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.

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 19th 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-
céae and the Ceramiales (Rhodophyta) of the Greek coasts (TSIAMIS et al., 2013a, 2014; TSIAMIS & PANAYOTIDIS, 2016a).

**MATERIAL AND METHODS**

From the early 19th 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.

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 Gymnopogon grus species.

**Colaconema caespitosum** (J. Agardh) Jackelman, Stegenga & Bolton

\( \equiv \) *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 *Colaconema codicola* (Børgesen) Jackelman, Stegenga & Bolton (see also BIDOUX & MAGNE, 1989; VERLAQUE et al., 2015: 139).

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

\( \equiv \) *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

\( \equiv \) *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. GIACONE, 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

\( \equiv \) *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.

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

\( \equiv \) *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

\( \equiv \) *Nemalion lubricum* (see also LE GALL & SAUNDERS, 2010).

**Phyllophora crispa** (Hudson) Dixon

\( \equiv \) *Phyllophora epiphylla* (O.F. Müller) Batters

\( \equiv \) *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.
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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

=E= Nullipora articulata Bory

Erected by BORY (1832: 206) based on plants collected from Sapience islet (Peloponnesse). 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 taxa inquirenda.

Bangia sericea Bory

This taxon was erected by BORY (1832: 334) based on plants collected from the South Peloponnesse coasts. Based on him and following studies (Preda, 1908-09) the species is close to Converva 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; Chryssogis, 1995) but in all cases lacking documentation.

Goniolithon subtenellum Foslie

= Lithothamnion subtenellum (Foslie) Lemoine

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 samoënee (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 Peloponesse 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 Areuschou

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 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 (WOE-LKERLING 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 GIACCONI (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. *Fossiliella*, *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       |
|-----------------------------------------------------------|--------------|--------------|------------------|
| Acrochaetium crassipes (Børgesen) Børgesen = Audouinella crassipes (Børgesen) Garbary | ATHANASIADIS, 1987 | DIAPOULIS & HARITONIDIS, 1987a | DIAPOULIS & HARITONIDIS, 1987b |
| Acrochaetium humile (Rosenvinge) Børgesen = Audouinella humilis (Rosenvinge) Garbary | ATHANASIADIS, 1987 | | |
| Acrochaetium mediterraneum (Leving) Athanasiadis = Audouinella mediterranea (Leving) Ballesteros nom. inval. | DIAPOULIS & HARITONIDIS, 1984 | LAZARIDOU, 1994 | TSIRIKA & HARITONIDIS, 2005 |
| Acrochaetium microscopicum (Nägeli ex Kützing) Nägeli = Audouinella microscopica (Nägeli ex Kützing) Woelkerling | CHRYSSOVERGIS & PANAYOTIDIS, 1995 | LAZARIDOU, 1994 | TSIRIKA & HARITONIDIS, 2005 |
| Acrochaetium secundatum (Lyngbye) Nägeli = Audouinella secundata (Lyngbye) Dixon = Audouinella virgatula (Harvey) Batters = Audouinella virgatula (Harvey) Dixon | DIANNELIDIS, 1953 | LAZARIDOU, 1994 | TSIRIKA & HARITONIDIS, 2005 |
| Acrodiscus vidovichii (Meneghini) Zanardini = Chondrus vidovichii Meneghini = Cryptonemia vidovichii (Meneghini) Zanardini | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Acrosymphyton purpuriferum (J. Agardh) Sjöstedt = Dudresnaya purpurifera (J. Agardh) Papenfuss = Helminthiopsis purpurifera (J. Agardh) Papenfuss | ATHANASIADIS, 1987 | DIANNELIDIS et al., 1977 | SCHNETTER & SCHNETTER, 1981 |
| Amphiroa beauvoisii Lamouroux = Amphiroa cryptarthrodia Zanardini = Amphiroa verruculosa Kützing nom. illeg. | KOUSSOUSIRI et al., 1973 | BITIS, 1988 | |
| Amphiroa fragilissima (Linnaeus) Lamouroux | CATRA & GIARDINA, 2009 | | |
| Amphiroa rigida Lamouroux = Amphiroa rubra (Philippi) Woelkerling | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | BITIS, 1988 |
| Asparagopsis armata Harvey = Falkenbergia rufolanosa (Harvey) Schmitz | CHRYSSOVERGIS, 1995 | PANAYOTIDIS & CHRYSSOVERGIS, 1998 | CATRA & ALONGI, 2012 |
| Asparagopsis taxiformis (Delile) Trevisan | TSIAMIS, 2012 | TSIAMIS, 2012 | TSIAMIS, 2012 |
| Bangia fasciculata (Dillwyn) Lyngbye = Hymenoclonium serpens (Crouan frat.) Batters | ATHANASIADIS, 1987 | DIANNELIDIS et al., 1977 | SCHNETTER & SCHNETTER, 1981 |
| Beckerella dentata (Kützing) Athanasiadis = Beckerella mediterranea H. Huvé = Phyllophora mediterranea (H. Huvé) Norris = Phyllophora aegae Giaccone nom. inval. | GIACCONE, 1968b | HUVE, 1962 | |
| Bonnemaisonia asparagoides (Woodward) C. Agardh = Hymenoclonium serpens (Crouan frat.) Batters | ATHANASIADIS, 1987 | DIAPOULIS et al., 1986 | |
| Bonnemaisonia clavata Hamel = Botryocladia botryoides (Wulfen) J. Feldmann | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Botryocladia botryoides (Wulfen) J. Feldmann = Botryocladia uvaria (C. Agardh) Kylin nom. illeg. = Chrysymenia uvaria (C. Agardh) J. Agardh nom. illeg. = Gastroclonium uvarium (C. Agardh) Kützing nom. illeg. | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | TSIAMIS & VERLAQUE, 2011 |
| Botryocladia madagascariensis G. Feldmann | CATRA & GIARDINA, 2009 | | |
| Species                                                                 | Author (Year)         | Reference (Year) |
|------------------------------------------------------------------------|-----------------------|------------------|
| Calosiphonia vermicularis (J. Agardh) Schmitz                          | ATHANASIADIS, 1987    | DIAPOULIS & HARITONIDIS, 1987a |
| Caulacanthus ustulatus (Mertens ex Turner) Kützing                      | ATHANASIADIS, 1987    | SCHNETTER & SCHNETTER, 1981 |
| Champa parsula (C. Agardh) Harvey                                       | ATHANASIADIS, 1987    | LAZARIDOU, 1994   |
| Chondracanthus acicularis (Roth) Fredericq                             | DIAPOULIS & HARITONIDIS, 1984 | DIANNELIDIS et al., 1977 |
| Chondracanthus teedei (Mertens in Roth) Kützing                        | ANAGNOSTIDIS, 1968    | BITIS, 1988       |
| Choreonema thurettii (Bornt) Schmitz                                   | ATHANASIADIS, 1987    | TSIRIKA & HARITONIDIS, 2005 |
| Chroodactylon ornatum (C. Agardh) Basson                               | ATHANASIADIS, 1987    | SCHNETTER & SCHNETTER, 1981 |
| Chrysymenia ventricosa (Lamouroux) J. Agardh                           | ATHANASIADIS, 1987    | LAZARIDOU, 1994   |
| Colaconema daviesii (Dillwyn) Stegenga                                 | ATHANASIADIS, 1987    | CATRA & GIARDINA, 2009 |
| Corallina caespitosa Walker, Brodie & Irvine                           | WALKER et al., 2009   | BITIS, 1988       |
| Corallina elongata Ellis & Solander (*)                                 | ATHANASIADIS, 1987    | ATHANASIADIS, 1987 |
| Corallina officinalis Linnaeus                                         | DIAANNELIDIS, 1953    | LAZARIDOU, 1994   |
| Cryptonemia lomation (Bertoloni) J. Agardh                             | ATHANASIADIS, 1987    | LAZARIDOU, 1994   |
| Dudresnaya verticillata (Velley in Withering) Le Jolis                  | ATHANASIADIS, 1987    | TSIAMIS et al., 2013b |
| Erythrotrichia carnea (Dillwyn) J. Agardh                              | ATHANASIADIS, 1987    | LAZARIDOU, 1994   |
| Fanonema farinosum (Lamouroux) Fan & Wang                              | TSIAMIS, 2012         | TSIAMIS, 2012     |
| Gastroclonium clavatum (Roth) Ardisson                                 | ATHANASIADIS, 1987    | TSIAMIS et al., 2013b |
| Gelidiella lubrica (Kützing) J. Feldmann & Hamel                       | ATHANASIADIS, 1987    | CATRA & GIARDINA, 2009 |
| Gelidium crinale (Turner) Gaillon                                     | ANAGNOSTIDIS, 1968    | DIAPOULIS & HARITONIDIS, 1987a |
| Gelidium pectinatum Montagne                                | TSIAMIS, 2012         | LAZARIDOU, 1994   |

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1. Mertens
2. Turner
3. Kützing
4. Furnari
5. Greville
6. W.J. Hooker
7. Thwaites in Harvey
8. C. Agardh
9. Lamouroux
10. Roth
11. Areschoug
12. Withering
| Species                                                                 | Author                  | Year 1  | Year 2                           | Year 3                          |
|------------------------------------------------------------------------|-------------------------|---------|----------------------------------|---------------------------------|
| Gelidium pulchellum (Turner) Kützing                                    |                         |         |                                  |                                 |
| Gelidium pusillum (Stackhouse) Le Jolis = Gelidium intricatum Lamouroux |                         |         |                                  |                                 |
| Gelidium spinosum (S.G. Gmelin) Silva = Gelidium latifolium (Greville)  |                         |         |                                  |                                 |
| Gracilaria bursa-pastoris (S.G. Gmelin) Silva = Gracilaria compressa (C. Agardh) Greville | |         |                                  |                                 |
| Gracilaria coralllica Zanardini                                         |                         |         |                                  |                                 |
| Gracilaria dura (C. Agardh) J. Agardh = Sphaerococcus durus C. Agardh   |                         |         |                                  |                                 |
| Grateloupia filicina (Lamouroux) C. Agardh                             |                         |         |                                  |                                 |
| Gymnogongrus griffithsiae (Turner) Martius                             |                         |         |                                  |                                 |
| Halarachnion ligulatum (Woodward) Kützing                              |                         |         |                                  |                                 |
| Halymenia elongata C. Agardh = Halymenia trigona auctorum = ? Halymenia cavernicola Giaccone nom. inval. | |         |                                  |                                 |
| Halymenia floresii (Clemente) C. Agardh = Halymenia floresii var./f. macropera Kützing = Halymenia floresii var./f. tripinnata Kützing | |         |                                  |                                 |
| Halymenia latifolia Crouan frat. ex Kützing                             |                         |         |                                  |                                 |
| Hildenbrandia rubra (Sommerfelt) Meneghini = Hildenbrandia prototypus Nardo |                         |         |                                  |                                 |
| Hydrolython boreale (Foslie) Chamberlain = Melobesia farinosa f. callithamniioides Foslie = Hydrolython farinosum f. callithamniioides (Foslie) Serio = Melobesia solmsiana Falkenberg = Fostiella farinosa var. solmsiana (Falkenberg) Taylor = Melobesia farinosa var. solmsiana (Falkenberg) Lemoine = Melobesia callithamniioides sensu Falkenberg | |         |                                  |                                 |
| Hydrolython farinosum (Lamouroux) Penrose & Chamberlain var. farinosum = Melobesia farinosa Lamouroux = Fostiella farinosa (Lamouroux) Howe | |         |                                  |                                 |
| Hypnea anastomosans Papenfuss, Lipkin & Silva                          |                         |         |                                 |                                 |
| Hypnea cornuta (Kützing) J. Agardh                                     |                         |         |                                 |                                 |
| Hypnea musciformis (Wulfen) Lamouroux                                   |                         |         |                                 |                                 |
| Hypnea spinellae (C. Agardh) Kützing = Hypea cervicornis auctorum       |                         |         |                                 |                                 |
| Hypnea valentiae (Turner) Montagne                                     |                         |         |                                 |                                 |
| Irvinia boergesenii (J. Feldmann) Wilkes, McIvor & Guiry = Botroycladia boergesenii J. Feldmann | |         |                                  |                                 |
| Jania adhaerens Lamouroux                                              |                         |         |                                 |                                 |

TSIAMIS AND PANAYOTIDIS.: Seaweeds of the Greek coasts: Rhodophyta excluding Ceramiales...
| Species                                                                 | Author(s) 1953                        | Author(s) 1987a                        | Author(s) 1981                        |
|-----------------------------------------------------------------------|---------------------------------------|----------------------------------------|---------------------------------------|
| Jania longifurca Zanardini ex Zanardini                               | Dianzelidis                         | Diapoulis & Hartonidis                 | Schnetter & Schnetter                  |
| Jania rubens (Linnaeus) Lamouroux var. rubens = Coralina rubens Linnaeus | Athanasiadis                        | Lazaridou                               | Bitis                                  |
| Jania rubens var. corniculata (Linnaeus) Yendo = Jania corniculata (Linnaeus) Lamouroux | Athanasiadis                        | Lazaridou                               | Schnetter & Schnetter                  |
| Jania virgata (Zanardini) Montagne = Coralina virgata Zanardini = Haliptilon virgatum (Zanardini) Garbary & Johansen = Coralina virgata var. attenuata (Kützing) Schiiffner & Schussnig = Coralina virgata var. penicillata Schiiffner = Coralina granifera Ellis & Solander | Athanasiadis                        | Lazaridou                               | Schnetter & Schnetter                  |
| Lioagara vescia (Forsskål) C. Agardh = Liagora cladoniaeformis Bory   | Athanasiadis                        | Lazaridou                               | Schnetter & Schnetter                  |
| Lithophyllum cystoseirae (Hauck) Heydricht = Melobesa cystoseiae Hauck = Titanodermia cystoseiae (Hauck) Woelkerling, Chamberlain & Silva | Athanasiadis                        | Lazaridou                               | Tsirika & Hartonidis                   |
| | = Dermatolithon cystoseirae (Hauck) Huvé = Dermatolithon papillosum var. cystoseirae (Hauck) Lemoine | Athanasiadis                        | Lazaridou                               | Tsirika & Hartonidis                   |
| Lithophyllum dentatum (Kützing) Foslie                                | Athanasiadis                        | Lazaridou                               | Schnetter & Schnetter                  |
| Lithophyllum incrustans Philippi                                      | Diapoulis & Hartonidis              | Lazaridou                               | Bitis                                  |
| Lithophyllum papillosum (Zanardini ex Hauck) Foslie = Dermatolithon papillosum (Zanardini ex Hauck) Foslie = Gonioolithon papillosum (Zanardini ex Hauck) Foslie | Athanasiadis                        | Lazaridou                               | Schnetter & Schnetter                  |
| Lithophyllum pustulatum (Lamouroux) Foslie                            | Athanasiadis                        | Catra & Giardina                        | Schnetter & Schnetter                  |
| | = Melobesa pustulata Lamouroux = Dermatolithon pustulatum (Lamouroux) Foslie = Titanodermia pustulatum (Lamouroux) Nägeli = Titanodermia hapalidioides (Crouan frat.) Price, John & Lawson = Titanodermia verrucatam (Lamouroux) Chamberlain | Athanasiadis                        | Catra & Giardina                        | Schnetter & Schnetter                  |
| Lithophyllum racemus (Lamarck) Foslie = Lithothamnion crassum Philippi = Lithothamnion crassum (Philippi) Heydrich nom. illeg. | Balbini & Bressan                   | Lemoine, 1915                           | Giaccone, 1968c                        |
| Lithophyllum stictaeforme (Areschoug) Hauck = Lithophyllum expansum f. stictaeformis (Areschoug) Foslie = Lithophyllum frontosum (Dufour) Furnari, Cormaci & Alongi = Pseudolithophyllum expansum f. stictaeformis Philippi | Athanasiadis                        | Giaccone, 1968a                         | Tsirika & Hartonidis                   |
| | = Lithothamnion solutum (Lamarck) Schweigger = Nullipora trochanter (Bory) Huvé ex Woelkerling = Titanodermia trochanter (Bory) Berhissoune, Boudouresque, Perret-Boudouresque & Verlaque | Athanasiadis                        | Giaccone, 1968a                         | Tsirika & Hartonidis                   |
| |                     = Lithothamnion corallidiores (Crouan frat.) Crouan frat. = Lithothamnion solutum (Foslie) Foslie = Lithothamnion solutum (Foslie) Lemoine = Nullipora informis (Lamarck) Schweigger | NIKOLAIDIS & HARTONIDIS             | Athanasiadis, 2016                      | Bory, 1832                            |
| | = Lithothamnion minervae Basso = Lithothamnion fruticulosum auctorum = ? Lithothamnion fruticulosum f. crassiusculum Foslie | Balbini & Bressan                   | Lemoine, 1915                           | Schnetter & Schnetter                  |
| |                                                                        |                                       |                                        | Giaccone, 1968c                        |
| Species                              | Authors                               | Year(s)       | Authors                               | Year(s)       |
|--------------------------------------|---------------------------------------|---------------|---------------------------------------|---------------|
| Lomentaria chylocladiella Funk       | ATHANASIADIS                          | 1987          | CATRA & GIARDINA                      | 2009          |
|                                      |                                       |               | TSIRIKA & HARITONIDIS                 | 2005          |
| Lomentaria clavellosa (Lightfoot ex Turner) Gaillon | ATHANASIADIS                          | 1987          | GERLOFF & GEISSLER                    | 1974          |
|                                      |                                       |               | DIAPOULIS & HARITONIDIS               | 1987b         |
| Lomentaria compressa (Kützing) Kylin  | GIACONE                               | 1968a         | BITIS                                | 1988          |
| Lomentaria ercegoviicí Verlaque, Boudouresque, Meinesz, Giraud & Marcot-Coquengniet = Lomentaria tenera Ercegoviicí nom. illeg. | LAZARIDOU     | 1994          | TSIAMIS                               | 2012          |
| Melobesia membranacea (Esper) Lamouroux = Epithith memranacea (Esper) Heydrich = Lithothamnion membranacea (Esper) Foslie = Lapaludium roseolum Kützing | ATHANASIADIS | 1987          | LAZARIDOU                             | 1994          |
|                                      |                                       |               | DIAPOULIS & HARITONIDIS               | 1987b         |
| Meredithia microphylla (J. Agardh) J. Agardh = Kalymenia microphylla J. Agardh | ATHANASIADIS | 1987          | LAZARIDOU                             | 1994          |
|                                      |                                       |               | SCHNETTER & SCHNETTER                 | 1981          |
| Mesophyllum expansum (Philippi) Cabioch & Mendoza = Lithophyllum expansum Philippi = Cordelia expansa (Philippi) Kylin = Lithothamnion expansum (Philippi) Foslie = Pseudolithophyllum expansum (Philippi) Lemoine | ATHANASIADIS & NETO | 2010          | LAZARIDOU                             | 1994          |
|                                      |                                       |               | HUVE                                  | 1962          |
| Mesophyllum macedonis Athanasiadis     | ATHANASIADIS                          | 1999          |                                       |               |
| Mesophyllum philippii (Foslie) Adey = Lithothamnion philippii Foslie | LEMOINE     | 1915          |                                       |               |
|                                      |                                       |               | SCHNETTER & SCHNETTER                 | 1981          |
| Metapeyssonnelia feldmannii Boudouresque, Coppejans & Marcot | CATRA & ALONGI | 2013          |                                       |               |
| Nemalion lubricum Duby = Nemalion elminithoides auctorum (11) = Alcyonidium nemalion auctorum | ATHANASIADIS | 1987          | TSIAMIS et al.                        | 2013b         |
|                                      |                                       |               | BITIS                                | 1988          |
| Nemastoma dichotomum J. Agardh var. dichotomum | ATHANASIADIS | 1987          | KOUSSOURIS et al.                     | 1973          |
|                                      |                                       |               | SCHNETTER & SCHNETTER                 | 1981          |
| Nemastoma dichotomum var. biasolettianum (Kützing) Rodríguez-Prieto, Verlaque & Vergès | TSIAMIS         | 2012          |                                       |               |
| Neogoniolithon brassica-florida (Harvey) Setchell & Mason = Neogoniolithon notariisii (Dufour) Hamel & Lemoine = Spongistes notariisii (Dufour) Athanasiadis | ATHANASIADIS | 1987          | DIAPOULIS & HARITONIDIS               | 1987a         |
|                                      |                                       |               | SCHNETTER & SCHNETTER                 | 1981          |
| Neurocaulon foliosum (Meneghini) Zanardini ex Kützing = Cryptonemia forbesii Harvey in W.J. Hooker = Constantinea reniformis sensu Postels & Ruprecht = Neurocaulon reniforme auctorum | LAZARIDOU | 1994          | TSIAMIS et al.                        | 2010a         |
| Parviphyccus antipae (Celan) Santelices = Gelidiella antipae Celan | ATHANASIADIS | 1985          | LAZARIDOU                             | 1994          |
|                                      |                                       |               | TSIAMIS & HARITONIDIS                 | 2005          |
| Peyssonnelia armorica (Crouan frat.) Weber van Bosse = Cruoriella armorica Crouan frat. | ATHANASIADIS | 1985          | CATRA & GIARDINA                      | 2009          |
| Peyssonnelia bornetti Boudouresque & Denizot | ATHANASIADIS | 1985          | LAZARIDOU                             | 1994          |
|                                      |                                       |               | TSIAMIS & HARITONIDIS                 | 2005          |
| Peyssonnelia cornacea J. Feldmann    | TSIAMIS et al.                        | 2010a         |                                       |               |
| Peyssonnelia crispata Boudouresque & Denizot | ATHANASIADIS | 1985          | LAZARIDOU                             | 1994          |
| Peyssonnelia dubyi Crouan frat.      | ATHANASIADIS                          | 1985          | CATRA & GIARDINA                      | 2009          |
| Species                                  | Author & Year | Author & Year | Author & Year |
|------------------------------------------|---------------|---------------|---------------|
| Peyssonnelia harveyana J. Agardh          | ATHANASIADIS, 1987 | CATRA & GIARDINA, 2009 | DIAPOULIS & HARITONIDIS, 1987b |
| Peyssonnelia heteromorpha (Zanardini) Athanasiadis = Peyssonnelia polymorpha (Zanardini) Schmitz in Falkenberg | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Peyssonnelia imbersa Maggs & Irvine       | ATHANASIADIS, 1987 | | |
| Peyssonnelia orientalis (Weber-van Bosse) Cormaci & Furnari | | LAZARIDOU, 1994 | |
| Peyssonnelia rosa-marina Boudouresque & Denizot | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Peyssonnelia rubra (Greville) J. Agardh = Zonaria rubra Greville | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Peyssonnelia squamaria (S.G. Gmelin) Decaisne ex J. Agardh = Padina squamaria (S.G. Gmelin) Lamouroux ex Bory = Padina squamaria var. sanguinea Bory nom. illeg. | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Peyssonnelia stoechas Boudouresque & Denizot | | TSIAMIS, 2012 | TSIAMIS et al., 2010 |
| Phyllophora spiralis (Ginanni) Athanasiadis = Phyllophora nervosa (Lamouroux) Greville = Sphaerococcus nervosus (Lamouroux) C. Agardh = Phyllophora crispa auctorum | ATHANASIADIS, 1987 | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Phymatolithon calcareum (Pallas) Adey & McKibbin ex Woelkerling & Irvine = Lithothamnion calcareum (Pallas) Areschoug = Nullipora calcarea (Pallas) Lamarck = Phymatolithon polymorphum (Linnaeus) Foslie | BALBINI & BRESSAN, 1997 | LEMOINE, 1915 | SCHNETTER & SCHNETTER, 1981 |
| Phymatolithon lenormandii (Areschoug) Adey = Lithothamnion lenormandii (Areschoug) Foslie | HARITONIDIS, 1978 | LEMOINE, 1915 | DIAPOULIS & HARITONIDIS, 1987b |
| Platoma cyclocolpum (Montagne) Schmitz | ATHANASIADIS, 1987 | COPPEJANS, 1974 | SCHNETTER & SCHNETTER, 1981 |
| Plocamium cartilagineum (Linnaeus) Dixon = Plocamium coccineum var. uncinatum (C. Agardh) J. Agardh = Fucus coccineus Hudson | NIKOLAIIDIS & HARITONIDIS, 1990 | DIAPOULIS & HARITONIDIS, 1987a | SCHNETTER & SCHNETTER, 1981 |
| Pneophyllum confervicola (Kützing) Chamberlain = Hapalidium phylactidium Kützing nom. nov. illeg. = Fostiella minutula (Foslie) Ganesan comb. inval. = Pneophyllum confervicola f. minutulum (Foslie) Chamberlain | ATHANASIADIS, 1987 | CATRA & GIARDINA, 2009 | GRUNOW, 1861 |
| Pneophyllum coronatum (Rosanoff) Penrose = Pneophyllum rosanoffii Chamberlain | | | |
| Pneophyllum fragilis Kützing = Melobesia lejolisii Rosanoff = Fostiella lejolisii (Rosanoff) Howe = Pneophyllum lejolisii (Rosanoff) Chamberlain | | LAZARIDOU, 1994 | SCHNETTER & SCHNETTER, 1981 |
| Polystrata compacta (Foslie) Denizot ex Athanasiadis | ATHANASIADIS, 1987 | | |
| Porphyrostromium ciliare (Carmichael in WJ Hooker) Wynne | | TSIAMIS et al., 2010 | |
| Predarea ollivieri J. Feldmann | ATHANASIADIS, 1987 | DIAPOULIS & HARITONIDIS, 1987a | TSIAMIS, 2012 |
| Name                                      | Author(s)                  | References                  |
|-------------------------------------------|----------------------------|-----------------------------|
| Pterocladiella capillacea (S.G. Gelatin)  | Santelices & Hommersand    | DIANNELIDIS, 1953           |
|                                           |                            | ATHANASIADIS, 1987          |
|                                           |                            | BITIS, 1988                 |
| Pterocladiella melanoidea (Schousboe ex Bornet) Santelices & Hommersand | ATHANASIADIS, 1987          | LAZARIDOU, 1994             |
|                                           |                            | DIAPOULIS & HARITONIDIS, 1987b |
| Pyropia elongata (Kylin) Neefus & Brodie  | = Porphyra rosengurtii Coll & Cox | BRODIE et al., 2007         |
| Pyropia koreana (Hwang & Lee) Hwang, Choi, Oh & Lee | = Porphyra olivii Orfanidis, Neefus & Bray | BRODIE et al., 2007         |
| Rhizophyllum squamulaeae (Menehini) Kützing | = Contarimia squamariae (Menehini) Denizot comb. inval. | ATHANASIADIS, 1987          |
|                                           |                            | CATRA & GIARDINA, 2009      |
| Rhodochaeata pulchella Thuret ex Bornet    | = Rhodochaeata parvula Thuret ex Bornet | ATHANASIADIS, 1987          |
| Rhodophyllis divaricata (Stackhouse)  | = Rhodophyllis appendiculata J. Agardh | ATHANASIADIS, 1987          |
|                                           | = Rhodophyllis bifida (De Candolle) Kützing | LAZARIDOU, 1994             |
|                                           |                            | SCHNETTER & SCHNETTER, 1981 |
| Rhodymenia ardisseoi (Kunze) J. Feldmann | = Rhodymenia corallicola sensu Ardisseone | DIANNELIDIS, 1953           |
|                                           |                            | LAZARIDOU, 1994             |
|                                           |                            | SCHNETTER & SCHNETTER, 1981 |
| Sahlingia subintegra (Rosenvinge) Kornmann | = Erythrocladia subintegra Rosenvinge | CHRYSSOVERGIS, 1995         |
|                                           |                            | LAZARIDOU, 1994             |
|                                           |                            | DIAPOULIS & HARITONIDIS, 1987b |
| Sarconema scinaitoides Borgesen            |                            | TSIAMIS, 2012               |
| Schmitzia neapolitana (Berthold) Silva     |                            | ATHANASIADIS, 1987          |
|                                           |                            | TSIAMIS, 2012               |
| Schottera nicaeensis (Lamouroux ex Duby)  | = Petroglissum nicaeense (Lamouroux ex Duby) Schotter | ATHANASIADIS, 1987          |
|                                           |                            | GIACCONI, 1968a             |
|                                           |                            | TSEKOS & HARITONIDIS, 1977  |
| Sebdenia dichotoma Berthold                |                            | TSIAMIS et al., 2013c       |
| Sebdenia rodrigueziana (J. Feldmann) Codomier ex Athanasiadis | ATHANASIADIS, 1987 | TSIAMIS, 2012 |
| Sphaerococcus coronopifolius Stackhouse    | = Rhynchoecoccus coronopifolius (Stackhouse) Kützing | ATHANASIADIS, 1987          |
|                                           | = Haematocelis fissurata Crouan frat. | LAZARIDOU, 1994             |
|                                           |                            | SCHNETTER & SCHNETTER, 1981 |
| Spongites fruticulosus Kützing             | = Spongites ramulosus (Philippi) Kützing | ATHANASIADIS, 1987          |
|                                           | = Lithothamnion fruticulosum (Kützing) Foslie | RÖSLER et al., 2016         |
|                                           | = Lithothamnion fruticulosum f. clavulatum Foslie | TSEKOS et al., 1982         |
|                                           | = Lithothamnion fruticulosum f. keuzingii Foslie |                        |
|                                           | = Lithothamnion fruticulosum f. ramulosum (Philippi) Foslie |                        |
|                                           |                            | SCHNETTER & SCHNETTER, 1981 |
| Styronema alsidi (Zanardini) Drew          | = Goniotrichum alsidi (Zanardini) Howe | ATHANASIADIS, 1987          |
|                                           | = Goniotrichum elegans (Chauvin) Zanardini | LAZARIDOU, 1994             |
|                                           | = Goniotrichum elegans var. alsidi (Zanardini) Zanardini | SCHNETTER & SCHNETTER, 1981 |
| Styronema cornu-cervi Reinsch              | = Goniotrichum cornu-cervi (Reinsch) Hauck | CHRYSSOVERGIS, 1995         |
|                                           |                            | LAZARIDOU, 1994             |
|                                           |                            | DIAPOULIS & HARITONIDIS, 1987b |
Tenarea tortuosa (Esper) Lemoine = Lithophyllum tortuosum (Esper) Foslie = Tenarea undulosa Bory nom. illeg. TSIAMIS, 2012 ATHANASIADIS, 1995 HARITONIDIS & TSEKOS, 1976

Thuretella schousboei (Thuret) Schmitz ATHANASIADIS, 1987 SCHNETTER & SCHNETTER, 1981

Tricleocarpa fragilis (Linnaeus) Huisman & Townsend = Galaxaura oblongata (Ellis & Solander) Lamouroux = Tricleocarpa oblongata (Ellis & Solander) Huisman & Borowitzka = Galaxaura adriatica Zanardini ATHANASIADIS, 1987 LAZARIDOU, 1994 SCHNETTER & SCHNETTER, 1981

Verlaquea lacerata (J. Feldmann) Le Gall & Vergés = Kallymenia lacerata J. Feldmann ATHANASIADIS, 1987

Wurdemannia miniata (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 hense 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 byssoide (Lamarck) Philippi, =Goniolithon byssoide (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                                    |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| *Acrochaetium molinieri* Coppejans & Boudouresque                                                                                   | DIAPOULIS & HARITONIDIS, 1987a            |
| *Botryoclada chiajeana* (Meneghini) Kylin                                                                                           | CATRA & GIARDINA, 2009                    |
| *Botryoclada microphysa* (Hauck) Kylin                                                                                            | TSIRIKA & HARITONIDIS, 2005               |
| *Catenella caespitosa* (Withering) Irvine = *Catenella opuntia* (Goodenough & Woodward) Greville                                   | TSEKOS et al., 1982                       |
| *Chondrymenia lobata* (Meneghini) Zanardini                                                                                         | PETKOFF, 1943                             |
| *Chylocladia pelagosae* Eregeovi                                                                                                  | CATRA & GIARDINA, 2009                    |
| *Colaconema leptonema* (Rosenvince) Alongi, Cormaci & G. Furnari = *Audouinella leptonema* (Rosenvince) Garbary                  | CHRYSSOVERGIS, 1995                       |
| *Colaconema savianum* (Meneghini) Nielsen = *Acrochaetium savianum* (Meneghini) Nägeli = *Audouinella saviana* (Meneghini) Woelkerling = *Callithamnion pygmaeum* Kützing | CHRYSSOVERGIS, 1995                       |
| *Cruoria cruoriiformis* (Crouan frat.) Denizot = *Cruoria purpurea* Crouan frat. nom. illeg.                                      | CATRA & GIARDINA, 2009                    |
| *Cryptonemia tunaiformis* (Bertolini) Zanardini                                                                                 | HUVE, 1962                                |
| *Erythrocladia irregularis* Rosenvince (1)                                                                                        | TSIRIKA & HARITONIDIS, 2005               |
| *Erythrotrichia bertholdii* Batters                                                                                               | SCHNETTER & SCHNETTER, 1981               |
| *Erythrotrichia investiens* (Zanardini) Bornet = *Bangia investiens* Zanardini                                                   | SCHNETTER & SCHNETTER, 1981               |
| *Feldmannophycus rayssiae* (J. Feldmann & G. Feldmann) Augier & Boudouresque                                                       | LAZARIDOU, 1994 (2)                       |
| *Furcellaria lumbricalis* (Hudson) Lamouroux = *Furcellaria fastigata* (Turner) Lamouroux                                           | HARITONIDIS & TSEKOS, 1976                |
| *Gelidium corneum* (Hudson) Lamouroux (3) = *Sphaerococcus corneus* (Hudson) Stackhouse                                             | HARITONIDIS & TSEKOS, 1976                |
| *Gelidium minusculum* (Weber-van Bosse) R.E. Norris = *Gelidium pusillum var. minusculum* Weber-van Bosse                          | CATRA & GIARDINA, 2009                    |
| *Gelidium spathulatum* (Kützing) Bornet                                                                                           | SCHNETTER & SCHNETTER, 1981               |
| *Gelidium spinosum* var. *hystric* (J. Agardh) Furnari = *Gelidium latifolium* var. *hystric* (J. Agardh) Hauck                 | SCHNETTER & SCHNETTER, 1981               |
| *Gloiocladia repens* (C. Agardh) Sánchez & Rodriguez-Prieto = *Fauchea repens* (C. Agardh) Montagne & Bory                       | HUVE, 1962                                |
| *Gracilaria armata* (C. Agardh) Greville = *Sphaerococcus armatus* C. Agardh                                                       | ORFANIDIS et al., 2001                    |
| *Gracilaria gracilis* (Stackhouse) Steentoft, Irvine & Farnham (4)                                                               | CHRISTIA et al., 2011                     |
| *Gracilaria longa* Gargiulo, De Masi & Tripodi                                                                                     | MALEA & HARITONIDIS, 2001                 |
| *Gracilariosis longissima* (S.G. Gmelin) Steentoft, Irvine & Farnham (4)                                                           | CHRISTIA et al., 2011                     |
| *Gymnogongrus crenulatus* (Turner) J. Agardh = *Chondrus norvegicus* sensu Lamouroux                                               | BORY, 1832                               |
| *Helminthora divaricata* (C. Agardh) J. Agardh                                                                                      | SCHNETTER & SCHNETTER, 1981               |
| Species Name                                                                 | Author(s)                                                                 |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Huismaniella ramellosa (Kützing) G. Boo & S. Boo                           | ORFANIDIS et al., 2001                                                    |
| = Gelidiella ramellosa (Kützing) J. Feldmann & Hamel                       |                                                                           |
| Hydroclathria cruciatum (Bressan) Chamberlain                              | TSIRIKA & HARITONIDIS, 2005                                               |
| Hydroclathria farinosum var. chloridictyum (Taylor) Serio                  | CATRA & GIARDINA, 2009                                                   |
| Hypnea farnariana Cormaci, Alongi & Dinaro                                 | CATRA & GIARDINA, 2009                                                   |
| Jania squamata (Linnaeus) Kim, Guiry & Choi                                | DIANNELIDIS et al., 1977                                                  |
| = Corallina squamata Linnaeus                                              |                                                                           |
| = Halitiplon squamatum (Linnaeus) Johansen, Irvine & Webster               |                                                                           |
| Liagora distenta (Mertens ex Roth) Lamouroux                               | CATRA & GIARDINA, 2009                                                   |
| Lithophyllum byssoides (Lamarck) Foslie                                    | GIACCONI 1968a                                                           |
| = Lithophyllum lichenoides Philippi                                        |                                                                           |
| = Lithophyllum tortuosum f. cristatum (Meneghini) Foslie                   |                                                                           |
| Lithophyllum corallinae (Crouan frat.) Heydrich                           | DIANNELIDIS, 1953                                                        |
| = Melobesia corallinae Crouan frat.                                        |                                                                           |
| Lithothamnion crispatum Hauck                                              | DIANNELIDIS et al., 1977                                                  |
| = Lithophyllum crispatum (Hauck) Hauck                                     |                                                                           |
| Lithothamnion sonderi Hauck                                                | SCHNETTER & SCHNETTER, 1981                                               |
| Lomentaria articulata (Hudson) Lyngbye var. articulata                     | DIAPOULIS & HARITONIDIS, 1987a                                            |
| Lomentaria articulata var. linearis Zanardini                             | CATRA & GIARDINA, 2009                                                   |
| = Lomentaria linearis (Zanardini) Zanardini ex Kützing                     |                                                                           |
| Lomentaria clavaeformis Ercegović                                         | TSIRIKA & HARITONIDIS, 2005                                               |
| Lomentaria uncinata Meneghini in Zanardini                                | PETKOFF, 1943                                                            |
| = Chylocladia uncinata (Meneghini in Zanardini) Kützing                   |                                                                           |
| Mesophyllum lichenoides (Ellis) Lemoine                                    | CHRYSSOVERGIS, 1995                                                      |
| = Lithothamnion lichenoides (Ellis) Foslie                                |                                                                           |
| Millerella pannosa (J. Feldmann) Boo & Gall                               | DIAPOULIS & HARITONIDIS, 1987a                                            |
| = Gelidiella pannosa (J. Feldmann) J. Feldmann & Hamel                    |                                                                           |
| = Gelidiella tenuissima J. Feldmann & Hamel nom. illeg.                     |                                                                           |
| Naccaria wiggii (Turner) J. Agardh                                         | SCHNETTER & SCHNETTER, 1981                                               |
| Peyssonnelia inamoena Pilger                                               | SCHNETTER & SCHNETTER, 1981                                               |
| Phylophora herediae (Clemente) J. Agardh                                   | BORY, 1832                                                               |
| = Sphaerococcus herediae (Clemente) C. Agardh                             |                                                                           |
| Phylophora sicula (Kützing) Guiry & Irvine                                | SCHNETTER & SCHNETTER, 1981                                               |
| = Phylophora palmettoides J. Agardh                                       |                                                                           |
| Porphyra dosica Brodie & Irvine(?)                                        | HARITONIDIS, 1978                                                        |
| = Porphyra laciniata auctorum                                              |                                                                           |
| Porphyra linearis Greville                                                | TSIAMIS et al., 2013                                                      |
| Porphyra purpurea (Roth) C. Agardh (?)                                     | DIANNELIDIS et al., 1977                                                  |
| Porphyra umbilicalis Kützing(?)                                            |                                                                           |
| = Ulva umbilicalis Linnaeus                                                 |                                                                           |
| = Porphyra umbilicalis (Linnaeus) J. Agardh nom. illeg.                     |                                                                           |
| Pyropia leucosticta (Thuret) Neefas & Brodie(?)                            | DIANNELIDIS et al., 1977                                                  |
| = Porphyra leucosticta Thuret                                              |                                                                           |
| Rhodochorton purpureum (Lightfoot) Rosenvinge                             | DIAPOULIS & HARITONIDIS, 1987b                                           |
| = Rhodochorton rothii auctorum                                             |                                                                           |
| Rhodymenia delicatula Dangeard                                            | CATRA & GIARDINA, 2009                                                   |
| Rhodymenia ligulata Zanardini                                             |                                                                           |
| Rhodymenia pseudopalmetta (Lamouroux) Silva                               | GIACCONI, 1968a                                                          |
| = Rhodymenia palmetta (Stackhouse) Greville                              |                                                                           |
| Schizymenia dubyi (Chauvin ex Duby) J. Agardh = Schizymenia minor (J. Agardh) J. Agardh | TSIRIKA & HARITONIDIS, 2005 |
| Scinaia furcellata (Turner) J. Agardh | NIKOLAIDIS & HARITONIDIS, 1990 |

1. The description and illustration by LAZARIDOU (1994: 44) should refer to *Sahlingia subintegra*.
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 *Gelidium spinosum* (FURNARI et al., 1999: 35).
4. Greek records might refer to *Gracilaria gracilis* and/or *Gracilariopsis longissima*, pending investigation of new specimens under modern taxonomic concept.
5. The occurrence of this species in the Mediterranean requires confirmation (BRODIE et al., 2007; CORMACI et al., 2017).
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 literатурnim zapisima, te je kritički pregledan s današnjih taksonomskih i nomenklaturalnih aspekata. Ukupan broj rodova, vrsta i infraspecifičnih taksona koji su trenutno prihvaćeni je 78, 138 i 4, respektivno.

Prikazana je pojava svake svoje 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 svojstva. U cjelini, osigurana je čvrsta ažurirana osnovica pojavljivanja Rhodophyta (isključujući Ceramiales) u Grčkoj, što je presudno za buduće studije usmjereni na ciljane vrste.

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