Cox	BRODIE <i>et al.</i> , 2007		
<i>Pyropia koreana</i> (Hwang & Lee) Hwang, Choi, Oh & Lee = <i>Porphyra olivii</i> Orfanidis, Neefus & Bray	BRODIE <i>et al.</i> , 2007		
<i>Rhizophyllis squamariae</i> (Meneghini) Kützing <sup>(14)</sup> = <i>Contarinia squamariae</i> (Meneghini) Denizot <i>comb. inval.</i>	ATHANASIADIS, 1987	CATRA & GIARDINA, 2009	
<i>Rhodochaete pulchella</i> Thuret ex Bornet = <i>Rhodochaete parvula</i> Thuret ex Bornet	ATHANASAIIDIS, 1987		
<i>Rhodophyllis divaricata</i> (Stackhouse) Papenfuss = <i>Rhodophyllis appendiculata</i> J. Agardh = <i>Rhodophyllis bifida</i> (De Candolle) Kützing	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Rhodymenia ardissonae</i> (Kuntze) J. Feldmann = <i>Rhodymenia corallicola</i> sensu Ardissonae	DIANNELIDIS, 1953	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Sahlingia subintegra</i> (Rosenvinge) Kornmann = <i>Erythrocladia subintegra</i> Rosenvinge	CHRYSOVERGIS, 1995	LAZARIDOU, 1994	DIAPOULIS & HARITONIDIS, 1987b
<i>Sarconema scinaoides</i> Borgesen		TSIAMIS, 2012	
<i>Schmitzia neapolitana</i> (Berthold) Silva	ATHANASIADIS, 1987		TSIAMIS, 2012
<i>Schottera nicaeensis</i> (Lamouroux ex Duby) Guiry & Hollenberg = <i>Petroglossum nicaeense</i> (Lamouroux ex Duby) Schotter	ATHANASIADIS, 1987	GIACCONE, 1968a	TSEKOS & HARITONIDIS, 1977
<i>Sebdenia dichotoma</i> Berthold			TSIAMIS <i>et al.</i> , 2013c
<i>Sebdenia rodrigueziana</i> (J. Feldmann) Codomier ex Athanasiadis	ATHANASIADIS, 1987		
<i>Sphaerococcus coronopifolius</i> Stackhouse = <i>Rhynchococcus coronopifolius</i> (Stackhouse) Kützing = <i>Haematocelis fissurata</i> Crouan <i>frat.</i>	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Spongites fruticosus</i> Kützing = <i>Spongites ramulosus</i> (Philippi) Kützing = <i>Lithothamnion fruticosum</i> (Kützing) Foslie = <i>Lithothamnion fruticosum</i> f. <i>clavulatum</i> Foslie = <i>Lithothamnion fruticosum</i> f. <i>kuetzingii</i> Foslie = <i>Lithothamnion fruticosum</i> f. <i>ramulosum</i> (Philippi) Foslie	ATHANASIADIS, 1987	RÖSLER <i>et al.</i> , 2016	TSEKOS <i>et al.</i> , 1982
<i>Stylonema alsidii</i> (Zanardini) Drew = <i>Goniotrichum alsidii</i> (Zanardini) Howe = <i>Goniotrichum elegans</i> (Chauvin) Zanardini = <i>Goniotrichum elegans</i> var. <i>alsidii</i> (Zanardini) Zanardini	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Stylonema cornu-cervi</i> Reinsch = <i>Goniotrichum cornu-cervi</i> (Reinsch) Hauck	CHRYSOVERGIS, 1995	LAZARIDOU, 1994	DIAPOULIS & HARITONIDIS, 1987b

<i>Tenarea tortuosa</i> (Esper) Lemoine = <i>Lithophyllum tortuosum</i> (Esper) Foslie = <i>Tenarea undulosa</i> Bory nom. illeg.	TSIAMIS, 2012	ATHANASIADIS, 1995	HARITONIDIS & TSEKOS, 1976
<i>Thuretella schousboei</i> (Thuret) Schmitz	ATHANASIADIS, 1987		SCHNETTER & SCHNETTER, 1981
<i>Tricleocarpa fragilis</i> (Linnaeus) Huisman & Townsend = <i>Galaxaura oblongata</i> (Ellis & Solander) Lamouroux = <i>Tricleocarpa oblongata</i> (Ellis & Solander) Huisman & Borowitzka = <i>Galaxaura adriatica</i> Zanardini	ATHANASIADIS, 1987	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981
<i>Verlaquea lacerata</i> (J. Feldmann) Le Gall & Vergés = <i>Kallymenia lacerata</i> J. Feldmann	ATHANASIADIS, 1987		
<i>Wurdemannia miniata</i> (Sprengel) J. Feldmann & Hamel	TSIAMIS, 2012	LAZARIDOU, 1994	SCHNETTER & SCHNETTER, 1981

1. Synonymy based on ROSAS-ALQUICIRA *et al.* (2010).
2. Reported by ATHANASIADIS (1987) as *Bangia atropurpurea*.
3. Synonym of *Ellisolandia elongata* (Ellis & Solander) Hind & Saunders based on GUIRY & GUIRY (2018). However, we follow ATHANASIADIS (2016), who questions the raise of *Ellisolandia* since no morphological or anatomical differences were indicated between *Ellisolandia* and *Corallina*, but their separation was based on the differentiation of several gene sequences.
4. *Gelidium pectinatum* Montagne contained in its protologue the citation of *Fucus serra* Gmelin and thus was considered as illegitimate. Excluding *F. serra*, a new combination was proposed, as *G. bipectinatum* (see FURNARI *et al.*, 1999). However, based on ATHANADIADIS (2016: 405), *F. serra* corresponds to a crinoid animal and hence the name *G. pectinatum* Montagne should be re-instated, while *G. bipectinatum* should be considered as a superfluous substitute.
5. The generic attribution of *Hydrolithon farinosum* is uncertain in the absence of molecular data (RÖSLER *et al.*, 2016). To be mentioned that ATHANASIADIS (2016: 272) treated the genus *Hydrolithon* as distinct from *Fosliella*. Here, we tentatively follow CORMACI *et al.* (2017) in considering *Fosliella* and *Hydrolithon* as congeneric.
6. Based on ROSAS-ALQUICIRA *et al.* (2011) the taxonomic status of this species is uncertain since the type specimen has not been studied under modern standards. Treated as taxonomically valid by CORMACI *et al.* (2017).
7. The distinction between the genera *Lithophyllum* and *Titanoderma* is controversial. Here we follow CORMACI *et al.* (2017) in considering them congeneric, with *Lithophyllum* having nomenclatural priority. ATHANASIADIS (2016) treats them as distinct.
8. Misidentified as *Lithophyllum expansum* (ATHANASIADIS, 2016: 325).
9. We follow CORMACI *et al.* (2017) giving nomenclature priority to *Lithophyllum trochanter* instead of *Titanoderma trochanter*. We also agree with them that records (including the ones from Greece) of *Lithophyllum byssoides* (Lamarck) Foslie [= *Lithothamnion byssoides* (Lamarck) Philippi, = *Goniolithon byssoides* (Lamarck) Foslie] which predate WOELKERLING (1998) paper should be referred to as *Lithophyllum trochanter*.
10. Placed in synonym with *Lithothamnion corallioides* by ATHANASIADIS (2016: 215).
11. Based on LE GALL & SAUNDERS (2010) Mediterranean records of *Nemalion elminthoides* (Velley) Batters correspond to *N. lubricum*, while the former is found in the Atlantic Ocean.
12. We follow ATHANASIADIS (2016: 536-537) in considering *Phyllophora nervosa* as a synonym of *P. spiralis*.
13. Based on the molecular work of SAUNDERS & LEHMKUHL (2005), world-wide reports of this NE Atlantic species possibly represent other species of the genus. To note that Greek plants are much smaller in size than the NE Atlantic plants (see also ATHANASIADIS, 1987: 56).
14. We follow ATHANASIADIS (2016: 685) in giving priority to *Rhizophyllis squamariae* instead of *Contarinia squamariae* based on the species zonate tetrasporangia.

Table 2. Rhodophyta algal taxa (excluding Ceramiales) pending confirmation in Greece, based on undocumented records. For each taxon a basic reference is provided together with applied synonyms in previous Greek records

Taxa	Greece
<i>Acrochaetium molinieri</i> Coppejans & Boudouresque	DIAPOULIS & HARITONIDIS, 1987a
<i>Botryocladia chiajeana</i> (Meneghini) Kylin	CATRA & GIARDINA, 2009
<i>Botryocladia microphysa</i> (Hauck) Kylin	TSIRIKA & HARITONIDIS, 2005
<i>Catenella caespitosa</i> (Withering) Irvine = <i>Catenella opuntia</i> (Goodenough & Woodward) Greville	TSEKOS <i>et al.</i> , 1982
<i>Chondrymenia lobata</i> (Meneghini) Zanardini	PETKOFF, 1943
<i>Chylocladia pelagosae</i> Ercegović	CATRA & GIARDINA, 2009
<i>Colaconema leptonema</i> (Rosenvinge) Alongi, Cormaci & G.Furnari = <i>Audouinella leptonema</i> (Rosenvinge) Garbary	CHRYSOVERGIS, 1995
<i>Colaconema savianum</i> (Meneghini) Nielsen = <i>Acrochaetium savianum</i> (Meneghini) Nägeli = <i>Audouinella saviana</i> (Meneghini) Woelkerling = <i>Callithamnion pygmaeum</i> Kützting	CHRYSOVERGIS, 1995
<i>Cruoria cruoriiformis</i> (Crouan <i>frat.</i> ) Denizot = <i>Cruoria purpurea</i> Crouan <i>frat. nom. illeg.</i>	CATRA & GIARDINA, 2009
<i>Cryptonemia tunaeformis</i> (Bertolini) Zanardini	HUVE, 1962
<i>Erythrocladia irregularis</i> Rosenvinge <sup>(1)</sup>	TSIRIKA & HARITONIDIS, 2005
<i>Erythrotrichia bertholdii</i> Batters	SCHNETTER & SCHNETTER, 1981
<i>Erythrotrichia investiens</i> (Zanardini) Bornet = <i>Bangia investiens</i> Zanardini	SCHNETTER & SCHNETTER, 1981
<i>Feldmannophycus rayssiae</i> (J. Feldmann & G. Feldmann) Augier & Boudouresque	LAZARIDOU, 1994 <sup>(2)</sup>
<i>Furcellaria lumbricalis</i> (Hudson) Lamouroux = <i>Furcellaria fastigiata</i> (Turner) Lamouroux	HARITONIDIS & TSEKOS, 1976
<i>Gelidium corneum</i> (Hudson) Lamouroux <sup>(3)</sup> = <i>Sphaerococcus corneus</i> (Hudson) Stackhouse	HARITONIDIS & TSEKOS, 1976
<i>Gelidium minusculum</i> (Weber-van Bosse) R.E. Norris = <i>Gelidium pusillum</i> var. <i>minusculum</i> Weber-van Bosse	CATRA & GIARDINA, 2009
<i>Gelidium spathulatum</i> (Kützting) Bornet	SCHNETTER & SCHNETTER, 1981
<i>Gelidium spinosum</i> var. <i>hystrix</i> (J. Agardh) Furnari = <i>Gelidium latifolium</i> var. <i>hystrix</i> (J. Agardh) Hauck	SCHNETTER & SCHNETTER, 1981
<i>Gloiocladia repens</i> (C. Agardh) Sánchez & Rodríguez-Prieto = <i>Fauchea repens</i> (C. Agardh) Montagne & Bory	HUVE, 1962
<i>Gracilaria armata</i> (C. Agardh) Greville = <i>Sphaerococcus armatus</i> C. Agardh	ORFANIDIS <i>et al.</i> , 2001
<i>Gracilaria gracilis</i> (Stackhouse) Steentoft, Irvine & Farnham <sup>(4)</sup>	CHRISTIA <i>et al.</i> , 2011
<i>Gracilaria longa</i> Gargiulo, De Masi & Tripodi	MALEA & HARITONIDIS, 2001
<i>Gracilariopsis longissima</i> (S.G. Gmelin) Steentoft, Irvine & Farnham <sup>(4)</sup> = <i>Gigartina confervoides</i> (Wiggers) Lamouroux = <i>Gracilaria confervoides</i> (Wiggers) Greville = <i>Gracilaria verrucosa</i> (Hudson) Papenfuss = <i>Sphaerococcus confervoides</i> (Linnaeus) C. Agardh <i>nom. illeg.</i>	CHRISTIA <i>et al.</i> , 2011
<i>Gymnogongrus crenulatus</i> (Turner) J. Agardh = <i>Chondrus norvegicus</i> sensu Lamouroux	BORY, 1832
<i>Helminthora divaricata</i> (C. Agardh) J. Agardh	SCHNETTER & SCHNETTER, 1981

<i>Huismaniella ramellosa</i> (Kützinger) G. Boo & S. Boo = <i>Gelidiella ramellosa</i> (Kützinger) J. Feldmann & Hamel	ORFANIDIS <i>et al.</i> , 2001
<i>Hydrolithon cruciatum</i> (Bressan) Chamberlain	TSIRIKA & HARITONIDIS, 2005
<i>Hydrolithon farinosum</i> var. <i>chalicodictyum</i> (Taylor) Serio	CATRA & GIARDINA, 2009
<i>Hypnea furnariana</i> Cormaci, Alongi & Dinaro	CATRA & GIARDINA, 2009
<i>Jania squamata</i> (Linnaeus) Kim, Guiry & Choi = <i>Corallina squamata</i> Linnaeus = <i>Halitilton squamatum</i> (Linnaeus) Johansen, Irvine & Webster	DIANNELIDIS <i>et al.</i> , 1977
<i>Liagora distenta</i> (Mertens ex Roth) Lamouroux	CATRA & GIARDINA, 2009
<i>Lithophyllum byssoides</i> (Lamarck) Foslie = <i>Lithophyllum lichenoides</i> Philippi = <i>Lithophyllum tortuosum</i> f. <i>cristatum</i> (Meneghini) Foslie	GIACCONE 1968a
<i>Lithophyllum corallinae</i> (Crouan <i>frat.</i> ) Heydrich = <i>Melobesia corallinae</i> Crouan <i>frat.</i>	DIANNELIDIS, 1953
<i>Lithothamnion crispatum</i> Hauck = <i>Lithophyllum crispatum</i> (Hauck) Hauck	DIANNELIDIS <i>et al.</i> , 1977
<i>Lithothamnion sonderi</i> Hauck	SCHNETTER & SCHNETTER, 1981
<i>Lomentaria articulata</i> (Hudson) Lyngbye var. <i>articulata</i>	DIAPOULIS & HARITONIDIS, 1987a
<i>Lomentaria articulata</i> var. <i>linearis</i> Zanardini = <i>Lomentaria linearis</i> (Zanardini) Zanardini ex Kützinger	CATRA & GIARDINA, 2009
<i>Lomentaria clavaeformis</i> Ercegović	TSIRIKA & HARITONIDIS, 2005
<i>Lomentaria uncinata</i> Meneghini in Zanardini = <i>Chylocladia uncinata</i> (Meneghini in Zanardini) Kützinger	PETKOFF, 1943
<i>Mesophyllum lichenoides</i> (Ellis) Lemoine = <i>Lithothamnion lichenoides</i> (Ellis) Foslie	CHRYSOVERGIS, 1995
<i>Millerella pannosa</i> (J. Feldmann) Boo & Gall = <i>Gelidiella pannosa</i> (J. Feldmann) J. Feldmann & Hamel = <i>Gelidiella tenuissima</i> J. Feldmann & Hamel <i>nom. illeg.</i>	DIAPOULIS & HARITONIDIS, 1987a
<i>Naccaria wiggii</i> (Turner) J. Agardh	SCHNETTER & SCHNETTER 1981
<i>Peyssonnelia inamoena</i> Pilger	SCHNETTER & SCHNETTER, 1981
<i>Phyllophora herediae</i> (Clemente) J. Agardh = <i>Sphaerococcus herediae</i> (Clemente) C. Agardh	BORY, 1832
<i>Phyllophora sicula</i> (Kützinger) Guiry & Irvine = <i>Phyllophora palmettoides</i> J. Agardh	SCHNETTER & SCHNETTER, 1981
<i>Porphyra dioica</i> Brodie & Irvine <sup>(5)</sup> = <i>Porphyra laciniata</i> auctorum	HARITONIDIS, 1978
<i>Porphyra linearis</i> Greville	TSIAMIS <i>et al.</i> , 2013b
<i>Porphyra purpurea</i> (Roth) C. Agardh <sup>(5)</sup>	DIANNELIDIS <i>et al.</i> , 1977
<i>Porphyra umbilicalis</i> Kützinger <sup>(5)</sup> = <i>Ulva umbilicalis</i> Linnaeus = <i>Porphyra umbilicalis</i> (Linnaeus) J. Agardh <i>nom. illeg.</i>	DIANNELIDIS <i>et al.</i> , 1977
<i>Pyropia leucosticta</i> (Thuret) Neefus & Brodie <sup>(5)</sup> = <i>Porphyra leucosticta</i> Thuret	DIANNELIDIS <i>et al.</i> , 1977
<i>Rhodochorton purpureum</i> (Lightfoot) Rosenvinge = <i>Rhodochorton rothii</i> auctorum	DIAPOULIS & HARITONIDIS, 1987b
<i>Rhodymenia delicatula</i> Dangeard	CATRA & GIARDINA, 2009
<i>Rhodymenia ligulata</i> Zanardini	CATRA & GIARDINA, 2009
<i>Rhodymenia pseudopalmata</i> (Lamouroux) Silva = <i>Rhodymenia palmetta</i> (Stackhouse) Greville	GIACCONE, 1968a

<p><i>Schizymenia dubyi</i> (Chauvin ex Duby) J. Agardh = <i>Schizymenia minor</i> (J. Agardh) J. Agardh</p>	<p>TSIRIKA &amp; HARITONIDIS, 2005</p>
<p><i>Scinaia furcellata</i> (Turner) J. Agardh</p>	<p>NIKOLAIDIS &amp; HARITONIDIS, 1990</p>
<p>1. The description and illustration by LAZARIDOU (1994: 44) should refer to <i>Sahlingia subintegra</i>. 2. LAZARIDOU (1994: 72) description cannot allow safe identification due to the lack of reproductive structures. 3. The occurrence of this species in the Mediterranean Sea is doubtful, while there is a high chance of confusion with the common Mediterranean species <i>Gelidium spinosum</i> (FURNARI <i>et al.</i>, 1999: 35). 4. Greek records might refer to <i>Gracilaria gracilis</i> and/or <i>Gracilariopsis longissima</i>, pending investigation of new specimens under modern taxonomic concept. 5. The occurrence of this species in the Mediterranean requires confirmation (BRODIE <i>et al.</i>, 2007; CORMACI <i>et al.</i>, 2017).</p>	

## Morske alge grčke obale: Rhodophyta bez Ceramiales

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### SAŽETAK

U radu autori prikazuju ažurirani popis crvenih morskih algi grčkih obala (Rhodophyta), isključujući red Ceramiales, koji se temelji na literaturnim zapisima, te je kritički pregledan s današnjih taksonomskih i nomenklturnih aspekata. Ukupan broj rodova, vrsta i infraspecifičnih taksona koji su trenutno prihvaćeni je 78, 138 i 4, respektivno.

Prikazana je pojava svake svojte u sjevernom i južnom Egejskom moru i u Jonskom moru. Uočene su praznine u znanju, tj. s 57 taksona koji čekaju potvrdu njihove prisutnosti. Štoviše, ukratko se raspravlja o 13 isključenih i 12 ispitivanih svojti. U cjelini, osigurana je čvrsta ažurirana osnovica pojavljivanja Rhodophyta (isključujući Ceramiales) u Grčkoj, što je presudno za buduće studije usmjerene na ciljane vrste.

Ključne riječi: Egejsko more, crvene alge, Rhodophyta, popis vrsta, Jonsko more