

Species loss and decline in taxonomic diversity of macroalgae in the northern Adriatic Sea over the last six decades

Annalisa Falace^{1*}, Giuseppina Alongi², Martina Orlando-Bonaca³, Stanislao Bevilacqua¹

¹ Department of Life Sciences, University of Trieste, Via L. Giorgieri, 10 - 34127 Trieste, Italy

² Department of Biological Geological and Environmental Sciences, University of Catania, Via Empedocle 58 - 95128 Catania, Italy

³ Marine Biology Station Piran, National Institute of Biology, Fornače 41, SI-6330 Piran, Slovenia

*Corresponding author:

Annalisa Falace

Dipartimento di Scienze della Vita, Università degli Studi di Trieste

Via Licio Giorgieri, 10 – 34127 Trieste (Italy)

e-mail: falace@units.it

Table S1 - References with all available floristic information for the Italian and Slovenian coasts of the Gulf of Trieste (Northern Adriatic Sea)

1	unpublished data
2	Falace A., Bressan G. (2002). Evaluation of the influence of inclination of substrate panels on seasonal changes in a macrophytobenthic community. <i>ICES J Mar Sci</i> , 59: 116-121
3	Bressan G., Trebbi F., Babbini L. (2000). Variazioni di distribuzione batimetrica di macrofitobenthos nel parco marino di Miramare (Golfo di Trieste in rapporto a condizioni edafiche). <i>Biol. Mar. Medit.</i> , 7: 528-540
4	Falace A., Di Pascoli A., Bressan G. (2005). Valutazione della biodiversità nella riserva marina di Miramare (Nord Adriatico): macroalghe marine bentoniche. <i>Biol. Mar. Medit.</i> , 12(1): 88-98
5	Bressan G., Sergi L., Welker C. (1991). Variazioni della distribuzione batimetrica di macroalghe dell'infralitorale fotofilo nel Golfo di Trieste (Mare Adriatico). <i>Boll. Soc. Adriat. Sci. Nat. Trieste</i> , LXXII: 107-126
6	Giaccone G. (1970). Raccolte di fitobenthos sulla banchina continentale italiana. <i>Giorn Bot Ital.</i> , 103: 485-514
7	Giaccone G. (1978). Revisione della flora marina del mare Adriatico. Annuario del WWF. Parco Marino di Miramare, Trieste
8	Pignatti S., Giaccone G. (1967). Studi sulla produttività primaria del fitobenthos nel Golfo di Trieste. I. Flora sommersa del Golfo di Trieste. <i>Nova Thalassia</i> , 3: 1-17
9	DeToni G.B., Levi D. (1888). L'algarium Zanardini. Civico Museo e Raccolta Correr in Venezia. Collezioni botaniche Venezia, pp 144
10	Jacquin N.J. (1791). <i>Collectanea ad botanicam, chemiam, et historiam naturalem, spectantia cum figuris</i> . 3 [1]-306 p
11	Rindi F., Battelli C. (2005). Spatio-temporal variability of intertidal algal assemblages of the Slovenian coast (Gulf of Trieste, northern Adriatic Sea). <i>Bot Mar</i> , 48: 96-105
12	Agardh J. (1842). <i>Algae maris mediterranei et adriatici</i> . Fortin, Masson et Cie Paris
13	Bussani M., Vucovič A. (1992). Le alghe di Miramare. <i>Hydrores Information</i> , 10: 4-48
14	Giaccone G., Pignatti S. (1967). Studi sulla produttività primaria del fitobenthos nel Golfo di Trieste. II. La vegetazione del Golfo di Trieste. <i>Nova Thalassia</i> , 3:1-28
15	Naccari F.L. (1828). Flora veneta. Vol 6 Venezia
16	Zanardini G (1841) Synopsis algarum in mari Adriatico hucusque collectarum, cui accedunt monographia siphonearum nec non generales de algarum vita et structura disquisitiones cum tabulis auctoris manu ad vivum depictis. Mem. Reale Accad. Sci. Torino 2: 105-255.
17	Orlando-Bonaca M., Lipej L., Orfanidis S. (2008). Benthic macrophytes as a tool for delineating, monitoring and assessing ecological status: the case of Slovenian coastal water. <i>Mar. Pollut. Bull.</i> , 56: 666-676
18	Vucovič A. (1982). Benthic vegetation in the Bay of Koper. <i>Acta Adriat.</i> , 23: 227-235
19	Vucovič A. (1982). Florofaunistic changes in the infralittoral zone after the sea urchin <i>Paracentotus lividus</i> (L.) population explosion. <i>Acta Adriat.</i> , 23: 237-241
20	Furnari G., Cormaci M. (1990). Fertile gametophytes of <i>Balliella cladoderma</i> (Ceramiales, Rhodophyta) from the Mediterranean. <i>Phycologia</i> , 29:380-384
21	Giaccone G., Rizzi Longo L., Princi M. (1975). Effets des eaux polluées sur cultures d'algues marines benthiques: méthodes et résultats préliminaires. <i>Rapp Comm Int Mer Médit</i> , 23:81-82
22	Huvé H., Huvé P., Picard J. (1963). Aperçu préliminaire sur le benthos littoral de la côte rocheuse adriatique italienne. <i>Rapp. Proces-Verbaux des Réunions CIESM</i> , 17:93-102
23	Simonetti G. (1972). I consorzi a fanerogame marine nel Golfo di Trieste. <i>Atti Ist Veneto Sci Lett ed Arti Cl Sci Mat e Nat Venezia</i> , 131:459-502
24	Battelli C. (2002). The macrophytobenthos on the hard upper mediolittoral from two sites of slovenian coast (Northern Adriatic Sea). <i>Hacquetia</i> , 1/2:193-203
25	Battelli C. (2004). The structure and seasonal variations of <i>Bangia atropurpurea</i> (Roth) C. Agardh (Bangiales, Rhodophyceae) community from Slovenian coast (Northern Adriatic). <i>Annals for Istrian and Mediterranean Studies</i> , 14(1):75-84
26	Schiffner V. (1916). Studien über algen des Adriatischen meers. <i>Wissensch Meeresunters NF Abt Helgoland</i> , 11:129-198
27	Franzosini C., Bressan G. (1988). Calibrazioni metodologiche nello studio del macrophytobenthos nella riserva - parco marino di Miramare (Trieste, Italy): 1. Rilievi senza prelievo. <i>Atti Mus. Civ. Stor. Nat. Trieste</i> , 41:143-159

28	Franzosini C., Verardo V., Ghirardelli L.A., Bressan G. (1983-84). La flora algale presso il laboratorio di Biologia marina di Aurisina - Filtri (Trieste - North Adriatic Sea): Macrobenthos. <i>Nova Thalassia</i> , 6:83-95
29	Lausi D. (1967). Studi sulla produttività primaria del fitobentos nel Golfo di Trieste. III. Quantità di clorofilla negli ecosistemi bentonici del Golfo di Trieste. <i>Nova Thalassia</i> , 3:1-29
30	Falace A., Bressan G. (2003). Changes of algal flora in the Gulf of Trieste (Northern Adriatic Sea). <i>Boccone</i> , 16:1033-1037
31	Bressan G. (1988). Appunti sulla fattibilità di una barriera artificiale sommersa nel Golfo di Trieste: processi di colonizzazione e fitocenosi guida. <i>Hydrores Information</i> , 6:47-56
32	Battelli C. (2004). Phytocoenological study of the <i>Catenella caespitula</i> (Withering) L.M. Irvine (Gigartinales, Rhodophyceae) community from the Slovenian coast, northern Adriatic Sea. <i>Acta Botanica</i> , 45:121-130
33	Bressan G., Godini E. (1990). Alghe del Golfo di Trieste: guida allo studio. <i>Atti Mus Civico Storia Nat Trieste</i> , 43:1-202.
34	Falace A., Bressan G. (2000). Le macrophytobenthos du golfe de Trieste: trente ans apres. <i>Proc First Med Symposium on Marine Vegetation Rac/SPA Tunis</i> : 136-140
35	Giaccone G., Pignatti S. (1971). Vegetazione algale costiera del Golfo di Trieste. <i>Inform Bot Ital</i> , 3(3):188-189
36	Ardissone F. (1867). <i>Prospetto delle Ceramiee Italiane</i> . Pesaro 1-92p
37	Kützing F.T. (1862). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 10 Nordhausen
38	Ardissone F. (1874). <i>Le Floridee Italiane. II (1): Hypneaceae, Gelidieae, Sphaeroccoideae</i> . Milano:1-88.
39	Schiffner V. (1926). Beiträge zur Kenntnis der Meeresalgen. V. Über zwei Ectocarpus-Arten. <i>Hedwigia</i> , 66:318
40	DeToni G.B. (1900). <i>Sylloge Algarum omnium hucusque cognitarum</i> . Vol. IV. Florideae, Sectio II. Patavii IV:387-776
41	DeToni G.B. (1903). <i>Sylloge Algarum</i> . Florideae, Sectio III. Patavii IV:775-1525
42	Rizzi Longo L., Giaccone G. (1974). Le Ulvales e la vegetazione nitrofila del Mediterraneo. <i>Quaderni Lab Tecn Pesca</i> , 2Suppl
43	Falace A., Bressan G. (1990). Dinamica della colonizzazione algale di una barriera artificiale sommersa nel Golfo di Trieste: Macrofouling. <i>Hydrores Information</i> , VII:5-27
44	Falace A., Bressan G. (1994). Some observations on periphyton colonization of artificial substrata in the Gulf of Trieste (North Adriatic sea). <i>B Mar Sci</i> , 55:924-931
45	Falace A., Bressan G. (1995). Esperienze di strutture artificiali sommerse nel golfo di Trieste. <i>Biol Mar Medit</i> , 2:123-128
46	Kützing F.T. (1849). <i>Species Algarum</i> . Lipsiae, 1849
47	Kützing F.T. (1865). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 15 Nordhausen
48	Schiffner V. (1914). Ueber einige neue und interessante algen aus der Adria. <i>Nuova Notarisia</i> , 25:181-183
49	Gargiulo G.M., De Masi F., Tripodi G. (1992). Morphology, reproduction and taxonomy of th Mediterranean species of <i>Gracilaria</i> (Gracilariales, Rhodophyta). <i>Phycologia</i> , 31:53-80
50	Huvé H., Huvé P., Picard J. (1969). Aperçu sur le benthos littoral de la côte rocheuse adriatique italienne. <i>Int Seaweed Symposium</i> , VI: 193-199
51	Simonetti (1970). I popolamenti naturali di <i>Gracilaria confervoides</i> Grev. nell'alto Adriatico in rapporto alla possibilità di coltivazione in ambienti controllati. <i>CNR Lab. Tec. Pesca</i> , 5: 22-25
52	Feoli E., Giaccone G., Coassini Lokar L. (1979). Determinazione delle tecniche e dei metodi di coltivazione dell'alga <i>Gracilaria verrucosa</i> . In: Le lagune di Grado e di Marano, Trieste
53	Murano E. (1989). Aquaculture of <i>Gracilaria</i> spp. in the Northern Adriatic Sea aimed at a high quality agarose production. <i>Outdoor Seaweed Cultivation, proc. of the Second Workshop of Cost 48 Subgroup 1</i> : 76-80
54	Rizzi Longo L., Giaccone G., Princi M., Tortul V. (1983). Variazioni dell'attività metabolica di alghe marine bentoniche in coltura in presenza di liquami industriali. <i>Il Naturalista Siciliano</i> , 6 (Suppl.): 61-69
55	Turk R., Vukovic A. (2000). Status of marine vegetation in Slovenian coastal water. <i>Proc First Med Symposium on Marine Vegetation Rac/SPA Tunis</i> , 191-193p
56	De Toni G.B. (1905). <i>Sylloge Algarum omnium hucusque cognitarum</i> . Vol IV Florideae. Sectio IV Patavii IV: 1523-1973
57	De Toni G.B. (1924.) <i>Sylloge Algarum omnium hucusque cognitarum</i> . Vol VI Florideae. Sectio V Additamenta Patavii VI:xi + 767 pp

58	Bressan G., Miniati-Radin D., Smundin L. (1977). Su una nuova Corallinaceae: <i>Fosliella cruciata</i> sp. nov. <i>Gior. Bot. Ital.</i> , 110: 438
59	Cinelli F., Boudouresque C.F., Mazzella L., Richard M. (1981). Alghe marine rare o nuove per la flora italiana. <i>Quaderni del Laboratorio di Tecnologia della Pesca</i> , 3(Suppl.): 467-480
60	Ghirardelli E., Orel G., Giaccone G. (1973). L'inquinamento del Golfo di Trieste. <i>Atti Mus. Civ. Stor. Nat. Trieste</i> , 28:431-450
61	Bressan G., Nichetto P. (1994). Some observation on the mærl distribution in the northern Adriatic Sea. <i>Acta Adriatica</i> , 35: 15-20
62	Kützing F.T. (1866). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 16 Nordhausen
63	Amico V., Giaccone G., Colombo P., Mannino A.M., Randazzo R. (1986). Un nuovo approccio allo studio del genere <i>Cystoseira</i> C. Agardh (Phaeophyta, Fucales). <i>Boll. Acc. Gioenia. Sci. Nat. Catania</i> , 18: 887-986
64	Della Valle G., Welker C., Bressan G. (1993). Short term variations in biofouling (Gulf of Trieste, North Adriatic Sea). <i>Oebalia</i> , 19: 173-182
65	Kützing F.T. (1864). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 14 Nordhausen
66	Hauck F. (1885). <i>Die meeresalgen Deutschlands und Oesterreichs</i> . Ed. E.Kummer Leipzig 1885
67	Pierpaoli I.- Algario Pierpaoli depositato presso il Laboratorio di Biologia Marina di Porto Cesareo Lecce Italy
68	Ardissone F. (1874). <i>Le Floridee Italiane I (5): Spyridieae, Dumontieae, Rhodymenieae</i> . Milano: 1-54.
69	Zanardini G. (1871). <i>Iconographia Phycologica Adriatica ossia scelta di Ficee nuove o più rare del Mare Adriatico</i> . Vol III Ed. G Antonelli Venezia
70	Giaccone G., Bryce Derni C. (1972). Informazioni tassonomiche di elementi morfologici ed ecologici di stadi ectocarpoidi presenti sulle coste italiane. <i>Atti Ist. Veneto Sci. Lett. ed Arti Cl. Sci. Mat. e Nat. Venezia</i> , 130: 39-81
71	Welker C., Bressan G. (1994). Aggregati mucilluginosi di <i>Acinetospora crinita</i> (Carm. ex Harvey) Sauvageau (Ectocarpales, Phaeophyta) nell'alto Adriatico. <i>Giorn Bot Ital</i> , 128: 827-829
72	Zanardini G. (1860). <i>Iconographia Phycologica Adriatica ossia scelta di Ficee nuove o più rare del Mare Adriatico</i> . Vol I Ed. G Antonelli Venezia
73	Meneghini G. (1846). <i>Alghe Italiane e Dalmatiche</i> . Padova 1846 Fasc V: 353-385
74	Baradel P., Cerma E. (1969). Ricerche sull'acido alginico di alcune Phaeophyceae dell'Alto Adriatico. <i>Cystoseira barbata, Cystoseira abrotanifolia, Dictyopteris membranacea</i> . <i>Boll. Soc. Adriat. Sci. Nat. Trieste.</i> , 57: 153-160
75	Kützing F.T. (1860). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 10 Nordhausen
76	Meneghini G. (1842). <i>Alghe Italiane e Dalmatiche</i> . Padova 1846 Fasc II:81-160
77	Giaccone G., Bruni A. (1973). Le Cistoseire e la vegetazione sommersa del Mediterraneo. <i>Atti Ist. Veneto Sci. Lett. ed Arti Cl. Sci. Mat. e Nat. Venezia</i> , 131: 59-103
78	De Toni G.B. (1895). <i>Sylloge Algarum omnium hucusque cognitarum</i> . Vol III Fucoideae Patavii III: xvi + 638 pp
79	Cerma E., Baradel P., Chimenti M. (1968). Ricerche sull'acido alginico del <i>Fucus virsoides</i> . <i>Boll. Soc. Adriatica di Scienze Trieste</i> , 56: 226-233
80	Forti A. (1931). <i>Description de plusieurs formes de Fucus virsoides dell'Adriatique (avec sept planches)</i> . Travaux Cryptogamiques dedies a Louis Mangin 177-188p
81	Ghirardelli E., Orel G., Giaccone G. (1975). Esperienze sullo scarico a mare di Trieste: Metodologie e ricerche per la valutazione degli effetti sul benthos. <i>Ingegneria Ambientale</i> , 4: 413-418
82	Lausi D., De Cristini P. (1967). Studi sulla produttività primaria del fitobentos nel Golfo di Trieste. IV. Osservazioni sulle variazioni periodiche del contenuto in acido alginico in <i>Fucus virsoides</i> . <i>Nova Thalassia</i> , 3:1-16
83	Kützing F.T. (1855). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 5 Nordhausen
84	Meneghini G. (1843). <i>Alghe Italiane e Dalmatiche</i> . Padova 1846 Fasc IV:257-351
85	Kützing F.T. (1858). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 8 Nordhausen
86	Battelli C. (1997). Prispevki k poznavanju makrobentoških alg slovenskega obalnega morja: rod <i>Cladophora</i> (Chlorophyta). <i>Annales for Istrian and Mediterranean Studies</i> , 11:47-56
87	De Toni G.B. (1889). <i>Sylloge Algarum omnium hucusque cognitarum</i> . Vol I Chlorophyceae Sectio I-II Patavii I: cxxxix + 1315 pp
88	Kützing F.T. (1854). <i>Tabulae Phycologicae order Abbildungen der Tange</i> . Vol 4 Nordhausen

89	Battelli C. 1996. How man species of the genus <i>Codium</i> occur in Slovenia coastal water? <i>Annales for Istrian and Mediterranean Studies</i> , 9:167-176
90	De Toni G.B. (1897). <i>Sylloge Algarum omnium hucusque cognitarum</i> . Vol III Fucoideae Patavii III: xvi + 638 pp
91	Zanardini G. (1865). <i>Iconographia Phycologica Mediterraneo-Adriatica ossia Scelta di Ficee nuove o più rare dei Mari Mediterraneo ed Adriatico</i> . Vol II Venezia.
92	Cinelli F., Codomier L. (1974). Note floristique et repartition de Rhodophycees rares (Kallymeniacees et Sebdeniacees) de la Mediterranee occidentale. <i>Gior. Bot. Ital.</i> , 108 (1-2) 13-18
93	Curriel D., Falace A., Bandelj V., Kaleb S., Solodoro C., Ballesteros E. (2012). Species composition and spatial variability of macroalgal assemblages on biogenic reefs in the northern Adriatic Sea. <i>Bot. Mar.</i> , 55(6):625-638
94	Agardh C.A. (1827). Aufzählung einiger in den österreichischen ländern gefundenen neuen gattungen und arten von algen, nebst ihrer diagnostik und beigefügten bemerkungen. <i>Flora</i> , 10: 625-646.
95	Wulfen F.X. (1803). <i>Cryptogama aquatica</i> . Arch Bot Leipzig 3:1-64
96	Kützing F.T. (1843). <i>Phycologia generalis</i> Leipzig 32+458p +80 pls
97	Meneghini G. (1844). Del genere <i>Ceramium</i> e di alcune sue specie. <i>Giorn. Bot. Ital.</i> , 1:178-186
98	Orlando-Bonaca M., Mavrič B. (2014). Recurrence of <i>Sargassum vulgare</i> in Slovenian coastal water (Adriatic Sea). <i>Annales Ser. hist. nat.</i> , 24: 109-114
99	Falace A., Kaleb S., Orlando-Bonaca M., Mavrič B., Lipej L. (2011). First contribution of the knowledge of coralline algae distribution in the slovenian circalittoral zone (northern Adriatic). <i>Annales Ser. hist. nat.</i> , 21: 27-40
100	Vukovic A. (1984). Contribution to the knowledge of marine benthic algae of Slovenia. <i>Slo Morje zaledje</i> , VII(6-7): 187-193
101	Matjašič J., Štirn J., Avčin A., Kubik L., Valentinčič T., Velkvrh F., Vukovič A. (1975). Flora in favna Severnega Jadrana, prispevek 1. Slovenska akademija znanosti in umetnosti, Razred za prirodoslovne vede 54 pp
102	Vukovic A. (1980). Asociacije morskih bentoških alg v Piranskem zalivu. <i>Biol. Vestn.</i> , 2(28): 103-124
103	Turk R., Vukovič A. (1994). Preliminarna inventarizacija in topografija flore in favne morskega dela naravnega rezervata Strunjan. <i>Annales Ser. Hist. Nat.</i> , 4: 101-112
104	Avčin A., Keržan I., Kubik L., Meith-Avčin N., Štirn J., Tušnik P., Valentinčič T., Vrišer B., Vukovič A. (1973). Akvatični ekosistemi v Strunjanskem zalivu I. Preliminarno poročilo V: AKvatični sistemi v Strunjanskem zalivu I.: skupno delo. Prispevki k znanosti o morju. Inštitut za biologijouniverze v Ljubljani, Morska biološka postaja Portorož 5: 168-216.
105	Munda I.M. (1991). Algal resources in polluted sites of the Norther Adriatic (vicinity of Piran). <i>Acta Adriatica</i> , 32(2): 682-704
106	Orlando M., Bressan G. (1998). Colonizzazione di macroepifiti algali su <i>Posidonia oceanica</i> (L.) Delile lungo il litorale sloveno (Alto Adriatico). <i>Ann. Ser. Hist. Nat.</i> , 13: 109-120
107	Avčin A., Meith-Avčin N., Vukovič A., Vrišer B. (1974). Primerjava bentoških združb Strunjanskega in Koprskoga zaliva z obzirom na njihove polucijsko pogojene razlike (The comparison of benthic communities of Strunjan and Kopar Bay due to their differences in pollution). <i>Biol. Vestn. Glas. Slov. Biol.</i> , 22(2): 171-208
108	Avčin A., Vrišer B., Vukovič A. (1979). Ekosistemske spremembe na območju podmorskega izpusta mestnih odplak portoroško-piranskengaomrežja: Slovensko morje in zaledje, 2-3: 281-299
109	Kalab S., Falace A., Woelkerling W.J. (2012). <i>Phymatolithon lamii</i> (Hapalidiaceae, Corallinales, Rhodophyta): A first report for the Mediterranean Sea. <i>Bot. Mar.</i> , 55(4):377-385
110	Petrocelli A., Antolić B., Bolognini L., Cecere E., Cvitković I., Despalatović M., Falace A., Finotto S., Iveša L., Mačić V., Marini M., Orlando-Bonaca M., Rubino F., Trabucco B., Žuljević A. (2018). Port Baseline Biological Surveys and seaweed bioinvasions in port areas: What's the matter in the Adriatic Sea? <i>Mar. Pollut. Bull.</i> Oct, 147: 98-116
111	Orlando-Bonaca M., Rotter A. (2018). Any signs of replacement of canopy-forming algae by turf-forming algae in the northern Adriatic Sea? <i>Ecological Indicators</i> , 87: 272-284
112	Orlando-Bonaca M., Lipej L. (2009). Benthic macroalgae as bioindicators of the ecological status in the Gulf of Trieste. <i>Varstvo Narave</i> , 22: 63-72
113	Orlando-Bonaca M., Mavrič B., Trkov D., Lipej L. (2017). Unusual bloom of tetrasporophytes of the non-indigenous red alga <i>Asparagopsis armata</i> in the northern Adriatic Sea. <i>Acta Adriatic</i> , 58(1): 53-62

114	Orlando-Bonaca M. (2001), A survey of the introduced non-indigenous species in the northern Adriatic Sea. <i>Annales Ser. Hist. Nat.</i> , 25: 149-158
115	Orlando-Bonaca M (2010) New records of non-indigenous algal species in slovenian coastal water. <i>Annales Ser. Hist. Nat.</i> , 20: 143-150
116	Lipej L., Mavrič B., Orlando-Bonaca M., Malej A. (2012). State of the Art of the Marine Non-Indigenous Flora and Fauna in Slovenia. <i>Medit. Mar. Sci.</i> , 13(2): 43-249
117	Orlando-Bonaca M, Žuljević A, Antolić B (2016) Is the port of Koper an inhospitable environment for the settlement of non indigenous macrophytes? <i>Annales Ser hist nat</i> 26: 149-158
118	Orlando-Bonaca M., Lipej L. (2007). Microhabitat preferences and depth distribution of combtooth blennies (Blenniidae) in the Gulf of Trieste (North Adriatic Sea). <i>Mar. Ecol.</i> , 28(3): 418–428
119	Orlando-Bonaca M., Lipej L., Malej A., Francé J., Čermelj B., Bajt O., Kovač N., Mavrič B., Turk V., Mozetič P., Ramšak A., Kogovšek T., Tinta T., Malačič V. (2013). <i>Selection of Elements to Establish the Monitoring Program of the Marine Environment Article 11 MSFD</i> . National report in Slovenian, Marine Biology Station Piran, National Institute of Biology, pp. 29 (Poročila MBP, 144).
120	Battelli C. (2006). Contribution to the knowledge of the <i>Catenella caespitosa</i> (Withering) L.M. Irvine (Gigartinales, Rhodophyta) community of the Slovenian coast (northern Adriatic sea). <i>Prirodoslovna Istraživanja Riječkog Područja</i> : 211-216
121	Battelli C. (2000). <i>Priročnik za spoznavanje morske flore Tržaškega zaliva</i> . Zavod Republike Slovenije za šolstvo 170 pp
122	Battelli C. (2016). A new proposal for zonation of the midlittoral in the Bay of Koper (Gulf of Trieste, northern Adriatic) based on macroalgal communities. <i>Acta Adriatica</i> , 57(1): 63-80
123	Fletcher R.L., Munda I.M., Vukovič A. (1988). <i>Compsonea saxicolum</i> (Kuckuck) Kuckuck and <i>Microspongium gelatinosum</i> Reinke (Scytosiphonaceae, Fucophyceae): two new records from the Mediterranean. <i>Bot. Mar.</i> , 31: 1-8
124	Vrišer B., Vukovič A. (1996). <i>Taksonomska inventarizacija, opredelitev biocenoz in kartiranje na območju naravnega spomenika Rta Madona</i> . Inštitut za biologijo Ljubljana, Morska biološka postaja Piran, 35 pp.
125	Vrišer B. (1978). Raziskovanja biološke obrasti v Piranskem zalivu. <i>Biološki vestnik, glasilo slovenskih biologov</i> , 26(1): 47-59
126	Vukovič A. (1976). <i>Prostorska porazdelitev in dinamika bentoške vegetacije v Piranskem zalivu</i> . Magistrsko delo Univerza v Ljubljani, 73 pp
127	Vukovič A. (1986). <i>Vpliv fekalnih odpadnih voda na vegetacijo lagunarnih področij</i> . Doktorska disertacija. Univerza Edvarda Kardelja v Ljubljani, 133 pp
128	Battelli C., Catra M. (2021). First Report of <i>Cystoseira aurantia</i> (Sargassaceae, Fucophyceae) from the Lagoon of Strunjan (Gulf of Trieste, Northern Adriatic). <i>Annales Ser. hist. nat.</i> , 31: 193-147
129	Fortič A., Al-Sheikh Rasheed R., Almajid Z., Badreddine A., Báez J.C., Belmonte-Gallegos A., Bettoso N., Borne D., Camisa F., Caracciolo D., Činar M.E., Crocetta F., Četković I., Doğan A., Galiya M., García De Los Ríos Y Los Huertos Álvaro, Grech D., Guallart J., Gündeğer G., Kahrić A., Karachle P.K., Kulijer D., Lombarte A., Marković O., Martínez Jiménez E., Sukran Okudan E., Orlando-Bonaca M., Sartoretto S., Spinelli A., Tuney Kizilkaya I., Virgili R. (2023). New records of introduced species in the Mediterranean Sea (April 2023). <i>Mediterranean Marine Science</i> , 24(1), 182-202
130	Orlando-Bonaca M., Trkov D., Klun K., Pitacco V. (2022). Diversity of molluscan assemblage in relation to biotic and abiotic variables in brown algal forests. <i>Plants</i> , 1(16), 2131
131	Orlando-Bonaca M., Pitacco V., Lipej L. (2021). Loss of canopy-forming algal richness and coverage in the northern Adriatic Sea. <i>Ecological Indicators</i> , 125, 107501
132	Orlando-Bonaca M., Trkov D. (2020). After more than forty-five years a new finding of <i>Cystoseira foeniculacea</i> f. <i>latiramosa</i> in the coastal sea of Slovenia. <i>Annales, Ser. Hist. Nat.</i> , 30(2), 233-238.

Table S2 - Full list of species recorded in the Gulf of Trieste. The *taxa* are listed alphabetically within the divisions (Ch=Chlorophyta; Ph=Phaeophyceae; Rh=Rhodophyta); for each *taxon* the phylogeographic group is also given (A=Atlantic; C= Cosmopolitan; CB= CircumBoreal; IP=IndoPacific; M=Mediterranean; P=Pantropical; SC=SubCosmopolitan) ITA=Italy; SLO=Slovenia; T1=1960-1989; T2=1990-2023; present flora = flora of the Gulf of Trieste combining species recorded in T2 for both the Slovenian and the Italian sector. TI=*taxon inquirendum*; N. ill.=*nomen illegitimum*

DIVISION	CHOROLOGY	ORDER	FAMILY	SPECIES	before	T1	T2	T1	T2	present
					1959	ITA	ITA	SLO	SLO	flora
Ch	A	Dasycladales	Polyphysaceae	<i>Acetabularia acetabulum</i> (Linnaeus) P.C. Silva		+	+	+	+	+
Ch	SC	Cladophorales	Pithophoraceae	<i>Aegagropila brownii</i> (Dillwyn) Kützing					+	+
Ch	P	Cladophorales	Anadyomenaceae	<i>Anadyomene stellata</i> (Wulfen) C. Agardh		+	+	+	+	+
Ch	C	Ulvales	Kormanniaceae	<i>Blidingia marginata</i> (J. Agardh) P.J.L. Dangeard ex Bliding		+				
Ch	C	Ulvales	Kormanniaceae	<i>Blidingia minima</i> (Nägeli ex Kützing) Kylin		+	+	+	+	+
Ch	M	Bryopsidales	Bryopsidaceae	<i>Bryopsidella neglecta</i> (Berthold) G.Furnari et M.Cormaci		+				
Ch	P	Bryopsidales	Bryopsidaceae	<i>Bryopsis corymbosa</i> J. Agardh		+	+	+		+
Ch	M	Bryopsidales	Bryopsidaceae	<i>Bryopsis cupressina</i> J.V. Lamouroux		+	+			+
Ch	A	Bryopsidales	Bryopsidaceae	<i>Bryopsis duplex</i> De Notaris		+				
Ch	M	Bryopsidales	Bryopsidaceae	<i>Bryopsis feldmannii</i> Gallardo et G. Furnari				+		+
Ch	C	Bryopsidales	Bryopsidaceae	<i>Bryopsis hypnoides</i> J.V. Lamouroux		+	+	+	+	+
Ch	P	Bryopsidales	Bryopsidaceae	<i>Bryopsis pennata</i> J.V. Lamouroux				+		+
Ch	C	Bryopsidales	Bryopsidaceae	<i>Bryopsis plumosa</i> (Hudson) C. Agardh		+	+	+	+	+
Ch	P	Cladophorales	Cladophoraceae	<i>Chaetomorpha gracilis</i> Kützing	+					
Ch	C	Cladophorales	Cladophoraceae	<i>Chaetomorpha ligustica</i> (Kützing) Kützing		+	+		+	+
Ch	C	Cladophorales	Cladophoraceae	<i>Chaetomorpha linum</i> (O.F. Müller) Kützing		+	+	+	+	+
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora albida</i> (Nees) Kützing		+		+	+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Cladophora coelothrix</i> Kützing		+	+	+	+	+
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora dalmatica</i> Kützing		+	+	+	+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Cladophora fracta</i> (O.F. Müller ex Vahl) Kützing	+					
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora glomerata</i> (Linnaeus) Kützing		+		+		
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora hutchinsiae</i> (Dillwyn) Kützing		+	+			+
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora laetevirens</i> (Dillwyn) Kützing		+	+	+	+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Cladophora lehmanniana</i> (Lindenberg) Kützing		+				
Ch	A	Cladophorales	Cladophoraceae	<i>Cladophora liniformis</i> Kützing		+	+	+	+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Cladophora nigrescens</i> Zanardini ex Frauenfeld		+		+		
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora prolifera</i> (Roth) Kützing		+	+	+	+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Cladophora retroflexa</i> (Bonnemaison ex P.L.Crouan et H.M.Crouan) G.Hamel					+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Cladophora rupestris</i> (Linnaeus) Kützing		+	+	+	+	+
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora sericea</i> (Hudson) Kützing		+	+	+		+
Ch	P	Cladophorales	Cladophoraceae	<i>Cladophora socialis</i> Kützing		+		+		
Ch	C	Cladophorales	Cladophoraceae	<i>Cladophora vagabunda</i> (Linnaeus) C. Hoek		+				
Ch	SC	Cladophorales	Boodleaceae	<i>Cladophoropsis membranacea</i> (Bang ex C. Agardh) Børgesen	+					
Ch	A	Bryopsidales	Codiaceae	<i>Codium bursa</i> (Linnaeus) C. Agardh		+	+	+	+	+
Ch	M	Bryopsidales	Codiaceae	<i>Codium coralloides</i> (Kützing) P.C.Silva					+	+
Ch	A	Bryopsidales	Codiaceae	<i>Codium decorticatum</i> (Woodward) M. Howe		+		+	+	+
Ch	A	Bryopsidales	Codiaceae	<i>Codium effusum</i> (Rafinesque) Delle Chiaje		+		+	+	+
Ch	C	Bryopsidales	Codiaceae	<i>Codium fragile</i> (Suringar) Hariot				+	+	+
Ch	A	Bryopsidales	Codiaceae	<i>Codium vermilara</i> (Olivi) Delle Chiaje		+	+		+	+
Ch	A	Dasycladales	Dasycladaceae	<i>Dasycladus vermicularis</i> (Scopoli) Krasser		+	+	+	+	+
Ch	M	Bryopsidales	Derbesiaceae	<i>Derbesia corallicola</i> Funk TI		+				

Ch	C	Bryopsidales	Derbesiaceae	<i>Derbesia tenuissima</i> (Moris et De Notaris) P. et H. Crouan	+	+	+		+
Ch	A	Bryopsidales	Udoteaceae	<i>Flabellia petiolata</i> (Turra) Nizamuddin	+	+	+	+	+
Ch	C	Ulothricales	Gayraliaceae	<i>Gayralia oxysperma</i> (Kützing) K.L. Vinogradova ex Scagel, Gabrielson, Garbary, Golden, Hawkes, Lindstrom, Oliveira et Widdowson	+				
Ch	P	Bryopsidales	Halymediaceae	<i>Halimeda tuna</i> (J. Ellis et Solander) J.V. Lamouroux	+	+	+	+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Lychaete battersii</i> (C.Hoek) M.J.Wynne			+		
Ch	A	Cladophorales	Cladophoraceae	<i>Lychaete echinus</i> (Biaioletto) M.J.Wynne	+	+	+	+	+
Ch	C	Cladophorales	Cladophoraceae	<i>Lychaete feredayi</i> (Harvey) M.J.Wynne	+	+	+	+	+
Ch	A	Cladophorales	Cladophoraceae	<i>Lychaete pellucida</i> (Hudson) M.J.Wynne	+	+	+	+	+
Ch	C	Ulothricales	Monostromataceae	<i>Monostroma grevillei</i> (Thuret) Wittrock			+		+
Ch	A	Palmophyllales	Palmophyllaceae	<i>Palmophyllum crassum</i> (Naccari) Rabenhorst	+				
Ch	CB	Bryopsidales	Derbesiaceae	<i>Pedobesia simplex</i> (Meneghini ex Kützing) M.J. Wynne et Leliaert	+				
Ch	C	Ulvaes	Phaeophilaceae	<i>Phaeophila dendroides</i> (P. et H. Crouan) Batters	+		+		
Ch	C	Bryopsidales	Udoteaceae	<i>Pseudochlorodesmis furcellata</i> (Zanardini) Børgesen			+		+
Ch	C	Cladophorales	Cladophoraceae	<i>Rhizoclonium riparium</i> (Roth) Harvey				+	+
Ch	C	Ulothricales	Ulothricaceae	<i>Ulothrix flacca</i> (Dillwyn) Thuret	+	+	+	+	+
Ch	A	Ulothricales	Ulothricaceae	<i>Ulothrix implexa</i> (Kützing) Kützing	+			+	+
Ch	C	Ulothricales	Ulothricaceae	<i>Ulothrix subflaccida</i> Wille	+		+		
Ch	C	Ulvaes	Ulvaceae	<i>Ulva australis</i> Areschoug	+	+		+	+
Ch	C	Ulvaes	Ulvaceae	<i>Ulva clathrata</i> (Roth) C. Agardh	+	+	+	+	+
Ch	C	Ulvaes	Ulvaceae	<i>Ulva compressa</i> Linnaeus	+	+	+	+	+
Ch	A	Ulvaes	Ulvaceae	<i>Ulva curvata</i> (Kützing) De Toni	+				
Ch	C	Ulvaes	Ulvaceae	<i>Ulva flexuosa</i> Wulfen	+			+	+
Ch	C	Ulvaes	Ulvaceae	<i>Ulva intestinalis</i> Linnaeus	+	+	+	+	+
Ch	C	Ulvaes	Ulvaceae	<i>Ulva linza</i> Linnaeus	+	+			+
Ch	SC	Ulvaes	Ulvaceae	<i>Ulva paradoxa</i> C. Agardh	+				
Ch	C	Ulvaes	Ulvaceae	<i>Ulva pilifera</i> (Kützing) Škaloud et Leliaert	+				
Ch	C	Ulvaes	Ulvaceae	<i>Ulva polyclada</i> Kraft			+		+
Ch	C	Ulvaes	Ulvaceae	<i>Ulva prolifera</i> O.F. Müller ssp. <i>prolifera</i>	+	+	+	+	+
Ch	A	Ulvaes	Ulvaceae	<i>Ulva pseudorotundata</i> Cormaci, G.Furnari et Alongi	+				
Ch	A	Ulvaes	Ulvaceae	<i>Ulva radiata</i> (J. Agardh) Hayden, Blomster, Maggs, P.C. Silva, M.J. Stanhope et J.R. Waaland	+	+			+
Ch	A	Ulvaes	Ulvaceae	<i>Ulva ralfsii</i> (Harvey) Le Jolis	+				
Ch	C	Ulvaes	Ulvaceae	<i>Ulva rigida</i> C.Agardh	+	+	+	+	+
Ch	CB	Ulvaes	Uvellaceae	<i>Ulvella geniculata</i> (N.L.Gardner) R.Nielsen, C.J.O'Kelly et B. Wylor	+		+		
Ch	C	Ulvaes	Uvellaceae	<i>Ulvella lens</i> P. et H. Crouan	+	+	+	+	+
Ch	SC	Ulvaes	Uvellaceae	<i>Ulvella scutata</i> (Reinke) R. Nielsen, C.J. O'Kelly et B.Wylor			+		+
Ch	C	Ulvaes	Uvellaceae	<i>Ulvella viridis</i> (Reinke) R.Nielsen, C.J.O'Kelly et B.Wylor	+	+			+
Ch	A	Ulvaes	Uvellaceae	<i>Umbraulva dangeardii</i> M.J.Wynne et G.Furnari	+				
Ch	P	Cladophorales	Valoniaceae	<i>Valonia aegagropila</i> C. Agardh	+		+		
Ch	P	Cladophorales	Valoniaceae	<i>Valonia macrophysa</i> Kützing	+	+	+	+	+
Ch	P	Cladophorales	Valoniaceae	<i>Valonia utricularis</i> (Roth) C. Agardh	+	+	+	+	+
Ph	A	Ectocarpales	Acinetosporaceae	<i>Acinetospora crinita</i> (Carmichael) Sauvageau	+	+		+	+
Ph	A	Desmarestiales	Arthrocladiaceae	<i>Arthrocladia villosa</i> (Hudson) Duby	+	+			+
Ph	C	Ectocarpales	Chordariaceae	<i>Asperococcus bullosus</i> J.V. Lamouroux	+	+	+	+	+
Ph	A	Ectocarpales	Chordariaceae	<i>Asperococcus ensiformis</i> (Delle Chiaje) M.J. Wynne	+	+			+
Ph	M	Ectocarpales	Chordariaceae	<i>Cladosiphon cylindricus</i> (Sauvageau) Kylin	+				
Ph	M	Ectocarpales	Chordariaceae	<i>Cladosiphon mediterraneus</i> Kützing	+				
Ph	A	Ectocarpales	Chordariaceae	<i>Cladosiphon zosteriae</i> (J. Agardh) Kylin	+	+			+
Ph	A	Sphacelariales	Cladostephaceae	<i>Cladostephus hirsutus</i> (Linnaeus) Boudouresque et M.Perret-Boudouresque ex Heesch et al	+		+	+	+
Ph	C	Ectocarpales	Scytosiphonaceae	<i>Colpomenia peregrina</i> Sauvageau			+		+
Ph	C	Ectocarpales	Scytosiphonaceae	<i>Colpomenia sinuosa</i> (Mertens ex Roth) Derbès et Solier	+	+	+	+	+
Ph	A	Ectocarpales	Scytosiphonaceae	<i>Compsomena minutum</i> (C. Agardh) Kuckuck	+				

Ph	M	Ectocarpales	Chordariaceae	<i>Corynophlaea flaccida</i> (C. Agardh) Kützing	+				
Ph	M	Ectocarpales	Chordariaceae	<i>Corynophlaea umbellata</i> (C. Agardh) Kützing	+				
Ph	M	Tilopteridales	Cutleriaceae	<i>Cutleria chilosa</i> (Falkenberg) P.C. Silva		+	+	+	+
Ph	C	Tilopteridales	Cutleriaceae	<i>Cutleria multifida</i> (Turner) Greville		+	+	+	+
Ph	A	Ectocarpales	Chordariaceae	<i>Cylindrocarpus microscopicus</i> P.L. et H.M. Crouan	+				
Ph	M	Fucales	Sargassaceae	<i>Cystoseira amentacea</i> (C.Agardh) Bory v. <i>spicata</i> (Ercegovic) Giaccone		+			
Ph	A	Fucales	Sargassaceae	<i>Cystoseira compressa</i> (Esper) Gerloff et Nizamuddin		+	+	+	+
Ph	M	Fucales	Sargassaceae	<i>Cystoseira crinitophylla</i> Ercegovic		+	+	+	+
Ph	A	Fucales	Sargassaceae	<i>Cystoseira foeniculacea</i> (Linnaeus) Greville f. <i>foeniculacea</i>		+		+	
Ph	A	Fucales	Sargassaceae	<i>Cystoseira foeniculacea</i> (Linnaeus) Greville f. <i>latiramosa</i> (Ercegovic) A.Gómez Garreta, M.C.Barceló, M.A.Ribera et Rull Lluch		+		+	+
Ph	A	Fucales	Sargassaceae	<i>Cystoseira foeniculacea</i> (Linnaeus) Greville f. <i>tenuiramosa</i> (Ercegovic) A.Gómez Garreta, M.C.Barceló, M.A.Ribera et Rull Lluch		+	+		+
Ph	CB	Desmarestiales	Desmarestiaceae	<i>Desmarestia viridis</i> (O.F. Müller) J.V. Lamouroux				+	+
Ph	C	Dictyotales	Dictyotaceae	<i>Dictyopteris polypodioides</i> (A.P. De Candolle) J.V. Lamouroux		+	+	+	+
Ph	C	Dictyotales	Dictyotaceae	<i>Dictyota dichotoma</i> (Hudson) J.V. Lamouroux v. <i>dichotoma</i>		+	+	+	+
Ph	C	Dictyotales	Dictyotaceae	<i>Dictyota dichotoma</i> (Hudson) J.V. Lamouroux v. <i>intricata</i> (C. Agardh) Greville		+	+	+	+
Ph	C	Dictyotales	Dictyotaceae	<i>Dictyota fasciola</i> (Roth) J.V. Lamouroux		+	+		+
Ph	A	Dictyotales	Dictyotaceae	<i>Dictyota fasciola</i> (Roth) J.V. Lamouroux var. <i>repens</i> (J.Agardh) Ardissonne				+	
Ph	A	Dictyotales	Dictyotaceae	<i>Dictyota spiralis</i> Montagne		+	+		+
Ph	C	Dictyotales	Dictyotaceae	<i>Dictyota implexa</i> (Desfontaines) J.V.Lamouroux		+		+	+
Ph	A	Ectocarpales	Ectocarpaceae	<i>Ectocarpus fasciculatus</i> Harvey		+		+	
Ph	A	Ectocarpales	Ectocarpaceae	<i>Ectocarpus fasciculatus</i> Harvey v. <i>abbreviatus</i> (Kützing) Sauvageau TI	+				
Ph	C	Ectocarpales	Ectocarpaceae	<i>Ectocarpus siliculosus</i> (Dillwyn) Lyngbye v. <i>siliculosus</i>		+	+	+	+
Ph	A	Ectocarpales	Ectocarpaceae	<i>Ectocarpus siliculosus</i> (Dillwyn) Lyngbye v. <i>adriaticus</i> (Ercegovic) Cormaci et G. Furnari		+			
Ph	C	Ectocarpales	Ectocarpaceae	<i>Ectocarpus siliculosus</i> (Dillwyn) Lyngbye v. <i>arctus</i> (Kützing) Gallardo		+			
Ph	CB	Ectocarpales	Ectocarpaceae	<i>Ectocarpus siliculosus</i> (Dillwyn) Lyngbye v. <i>pygmaeus</i> (Areschoug) Gallardo		+		+	
Ph	A	Ectocarpales	Chordariaceae	<i>Elachista intermedia</i> P. et H. Crouan		+		+	
Ph	IP	Fucales	Sargassaceae	<i>Ericaria corniculata</i> (Turner) Neiva et Serrão		+	+		+
Ph	M	Fucales	Sargassaceae	<i>Ericaria crinita</i> (Duby) Molinari et Guiry		+	+	+	+
Ph	M	Fucales	Sargassaceae	<i>Ericaria amentacea</i> (C.Agardh) Molinari et Guiry		+	+		+
Ph	M	Ectocarpales	Acinetosporaceae	<i>Feldmannia battersiides</i> (Ercegovic) Cormaci et G. Furnari		+			
Ph	C	Ectocarpales	Acinetosporaceae	<i>Feldmannia irregularis</i> (Kützing) G.Hamel		+	+		+
Ph	A	Ectocarpales	Acinetosporaceae	<i>Feldmannia lebelii</i> (Areschoug ex P. L. et H. M. Crouan) Hamel		+			
Ph	C	Ectocarpales	Acinetosporaceae	<i>Feldmannia mitchelliae</i> (Harvey) H.-S.Kim		+		+	
Ph	A	Ectocarpales	Acinetosporaceae	<i>Feldmannia padinae</i> (Buffham) Hamel		+			
Ph	SC	Ectocarpales	Acinetosporaceae	<i>Feldmannia paradoxa</i> (Montagne) Hamel		+		+	+
Ph	A	Ectocarpales	Acinetosporaceae	<i>Feldmannia paradoxa</i> (Montagne) Hamel v. <i>donatiae</i> (Ercegovic) M.J. Wynne		+			
Ph	M	Fucales	Fucaceae	<i>Fucus virsoides</i> J. Agardh		+	+	+	+
Ph	A	Ectocarpales	Chordariaceae	<i>Giraudia sphacelarioides</i> Derbès et Solier		+		+	
Ph	IP	Fucales	Sargassaceae	<i>Gongolaria barbata</i> (Stackhouse) Kuntze		+	+	+	+
Ph	M	Fucales	Sargassaceae	<i>Gongolaria barbata</i> f. <i>aurantia</i> (Kützing) Falace, Alongi et Kaleb					+

Ph	M	Fucales	Sargassaceae	<i>Gongolaria montagnei</i> (J. Agardh) Kuntze var. <i>compressa</i> (Ercegovic) Verlaque, Blanfuné, Boudouresque et Thibaut	+	+		+	+
Ph	M	Fucales	Sargassaceae	<i>Gongolaria montagnei</i> (J. Agardh) Kuntze var. <i>montagnei</i>	+		+	+	+
Ph	M	Fucales	Sargassaceae	<i>Gongolaria montagnei</i> (J. Agardh) Kuntze var. <i>tenuior</i> (Ercegovic) Molinari & Guiry	+				
Ph	M	Fucales	Sargassaceae	<i>Gongolaria sauvageauana</i> (Hamel) Molinari et Guiry	+			+	+
Ph	C	Sphacelariales	Stypocaulaceae	<i>Halopteris filicina</i> (Grateloup) Kützing	+	+	+	+	+
Ph	C	Sphacelariales	Stypocaulaceae	<i>Halopteris scoparia</i> (Linnaeus) Sauvageau	+	+	+	+	+
Ph	A	Ectocarpales	Ectocarpaceae	<i>Herponema velutinum</i> (Greville) J. Agardh	+				
Ph	M	Ectocarpales	Acinetosporaceae	<i>Hincksia dalmatica</i> (Ercegovic) Cormaci et G. Furnari	+		+		
Ph	C	Ectocarpales	Acinetosporaceae	<i>Hincksia granulosa</i> (J.E. Smith) P.C. Silva	+	+			+
Ph	M	Ectocarpales	Acinetosporaceae	<i>Hincksia hauckii</i> (Ercegovic) Cormaci et G. Furnari	+				
Ph	C	Ectocarpales	Acinetosporaceae	<i>Hincksia sandriana</i> (Zanardini) P.C. Silva	+	+			+
Ph	C	Ectocarpales	Scytosiphonaceae	<i>Hydroclathrus clathratus</i> (Bory ex C. Agardh) M. Howe			+		+
Ph	A	Ectocarpales	Acinetosporaceae	<i>Kuetzingiella battersii</i> (Bornet ex Sauvageau) Kornmann v. <i>battersii</i>	+				
Ph	M	Ectocarpales	Acinetosporaceae	<i>Kuetzingiella battersii</i> (Bornet ex Sauvageau) Kornmann v. <i>mediterranea</i> (Sauvageau) Gomez et Ribera	+				
Ph	M	Ectocarpales	Chordariaceae	<i>Leathesia mucosa</i> Feldmann	+	+		+	+
Ph	A	Ectocarpales	Chordariaceae	<i>Mesogloia leveillei</i> (J. Agardh) Meneghini	+		+		
Ph	A	Ectocarpales	Chordariaceae	<i>Mesogloia vermiculata</i> (J.E. Smith) S.F. Gray	+				
Ph	A	Ectocarpales	Chordariaceae	<i>Myriactula rivulariae</i> (Suhr) Feldmann	+				
Ph	A	Ectocarpales	Chordariaceae	<i>Myriactula stellulata</i> (Harvey) Levring			+		+
Ph	IP	Ectocarpales	Chordariaceae	<i>Myriogloea sciurus</i> (Harvey) Kuckuck ex Oltmanns	+				
Ph	C	Ectocarpales	Chordariaceae	<i>Myrionema orbiculare</i> J. Agardh	+	+	+		+
Ph	C	Ectocarpales	Chordariaceae	<i>Myrionema strangulans</i> Greville	+				
Ph	C	Ectocarpales	Chordariaceae	<i>Myriotrichia claviformis</i> Harvey	+	+			+
Ph	A	Sporochnales	Sporochnaceae	<i>Nereia filiformis</i> (J. Agardh) Zanardini	+		+		
Ph	P	Dictyotales	Dictyotaceae	<i>Padina pavonica</i> (Linnaeus) J.V. Lamouroux	+	+	+	+	+
Ph	C	Ectocarpales	Scytosiphonaceae	<i>Petalonia fascia</i> (O.F. Müller) Kuntze			+		+
Ph	A	Ectocarpales	Petrospongiaceae	<i>Petrospongium berkeleyi</i> (Greville) Nägeli	+		+		
Ph	M	Ralfsiales	Ralfiaceae	<i>Pseudolithoderma adriaticum</i> (Hauck) M. Verlaque	+				
Ph	C	Ralfsiales	Ralfiaceae	<i>Pseudoralfsia verrucosa</i> (Areschoug) Parente, Fletcher et G.W. Saunders	+	+		+	+
Ph	CB	Ectocarpales	Chordariaceae	<i>Punctaria tenuissima</i> (C. Agardh) Greville	+	+		+	+
Ph	C	Ectocarpales	Acinetosporaceae	<i>Pylaiella littoralis</i> (Linnaeus) Kjellman	+	+			+
Ph	P	Fucales	Sargassaceae	<i>Sargassum acinarium</i> (Linnaeus) Setchell	+		+	+	+
Ph	M	Fucales	Sargassaceae	<i>Sargassum hornschurchii</i> C. Agardh	+		+		
Ph	P	Fucales	Sargassaceae	<i>Sargassum vulgare</i> C. Agardh	+	+		+	+
Ph	A	Ectocarpales	Chordariaceae	<i>Sauvageaugloia griffithsiana</i> (Greville ex W.J. Hooker) Hamel ex Kylin	+		+		
Ph	CB	Ectocarpales	Scytosiphonaceae	<i>Scytosiphon dotyi</i> M.J. Wynne	+	+			+
Ph	C	Ectocarpales	Scytosiphonaceae	<i>Scytosiphon lomentaria</i> (Lyngbye) Link <i>nom. cons.</i>	+	+	+	+	+
Ph	A	Ectocarpales	Chordariaceae	<i>Spermatochnus paradoxus</i> (Roth) Kützing			+		+
Ph	C	Sphacelariales	Sphacelariaceae	<i>Sphacelaria cirrosa</i> (Roth) C. Agardh	+	+	+	+	+
Ph	C	Sphacelariales	Sphacelariaceae	<i>Sphacelaria fusca</i> (Hudson) S.F. Gray			+		+
Ph	A	Sphacelariales	Sphacelariaceae	<i>Sphacelaria plumula</i> Zanardini	+	+	+		+
Ph	C	Sphacelariales	Sphacelariaceae	<i>Sphacelaria rigidula</i> Kützing	+		+		
Ph	C	Sphacelariales	Sphacelariaceae	<i>Sphacelaria tribuloides</i> Meneghini	+	+	+	+	+
Ph	A	Sphacelariales	Sphacelariaceae	<i>Sphacelorbis nanus</i> (Nägeli ex Kützing) Draisma, Prud'homme et H. Kawai	+				
Ph	A	Sporochnales	Sporochnaceae	<i>Sporochnus pedunculatus</i> (Hudson) C. Agardh	+	+	+		+
Ph	M	Ectocarpales	Chordariaceae	<i>Stictyosiphon adriaticus</i> Kützing	+	+			+
Ph	C	Ectocarpales	Chordariaceae	<i>Stilophora tenella</i> (Esper) P.C. Silva	+	+	+		+
Ph	A	Ectocarpales	Chordariaceae	<i>Striaria attenuata</i> (Greville) Greville			+	+	+
Ph	A	Dictyotales	Dictyotaceae	<i>Taonia atomaria</i> (Woodward) J. Agardh	+	+			+

Ph	A	Tilopteridales	Cutleriaceae	<i>Zanardinia typus</i> (Nardo) P. C. Silva		+	+	+	+	+
Rh	M	Acrochaetiales	Acrochaetiaceae	<i>Acrochaetium incrassatum</i> Ercegovic TI		+		+		
Rh	C	Acrochaetiales	Acrochaetiaceae	<i>Acrochaetium secundatum</i> (Lyngbye) Nägeli		+		+		
Rh	A	Acrochaetiales	Acrochaetiaceae	<i>Acrochaetium subpinnatum</i> Bornet ex Hamel		+		+		
Rh	M	Halymeniales	Halymeniaceae	<i>Acrodiscus vidovichii</i> (Meneghini) Zanardini		+		+		
Rh	C	Ceramiales	Delesseriaceae	<i>Acrosorium ciliolatum</i> (Harvey) Kylin		+				
Rh	M	Acrosynphytales	Acrosynphytaceae	<i>Acrosymphyton purpuriferum</i> (J. Agardh) G. Sjöstedt		+		+		
Rh	IP	Ceramiales	Ceramiaceae	<i>Acrothamnion preissii</i> (Sonder) E.M. Wollaston				+		+
Rh	A	Peyssonneliales	Peyssonneliaceae	<i>Agissea harveyana</i> (P. et H. Crouan ex J. Agardh) Pestana, Lyra, Cassano et J.M.C. Nunes		+	+			+
Rh	A	Ceramiales	Callithamniaceae	<i>Aglaothamnion bipinnatum</i> (P. et H. Crouan) Feldmann et Feldmann-Mazoyer				+		+
Rh	M	Ceramiales	Callithamniaceae	<i>Aglaothamnion caudatum</i> (J. Agardh) Feldmann- Mazoyer		+			+	+
Rh	P	Ceramiales	Callithamniaceae	<i>Aglaothamnion cordatum</i> (Børgesen) Feldmann- Mazoyer		+				
Rh	A	Ceramiales	Callithamniaceae	<i>Aglaothamnion feldmanniae</i> Halos				+		+
Rh	A	Ceramiales	Callithamniaceae	<i>Aglaothamnion gallicum</i> (Nägeli) Halos ex Ardré		+				
Rh	A	Ceramiales	Callithamniaceae	<i>Aglaothamnion scopulorum</i> (C. Agardh) Feldmann- Mazoyer		+				
Rh	A	Ceramiales	Callithamniaceae	<i>Aglaothamnion tenuissimum</i> (Bonnemaison) Feldmann-Mazoyer v. <i>mazoyerae</i> G. Furnari, L'Hardy- Halos, Rueness et Serio		+	+			+
Rh	A	Ceramiales	Callithamniaceae	<i>Aglaothamnion tenuissimum</i> (Bonnemaison) Feldmann-Mazoyer v. <i>tenuissimum</i>				+		+
Rh	A	Ceramiales	Callithamniaceae	<i>Aglaothamnion tripinnatum</i> (C. Agardh) Feldmann- Mazoyer				+	+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Alsidium corallinum</i> C. Agardh		+	+	+	+	+
Rh	M	Ceramiales	Rhodomelaceae	<i>Alsidium helminthochorton</i> (Schwendimann) Kützing		+		+		
Rh	C	Corallinales	Lithophyllaceae	<i>Amphiroa rigida</i> J.V. Lamouroux		+	+	+	+	+
Rh	P	Corallinales	Lithophyllaceae	<i>Amphiroa rubra</i> (Philippi) Woelkerling		+		+		
Rh	A	Ceramiales	Wrangeliaceae	<i>Anotrichium barbatum</i> (C. Agardh) Nägeli		+				
Rh	A	Ceramiales	Wrangeliaceae	<i>Anotrichium furcellatum</i> (J. Agardh) Baldock		+	+		+	+
Rh	A	Ceramiales	Ceramiaceae	<i>Antithamnion cruciatum</i> (C. Agardh) Nägeli		+	+	+	+	+
Rh	M	Ceramiales	Ceramiaceae	<i>Antithamnion heterocladum</i> Funk				+		+
Rh	M	Ceramiales	Ceramiaceae	<i>Antithamnion tenuissimum</i> (Hauck) Schiffner		+	+		+	+
Rh	C	Ceramiales	Ceramiaceae	<i>Antithamnionella spirographidis</i> (Schiffner) E.M.Wollaston		+	+			+
Rh	A	Ceramiales	Delesseriaceae	<i>Apoglossum ruscifolium</i> (Turner) J. Agardh		+	+	+		+
Rh	M	Ceramiales	Delesseriaceae	<i>Arachnophyllum confervaceum</i> (Meneghini) Zanardini	+					
Rh	C	Bonnemaisiales	Bonnemaisoniaceae	<i>Asparagopsis armata</i> Harvey		+	+		+	+
Rh	M	Ceramiales	Ceramiaceae	<i>Balliella cladoderma</i> (Zanardini) Athanasiadis		+	+			+
Rh	C	Bangiales	Bangiaceae	<i>Bangia fuscopurpurea</i> (Dillwyn) Lyngbye		+	+	+	+	+
Rh	A	Bonnemaisiales	Bonnemaisoniaceae	<i>Bonnemaisonia asparagoides</i> (Woodward) C. Agardh		+				
Rh	CB	Bonnemaisiales	Bonnemaisoniaceae	<i>Bonnemaisonia hamifera</i> Hariot				+		+
Rh	A	Hapalidiales	Hapalidiaceae	<i>Boreolithon vanheurckii</i> (Heydrich in Chalon) A. Harvey et Woelkerling		+		+		
Rh	A	Ceramiales	Wrangeliaceae	<i>Bornetia secundiflora</i> (J. Agardh) Thuret				+		+
Rh	A	Ceramiales	Rhodomelaceae	<i>Bostrychia scorpioides</i> (Hudson) Montagne		+				
Rh	A	Rhodymeniales	Rhodymeniaceae	<i>Botryocladia botryoides</i> (Wulfen) Feldmann		+	+	+	+	+
Rh	A	Rhodymeniales	Rhodymeniaceae	<i>Botryocladia microphysa</i> (Hauck) Kylin		+	+	+		+
Rh	A	Ceramiales	Callithamniaceae	<i>Callithamnion corymbosum</i> (J.E. Smith) Lyngbye		+	+	+	+	+
Rh	A	Ceramiales	Callithamniaceae	<i>Callithamnion granulatum</i> (Ducluzeau) C. Agardh		+				
Rh	M	Gigartinales	Calosiphonaceae	<i>Calosiphonia dalmatica</i> (Kützing) Bornet et Flahault				+		+
Rh	SC	Ceramiales	Rhodomelaceae	<i>Carradoriella denudata</i> (Dillwyn) A.M. Savoie et G.W. Saunders		+	+	+		+
Rh	A	Ceramiales	Rhodomelaceae	<i>Carradoriella elongata</i> (Hudson) A.M. Savoie et G.W. Saunders		+	+	+	+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Carradoriella elongella</i> (Harvey) A.M. Savoie et G.W. Saunders		+	+			+

Rh	C	Gigartinales	Caulacanthaceae	<i>Catenella caespitosa</i> (Withering) L.M. Irvine	+	+	+	+	+
Rh	C	Gigartinales	Caulacanthaceae	<i>Caulacanthus ustulatus</i> (Mertens ex Turner) Kützing	+	+	+	+	+
Rh	C	Ceramiales	Ceramiaceae	<i>Centroceras gasparrinii</i> (Meneghini) Kützing subsp. minus Wolf, Buosi, Juhmani et Sfriso			+		+
Rh	C	Ceramiales	Ceramiaceae	<i>Ceramium ciliatum</i> (J. Ellis) Ducluzeau v. <i>ciliatum</i>	+	+	+	+	+
Rh	M	Ceramiales	Ceramiaceae	<i>Ceramium ciliatum</i> (J. Ellis) Ducluzeau v. <i>robustum</i> (J. Agardh) Feldmann-Mazoyer	+		+	+	+
Rh	C	Ceramiales	Ceramiaceae	<i>Ceramium cimbricum</i> H.E. Petersen			+		+
Rh	A	Ceramiales	Ceramiaceae	<i>Ceramium circinatum</i> (Kützing) J. Agardh	+	+	+		+
Rh	C	Ceramiales	Ceramiaceae	<i>Ceramium deslongchampsii</i> Chauvin ex Duby	+	+			+
Rh	C	Ceramiales	Ceramiaceae	<i>Ceramium diaphanum</i> (Lightfoot) Roth	+	+			+
Rh	A	Ceramiales	Ceramiaceae	<i>Ceramium echionotum</i> J. Agardh	+	+			+
Rh	M	Ceramiales	Ceramiaceae	<i>Ceramium giacconeii</i> Cormaci et G. Furnari			+		+
Rh	A	Ceramiales	Ceramiaceae	<i>Ceramium rubrum</i> var. <i>barbatum</i> Feldmann-Mazoyer N. ill.	+	+			+
Rh	C	Ceramiales	Ceramiaceae	<i>Ceramium siliquosum</i> (Kützing) Maggs et Hommersand v. <i>siliquosum</i>	+	+	+	+	+
Rh	M	Ceramiales	Ceramiaceae	<i>Ceramium siliquosum</i> (Kützing) Maggs et Hommersand f. <i>acrocarpum</i> (Feldmann-Mazoyer) G. Furnari	+		+		
Rh	A	Ceramiales	Ceramiaceae	<i>Ceramium siliquosum</i> (Kützing) Maggs et Hommersand v. <i>elegans</i> (Roth) G. Furnari	+				
Rh	M	Ceramiales	Ceramiaceae	<i>Ceramium siliquosum</i> (Kützing) Maggs et Hommersand v. <i>zostericola</i> (Feldmann-Mazoyer) G. Furnari	+	+		+	+
Rh	C	Ceramiales	Ceramiaceae	<i>Ceramium virgatum</i> Roth v. <i>virgatum</i>	+	+	+		+
Rh	M	Ceramiales	Ceramiaceae	<i>Ceramium virgatum</i> Roth v. <i>implexo-contortum</i> (Solier) G. Furnari	+				
Rh	C	Rhodymeniales	Champiaceae	<i>Champia parvula</i> (C. Agardh) Harvey	+	+	+	+	+
Rh	C	Gigartinales	Gigartinaceae	<i>Chondracanthus acicularis</i> (Roth) Fredericq	+	+	+	+	+
Rh	C	Gigartinales	Gigartinaceae	<i>Chondracanthus teedei</i> (Mertens ex Roth) Kützing	+	+			+
Rh	C	Ceramiales	Rhodomelaceae	<i>Chondria capillaris</i> (Hudson) M.J. Wynne	+	+	+	+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Chondria coeruleascens</i> (J. Agardh) Falkenberg	+	+		+	+
Rh	C	Ceramiales	Rhodomelaceae	<i>Chondria dasyphylla</i> (Woodward) C. Agardh	+	+	+	+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Chondria scintillans</i> Feldmann-Mazoyer			+		+
Rh	C	Hapalidiales	Hapalidiaceae	<i>Choreonema thuretii</i> (Bornet) F. Schmitz	+	+	+		+
Rh	C	Stylonematales	Stylonemataceae	<i>Chroodactylon ornatum</i> (C. Agardh) Basson	+	+	+	+	+
Rh	A	Rhodymeniales	Rhodymeniaceae	<i>Chrysomenia ventricosa</i> (J.V. Lamouroux) J. Agardh	+		+		
Rh	A	Rhodymeniales	Champiaceae	<i>Chylocladia verticillata</i> (Lightfoot) Bliding	+	+	+		+
Rh	C	Colaconematales	Colaconemataceae	<i>Colaconema codicola</i> (Børgesen) Stegenga, Bolton et R.J. Anderson				+	+
Rh	C	Colaconematales	Colaconemataceae	<i>Colaconema daviesii</i> (Dillwyn) Stegenga	+	+	+		+
Rh	A	Colaconematales	Colaconemataceae	<i>Colaconema hallandicum</i> (Kyllin) Afonso-Carrillo, Sansón, Sangil et Díaz-Villa	+		+		
Rh	C	Colaconematales	Colaconemataceae	<i>Colaconema savianum</i> (Meneghini) R.Nielsen	+				
Rh	A	Ceramiales	Wrangeliaceae	<i>Compsothamnion thuyoides</i> (J.E. Smith) Nägeli	+	+		+	+
Rh	M	Gigartinales	Rizophyllidiaceae	<i>Contarinia peyssonneliaeformis</i> Zanardini	+				
Rh	M	Gigartinales	Rizophyllidiaceae	<i>Contarinia squamariae</i> (Meneghini) Denizot	+				
Rh	C	Corallinales	Corallinaceae	<i>Corallina officinalis</i> Linnaeus	+	+	+	+	+
Rh	M	Ceramiales	Ceramiaceae	<i>Corallophila cinnabarina</i> (Grateloup ex Bory) R.E. Norris	+	+			+
Rh	C	Gigartinales	Cruoriaceae	<i>Crouania attenuata</i> (C. Agardh) J. Agardh	+	+	+	+	+
Rh	A	Halymeniales	Halymeniaceae	<i>Cryptonemia palmetta</i> (S.G.Gmelin) Woelkerling, G.Furnari, Cormaci et McNeill	+	+			+
Rh	A	Ceramiales	Delesseriaceae	<i>Dasya corymbifera</i> J. Agardh	+	+			+
Rh	A	Ceramiales	Delesseriaceae	<i>Dasya hutchinsiae</i> Harvey	+	+	+	+	+
Rh	A	Ceramiales	Delesseriaceae	<i>Dasya ocellata</i> (Grateloup) Harvey	+	+		+	+
Rh	P	Ceramiales	Delesseriaceae	<i>Dasya pedicellata</i> (C.Agardh) C.Agardh	+	+			+
Rh	A	Ceramiales	Delesseriaceae	<i>Dasya punicea</i> (Zanardini) Meneghini ex Zanardini	+		+		
Rh	A	Ceramiales	Delesseriaceae	<i>Dasya rigidula</i> (Kützing) Ardissona	+	+			+

Rh	P	Ceramiales	Rhodomelaceae	<i>Digenea simplex</i> (Wulfen) C. Agardh		+				
Rh	A	Ceramiales	Rhodomelaceae	<i>Dipterosiphonia rigens</i> (C. Agardh) Falkenberg		+	+		+	+
Rh	M	Ceramiales	Ceramiaceae	<i>Dohrniella neapolitana</i> Funk			+			+
Rh	A	Gigartinales	Dumontiaceae	<i>Dudresnaya verticillata</i> (Withering) Le Jolis		+	+	+		+
Rh	A	Corallinales	Corallineae	<i>Ellisolandia elongata</i> (J. Ellis et Solander) K. Hind et G.W. Saunder		+	+		+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Erythrocyctis montagnei</i> (Derbès et Solier) P.C. Silva		+				
Rh	A	Ceramiales	Delesseriaceae	<i>ErythroglOSSum sandrianum</i> (Kützing) Kylin		+				
Rh	C	Erythropeltales	Erythrotrichiaceae	<i>Erythrotrichia carnea</i> (Dillwyn) J. Agard		+	+	+	+	+
Rh	A	Erythropeltales	Erythrotrichiaceae	<i>Erythrotrichia reflexa</i> (P. et H. Crouan) Thuret ex De Toni		+				
Rh	M	Ceramiales	Delesseriaceae	<i>Eupogodon penicillatus</i> (Zanardini) P.C. Silva		+	+			+
Rh	A	Ceramiales	Delesseriaceae	<i>Eupogodon planus</i> (C. Agardh) Kützing		+	+	+		+
Rh	A	Rhodymeniales	Champiaceae	<i>Gastroclonium clavatum</i> (Roth) Ardissonne		+	+	+	+	+
Rh	A	Rhodymeniales	Champiaceae	<i>Gastroclonium ovatum</i> (Hudson) Papenfuss		+				
Rh	A	Rhodymeniales	Champiaceae	<i>Gastroclonium reflexum</i> (Chauvin) Kützing		+	+			+
Rh	C	Ceramiales	Ceramiaceae	<i>Gayliella mazoyerae</i> T.O. Cho, Fredericq et Hommersand		+	+	+	+	+
Rh	IP	Gelidiales	Gelidiellaceae	<i>Gelidiella lubrica</i> (Kützing) Feldmann et Hamel		+	+	+		+
Rh	A	Gelidiales	Gelidiaceae	<i>Gelidium arbusculum</i> Bory de Saint-Vincent ex Børgesen			+			
Rh	C	Gelidiales	Gelidiaceae	<i>Gelidium crinale</i> (Turner) Gaillon		+	+	+	+	+
Rh	C	Gelidiales	Gelidiaceae	<i>Gelidium minusculum</i> (Weber-van Bosse) R.E. Norris		+			+	+
Rh	A	Gelidiales	Gelidiaceae	<i>Gelidium pectinatum</i> (Montagne) Montagne		+		+		
Rh	A	Gelidiales	Gelidiaceae	<i>Gelidium pulchellum</i> (Turner) Kützing			+			+
Rh	C	Gelidiales	Gelidiaceae	<i>Gelidium pusillum</i> (Stackhouse) Le Jolis		+	+		+	+
Rh	A	Gelidiales	Gelidiaceae	<i>Gelidium spathulatum</i> (Kützing) Bornet		+	+	+	+	+
Rh	M	Gelidiales	Gelidiaceae	<i>Gelidium spinosum</i> (S.G. Gmelin) P.C. Silva v. <i>hystrix</i> (J. Agardh) G. Furnari		+				
Rh	C	Gelidiales	Gelidiaceae	<i>Gelidium spinosum</i> (S.G. Gmelin) P.C. Silva v. <i>spinosum</i>		+	+	+	+	+
Rh	M	Rhodymeniales	Fauchaceae	<i>Gloiocladia furcata</i> (C. Agardh) J. Agardh		+				
Rh	A	Gracilariales	Gracilariaceae	<i>Gracilaria armata</i> (C. Agardh) Greville		+	+			+
Rh	C	Gracilariales	Gracilariaceae	<i>Gracilaria bursa-pastoris</i> (S.G. Gmelin) P.C. Silva		+	+	+	+	+
Rh	M	Gracilariales	Gracilariaceae	<i>Gracilaria corallicola</i> Zanardini		+				
Rh	A	Gracilariales	Gracilariaceae	<i>Gracilaria dura</i> (C. Agardh) J. Agardh		+				
Rh	M	Gracilariales	Gracilariaceae	<i>Gracilaria longa</i> Gargiulo, De Masi et Tripodi		+				
Rh	C	Gracilariales	Gracilariaceae	<i>Gracilariopsis longissima</i> (S.G. Gmelin) Steentoft, L.M. Irvine et Farnham		+	+	+	+	+
Rh	C	Halymeniales	Halymeniaceae	<i>Grateloupia filicina</i> (J.V. Lamouroux) C. Agardh		+	+	+		+
Rh	A	Ceramiales	Wrangeliaceae	<i>Griffithsia devoniensis</i> Harvey			+			+
Rh	A	Ceramiales	Wrangeliaceae	<i>Griffithsia opuntioides</i> J. Agardh		+	+			+
Rh	P	Ceramiales	Wrangeliaceae	<i>Griffithsia schousboei</i> Montagne		+	+			+
Rh	M	Ceramiales	Callithamniaceae	<i>Gulsonia nodulosa</i> (Ercegovic) Feldmann et Feldmann-Mazoyer		+	+	+		+
Rh	CB	Ceramiales	Callithamniaceae	<i>Gymnogongrus griffithsiae</i> (Turner) Martius		+	+		+	+
Rh	A	Gigartinales	Furcellariaceae	<i>Halarachnion ligulatum</i> (Woodward) Kützing		+				
Rh	A	Ceramiales	Rhodomelaceae	<i>Halopithys incurva</i> (Hudson) Batters		+	+	+	+	+
Rh	A	Ceramiales	Wrangeliaceae	<i>Halurus flosculosus</i> (J. Ellis) Maggs et Hommersand		+				
Rh	A	Halymeniales	Halymeniaceae	<i>Halymenia elongata</i> C. Agardh			+			+
Rh	C	Halymeniales	Halymeniaceae	<i>Halymenia floresii</i> (Clemente) C. Agardh		+	+	+		+
Rh	P	Ceramiales	Rhodomelaceae	<i>Herposiphonia secunda</i> (C. Agardh) Ambronn		+	+	+		+
Rh	P	Ceramiales	Rhodomelaceae	<i>Herposiphonia tenella</i> (C. Agardh) Ambronn		+	+	+	+	+
Rh	P	Ceramiales	Delesseriaceae	<i>Heterosiphonia crispella</i> (C. Agardh) M.J. Wynne		+	+	+		+
Rh	M	Hildenbrandiales	Hildenbrandiaceae	<i>Hildenbrandia rubra</i> (Sommerfelt) Meneghini		+	+	+	+	+
Rh	C	Gelidiales	Gelidiaceae	<i>Huismaniella nigrescens</i> (Feldmann) G. Furnari, Cormaci, Alongi et Perrone		+	+	+	+	+
Rh	C	Corallinales	Hydrolithaceae	<i>Hydrolithon boreale</i> (Foslie) Y.M. Chamberlain			+	+	+	+
Rh	A	Corallinales	Hydrolithaceae	<i>Hydrolithon cruciatum</i> (Bressan) Y.M. Chamberlain		+	+		+	+

Rh	C	Corallinales	Hydrolithaceae	<i>Hydrolithon farinosum</i> (J.V. Lamouroux) Penrose et Y.M. Chamberlain	+	+	+	+	+
Rh	P	Gigartinales	Cystocloniaceae	<i>Hypnea musciformis</i> (Wulfen) J.V. Lamouroux	+	+	+	+	+
Rh	A	Ceramiales	Delesseriaceae	<i>Hypoglossum hypoglossoides</i> (Stackhouse) Collins et Hervey	+	+	+		+
Rh	A	Rhodymeniales	Rhodymeniaceae	<i>Irvinea chiajeana</i> (Meneghini) Cormaci, Alongi et G. Furnari	+	+			+
Rh	A	Corallinales	Corallinaceae	<i>Jania longifurca</i> Zanardini	+	+	+		+
Rh	A	Corallinales	Corallinaceae	<i>Jania rubens</i> (Linnaeus) J.V. Lamouroux v. <i>corniculata</i> (Linnaeus) Yendo			+		+
Rh	C	Corallinales	Corallinaceae	<i>Jania rubens</i> (Linnaeus) J.V. Lamouroux v. <i>rubens</i>	+	+	+		+
Rh	CB	Corallinales	Corallinaceae	<i>Jania squamata</i> (Linnaeus) J.H. Kim, Guiry et H.G. Choi			+		+
Rh	A	Corallinales	Corallinaceae	<i>Jania virgata</i> (Zanardini) Montagne	+	+	+	+	+
Rh	C	Gigartinales	Kallymeniaceae	<i>Kallymenia reniformis</i> (Turner) J. Agardh	+				
Rh	A	Ceramiales	Rhodomelaceae	<i>Laurencia microcladia</i> Kützing	+				
Rh	C	Ceramiales	Rhodomelaceae	<i>Laurencia obtusa</i> (Hudson) J.V. Lamouroux	+	+	+	+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Leptosiphonia brodiei</i> (Dillwyn) Savoie et Saunders	+				
Rh	A	Ceramiales	Rhodomelaceae	<i>Leptosiphonia fibrillosa</i> (Agardh) A.M. Savoie et G.W. Saunders	+	+			+
Rh	SC	Nemaliales	Galaxuraceae	<i>Liagora distenta</i> (Mertens ex Roth) J.V. Lamouroux	+				
Rh	A	Nemaliales	Galaxuraceae	<i>Liagora viscida</i> (Forsskål) C. Agardh		+		+	
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum corallinae</i> (P.L. et H.M. Crouan) Heydrich			+		+
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum cystoseirae</i> (Hauck) Heydrich	+	+	+	+	+
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum decussatum</i> (J. Ellis et Solander) Philippi					+
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum fasciculatum</i> Foslie [<i>Millepora fasciculata</i>]					+
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum incrustans</i> Philippi				+	+
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum papillosum</i> (Zanardini ex Hauck) Foslie	+	+	+		+
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum pustulatum</i> (J.V. Lamouroux) Foslie	+	+	+	+	+
Rh	IP	Corallinales	Lithophyllaceae	<i>Lithophyllum racemus</i> (Lamarck) Foslie	+	+	+	+	+
Rh	A	Corallinales	Lithophyllaceae	<i>Lithophyllum stictaeforme</i> (Areschoug) Hauck	+	+	+	+	+
Rh	A	Hapalidiales	Hapalidiaceae	<i>Lithothamnion corallioides</i> (P. et H. Crouan) P. et H. Crouan	+	+			+
Rh	M	Hapalidiales	Hapalidiaceae	<i>Lithothamnion minervae</i> Basso			+		+
Rh	CB	Hapalidiales	Hapalidiaceae	<i>Lithothamnion sonderi</i> Hauck	+	+		+	+
Rh	M	Hapalidiales	Hapalidiaceae	<i>Lithothamnion valens</i> Foslie	+				
Rh	A	Rhodymeniales	Lomentariaceae	<i>Lomentaria articulata</i> (Hudson) Lyngbye v. <i>linearis</i> Zanardini	+	+			+
Rh	M	Rhodymeniales	Lomentariaceae	<i>Lomentaria articulata</i> v. <i>articulata</i> (Hudson) Lyngbye	+	+			+
Rh	M	Rhodymeniales	Lomentariaceae	<i>Lomentaria chylocladiella</i> Funk			+		+
Rh	A	Rhodymeniales	Lomentariaceae	<i>Lomentaria clavellosa</i> (Turner) Gaillon	+	+	+	+	+
Rh	M	Rhodymeniales	Lomentariaceae	<i>Lomentaria ercegovicii</i> M. Verlaque, Boudouresque, Meinesz, Giraud et Marcot-Coqueugnot			+		+
Rh	A	Rhodymeniales	Lomentariaceae	<i>Lomentaria firma</i> (J. Agardh) Falkenberg	+				
Rh	M	Rhodymeniales	Lomentariaceae	<i>Lomentaria jabukae</i> Ercegovic	+		+		
Rh	A	Rhodymeniales	Lomentariaceae	<i>Lomentaria orcadensis</i> (Harvey) F.S. Collins			+		+
Rh	M	Rhodymeniales	Lomentariaceae	<i>Lomentaria verticillata</i> Funk	+			+	+
Rh	IP	Ceramiales	Rhodomelaceae	<i>Lophocladia lallemandii</i> (Montagne) F. Schmitz	+	+	+		+
Rh	P	Ceramiales	Rhodomelaceae	<i>Lophosiphonia cristata</i> Falkenberg			+		+
Rh	C	Ceramiales	Rhodomelaceae	<i>Lophosiphonia obscura</i> (C. Agardh) Falkenberg	+	+	+	+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Melanothamnus collabens</i> (C. Agardh) Díaz-Tapia et Maggs	+				
Rh	C	Hapalidiales	Hapalidiaceae	<i>Melobesia membranacea</i> (Esper) J.V. Lamouroux	+	+	+		+
Rh	A	Halymeniales	Halymeniaceae	<i>Meredithia microphylla</i> (J. Agardh) J. Agardh	+	+	+		+
Rh	A	Hapalidiales	Hapalidiaceae	<i>Mesophyllum expansum</i> (Philippi) Cabioch et M.L. Mendoza					+
Rh	P	Hapalidiales	Hapalidiaceae	<i>Mesophyllum macroblastum</i> (Foslie) Adey			+		+
Rh	M	Hapalidiales	Hapalidiaceae	<i>Mesophyllum philippi</i> (Foslie) W.H. Adey	+	+		+	+

Rh	C	Gelidiales	Gelidiellaceae	<i>Millerella pannosa</i> (Feldmann) G.H.Boo et L.Le Gall	+	+	+	+	+
Rh	A	Ceramiales	Wrangeliaceae	<i>Monosporus pedicellatus</i> (J.E. Smith) Solier	+	+		+	+
Rh	A	Bonnemaisoniales	Naccariaceae	<i>Naccaria wiggii</i> (Turner) Endlicher	+		+		
Rh	C	Nemaliales	Nemaliaceae	<i>Nemalion lubricum</i> Duby	+	+	+	+	+
Rh	M	Nemastomales	Nemastomaceae	<i>Nemastoma dichotomum</i> J. Agardh	+	+			+
Rh	M	Nemastomales	Nemastomaceae	<i>Nemastoma dichotomum</i> J. Agardh var. <i>longitrichogynum</i> (Ercegović) Athanasiadis				+	
Rh	C	Corallinales	Spongitiaceae	<i>Neogoniolithon brassica-florida</i> (Harvey) Setchell et L.R. Mason	+	+		+	+
Rh	A	Corallinales	Spongitiaceae	<i>Neogoniolithon hauckii</i> (Rothpletz) R.A.Townsend & Huisman			+	+	+
Rh	A	Bangiales	Bangiaceae	<i>Neopyropia leucosticta</i> (Thuret) L.-E.Yang et J.Brodie	+	+	+	+	+
Rh	A	Gigartinales	Furcellariaceae	<i>Neurocaulon foliosum</i> (Meneghini) Zanardini	+				
Rh	M	Ceramiales	Delesseriaceae	<i>Nitophyllum albidum</i> Ardissonne	+		+		
Rh	A	Ceramiales	Delesseriaceae	<i>Nitophyllum punctatum</i> (Stackhouse) Greville	+	+			+
Rh	A	Ceramiales	Rhodomelaceae	<i>Osmundaria volubilis</i> (Linnaeus) R.E. Norris	+		+	+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Osmundea oederi</i> (Gunnerus) G. Furnari			+		+
Rh	A	Ceramiales	Rhodomelaceae	<i>Osmundea truncata</i> (Kützing) K.W. Nam et Maggs	+	+	+	+	+
Rh	C	Ceramiales	Rhodomelaceae	<i>Palisada patentiramea</i> (Montagne) Cassano, Senties, Gil-Rodríguez et M.T. Fujii			+		+
Rh	C	Ceramiales	Rhodomelaceae	<i>Palisada perforata</i> (Bory) K.W. Nam	+	+		+	+
Rh	C	Ceramiales	Rhodomelaceae	<i>Palisada thuyoides</i> (Kützing) Cassano, Senties, Gil-Rodríguez et M.T. Fujii	+		+		
Rh	A	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia armorica</i> (P. et H. Crouan) Weber-van Bosse	+				
Rh	A	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia atropurpurea</i> P. et H. Crouan	+				
Rh	P	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia bournetii</i> Boudouresque et Denizot	+	+			+
Rh	C	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia dubyi</i> P. et H. Crouan	+	+			+
Rh	C	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia heteromorpha</i> (Zanardini) Athanasiadis	+	+			+
Rh	P	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia inamoena</i> Pilger	+		+		
Rh	A	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia rosa-marina</i> Boudouresque et Denizot	+	+			+
Rh	P	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia rubra</i> (Greville) J. Agardh	+	+	+	+	+
Rh	M	Peyssonneliales	Peyssonneliaceae	<i>Peyssonnelia squamaria</i> (S.G. Gmelin) Decaisne	+	+	+	+	+
Rh	A	Gigartinales	Phylloporaceae	<i>Phyllophora crispa</i> (Hudson) P.S. Dixon	+	+			+
Rh	A	Gigartinales	Phylloporaceae	<i>Phyllophora sicula</i> (Kützing) Guiry et L.M. Irvine	+	+			+
Rh	CB	Hapalidiales	Hapalidiaceae	<i>Phymatolithon calcareum</i> (Pallas) W.H. Adey et D.L. McKibbin ex Woelkerling et L.M. Irvine	+	+			+
Rh	A	Hapalidiales	Hapalidiaceae	<i>Phymatolithon lamii</i> (Me. Lemoine) Y.M. Chamberlain			+		+
Rh	CB	Hapalidiales	Hapalidiaceae	<i>Phymatolithon lenormandii</i> (Areschoug) W.H. Adey	+	+	+	+	+
Rh	C	Nemastomales	Schizymeniaceae	<i>Platoma cyclocolpum</i> (Montagne) F. Schmitz	+				
Rh	A	Ceramiales	Wrangeliaceae	<i>Pleonosporium borrieri</i> (J.E. Smith) Nägeli	+	+			+
Rh	C	Plocamiales	Plocamiaceae	<i>Plocamium cartilagineum</i> (Linnaeus) P.S. Dixon	+	+			+
Rh	CB	Corallinales	Corallinaceae	<i>Pneophyllum confervicola</i> (Kützing) Y.M. Chamberlain	+	+	+		+
Rh	C	Corallinales	Corallinaceae	<i>Pneophyllum coronatum</i> (Rosanoff) Penrose	+	+			+
Rh	C	Corallinales	Corallinaceae	<i>Pneophyllum fragile</i> Kützing	+	+	+	+	+
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia arachnoidea</i> (C. Agardh) Zanardini	+				
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia atlantica</i> Kapraun et J.N. Norris		+			
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia banyulensis</i> Coppejans			+		+
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia biformis</i> Zanardini		+			
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia breviararticulata</i> (C. Agardh) Zanardini	+	+		+	+
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia cladorhiza</i> Ardissonne	+				
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia derbesii</i> Solier ex Kützing	+				
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia deusta</i> (Roth) Sprengel	+				
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia dichotoma</i> Kützing		+	+	+	+
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia flexella</i> (C. Agardh) J. Agardh	+				
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia flocculosa</i> (C. Agardh) Endlicher	+				
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia funebris</i> De Notaris ex J. Agardh	+		+		
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia opaca</i> (C. Agardh) Moris et De Notaris	+	+	+	+	+
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia ornata</i> J. Agardh	+				

Rh	IP	Ceramiales	Rhodomelaceae	<i>Polysiphonia polyspora</i> (C. Agardh) Montagne		+			+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia sanguinea</i> (C. Agardh) Zanardini		+	+			+
Rh	P	Ceramiales	Rhodomelaceae	<i>Polysiphonia scopulorum</i> Harvey				+		+
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia sertularioides</i> (Grateloup) J. Agardh		+	+	+	+	+
Rh	M	Ceramiales	Rhodomelaceae	<i>Polysiphonia setigera</i> Kützling		+	+			+
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia spinosa</i> (C. Agardh) J. Agardh		+				
Rh	CB	Ceramiales	Rhodomelaceae	<i>Polysiphonia stricta</i> (Mertens ex Dillwyn) Greville				+		+
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia subtilissima</i> Montagne		+				
Rh	A	Ceramiales	Rhodomelaceae	<i>Polysiphonia subulata</i> (Ducluzeau) P. et H. Crovan		+	+		+	+
Rh	IP	Ceramiales	Rhodomelaceae	<i>Polysiphonia tenerrima</i> Kützling		+		+		
Rh	A	Bangiales	Bangiaceae	<i>Porphyra atropurpurea</i> (Olivi) De Toni <i>TI</i>		+				
Rh	A	Bangiales	Bangiaceae	<i>Porphyra dioica</i> J. Brodie et L.M. Irvine		+				
Rh	A	Bangiales	Bangiaceae	<i>Porphyra linearis</i> Greville				+	+	+
Rh	CB	Bangiales	Bangiaceae	<i>Porphyra purpurea</i> (Roth) C. Agardh		+				
Rh	C	Bangiales	Bangiaceae	<i>Porphyra umbilicalis</i> (Linnaeus) Kützling		+				
Rh	M	Nemastomales	Nemastomaceae	<i>Predaea ollivieri</i> Feldmann		+	+			+
Rh	C	Ceramiales	Ceramiaceae	<i>Pseudoceramium tenerrimum</i> (G. Martens) Barros-Barreto et Maggs		+	+	+	+	+
Rh	C	Gelidiales	Pterocladaceae	<i>Pterocladia capillacea</i> (S.G. Gmelin) Santelices et Hommersand		+	+	+	+	+
Rh	A	Gelidiales	Pterocladaceae	<i>Pterocladia melanoidea</i> (Schousboe ex Bornet) Santelices et Hommersand		+		+	+	+
Rh	A	Gelidiales	Pterocladaceae	<i>Pterocladia melanoidea</i> (Schousboe ex Bornet) Santelices et Hommersand var. <i>filamentosa</i> (Schousboe ex Bornet) M.J.Wynne					+	+
Rh	C	Ceramiales	Ceramiaceae	<i>Pterothamnion crispum</i> (Ducluzeau) Nägeli		+	+		+	+
Rh	C	Ceramiales	Ceramiaceae	<i>Pterothamnion plumula</i> (J. Ellis) Nägeli		+	+	+	+	+
Rh	C	Ceramiales	Wrangeliaceae	<i>Ptilothamnion pluma</i> (Dillwyn) Thuret		+	+			+
Rh	A	Ceramiales	Delesseriaceae	<i>Radicilingua mediterranea</i> Wolf, Sciuto et Sfriso		+	+	+		+
Rh	A	Ceramiales	Delesseriaceae	<i>Radicilingua reptans</i> (Kyllin) Papenfuss			+			+
Rh	CB	Acrochaetiales	Acrochaetiaceae	<i>Rhodochorton purpureum</i> (Lightfoot) Rosenvinge		+				
Rh	A	Acrochaetiales	Acrochaetiaceae	<i>Rhodochorton velutinum</i> (Hauck) Hamel <i>TI</i>		+				
Rh	A	Gigartinales	Cystocloniaceae	<i>Rhodophyllis divaricata</i> (Stackhouse) Papenfuss		+	+			+
Rh	A	Rhodymeniales	Rhodymeniaceae	<i>Rhodymenia ardissoni</i> Feldmann		+	+	+	+	+
Rh	A	Rhodymeniales	Rhodymeniaceae	<i>Rhodymenia pseudopalmata</i> (J.V. Lamouroux) P.C. Silva		+	+			+
Rh	A	Ceramiales	Rhodomelaceae	<i>Rytiphlaea tinctoria</i> (Clemente) C. Agardh		+	+	+	+	+
Rh	C	Gigartinales	Schmitziellaceae	<i>Schmitziella endophloea</i> Bornet et Batters				+		
Rh	A	Gigartinales	Phylloporaceae	<i>Schottera nicaeensis</i> (J.V. Lamouroux ex Duby) Guiry et Hollenberg		+				
Rh	A	Scinaiales	Scinaiaceae	<i>Scinaia complanata</i> (F.S. Collins) A.D. Cotton				+		+
Rh	A	Scinaiales	Scinaiaceae	<i>Scinaia furcellata</i> (Turner) J. Agardh		+	+			+
Rh	M	Sebdeniales	Sebdeniaceae	<i>Sebdenia dichotoma</i> Berthold		+				
Rh	M	Ceramiales	Callithamniaceae	<i>Seirospora apiculata</i> (Meneghini) Feldmann-Mazoyer		+				
Rh	M	Ceramiales	Callithamniaceae	<i>Seirospora giraudyi</i> (Kützling) De Toni		+				
Rh	A	Ceramiales	Callithamniaceae	<i>Seirospora interrupta</i> (J.E. Smith) F. Schmitz		+	+			+
Rh	M	Ceramiales	Callithamniaceae	<i>Seirospora sphaerosphora</i> Feldmann				+		+
Rh	M	Ceramiales	Wrangeliaceae	<i>Spermothamnion flabellatum</i> Bornet		+				
Rh	A	Ceramiales	Wrangeliaceae	<i>Spermothamnion irregulare</i> (J. Agardh) Ardissoni				+		+
Rh	A	Ceramiales	Wrangeliaceae	<i>Spermothamnion repens</i> (Dillwyn) Rosenvinge		+	+			+
Rh	A	Ceramiales	Wrangeliaceae	<i>Spermothamnion strictum</i> (C. Agardh) Ardissoni				+		+
Rh	A	Gigartinales	Sphaerococcaceae	<i>Sphaerococcus coronopifolius</i> Stackhouse		+	+	+		+
Rh	A	Ceramiales	Wrangeliaceae	<i>Sphondylothamnion multifidum</i> (Hudson) Nägeli				+		+
Rh	IP	Corallinales	Spongitiaceae	<i>Spongites fruticulosus</i> Kützling		+	+	+		+
Rh	C	Ceramiales	Callithamniaceae	<i>Spyridia filamentosa</i> (Wulfen) Harvey		+	+	+	+	+
Rh	C	Ceramiales	Ceramiaceae	<i>Stirikia codii</i> (H. Richards) Barros-Barreto et Maggs		+	+		+	+
Rh	C	Stylonematales	Stylonemataceae	<i>Stylonema alsidii</i> (Zanardini) K.M. Drew		+	+	+	+	+
Rh	A	Stylonematales	Stylonemataceae	<i>Stylonema cornu-cervi</i> Reinsch		+				

Rh	A	Ceramiales	Rhodomelaceae	<i>Symphyocliadiella parasitica</i> (Hudson) D.Bustamante, B.Y.Won, S.C.Lindstrom et T.O.Cho	+	+				+
Rh	A	Gigartinales	Gloiosiphonaceae	<i>Thuretella schousboei</i> (Thuret) F.Schmitz					+	
Rh	P	Nemaliales	Galaxuraceae	<i>Tricleocarpa fragilis</i> (Linnaeus) Huisman et R.A. Townsend					+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Vertebrata byssoides</i> (Goodenough et Woodward) Kuntze	+					
Rh	A	Ceramiales	Rhodomelaceae	<i>Vertebrata fruticulosa</i> (Wulfen) Kuntze	+	+	+	+		+
Rh	A	Ceramiales	Rhodomelaceae	<i>Vertebrata fucooides</i> (Hudson) Kuntze	+	+				+
Rh	A	Ceramiales	Rhodomelaceae	<i>Vertebrata furcellata</i> (C. Agardh) Kuntze	+	+	+			+
Rh	P	Ceramiales	Rhodomelaceae	<i>Vertebrata reptabunda</i> (Suhr) Díaz-Tapia et Maggs					+	+
Rh	A	Ceramiales	Rhodomelaceae	<i>Vertebrata subulifera</i> (C. Agardh) Kuntze	+	+	+			+
Rh	M	Ceramiales	Rhodomelaceae	<i>Vertebrata tripinnata</i> (Harvey) Kuntze	+	+				+
Rh	P	Ceramiales	Wrangeliaceae	<i>Wrangelia penicillata</i> (C. Agardh) C. Agardh	+	+	+	+		+
Rh	P	Gigartinales	Solieriaceae	<i>Wurdemannia miniata</i> (Sprengel) Feldmann et Hamel	+				+	
Rh	C	Ceramiales	Rhodomelaceae	<i>Xiphosiphonia pennata</i> (C. Agardh) Savoie et G.W. Saunders	+	+	+	+		+
Rh	A	Ceramiales	Ceramiaceae	<i>Yoneshiguela compta</i> (Børgesen) Barros-Barreto, Maggs et M.A. Jaramillo	+	+	+	+		+

Table S3 – List of species found in the Gulf of Trieste (Northern Adriatic) in the last 30 years. *Taxa* are listed alphabetically within the divisions (Rhodophyta, Phaeophyceae, Chlorophyta). Numbers indicate references in Table S1

ITA = Italian sector of the Gulf of Trieste
SLO = Slovenian sector of the Gulf of Trieste
[I.A.N.] = improperly applied name
[*N.ill.*] = *nomen illegitimum*
* = first record for the Gulf of Trieste
** = first record for the Adriatic Sea

RHODOPHYTA

****Acrothamnion preissii* (Sonder) E.M. Wollaston**

Basionym: *Callithamnion* (“*Callithamnium*”) *preissii* Sonder 1845: 52; type locality: Rottneest Island, Australia

ITA: 1

Note: it is the first record of this alien species in the Gulf of Trieste; the species was previously reported in the Grado and Marano lagoons (Falace *et al.* 2009).

***Agissea harveyana* (P. et H. Crouan ex J. Agardh) Pestana, Lyra, Cassano et J.M.C. Nunes**

P. Crouan and H. Crouan ex J. Agardh 1851 [1851-1963]: 501; type locality: near Brest, Atlantic France

ITA: 6, 7, 93 as *Peyssonnelia harveyana*

***Aglaothamnion bipinnatum* (P. et H. Crouan) Feldmann et Feldmann-Mazoyer**

Basionym: *Callithamnion bipinnatum* P.L. Crouan et H.M. Crouan 1867: 136; type locality: Finistère, France

ITA: 2

Note: Falace & Bressan (2002) reported this species for the Gulf of Trieste on artificial substrate panels. Up to date this is the only record of *A. bipinnatum* for Italian coasts, since it was previously reported in the Mediterranean Sea only in France and Algeria (Gomez-Garreta *et al.* 2001) and Cyprus (Tsamis *et al.* 2014).

***Aglaothamnion caudatum* (J. Agardh) Feldmann-Mazoyer**

Basionym: *Callithamnion caudatum* J. Agardh 1841: 46; type locality: “*In oceano atlantico ad oras Galliae*”

ITA: 6, 7, 8

SLO: 110, 117

****Aglaothamnion feldmanniae* Halos**

Halos 1965: 126; type locality: Baie de Morlaix, France

ITA: 1

Note: this is the first occurrence of this alien species in the Gulf of Trieste; for the Italian coasts it has been previously reported in the Venice lagoon (Sfriso & Curiel, 2007) and in Tuscany (Rindi *et al.* 2002)

Aglaothamnion tenuissimum* (Bonnemaison) Feldmann-Mazoyer v. *tenuissimum

Basionym: *Callithamnion tenuissimum* Bonnemaison 1828: 132; syntype localities: Saint-Pol-de-Léon, Brest, Saint Malò, Atlantic France

ITA: 3, 4, 93, 110

***Aglaothamnion tenuissimum* (Bonnemaison) Feldmann-Mazoyer v. *mazoyerae* G. Furnari, L'Hardy-Halos, Rueness et Serio**

Furnari *et al.* 1998: 848; type locality: Cannizzaro, Catania, Italy

ITA: 1; 5, 6, 7, 8 as *A. tenuissimum*; 9 as *Callithamnion tenuissimum*

Note: we followed Furnari *et al.* (1998) referring to *A. tenuissimum* v. *mazoyerae*, the Italian citations of *A. tenuissimum* *sensu* Feldmann-Mazoyer

***Aglaothamnion tripinnatum* (C. Agardh) Feldmann-Mazoyer**

Basionym: *Callithamnion tripinnatum* C. Agardh 1828: 168; type locality: Atlantic France

ITA: 1, 3, 4, 5, 6, 7, 8, 93

SLO: 11, 120, 122, 125, 126

***Alsidium corallinum* C. Agardh**

C. Agardh 1827: 639; type locality: “in mari ad saxa prope Tergestum”

ITA: 1, 6, 7, 8, 12, 13, 14, 15, 16, 94

SLO: 17, 18, 111, 112, 121, 126

***Amphiroa rigida* J.V. Lamouroux**

Lamouroux 1860: 2697; type locality: Mediterranean Sea

ITA: 1, 3, 7

SLO: 17, 101, 102, 103, 111, 126

***Anotrichium furcellatum* (J. Agardh) Baldock**

Basionym: *Griffithsia furcellata* J. Agardh 1842: 75-76; type locality: near Amalfi, Napoli, Italy

ITA: 1, 4, 93; 7, 8, 14 as *Neomonospora furcellata*

SLO: 127 as *Neomonospora furcellata*

***Antithamnion cruciatum* (C. Agardh) Nägeli**

Basionym: *Callithamnion cruciatum* C. Agardh 1827: 637; type locality: Trieste, Italy

ITA: 1, 2, 3, 4, 6, 7, 8, 13, 93, 110; 6, 7, 8 as *A. cruciatum* v. *profundum*; 7 as *A. cruciatum* v. *radicans*; 15, 16, 94 as *Callithamnion cruciatum*

SLO: 11, 110, 117, 120, 122, 126

Note: in agreement with Gomez Garreta et al. (2001), we did not recognize the taxonomic validity infraspecific taxa of this species

***Antithamnion heterocladum* Funk**

Funk 1955: 9-12; type locality: Napoli, Italy.

ITA: 3

Note: it is a rather rare endemic mediterranean species. That is the only finding of *A. heterocladum* for the northern Adriatic Sea since it has previously been reported in the souther Adriatic Sea (Cormaci et al. 2000, Cecere et al. 2000).

***Antithamnion tenuissimum* (Hauck) Schiffner**

Basionym: *Antithamnion cruciatum* f. *tenuissima* Hauck 1883: 71; type locality: Adriatic Sea

ITA: 1, 2, 7, 110

SLO: 19

***Antithamnionella spirographidis* (Schiffner) E.M. Wollaston**

Basionym: *Antithamnion spirographidis* Schiffner 1916: 137; type locality: Trieste, Italy

ITA: 1; 26, 39, 57 as *Antithamnion spirographidis*

***Apoglossum ruscifolium* (Turner) J. Agardh**

Basionym: *Fucus ruscifolius* Turner 1802: 127-130; type locality: Yarmouth, Norfolk, England

ITA: 1, 4, 7

SLO: 126

***Asparagopsis armata* Harvey**

Harvey 1855: 544; syntype localities: Garden Island and King George Sound, Western Australia

ITA: 1, 2, 4, 7, 93

SLO: 110, 113, 114, 115, 116, 121

Note: this alien species is widely distributed throughout the Gulf of Trieste as well as in the whole Mediterranean Sea. It should be noted in the Gulf of Trieste this species is present only as tetrasporic thalli, known as “*Falkenbergia*-phase”

***Balliella cladoderma* (Zanardini) Athanasiadis**

Basionym: *Callithamnion cladodermum* Zanardini 1846: 37; type locality: Dalmatian coast, Adriatic Sea

ITA: 1, 5, 20; 6, 7, 8, 14 as *Antithamnion cladodermum*

***Bangia fuscopurpurea* (Dillwyn) Lyngbye**

Basionym: *Conferva fuscopurpurea* Dillwyn 1807: pl. 92; type locality: Wales, Dunraven Castle, Glamorganshire

ITA: 1, 5, 6, 8, 14, 21, 22, 110; 9 as *B. anisogona*; 7 as *B. atropurpurea*; 23 as *Porphyra fuscopurpurea*

SLO: 120, 122, 126; 24, 25, 124 as *B. atropurpurea*

Note: according to Sutherland *et al.* (2011), the genus *Bangia* seems to be confined to freshwater environments while it is still unknown to which genus the marine “*Bangia fuscopurpurea*” belongs; so we follow Cormaci *et al.* (2017) and assigned the species to the genus “*Bangia*”

***Bonnemaisonia hamifera* Hariot**

Hariot 1891: 223; type locality: Yokosuka, Japan

ITA: 1

SLO: 114, 116

Note: it should be noted this alien species is present with only tetrasporic thalli, known as a “*Trailliella*-phase”

***Boreolithothamnion sonderi* (Hauck) P.W.Gabrielson, Maneveldt, Hughey et V.Peña**

Lithothamnion sonderi Hauck 1883: 273, pl. 3: fig. 5; type locality: Helgoland, Germany

ITA: 7, 93 as *Lithothamnion sonderi*

SLO: 118 as *L. sonderi*

****Bornetia secundiflora* (J. Agardh) Thuret**

Basionym: *Griffithsia secundiflora* J. Agardh 1841: 39; syntype localities: “*Hab. in mari atlantico a Gadibus et Tingi saltim usque ad Bayonne, in mediterraneo ad littora Galloprovinciae et Italiae*”

ITA: 1

Note: this is the first record of *B. secundiflora* in Gulf of Trieste.

***Botryocladia botryoides* (Wulfen) Feldmann**

Basionym: *Fucus botryoides* Wulfen in Jacquin 1791: 146, pl. 13: fig. 1; type locality: Adriatic Sea

ITA: 1, 4, 5, 6, 7, 8, 13, 27, 28, 93; 14, 26, 29 as *Chrysomenia uvaria*

SLO: 111, 121, 126

***Botryocladia microphysa* (Hauck) Kylin**

Basionym: *Chrysomenia microphysa* Hauck 1883: 160; type locality: Adriatic Sea, Italy

ITA: 7, 93

SLO: 126

***Callithamnion corymbosum* (J.E. Smith) Lyngbye**

Basionym: *Conferva corymbosa* J.E. Smith 1811, pl.2352; type locality: Brighthelmston, Sussex, England

ITA: 1, 4, 6, 7, 8, 110; 16 as *C. versicolor*

SLO: 24, 120, 122, 126, 127

***Calosiphonia dalmatica* (Kützing) Bornet et Flahault**

Basionym: *Helminthora purpurea* var. *dalmatica* Kützing 1847: 222; type locality: Primošten (Croatia) Adriatic Sea

ITA: 1, 4, 30, 93

***Carradoriella denudata* (Dillwyn) Savoie et Saunders**

Basionym: *Conferva denudata* Dillwyn 1809: 85, suppl. pl. G; type locality: Southampton, England

ITA: 1; 2, 4, 8 as *Polysiphonia denudata*; 26 as *P. variegata*; 6 as *P. variegata* v. *leptura*; 8 *P. variegata* f. *leptura*

SLO: 126 *P. denudata*

***Carradoriella elongata* (Hudson) Savoie et Saunders**

Basionym: *Conferva elongata* Hudson 1762: 484; type locality: England

ITA: 1; 3, 5, 7, 12, 43, 44, 93 as *Polysiphonia elongata*; 16 as *P. elongata* v. *spinulosa*; 46, 65 as *P. chalarophlaea*; 12 *P. ruchingeri*

SLO: 126; 127 as *P. ruchingeri*

***Carradoriella elongella* (Harvey) A.M. Savoie et G.W. Saunders**

Basionym: *Polysiphonia elongella* Harvey 1833: 334; type locality: Sidmouth, Devon, England

ITA: 1; 7, 12 as *Polysiphonia elongella*

***Catenella caespitosa* (Withering) L.M. Irvine**

Basionym: *Ulva caespitosa* Withering 1776: 735; type locality: “Side Rocks, Anglesey”, Wales

ITA: 1; 8, 12, 14, 16 as *C. opuntia*; 6, 7, 14, 22, 31 as *C. repens*

SLO: 11, 24, 32, 120, 121, 122; 126 as *C. repens*

***Caulacanthus ustulatus* (Mertens ex Turner) Kützing**

Basionym: *Fucus acicularis* var. *ustulatus* Mertens ex Turner 1808: 143, 144; type locality: Cádiz, Spain

ITA: 1, 6, 7, 8

SLO: 120, 122, 126

***Centroceras gasparrinii* (Meneghini) Kützing subsp. *minus* M.A.Wolf, Buosi, Juhmani et Sfriso**

Centroceras gasparrinii subsp. *minus* M.A.Wolf, Buosi, Juhmani & Sfriso 2019: 238, figs 3-12; type locality: "Lido of Venice", Italy

ITA: 1

Ceramium ciliatum* (J. Ellis) Ducluzeau v. *ciliatum

Basionym: *Conferva ciliata* Ellis 1768, 57: 425, pl. XVIII: figs. h, H; type locality: Sussex, England

ITA: 1, 2, 3, 4, 5, 7, 9, 13, 14, 26, 33, 34, 35, 110

SLO: 11, 18, 24, 120, 122, 124, 126

***Ceramium ciliatum* (J. Ellis) Ducluzeau v. *robustum* (J. Agardh) Feldmann-Mazoyer**

Basionym: *Ceramium robustum* J. Agardh 1894:35; type locality: Mediterranean Sea and adjacent Seas

ITA: 1, 6, 7, 8, 14

SLO: 24, 126

***Ceramium cimbricum* H.E. Petersen**

Petersen in Rosenvinge 1924: 378, figs 318, 319; type locality: Limfjorden, Ejerslev Røn, Denmark

ITA: 2

***Ceramium circinatum* (Kützing) J. Agardh**

Basionym: *Hormoceras circinatum* Kützing 1842: 733; syntype localities: "in Oceano atlantico ad littora Angliae, Galliae et Hispaniae; in mari mediterraneo ad littora Corsica"

ITA: 1, 7; 9 as *C. duriusculum*

SLO: 126

***Ceramium deslongchampsii* Chauvin ex Duby**

Duby 1830: 967; type locality: Normandy, France

ITA: 1; 6, 7, 8, 14, 23 as *C. diaphanum* v. *strictum*; 36 as *C. patens* [N.ill.]; 26 as *C. strictum*; 37 as *Hormoceras polyceras* var. *proliferum*

***Ceramium diaphanum* (Lightfoot) Roth**

Basionym: *Conferva diaphana* Lightfoot 1777: 996; type locality: Scotland

ITA: 1, 2, 4, 93, 110; 3, 6, 7, 8, 14 as *C. tenuissimum*; 38 as *C. nodosum* [N.ill.]; 95 as *Conferva diaphana*

SLO: 11, 24; 126 as *C. tenuissimum*

***Ceramium echionotum* J. Agardh**

J. Agardh 1844: 27; lectotype locality: Torquay

ITA: 1, 7

***Ceramium giacconeii* Cormaci et G. Furnari**

Cormaci et G. Furnari 1991: 45; type locality: Lachea Island, Catania, Italy

ITA: 3 as *C. cingulatum* [I.A.N.]

***Ceramium secundatum* Lyngbye**

Lyngbye 1819: 119, pl. 37 A: figs 1-4; sintype locality: Faeroe Islands

ITA: 1; 4, 14; 6, 7, 14, 35 as *C. rubrum* var. *barbatum*

Ceramium siliquosum* (Kützing) Maggs et Hommersand v. *siliquosum

Basionym: *Hormoceras siliquosum* Kützing 1847: 35; type locality: Torbay, Devon, England

ITA: 1, 4, 93; 6, 7, 8, 14, 23, 28 as *C. diaphanum*

SLO: 120, 122; 126, 127 as *C. diaphanum*

***Ceramium siliquosum* (Kützing) Maggs et Hommersand v. *zostericola* (Feldmann-Mazoyer) G. Furnari**

Basionym: *Ceramium diaphanum* v. *zostericola* Feldmann-Mazoyer 1941: 314; type locality: Dellys, Algeria
ITA: 1, 6, 7, 8, 14, 23 as *C. diaphanum* v. *zostericola*
SLO: 124 as *C. diaphanum* v. *zostericola*

***Ceramium virgatum* Roth**

Roth 1797: 148, pl. VIII: fig. 1; type locality: South Harbour, Helgoland, North Sea
ITA: 1, 4; 3, 7, 39 as *C. rubrum*
SLO: 126 as *C. rubrum*

***Champia parvula* (C. Agardh) Harvey**

Basionym: *Chondria parvula* C. Agardh 1824: 207; type locality: Cádiz, Spain
ITA: 1, 3, 4, 5, 8, 14, 40, 93, 110; 9, 13 as *Lomentaria parvula*
SLO: 18, 126

***Chondracanthus acicularis* (Roth) Fredericq**

Basionym: *Ceramium aciculare* Roth 1806: 114; type locality: Adriatic Sea
ITA: 1, 2, 3, 4; 5, 6, 7, 8, 13, 14, 26, 28, 29 as *Gigartina acicularis*
SLO: 11, 120, 122; 18, 121, 124, 126, 127 as *Gigartina acicularis*

***Chondracanthus teedei* (Mertens ex Roth) Kützing**

Basionym: *Ceramium teedei* Mertens ex Roth 1806: 108-109, pl. 4; type locality: Portugal
ITA: 1, 4, 10; 6, 7, 8, 9, 12, 16 as *Gigartina teedei*

***Chondria capillaris* (Hudson) M.J. Wynne**

Basionym: *Ulva capillaris* Hudson 1778: 57; syntype localities: near Christchurch, Hampshire and near Margate Kent, England
ITA: 1, 13, 93; 94 *C. striolata*; 6, 7, 8, 14, 23, 41 as *C. tenuissima*; 9 as *Chondriopsis divergens*, as *Chondriopsis tenuissima*; 12, 16 as *Laurencia striolata*
SLO: 126, 127 as *C. tenuissima*

***Chondria coerulescens* (J. Agardh) Falkenberg**

Basionym: *Chondriopsis coerulescens* J. Agardh 1863 [1851-1963]: 808; type locality: "in oceano atlantico ad littus Galliae"
ITA: 1, 4, 6, 7, 8, 21, 42
SLO: 11, 120, 122

***Chondria dasyphylla* (Woodward) C. Agardh**

Basionym: *Fucus dasyphyllus* Woodward 1794: 239-241, pl. 23: figs. 1-3; lectotype locality: Yarmouth, Norfolk, England
ITA: 1, 3, 4, 5, 6, 7, 8, 14, 23, 27, 28, 93
SLO: 18, 124, 126

***Chondria scintillans* Feldmann-Mazoyer**

G. Feldmann 1964: 45, figs 1A, 2B, 4,5; type locality: Roscoff, Atlantic France
ITA: 1, 30

***Choreonema thuretii* (Bornet) F. Schmitz**

Basionym: *Melobesia thuretii* Bornet in Bornet and Thuret 1878: 96-99, pl. L: figs 1-8; lectotype locality: Pointe de Querqueville, Manche, France
ITA: 1, 7
SLO: 101, 102, 126

***Chroodactylon ornatum* (C. Agardh) Basson**

Basionym: *Conferva ornata* C. Agardh 1824: 104; type locality: Bridge near Transberg, Lake Mälaren, Sweden
ITA: 1; 6, 7, 8, 14 as *Asterocytis ornata*
SLO: 126, 127 as *A. ornata*

***Chylocladia verticillata* (Lightfoot) Bliding**

Basionym: *Fucus verticillatus* Lightfoot 1777: 962; type locality: Little Isles of Jura, Scotland

ITA: 1, 2, 3, 4, 5, 7, 33, 43, 44, 45, 110; 7 as *C. verticillata* v. *bistratosa*; 6, 8, 12, 35 as *C. kaliformis*; 14 as *Gastroclonium kaliforme*; 9 as *Lomentaria kaliformis*; 46, 47 as *L. patens*, as *L. squarrosa*

SLO: 126

****Colaconema codicola* (Børghesen) Stegenga, Bolton et R.J. Anderson**

Basionym: *Acrochaetium codicola* Børghesen 1927: 33, figs 18-20; type locality: "Islas Canarias, sin precisar localidad"

SLO: 129

Note: this is the first occurrence of this species for the Gulf of Trieste; in the Adriatic Sea, it was previously found only in the Venice lagoon (Sfriso et al, 2020)

***Colaconema daviesii* (Dillwyn) Stegenga**

Basionym: *Conferva daviesii* Dillwyn 1809: 73, pl. F; lectotype locality: probably north Wales

ITA: 1; 6, 7 as *Acrochaetium daviesii*; 4 as *Audouinella daviesii*

SLO: 126 as *Acrochaetium daviesii*

***Compsothamnion thuyoides* (J.E. Smith) Nägeli**

Basionym: *Conferva thuyoides* Smith 1810: pl. 2205; type locality: Yarmouth, Scotland

ITA: 1, 2, 4, 6, 7, 8, 14, 93; 15, 16 as *Callithamnion thuyoides*

SLO: 11, 110, 117, 120, 122

***Corallina officinalis* Linnaeus**

Linnaeus 1758: 805; type locality: "Hab. O. Eur." European Seas

ITA: 1, 3, 4, 5, 6, 7, 8, 9, 13, 14, 26, 27, 28, 33

SLO: 17, 101, 102, 103, 104, 111, 112, 113, 120, 122, 124, 126; 100, 102, 103, 105, 126 as *C. officinalis* v. *flabellifera*

***Corallophila cinnabarina* (Grateloup ex Bory) R.E. Norris**

Basionym: *Boryna cinnabarina* Grateloup ex Bory de Saint-Vincent 1822: 413; type locality: l'Étang de Thau, Hérault, Mediterranean France

ITA: 1, 4; 7 as *Centroceras cinnabarinum*; 3 as *Ceramium cinnabarinum*

***Crouania attenuata* (C. Agardh) J. Agardh**

Basionym: *Mesogloia attenuata* C. Agardh 1824: 51; lectotype locality: Brittany, France

ITA: 1, 2, 4, 7, 12, 23, 48, 93, 110; 15 as *Griffithsia attenuata*

SLO: 11, 120, 122, 124, 126

***Cryptonemia palmetto* (S.G.Gmelin) Woelkerling, G.Furnari, Cormaci et McNeill**

Basionym: *Fucus palmetto* S.G.Gmelin 1768: 183, pl. XXII, fig. 3 pl. XXIII; type locality: "littora Oceani septentrionalis et mari mediterranei"

ITA: 1; 4, 6, 7, 8, 9, 14, 26, 28, 93 as *Cryptonemia lomation*

***Dasya corymbifera* J. Agardh**

J. Agardh 1841: 31; lectotype locality: Tangier

ITA: 1, 6, 7, 8

***Dasya hutchinsiae* Harvey**

Harvey in Hooker 1833: 335; type locality: Bantry Bay, Orkney, Kingston Harbour, Ireland

ITA: 1, 4, 93, 110; 6, 7, 8, 12 as *D. arbuscula*

SLO: 110, 117; 126 as *D. arbuscula*

***Dasya ocellata* (Grateloup) Harvey**

Basionym: *Ceramium ocellatum* Grateloup 1806: fig. II; type locality: Sète, Hérault, France

ITA: 1, 2, 4, 7; 16 as *D. simpliciuscula*; 15 *Stichocarpus ocellatus*

SLO: 110, 117

***Dasya pedicellata* (C.Agardh) C.Agardh**

Basionym: *Sphaerococcus pedicellatus* C.Agardh 1822: 321; type locality: Torrey

ITA: 1, 6, 8; 7 as *Dasya baillouviana*; 12 as *D. elegans*

***Dasya rigidula* (Kützing) Ardissona**

Basionym: *Eupogonium rigidulum* Kützing 1843: 415; type locality: Split, Adriatic Sea

ITA: 1, 3, 4, 6, 7, 8, 9

***Deltalsia parasitica* (Hudson) Díaz-Tapia et Rodríguez-Buján**

Basionym: *Conferva parasitica* Hudson 1762: 486; type locality: Yorkshire, England

ITA: 1; 3, 4, 6, 7, 8, 39 as *Pterosiphonia parasitica*

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

Basionym: *Hutchinsia rigens* C. Agardh 1827: 638; type locality: Trieste, Italy

ITA: 1, 3, 7; 15, 94 as *Hutchinsia rigens*; 12 as *Polysiphonia spinella*

SLO: 124

****Dohrniella neapolitana* Funk**

Funk 1922: 232, table V, figs 7-13; type locality: Gulf of Neaples

ITA: 1

Note: this is the first occurrence of this species for the Gulf of Trieste; in Adriatic Sea, it was previously reported only in the Venice lagoon (Sfriso & Curiel, 2007)

***Dudresnaya verticillata* (Withering) Le Jolis**

Basionym: *Ulva verticillata* Withering 1796: 127; type locality: "Sea coast" England

ITA: 1, 4, 93; 9 as *D. coccinea*

SLO: 126

***Ellisolandia elongata* (J. Ellis et Solander) K. Hind et G.W. Saunders**

Ellis and Solander 1786: 119; lectotype locality: Cornwall, England

ITA: 1; 3, 4, 5, 7, 34 as *Corallina elongata*; 6, 8, 23 as *C. mediterranea*

SLO 120, 122

***Erythrotrichia carnea* (Dillwyn) J. Agardh**

Basionym: *Conferva carnea* Dillwyn 1807: pl. 84; type locality: near Loughor, Wales, England

ITA: 1, 6, 7, 8, 14, 23, 93; 90 as *E. ceramicola*; 9 *Bangia tenuissima*

SLO: 110, 117, 126, 127

***Eupogodon penicillatus* (Zanardini) P.C.Silva**

Dasya penicillata Zanardini 1865: 379, pl. XLI [41]: figs 1-3; type locality: Sibenik, Croatia

ITA: 1; 9 as *Dasya penicillata* Zanardini

***Eupogodon planus* (C. Agardh) Kützing**

Basionym: *Dasya plana* C. Agardh 1827: 645; type locality: Adriatic Sea

ITA: 93; 12, 90 as *Dasya plana*; 6, 7, 8, 41 as *Dasyopsis plana*; 94 as *Rytiphlaea pumila*; 9, 12, 16,

91 as *Dasya spinella*; 6, 7, 8, 41 as *Dasyopsis spinella*

SLO: 26 as *Dasyopsis spinella*

***Gastroclonium clavatum* (Roth) Ardissona**

Basionym: *Conferva clavata* Roth 1797: 160; type locality: West Indies

ITA: 1, 4, 6, 7, 8, 41; 12 as *Chylocladia mediterranea*

SLO: 11, 120, 121, 122, 126

***Gastroclonium reflexum* (Chauvin) Kützing**

Basionym: *Lomentaria reflexa* Chauvin 1831: fasc. 6, no. 143; syntype localities: various in Calvados, France

ITA: 1, 4, 26, 93; 6, 7, 8 as *Chylocladia reflexa*; 9 as *Lomentaria reflexa*

***Gayliella mazoyerae* T.O. Cho, Fredericq et Hommersand**

T.O.Cho, Fredericq et Hommersand in Cho et al. 2008: 726-727; type locality: Ognina, Catania, Italy

ITA: 1; 2, 4 as *Ceramium flaccidum*; 6, 7, 8, 14 as *C. gracillimum* var. *byssoides*; 3 as *C. taylorii*

SLO: 11, 120, 122; 18 as *C. gracillum*; 126 as *C. gracillimum* var. *byssoides*

***Gelidiella lubrica* (Kützing) Feldmann et Hamel**

Basionym: *Acrocarpus lubricus* Kützinger 1843: 405, pl. 60.II [60.2]; type locality: Napoli, Italy

ITA: 6, 7, 8, 13

SLO: 126

***Gelidium crinale* (Turner) Gaillon**

Basionym: *Fucus crinalis* Turner 1811-1819: 4-5; syntype localities: England and Ireland

ITA: 1, 4, 6, 7, 8, 34; 26 as *G. crinale* v. *spathulatum* [N. ill.]

SLO: 124, 126

***Gelidium minusculum* (Weber-van Bosse) R.E. Norris**

Basionym: *Gelidium pusillum* var. *minusculum* Weber-van Bosse 1921: 226; lectotype locality: Daram Inlet, east coast of Misoöl Island, Indonesia

ITA: 6, 7, 8 as *G. pusillum* v. *minusculum*

SLO: 24

***Gelidium pulchellum* (Turner) Kützinger**

Basionym: *Fucus corneus* var. *pulchellus* Turner 1819: 146, pl. 257, fig. P; type locality: Sidmouth, Devonshire, England

ITA: 1, 4, 28

***Gelidium pusillum* (Stackhouse) Le Jolis**

Basionym: *Fucus pusillus* Stackhouse 1795: 16; type locality: Sidmouth, Devonshire, England

ITA: 1, 2, 3, 4, 6, 7, 8, 14, 27, 34, 93; 9 as *G. corneum* v. *pulvinatum*

SLO: 11, 24, 32

***Gelidium spathulatum* (Kützinger) Bornet**

Basionym: *Acrocarpus spathulatus* Kützinger 1868: 18, pl. 36; type locality: “*Mari Adriatico*”

ITA: 1, 3, 5, 6, 7, 8, 13, 14

SLO: 24, 110, 117, 126

***Gelidium spinosum* (S.G. Gmelin) P.C. Silva**

Basionym: *Fucus spinosus* S.G. Gmelin 1768: 161, pl. 18: fig. 3; syntype localities: “*Mare mediterraneum et anglicum*”

ITA: 3, 5, 7 as *G. latifolium*

SLO: 111; 18, 111, 126 as *G. latifolium*

***Gracilaria armata* (C. Agardh) Greville**

Basionym: *Sphaerococcus armatus* C. Agardh 1827: 645; type locality: Trieste, Italy

ITA: 1, 3, 5, 6, 7, 8, 14, 16, 26, 27, 28, 49; 94 as *Sphaerococcus armatus*

***Gracilaria bursa-pastoris* (S.G. Gmelin) P.C. Silva**

Basionym: *Fucus bursa-pastoris* S.G. Gmelin 1768: 121, pl. 8: fig. 3; type locality: Mediterranean Sea

ITA: 1, 4, 5, 43, 44, 93; 6, 7, 8, 9, 12, 14, 22, 23, 26, 27, 28, 29, 35, 49, 50 as *G. compressa*; 16 as *G. secunda*; 94 as *Sphaerococcus secundus*

SLO: 111; 126 as *G. compressa*

***Gracilariopsis longissima* (S.G. Gmelin) Steentoft, L.M. Irvine et Farnham**

Basionym: *Fucus longissimus* S.G. Gmelin 1768: 134, pl. XIII; type locality: Sheerness, Kent, England

ITA: 1, 4; 95 as *Fucus longissimus*; 6, 8, 14, 23, 26, 51 as *Gracilaria confervoides*; 7, 33, 52, 53, 54 as *Gracilaria verrucosa*;

SLO: 111; 126 as *Gracilaria verrucosa*

***Grateloupia filicina* (J.V. Lamouroux) C. Agardh**

Basionym: *Delesseria filicina* J.V. Lamouroux 1813: 125; type locality: Trieste, Italy

ITA: 1, 6, 7, 8, 16, 34

SLO: 126

***Griffithsia devoniensis* Harvey**

Harvey 1846: pl. 16; lectotype locality: Salcombe, Devon, England

ITA: 2

Note: Falace & Bressan (2002) reported this species for the Gulf of Trieste on artificial substrate panels. So far, this is the only record of *G. devoniensis* for the Mediterranean Sea.

***Griffithsia opuntioides* J. Agardh**

J. Agardh 1842: 76; syntype localities: "Ad saxa molae extra portum Liburniae, ad Amalfi regni Neapolitani et fructiferam prope Nizzam")

ITA: 1, 7

***Griffithsia schousboei* Montagne**

Montagne 1839: 11, pl. 10; type locality: Mediterranean coast of France

ITA: 1, 4, 7, 93

***Gulsonia nodulosa* (Ercegovic) Feldmann et G.Feldmann**

Basionym: *Dudresnaya nodulosa* Ercegovic 1949: 45, figs 1-3; type locality: Bisevo Island, Kornati, Adriatic

ITA: 7, 93

SLO: 126

***Gymnogongrus griffithsiae* (Turner) Martius**

Basionym: *Fucus griffithsiae* Turner 1808: 79, pl. 37; syntype localities: Chit Rocks, Sidmouth, Devonshire, England; shore at Balbrigen, Dublin

ITA: 1, 6, 7, 8, 9

SLO: 120, 122

***Halopithys incurva* (Hudson) Batters**

Basionym: *Fucus incurvus* Hudson 1762: 470; type locality: Sussex; England

ITA: 1, 4, 6, 7, 13, 35; 5, 8, 14, 29 as *H. pinastroides*; 9 as *Rytiphlaea pinastroides*

SLO: 17, 18, 55, 111, 112, 121, 124, 126, 130, 131

***Halymenia floresii* (Clemente) C. Agardh**

Basionym: *Fucus floresii* Clemente y Rubio 1807: 312; type locality: Sanlúcar de Barrameda, Cádiz, Spain

ITA: 1, 4, 6, 7, 8, 12, 14, 28, 34, 42, 56, 93, 93 as *H. floresii* v. *ulvoidea*

SLO: 126

***Halymenia lapathifolia* Kützinger**

Kützinger 1866: 35, pl. 99: 209; type locality: Peru: Lima

ITA: 1; 30, 93 as *H. elongata*

***Herposiphonia secunda* (C. Agardh) Ambronn**

Basionym: *Hutchinsia secunda* C. Agardh 1824: 149; type locality: Mediterranean Sea

ITA: 1, 2, 3, 4, 7, 93

SLO: 126

***Herposiphonia tenella* (C. Agardh) Ambronn**

Basionym: *Hutchinsia tenella* C. Agardh 1828: 105; type locality: Sicily

ITA: 1, 3, 4, 7, 26; 12 as *Polysiphonia tenella*

SLO: 18, 19, 110, 117, 124, 126

***Heterosiphonia crispella* (C. Agardh) M.J.Wynne**

Basionym: *Callithamnion crispellum* C. Agardh 1828: 183; lectotype locality: Cadiz, Spain

ITA: 1; 6, 7, 8, 26 as *H. wurdemannii*

SLO: 126 as *H. wurdemannii*

***Hildenbrandia rubra* (Sommerfelt) Meneghini**

Basionym: *Verrucaria rubra* Sommerfelt 1826: 140; type locality: Nordland, Norway

ITA: 1, 7, 110; 6, 8, 14, 22, 26, 28, 31, 57 as *H. prototypus*

SLO: 11, 24, 120, 122; 126 *H. prototypus*

***Huismaniella nigrescens* (Feldmann) G.Furnari, Cormaci, Alongi et Perrone**

Basionym: *Echinocaulon nigrescens* Feldmann 1931: 229, fig. 8; pl. XII [12]; type locality: "Ilot Joinville, Cherchell, Algérie"

ITA: 1; 5, 4, 7, 28, 93 as *Gelidiella nigrescens*

SLO: 18, 126, 127 as *G. nigrescens*

***Hydrolithon boreale* (Foslie) Y.M. Chamberlain**

Basionym: *Melobesia farinosa* f. *borealis* Foslie 1905: 96; type locality: Roundstone, Ireland

ITA: 1, 93

SLO: 99; 18, 101, 126 *Fosliella farinosa* v. *solmsiana*

Note: we follow Cormaci et al (2017) and Guiry & Guiry (2024) in considering *Fosliella farinosa* f. *solmsiana* as a heterotypic synonym of *H. boreale*.

***Hydrolithon cruciatum* (Bressan) Y.M. Chamberlain**

Basionym: *Fosliella cruciata* Bressan 1977: 43; type locality: Golfo di Trieste, Italy

ITA: 1; 7, 58, 59 as *Fosliella cruciata*

SLO: 106 as *Fosliella cruciata*

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

Basionym: *Melobesia farinosa* J.V. Lamouroux 1816: 315; type locality: not specified

ITA: 1, 2, 7, 28, 58, 93, 110; 6, 8, 14, 26 as *Melobesia farinosa*

SLO: 11, 24, 106, 120, 122; 18, 101, 102, 104, 107, 126, 127 as *Fosliella farinosa*

***Hypnea musciformis* (Wulfen) J.V. Lamouroux**

Basionym: *Fucus musciformis* Wulfen in Jacquin 1791: 154; type locality: Trieste, Italy

ITA: 1, 5, 4, 6, 7, 8, 14, 16, 23, 26, 28, 31, 33; 10 as *Fucus musciformis*; 12 as *H. rissoana* [N.ill.];
16 as *Gracilaria ? divaricate*

SLO: 121, 126

***Hypoglossum hypoglossoides* (Stackhouse) Collins et Hervey**

Basionym: *Fucus hypoglossoides* Stackhouse 1801: 76, pl. XIII; type locality: Southwest coast of England, from the Island of Wight to Land's End

ITA: 93; 7 as *H. woodwardii*; 46 as *H. woodwardii* v. *ovalifolium*; 9, 69 as *Delesseria crispa*; 9, as
D. hypoglossum

SLO: 126 as *H. woodwardii*

***Irvinea chiajeana* (Meneghini) Cormaci, Alongi et G. Furnari**

Basionym: *Chrysymenia chiajeana* Meneghini 1844: 296; type locality: Dalmatian coast, Adriatic Sea

ITA: 1; 4, 7, 93 as *Botryocladia chiajeana*

***Jania longifurca* Zanardini**

Zanardini 1844: 1025; type locality: Dalmatian coast, Adriatic Sea

ITA: 1, 3, 4, 7

SLO: 101, 102, 104, 126

Jania rubens* (Linnaeus) J.V. Lamouroux v. *rubens

Basionym: *Corallina rubens* Linnaeus 1758: 806; type locality: European Atlantic coast

ITA: 1, 3, 4, 5, 6, 7, 8, 14, 35, 60

SLO: 126

***Jania rubens* (Linnaeus) J.V. Lamouroux v. *corniculata* (Linnaeus) Yendo**

Basionym: *Corallina corniculata* Linnaeus 1758: 806; type locality: European Atlantic coast

ITA: 3

***Jania squamata* (Linnaeus) J.H. Kim, Guiry et H.G. Choi**

Basionym: *Corallina squamata* Linnaeus 1758: 806; type locality: "Oc. Europaeo"

ITA: 3 as *Halitilon squamatum*

***Jania virgata* (Zanardini) Montagne**

Basionym: *Corallina virgata* Zanardini 1840a: 136; type locality: Venice, Italy

ITA: 1; 5, 7 as *Corallina granifera*; 3 as *Halitilon attenuatum*; 4 as *Halitilon virgatum*

SLO: 111, 113; 18, 55, 101, 102, 103, 104, 124, 126 as *C. granifera*; 17, 112 as *H. virgatum*

***Laurencia obtusa* (Hudson) J.V. Lamouroux**

Basionym: *Fucus obtusus* Hudson 1778: 586; syntype localities: Sussex and Devon, England

ITA: 1, 3, 4, 5, 6, 7, 8, 14, 93
SLO: 111, 124, 126, 127

***Leptosiphonia fibrillose* (Agardh) A.M.Savoie et G.W.Saunders**

Basionym: *Hutchinsia fibrillose* C.Agardh 1817: 57; type locality: Brighton, England

ITA: 1; 9, 28 as *Polysiphonia fibrillosa*

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

Basionym: *Melobesia corallinae* P.L. et H.M. Crouan 1867: 150, pl. 20: fig. 133 bis: 7-11; type locality: Banc du Chateau et Baie de la Ninon, Brest, Atlantic France

ITA: 1, 93

SLO: 106 as *Titanoderma corallinae*

***Lithophyllum cystoseirae* (Hauck) Heydrich**

Basionym: *Melobesia cystoseirae* Hauck 1883: 266; type locality: Adriatic Sea

ITA: 1, 93; 7 as *Dermatolithon cystoseirae*; 14 as *Dermatolithon papillosum* v. *cystoseirae*

SLO: 111; 18, 19, 101, 102, 103, 104, 124, 126 as *D. cystoseirae*

***Lithophyllum decussatum* (J.Ellis et Solander) Philippi**

Basionym: *Millepora decussate* J.Ellis & Solander 1786: 131, pl. 23: fig. 9; type locality: coast of Portugal

SLO: 123

***Lithophyllum incrustans* Philippi**

Philippi 1837: 388; type locality: Mediterranean Sea near Sicily

ITA: 1, 4, 7, 27, 93

SLO: 101, 102, 105, 110, 117, 126

***Lithophyllum papillosum* (Zanardini ex Hauck) Foslie**

Basionym: *Lithothamnion papillosum* Zanardini ex Hauck 1883: 272, pl. II [2]: fig. 4; type locality: Mediterranean Sea near Sicily

ITA: 6, 101, 102 as *Goniolithon papillosum*

SLO: 105, 125; 126 as *G. papillosum*

***Lithophyllum pustulatum* (J.V. Lamouroux) Foslie**

Basionym: *Melobesia pustulata* J.V. Lamouroux 1816: 315; type locality: "in adriatischen Meere"

ITA: 1, 4, 8, 93; 6, 7, 8, 14, 27, 28, 43, 44 as *Dermatolithon hapalidioides*; 6, 7, 26 as *D.*

pustulatum; 2 as *Titanoderma pustulatum*

SLO: 11, 24, 99, 110; 108 as *D. hapalidioides*; 106, 117, 118, 120, 122 as *T. pustulatum*

***Lithophyllum racemus* (Lamarck) Foslie**

Basionym: *Millepora racemus* Lamarck 1818: 203; type locality: "les mers de la Guiane?"

ITA: 1, 6, 7, 8, 13, 14, 31, 93

SLO: 99, 101, 102, 103, 108, 118, 121, 126

***Lithophyllum stictaeforme* (Areschoug) Hauck**

Basionym: *Melobesia stictaeformis* Areschoug in J. Agardh 1852[1851-1963]:517; type locality: Mediterranean Sea

ITA: 1, 93; 6, 7, 8 as *Pseudolithophyllum expansum*

SLO: 19, 124, 126 as *P. expansum*

***Lithothamnion corallioides* (P. et H. Crouan) P. et H. Crouan**

Basionym: *Spongites corallioides* P. Crouan et H. Crouan 1852: no. 242; type locality: Finistere, France

ITA: 7, 93

***Lithothamnion minervae* Basso**

Basso 1995: 354-358, pl. 3, 4; table 3; type locality: Pontian Islands, Tyrrhenian Sea

ITA: 1, 93

SLO: 118

Lomentaria articulata* (Hudson) Lyngbye v. *articulata

Basionym: *Ulva articulata* Hudson 1762: 476; type locality: Cornwall, England

ITA: 1, 4, 6, 7, 8, 14, 28; 12 as *Chylocladia articulata*

***Lomentaria articulata* (Hudson) Lyngbye v. *linearis* Zanardini**

Basionym: *Lomentaria linearis* Zanardini 1841; type locality: “in mari adriatico”

ITA: 1, 7; 6, 8 as *L. linearis*; 9 as *L. phalligera*

***Lomentaria chylocladiella* Funk**

Funk 1955: 86, pl. VII: figs 1-4; type locality: Bay of Naples, Italy

ITA: 93

***Lomentaria clavellosa* (Turner) Gaillon**

Basionym: *Fucus clavellosus* Turner 1802: 133, pl. 9; type locality: Brancaster, Norfolk, England

ITA: 1, 4, 6, 7, 8, 27, 28, 93; 12 as *Chrysymenia clavellosa*

SLO: 120, 122, 126

***Lomentaria ercegovicii* M. Verlaque, Boudouresque, Meinesz, Giraud et Marcot-Coqueugniot**

Verlaque et al. 1977: 444 ; type locality: Jabuka Iasland, Adriatic Sea

ITA: 3

***Lomentaria orcadensis* (Harvey) F.S.Collins**

Basionym: *Chrysymenia orcadensis* Harvey 1849: 100; type locality: Orkney Islands, northern Scotland

ITA: 30

Note: up to data that is the only record of *L. orcadensis* for Mediterranean Sea

***Lomentaria verticillata* Funk**

Funk 1955: 86, pl. VII: figs 5-8

ITA: 6, 7, 8

SLO: 110, 117

***Lophosiphonia cristata* Falkenberg**

Falkenberg 1901: 499; type locality: Naples, Italy

ITA: 1, 4, 30

***Lophosiphonia obscura* (C. Agardh) Falkenberg**

Basionym: *Hutchinsia obscura* C. Agardh 1828: 108; type locality: Cádiz, Spain

ITA: 1, 4; 6, 7, 8, 14 as *L. subadunca*; 12 as *Polysiphonia intricata*, as *P. obscura*; 16 as *P.*

lepadicola v. *intricata*

SLO: 11, 24, 120, 122, 125

***Melobesia membranacea* (Esper) J.V.Lamouroux**

Basionym: *Corallina membranacea* Esper 1796: pl. Corallina XII; type localities: West coast of France

ITA: 7, 22, 93; 6, 8, 26 as *Epilithon membranaceum*; 22 as *Hapalidium roseolum*

SLO: 126

***Meredithia microphylla* (J. Agardh) J. Agardh**

Basionym: *Kallymenia microphylla* J. Agardh 1851 [1851-1963]: 288; syntype localities: England, atlantic coast of France, Nice and Marseille, France

ITA: 1, 93; 6, 7, 8, 14 as *Kallymenia microphylla*

SLO: 126 as *K. microphylla*

***Mesophyllum expansum* (Philippi) Cabioch et M.L.Mendoza**

Basionym: *Lithophyllum expansum* Philippi 1837: 389; type locality: Sicily (Athanasiadis & Neto, 2010)

SLO: 111

***Mesophyllum macroblastum* (Foslie) Adey**

Basionym: *Lithothamnion macroblastum* Foslie 1897: 16; Type locality: Gulf of Naples, Italy

ITA: 93

***Mesophyllum philippii* (Foslie) W.H. Adey**

Basionym: *Lithothamnion philippii* f. *alternans* Foslie 1907: 7; type locality: Tangier, Morocco

ITA: 1; 6, 7, 8, 93 as *Lithothamnion philippii*; 93 as *M. alternans*

SLO: 118

***Millerella pannosa* (Feldmann) G.H.Boo et L.Le Gall**

Basionym: *Echinocaulon pannosum* Feldmann 1931: 12; type locality: Biarritz, France

ITA: 1, 110; 2 as *Parviphycus pannosus*; 93 as *P. tenuissimus*; 6, 7, 8 as *Gelidiella tenuissima*

SLO: 18, 126 as *G. tenuissima*

***Monosporus pedicellatus* (J.E. Smith) Solier**

Basionym: *Conferva pedicellata* J.E. Smith 1808a: pl. 1817; type locality: Brighthelmston beach, Sussex, England

ITA: 1, 2, 4; 6, 7, 14 as *Neomonospora pedicellata*

SLO: 126 as *N. pedicellata*

***Nemalion lubricum* Duby**

Duby 1830: 959; type locality: Portland, England

ITA: 7, 33 as *N. helminthoides*

SLO: 24, 32, 120 as *N. helminthoides*

Note: according to Le Gall & Saunders (2010) the mediterranean specimens of *Nemalion* should be attributed to *N. lubricum*

***Nemastoma dichotomum* J. Agardh**

J. Agardh 1842: 91; type locality: “in Adriatico, ad Tergestum” Trieste, Italy

ITA: 1, 6, 7, 8, 9, 12, 14, 26, 35; 46, 62 as *Gymnophlaea biasoletiana*

***Neogoniolithon brassica-florida* (Harvey) Setchell et L.R. Mason**

Basionym: *Melobesia brassica-florida* Harvey 1849 (1847-1849): 110; type locality: Algoa Bay, Cape Province, South Africa

ITA: 1, 93; 6, 7, 8, 14 as *N. notarisii*

SLO: 11, 24, 118, 120, 122

***Neogoniolithon hauckii* (Rothpletz) R.A.Townsend et Huisman**

Basionym: *Lithothamnion hauckii* Rothpletz 1891: 295; type locality: Adriatic Sea

ITA: 93 as *Neogoniolithon mammillosum*

SLO: 126 as *N. mammillosum* [N. ill.]

***Neopyropia leucosticte* (Thuret) L.-E.Yang et J.Brodie**

Basionym: *Porphyra leucosticte* Thuret in Le Jolis 1863: 100; type locality: Cherbourg, France

ITA: 1; 4, 7, 28, 33, 34 as *Porphyra leucosticta*; 6 as *Porphyra leucosticta* f. *mediterranea*

SLO: 11, 18, 24, 25, 32, 120, 121, 122, 125, 126 as *Porphyra leucosticta*

Note: according Cormaci et al (2017) the occurrence of this species (as *Pyropia leucosticta*) in Mediterranean Sea should be still confirmed.

***Nitophyllum punctatum* (Stackhouse) Greville**

Basionym: *Fucus punctatus* Stackhouse in Withering 1796: 405; type locality: Weymouth, Dorset, England

ITA: 1, 3, 4, 5, 7, 13, 14, 23, 26, 27, 28, 29, 33, 34, 35, 43, 44, 93; 6, 7, 8 as *N. punctatum* v.

ocellatum; 16 as *N. ocellatum*

SLO: 17, 18, 111, 126

***Osmundaria volubilis* (Linnaeus) R.E.Norris**

Basionym: *Fucus volubilis* Linnaeus 1759: 1344; type locality: not specified

ITA: 1; 7 as *Vidalia volubilis*

SLO: 121 as *V. volubilis*

****Osmundea oederi* (Gunnerus) G. Furnari**

Basionym: *Fucus oederi* Gunnerus 1772: 100; Type locality: Stavanger, Norway

ITA: 1

Note this is the first occurrence of this species for the Gulf of Trieste; in Adriatic Sea, it has been reported only in the Venice lagoon (Sfriso et al., 2023)

***Osmundea truncata* (Kützing) K.W. Nam et Maggs**

Basionym: *Laurencia truncata* Kützing 1865: 19; type locality: Pirano, Croatia

ITA:1, 4; 6, 7, 8, 12, 33, 35 as *Laurencia pinnatifida*
SLO: 111 as *Omundea pinnatifida*; 126 as *L. pinnatifida*

***Palisada patentiramea* (Montagne) Cassano, Senties, Gil-Rodríguez et M.T. Fujii**

Basionym: *Chondria obtusa* var. *patentiramea* Montagne 1836: 322, pl. 18: fig. 3; type locality: Mèze, Hérault, France

ITA: 1

***Palisada perforata* (Bory) K.W. Nam**

Basionym: *Fucus perforatus* Bory de Saint-Vincent 1803: 305; type locality: Santz Cruz de Tenerife, Canary Islands

ITA: 1, 93; 5, 6, 7, 8, 23 as *Laurencia papillosa*

SLO: 120, 122; 11 as *Chondrophycus papillosus*; 111 as *L. papillosa*

***Peyssonnelia bornetii* Boudouresque et Denizot**

Boudouresque et Denizot 1973: 22-24, figs 12-18; type locality: Cap-Morgiou, France

ITA: 1, 7

***Peyssonnelia dubyi* P.Crouan et H.Crouan**

P.Crouan & H.Crouan 1844: 368, pl. 11: figs 6-8; type locality: Rade de Brest, Brittany, France

ITA: 6, 7, 93; 8 as *Cruoriella dubyi*

***Peyssonnelia heteromorpha* (Zanardini) Athanasiadis**

Basionym: *Lithymenia polymorpha* Zanardini 1860: 127, pl. 30; syntype localities: Istrian and Dalmatian coast, Adriatic Sea

ITA: 1, 110; 4, 6, 7, 8, 14, 27, 93 as *P. polymorpha*

SLO: 17, 111, 112, 121, 126 as *P. polymorpha*

***Peyssonnelia rosa-marina* Boudouresque et Denizot**

Boudouresque and Denizot 1973: 19; type locality: Port-Cros, Var, France

ITA: 1, 4, 7, 93

***Peyssonnelia rubra* (Greville) J. Agardh**

Basionym: *Zonaria rubra* Greville 1827: 340; type locality: Ionian Islands, Greece

ITA: 1, 3, 4, 7, 8, 9, 14, 93, 110

SLO: 110, 117, 125, 126

***Peyssonnelia squamaria* (S.G. Gmelin) Decaisne**

Basionym: *Fucus squamarius* S.G. Gmelin 1768: 171; type locality: Mediterranean Sea

ITA: 1, 3, 4, 5, 6, 7, 13, 14, 27, 28, 29, 33, 35, 93, 110; 95 as *Fucus squamarius*

SLO: 17, 18, 19, 55, 111, 112, 113, 121, 124, 126

***Phyllophora crispa* (Hudson) P.S. Dixon**

Basionym: *Fucus crispus* Hudson 1762: 472; type locality: England

ITA: 1, 4, 6, 7, 8 as *P. nervosa*; 16 as *Wormskioldia crispa*

***Phyllophora sicula* (Kützting) Guiry et L.M. Irvine**

Basionym: *Phyllotylus siculus* Kützting 1847: 5; type locality: Sicily, Italy

ITA: 1, 4, 7, 93; 6, 8, 14 as *P. palmettoides*

***Phymatolithon calcareum* (Pallas) W.H. Adey et D.L. McKibbin ex Woelkerling et L.M. Irvine**

Basionym: *Millepora calcarea* Pallas 1766: 265; neotype locality: Falmouth Harbour, Cornwall, England

ITA: 93; 31, 7 as *Lithothamnion calcareum*

***Phymatolithon lamii* (Me. Lemoine) Y.M. Chamberlain**

Basionym: *Lithophyllum lamii* Lemoine 1931: 13; lectotype locality: Pointe de Cancaval, Rance, France

ITA: 109

***Phymatolithon lenormandii* (Areschoug) W.H. Adey**

Basionym: *Melobesia lenormandii* Areschoug 1852: 514 ; type locality: Arromanches-les Bains, Calvados, France

ITA: 7, 93; 6, 8 as *Lithothamnion lenormandii*
SLO: 118, 120, 122, 126

***Pleonosporium borrieri* (J.E. Smith) Nägeli**

Basionym: *Conferva borrieri* J.E. Smith 1807: pl. 1741; type locality: Yarmouth, Norfolk, England

ITA: 1, 4, 6, 7, 8, 93, 110; 12, 15, 16, 94 as *Callithamnion seminudum*

***Plocamium cartilagineum* (Linnaeus) P.S. Dixon**

Basionym: *Fucus cartilagineus* Linnaeus 1753: 1161; type locality: "Oceano australiore"

ITA: 1, 4, 7, 93; 9, 14, 16 as *P. coccineum*; 8 as *P. coccineum* f. *uncinatum*; 6 as *P. vulgare*

***Pneophyllum confervicola* (Kützinger) Y.M. Chamberlain**

Basionym: *Phyllactidium confervicola* Kützinger 1843: 295; type locality: Trieste, Italy

ITA: 1, 93; 7 as *Fosliella minutula*; 96 as *Phyllactidium confervicola*

SLO: 126 as *F. minutula*

***Pneophyllum coronatum* (Rosanoff) Penrose**

Basionym: *Melobesia coronata* Rosanoff 1866: 64; type locality: Port Phillip Bay, Victoria, Australia

ITA: 1; 23, 58 as *Fosliella zonalis*

***Pneophyllum fragile* Kützinger**

Kützinger 1843: 385; type locality: Mediterranean Sea

ITA: 1, 110; 64 as *P. lejolisii*; 7, 23, 28, 58 as *Fosliella lejolisii*; 6, 8, 14 as *Melobesia lejolisii*

SLO: 11, 24, 93, 118, 120, 122; 126 as *F. lejolisii*

***Polysiphonia banyulensis* Coppejans**

Coppejans 1975: 181, pls. I-III; type locality: Banyuls-sur-Mer, France

ITA: 3

***Polysiphonia breviarticulata* (C. Agardh) Zanardini**

Basionym: *Hutchinsia breviarticulata* C. Agardh 1824: 153; type locality: Adriatic Sea

ITA: 1, 6, 7, 8, 12

SLO: 18, 127

***Polysiphonia dichotoma* Kützinger**

Kützinger 1843: 423; type locality: Spalato, Croatia

ITA: 3, 7

SLO: 126

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

Basionym: *Hutchinsia opaca* C. Agardh 1824: 148; type locality: Adriatic Sea

ITA: 3, 6, 7, 8, 9, 12, 13, 16

SLO: 11, 24, 120, 122, 126

***Polysiphonia polyspora* (C. Agardh) Montagne**

Basionym: *Hutchinsia polyspora* C. Agardh 1824: 153; type locality: "in mari Atlantico ad Gades"

ITA: 12

SLO: 11, 120, 122, 127

***Polysiphonia sanguinea* (C. Agardh) Zanardini**

Basionym: *Hutchinsia sanguinea* C. Agardh 1827: 638; type locality: Venice, Italy

ITA: 1, 4, 6, 7, 9, 12, 93; 9, 66 as *P. pycnocomma*

***Polysiphonia scopulorum* Harvey**

Harvey 1855: 540; type locality: Rottnest Island, Western Australia

ITA: 3, 5 as *Lophosiphonia scopulorum*

SLO: 120, 122

***Polysiphonia sertularioides* (Grateloup) J. Agardh**

Basionym: *Ceramium sertularioides* Grateloup 1806: fig. IV; type locality: Sette, France

ITA: 1, 4, 5, 26

SLO: 11, 24, 126; 120, 122 as *Neosiphonia sertularioides*

***Polysiphonia setigera* Kützing**

Kützing 1849; type locality: "in mari Adriatico"

ITA: 1, 6, 7, 8, 14, 23

***Polysiphonia stricta* (Mertens ex Dillwyn) Greville**

Basionym: *Conferva stricta* Dillwyn 1804: pl. 40; syntype locality: Dover and Yarmouth, England; Swansea, Wales

ITA: 1

SLO: 127 as *P.urceolata*

***Polysiphonia subulata* (Ducluzeau) Kützing**

Basionym: *Ceramium subulatum* Ducluzeau 1805: 70, pl. 5, fig. 12; type locality: Sette, France

ITA: 1, 9; 12 as *P. perreymondii*

SLO: 127 as *P. montagnei*

***Porphyra linearis* Greville**

Greville 1830: 170, pl. 18; type locality: Peakhead near Sidmouth, Devon, England

ITA: 1

SLO: 126

Note: according to Cormaci et al. (2017) the occurrence of this species in Mediterranean Sea should be still confirmed.

***Predaea ollivieri* Feldmann**

Basionym: *Predaea ollivieri* Feldmann 1942: 107, fig. 1; type locality: Villefranche-sur-Mer, France

ITA: 7, 93

SLO: 126

***Pseudoceramium tenerrimum* (G.Martens) Barros-Barreto et Maggs**

Basionym: *Hormoceras tenerrimum* G. Martens 1868: 146, pl. VIII: fig. 2; type locality: Nagasaki, Japan

ITA: 1; 3, 4, 6, 7, 8, 14 as *Ceramium tenerrimum*

SLO: 11, 24, 120, 122, 125, 126 as *Ceramium tenerrimum*

***Pterocladia capillacea* (S.G. Gmelin) Santelices et Hommersand**

Basionym: *Fucus capillaceus* S.G. Gmelin 1768: 146; type locality: Mediterranean Sea

ITA: 1, 4; 3, 5, 8, 13, 14, 34 as *Pterocladia capillacea*; 6, 7, 33 as *Pterocladia pinnata*; 26 as

Gelidium capillaceum; 38 as *G. corneum* v. *pinnatum* f. *clavatum*

SLO: 111, 112, 121; 17, 18, 124, 126 as *Pterocladia pinnata*

Pterocladia melanoidea* (Schousboe ex Bornet) Santelices et Hommersand var. *melanoidea

Basionym: *Gelidium melanoideum* Schousboe ex Bornet 1892: 269; type locality: Tangier, Morocco

ITA: 1, 4; 6, 7, 8, 14 as *Gelidium melanoideum*

SLO: 11, 110, 120; 126 as *G. melanoideum*

***Pterocladia melanoidea* (Schousboe ex Bornet) Santelices et Hommersand var. *filamentosa* (Schousboe ex Bornet) M.J.Wynne**

Basionym: *Gelidium melanoideum* var. *filamentosum* Schousboe ex Bornet 1892: 270; type locality: locality not given

SLO 117

***Pterothamnion crispum* (Ducluzeau) Nägeli**

Basionym: *Ceramium crispum* Ducluzeau 1805: 47; type locality: Cette (Sète, Hérault), France

ITA: 1, 4, 93; 6, 7, 14 as *Antithamnion plumula* v. *crispum*

SLO: 110, 117

***Pterothamnion plumula* (J. Ellis) Nägeli**

Basionym: *Conferva plumula* J. Ellis 1768: 425; type locality: Sussex, England

ITA: 1, 2, 3, 4, 93; 7, 27, 28 as *Antithamnion plumula*; 9, 15, 16 as *Callithamnion plumula*

SLO: 120, 122; 126 as *Antithamnion plumula*

***Ptilothamnion pluma* (Dillwyn) Thuret**

Basionym: *Conferva pluma* Dillwyn 1809: 72, suppl. pl. F; type locality: Bantry Bay, Ireland

ITA: 1; 66 as *Callithamnion pluma* v. *micropterum*

***Radicilingua mediterranea* Wolf, Sciuto et Sfriso**

Wolf, Sciuto et Sfriso in: Wolf M.A., Sciuto K., Maggs C.A., Petrocelli A., Cecere E., Buosi A., Sfriso A. 2021: 168, figs 3-5; type locality: Venice Lagoon, Venice, North Adriatic, Italy

ITA: 1; 4, 7, 93 as *R. thysanorhizans*

SLO: 126 as *R. thysanorhizans*

NOTE: Wolf et al. 2021 attributed the Mediterranean specimens of *R. thysanorhizans* to the new species *R. mediterranea*.

***Radicilingua reptans* (Kylin) Papenfuss**

Basionym: *Rhizoglossum reptans* Kylin 1924: 30; type locality: Genoa, Italy

ITA: 1, 2, 4, 93, 110

***Rhodophyllis divaricata* (Stackhouse) Papenfuss**

Basionym: *Bifida divaricata* Stackhouse 1809: 97; type locality: not specified

ITA: 1, 4, 5, 6, 7, 27, 93; 8, 14, 26, 28 as *R. bifida*; 46, 62 as *Inichorion cervicorne*

***Rhodymenia ardissoni* (Kuntze) Feldmann**

Basionym: *Palmaria ardissoni* Kuntze 1891: 909; type locality: Porto Maurizio, Ligurian Sea, Italy

ITA: 1, 4, 6, 7, 8, 13, 14, 35, 93; 28 as *R. corallicola*

SLO: 18, 19, 110, 111, 117, 126

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

Basionym: *Fucus pseudopalmatus* J.V.Lamouroux 1805: 29, pl. 25: fig. 2; type locality: "In Vasconio sinu, Hispaniaequae oris habitat"

ITA: 6, 26 as *R. palmetta*; 93

***Rytiphlaea tinctoria* (Clemente) C. Agardh**

Basionym: *Fucus tinctorius* Clemente 1807: 316; type locality: Castillo de St. Catalina and Punto de St Maria, Andalucia, Spain

ITA: 1, 6, 7, 8, 14, 23, 26, 41

SLO: 18, 126

***Scinaia complanata* (F.S.Collins) A.D.Cotton**

Basionym: *Scinaia furcellata* f. *complanata* Collins 1901: [1895-1919]: no. 836; type locality: Indian River Inlet, Florida, U.S.A.

ITA: 93

***Scinaia furcellata* (Turner) J. Agardh**

Basionym: *Ulva furcellata* Turner 1801: 301, pl. I: fig. A; type locality: Sheringham, Norfolk, England

ITA: 1, 4, 6, 7, 8, 14, 28, 33; 12 as *Halymenia furcellata*

***Seirospora interrupta* (J.E. Smith) F. Schmitz**

Basionym: *Conferva interrupta* Smith 1808: pl. 1838; type locality: Sussex, England

ITA: 1, 2, 93; 12 as *Halymenia furcellata* v. *subcostata*

***Seirospora sphaerospora* Feldmann**

Feldmann 1935: 369; type locality: near Banyuls-sur-mer, France

ITA: 1, 4

****Spermothamnion irregulare* (J.Agardh) Ardissoni**

Basionym: *Callithamnion irregulare* J. Agardh 1841: 43; type locality: "in mar. medit. ad oras Galloprov."

ITA: 1

Note: this is the first occurrence of this species for the Gulf of Trieste; previously it has been reported to Venice lagoon (Sfriso and Curiel, 2007)

***Spermothamnion repens* (Dillwyn) Magnus**

Basionym: *Conferva repens* Dillwyn 1802: pl. 18; syntype localities: Yarmouth and Dover, England

ITA: 1; 6, 7, 8 as *S. repens* v. *variabile*; 41 as *S. turneri*; 16 as *Callithamnion variabile*

***Spermothamnion strictum* (C. Agardh) Ardisson**

Basionym: *Callithamnion strictum* C. Agardh 1828: 185; type locality: "mar. Atl. ad Tingin"

ITA: 2

***Sphaerococcus coronopifolius* Stackhouse**

Stackhouse 1797: xxiv (type locality: Cornwall, England)

ITA: 1, 6, 7, 8, 9, 13, 14, 27, 33, 34, 35

SLO: 126

***Sphondylothamnion multifidum* (Hudson) Nägeli**

Basionym: *Conferva multifida* Hudson 1778: 596; type locality: Torquay

ITA: 93

***Spongites fruticulosus* Kützinger**

Stackhouse 1797: xxiv (type locality: Cornwall, England)

ITA: 13; 6, 7, 8, 14 as *Lithothamnion fruticulosum*

SLO: 126 as *L. fruticulosum*

***Spyridia filamentosa* (Wulfen) Harvey**

Basionym: *Fucus filamentosus* Wulfen 1803: 64; type locality: Adriatic Sea

ITA: 1, 4, 6, 7, 8, 13, 26, 93; 68 as *S. filamentosa* v. *fruticulosa* f. *brachyarthra*; 67 as *S. brachyarthra*; 37, 46 as *S. cuspidata*

SLO: 120, 121, 122, 126

***Stirkia codii* (H. Richards) Barros-Barreto et Maggs**

Basionym: *Ceramothamnion codii* H. Richards 1901: 264-265; type locality: Bermuda

ITA: 1; 3, 4, 23, 93 as *Ceramium codii*

SLO: 110, 117 as *Ceramium codii*

***Stylonema alsidii* (Zanardini) K.M. Drew**

Basionym: *Bangia alsidii* Zanardini 1839: 136; type locality: Trieste, Italy

ITA: 1, 2; 16 as *Bangia alsidii*; 7 as *Goniotrichum alsidii*; 8, 14, as *G. elegans*; 69 as *G. elegans* v. *alsidii*

SLO: 11, 24, 32, 120, 122; 18 as *G. elegans*

***Tricleocarpa fragilis* (Linnaeus) Huisman et R.A. Townsend**

Basionym: *Eschara fragilis* Linnaeus 1758: 805; type locality: "In Oceano Americano"

ITA: 1, 4

***Vertebrata fruticulosa* (Wulfen) Kuntze**

Basionym: *Fucus fruticulosus* Wulfen in Jacquin 1791: 159, pl. 16, fig. 1; type locality: Trieste, Italy

ITA: 1; 4, 6 as *Boergeseniella fruticulosa*; 7, 26 as *B. fruticulosa* v. *wulfenii*; 10 as *Fucus fruticulosus*; 16 as *Polysiphonia allochroa*; 8, 14, 26 as *P. fruticulosa*

SLO: 111, 121, 126 as *B. fruticulosa*

***Vertebrata fucooides* (Hudson) Kuntze**

Basionym: *Conferva fucooides* Hudson 1762: 485; type locality: York, England

ITA: 1; 4 as *Polysiphonia fucooides*; 6, 7, 8 as *P. violacea*

***Vertebrata furcellata* (C. Agardh) Kuntze**

Basionym: *Hutchinsia furcellata* C. Agardh 1828: 91; type locality: Brittany, France

ITA: 1, 110; 2, 3, 4, 7, 9, 93 as *Polysiphonia furcellata*; 9, 12 as *P. forcipata*

SLO: 126 as *Polysiphonia furcellata*

***Vertebrata reptabunda* (Suhr) Díaz-Tapia & Maggs**

Basionym: *Hutchinsia reptabunda* Suhr 1831: 684; type locality: Biarritz, Pyrénées-Atlantiques, France

ITA: 1; 4, 30 as *Lophosiphonia reptabunda*

***Vertebrata subulifera* (C. Agardh) Kuntze**

Basionym: *Hutchinsia subulifera* C. Agardh 1827: 638; type locality: Venice, Italy

ITA: 1, 9, 18, 26, 41, 48; 9, 46, 65 as *Polysiphonia pantophloea*
SLO: 126 as *P. subulifera*

***Vertebrata tripinnata* (Harvey) Kuntze**

Basionym: *Griffithsia tripinnata* C. Agardh 1824: 142; type locality: Trieste, Italy

ITA: 1; as 4, 12, 66 *Polysiphonia tripinnata*

***Wrangelia penicillata* (C. Agardh) C. Agardh**

Basionym: *Griffithsia penicillata* C. Agardh 1824: 143; type locality: "Ad oras Italiae"

ITA: 1, 4, 6, 7, 8, 9, 12, 14, 16; 16 as *W. tenera*; 15 as *Griffithsia penicillata*

SLO: 17, 55, 111, 121, 124, 125, 126

***Xiphosiphonia pennata* (C. Agardh) Savoie & G.W. Saunders**

Basionym: *Hutchinsia pennata* C. Agardh 1824: 146; type locality: Mediterranean

ITA: 1; 2, 3, 4, 6, 7, 8, 26, 34, 93 as *Pterosiphonia pennata*; 16 as *Polysiphonia pennata* v. *pumila*;
15 as *Rytiplhaea pumila*

SLO: 110; 11, 117, 120 as *Pterosiphonia pennata*

***Yoneshigaea compta* (Børgesen) Barros-Barreto, Maggs et M.A.Jaramillo**

Børgesen 1924: 28-29; type locality: Beata Island, Dominican Republic

ITA: 1; 7, 93 *Ceramium comptum*

SLO: 24, 126 *Ceramium comptum*

PHAEOPHYCEAE

***Acinetospora crinita* (Carmichael) Sauvageau**

Basionym: *Ectocarpus crinitus* Carmichael 1833: 326; type locality: Appin, Scotland

ITA: 1, 2, 6, 7, 23, 70, 71; 8, 14 as *Ectocarpus crinitus*

SLO: 127

***Arthrocladia villosa* (Hudson) Duby**

Basionym: *Conferva villosa* Hudson 1778: 603 (type locality: Cornwall, England)

ITA: 6, 7, 93; 16, 94 as *Sporochnus verticillatus*

***Asperococcus bullosus* J.V. Lamouroux**

J.V. Lamouroux 1813: 277, pl. 12: fig. 5; type locality: Mediterranean coast of France

ITA: 1, 4, 6, 7, 8, 13, 72

SLO: 126, 127

***Asperococcus ensiformis* (Delle Chiaje) M.J. Wynne**

Basionym: *Laminaria ensiformis* Chiaje 1829: 9, pl. 82; type locality: Napoli, Italy

ITA: 1, 4; 6, 8, 12, 29 as *A. compressus*; 7 as *Haloglossum compressus*

***Cladosiphon zosterae* (J. Agardh) Kylin**

Basionym: *Myriocladia zosterae* J. Agardh 1841: 49; type locality: Codano Gulf

ITA: 1; 7, 8, 14, 23 as *Castagnea zosterae*; 14 as *Mesogloia zosterae*

***Cladostephus hirsutus* (Linnaeus) Boudouresque et M.Perret-Boudouresque ex Heesch et al**

Basionym: *Fucus hirsutus* Linnaeus 1767: 134; type locality: "In Pelago"

ITA: 1, 3 as *C. hirsutus*; 15, 16, 73 as *C. myriophyllum*; 4, 34 as *C. spongiosum*; 3, 5, 6, 7, 8, 14, 29,
31, 33, 35, 58 as *C. verticillatus*

SLO: 17, 111, 121 *C. spongiosum* f. *verticillatum*; 18, 55, 126 as *C. verticillatus*

*****Colpomenia peregrina* Sauvageau**

Sauvageau 1927: 321, figs 1-8; type locality: various in Atlantic Europe

ITA: 1

This is the first record of this alien species in Adriatic Sea. *C. peregrina*, with a sub-cosmopolitan distribution, in the Mediterranean Sea was considered as an introduced species probably through the Straits of Gibraltar (Cormaci et al.

2004).

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

Basionym: *Ulva sinuosa* Mertens ex Roth 1806: 327, pl. XII; type locality: near Cádiz, Spain

ITA: 1, 4, 5, 6, 7, 8, 13, 14, 27, 28, 29, 33

SLO: 121, 126

***Cutleria chilosa* (Falkenberg) P.C. Silva**

Basionym: *Aglaozonia chilosa* Falkenberg 1879: 42; type locality: Naples

ITA: 7, 43, 44 as *C. monoica*

SLO: 126 as *C. monoica*

***Cutleria multifida* (Turner) Greville**

Basionym: *Ulva multifida* J.E. Smith 1808b: pl.1913; type locality: Yarmouth, Norfolk, England

ITA: 1, 2, 4, 6, 7, 8, 23, 93; 2 as *Aglaozonia parvula*; 26 as *Aglaozonia reptans*

SLO: 121, 124, 126

***Cystoseira compressa* (Esper) Gerloff et Nizamuddin**

Basionym: *Fucus compressus* Esper 1799: 152, type locality: Adriatic Sea

ITA: 1, 4, 7, 13, 34; 8, 12, 14, 26, 29, 74, 76 as *C. abrotanifolia*; 76 as *C. abrotanifolia* v. *boryana*; 6, 35, 77 as *C. fimbriata*; 46, 75 as *C. divaricata*

SLO: 17, 55, 98, 111, 112, 113, 122, 124, 130; 131; 18, 126 as *C. fimbriata*; 126 as *C. fimbriata* f. *rosetta*

***Cystoseira crinitophylla* Ercegovic**

Ercegovic 1952: 112, fig. 18; pl. XXI; type locality: Adriatic Sea

ITA: 7, 63, 77

SLO: 111, 126, 131

***Cystoseira foeniculacea* (Linnaeus) Greville f. *latiramosa* (Ercegovic) Gómez Garreta, Barceló, Ribera et Rull Lluçh**

Basionym: *Cystoseira discors* f. *latiramosa* Ercegovic 1952: 113, pl. XXVIII; type locality: Croatia

ITA: 7, 63 as *C. ercegovicii* f. *latiramosa*; 6, 8 as *C. discors* f. *latiramosa*

SLO: 130, 132

***Cystoseira foeniculacea* (Linnaeus) Greville f. *tenuiramosa* (Ercegovic) Gómez Garreta, Barceló, Ribera et Rull Lluçh**

Basionym: *Cystoseira discors* f. *tenuiramosa* Ercegovic 1952: 113, pl. XXVI; type locality: Croatia

ITA: 1; 7, 63 as *C. ercegovicii* f. *tenuiramosa*; 7 as *C. ercegovicii* (misapplied name); 14, 76, 78 as *C. discors* (misapplied name); 6, 8 as *C. discors* f. *tenuiramosa*

****Desmarestia viridis* (O.F. Müller) J.V. Lamouroux**

Basionym: *Fucus viridis* O.F. Müller 1782: 5; type locality: Drøbak, Norway

ITA: 1

Note: This is the first occurrence of this species for the Gulf of Trieste; it was previously reported only in the Venice lagoon (Sfriso and Curiel, 2007)

***Dictyopteris polypodioides* (A.P. De Candolle) J.V. Lamouroux**

Basionym: *Ulva polypodioides* A.P. De Candolle in Lamarck et De Candolle 1805: 15; type locality: not specified

ITA: 1, 4, 13, 14, 16, 29, 34, 71; 5, 6, 7, 8, 23, 27, 28, 31, 33, 35, 74 as *D. membranacea*; 26, 76 as *Haliseris polypodioides*; 94 *Sphacelaria pumila*

SLO: 17, 111, 112, 121; 18, 126 as *D. membranacea*

Dictyota dichotoma* (Hudson) J.V. Lamouroux v. *dichotoma

Basionym: *Ulva dichotoma* Hudson 1762: 476; type locality: Walney Island, Lancashire, England

ITA: 1, 2, 3, 5, 13, 31, 33, 93; 4, 6, 7, 8, 14, 26, 27, 28, 29, 35, 76

SLO: 19, 55, 98, 111, 112, 113, 124, 125, 126

***Dictyota dichotoma* (Hudson) J.V. Lamouroux v. *intricata* (C. Agardh) Greville**

Basionym: *Zonaria dichotoma* (Hudson) C. Agardh v. *intricata* C. Agardh 1820: 134; type locality: Cádiz, Spain
ITA: 1, 4; 6, 7, 8, 26 as *D. dichotoma* v. *implexa*; 12, 14, 35 as *D. implexa*
SLO: 18, 124, 126 as *D. dichotoma* v. *implexa*; 111 as *D. implexa*

***Dictyota fasciola* (Roth) J.V. Lamouroux**

Basionym: *Fucus fasciola* Roth 1797: 146; type locality: not specified
ITA: 1, 12; 6, 7, 8, 27, 28 as *Dilophus fasciola*

***Dictyota implexa* (Desfontaines) J.V.Lamouroux**

Basionym: *Fucus implexus* Desfontaines 1799: 423; type locality: "Habitat in mare mediterraneo"
ITA: 1; 6, 7, 8, 14, 76 as *D. linearis*; 6, 8 as *D. linearis* f. *divaricata*
SLO: 17, 18, 55, 111, 112, 124, 126 as *D. linearis*

***Dictyota spiralis* Montagne**

Montagne 1846: 29-30; syntype localities: near Algiers and near La Calle, Algeria
ITA: 1, 93; 7, 8 as *Dilophus ligulatus*; 6 as *Dilophus spiralis*

***Ectocarpus fasciculatus* Harvey**

Harvey 1841: 40; syntype localities: Mangan's Bay, Co. Waterford, Ireland: Miss Ball; Strangford Lough, Northern Ireland: On *Zostera*: W. Thompson; Torquay: Mrs Griffiths
ITA: 6, 8, 13, 14
SLO: 126

***Ectocarpus siliculosus* (Dillwyn) Lyngbye**

Basionym: *Conferva siliculosa* Dillwyn 1809: 69, suppl. pl. E; syntype localities: Mangan's Bay, Co. Waterford, Ireland: Miss Ball; Strangford Lough, Northern Ireland: On *Zostera*: W. Thompson; Torquay: Mrs Griffiths
ITA: 1, 2, 7, 8, 14, 23, 28, 33, 93, 110; 6, 8, 14, 22 as *E. confervoides* v. *siliculosus*; 9 as *E. gracillimus*; 7, 23, 70 as *E. siliculosus* v. *confervoides*
SLO: 11, 18, 24, 32, 120, 122; 126 as *E. siliculosus* v. *confervoides*

***Ericaria amentacea* (C.Agardh) Molinari et Guiry**

Basionym: *Cystoseira ericoides* var. *amentacea* C.Agardh 1821: 53; type locality: "In mari Mediterraneo"
ITA: 1; 7 *Cystoseira amentacea* var. *stricta*

***Ericaria corniculata* (Turner) Neiva et Serrão**

Basionym: *Fucus ericoides* var. *corniculatus* Turner 1809: 132, 135; syntype localities: Adriatic Sea, Sri Lanka
ITA: 9, 7, 12, 63, 69, 77, 78 as *Cystoseira corniculata*; 76 as *C. ericoides* v. *corniculatus*
SLO: 18, 55, 111, 112, 124, 126, 130, 131 as *C. corniculata*

***Ericaria crinita* (Duby) Molinari et Guiry**

Basionym: *Cystoseira crinita* Duby 1830: 936; type locality: Corsica & French Riviera-Nice (Berov et al. 2015: 70, table 1)
ITA: 6, 7, 8, 13, 14, 26 as *Cystoseira crinita*; 46 as *Cystoseira robusta*
SLO: 130, 131; 17, 55, 111, 124, 126 as *Cystoseira crinita*

***Fucus virsoides* J. Agardh**

J. Agardh 1868: 42; type locality: "in adriatico frequens"
ITA: 1, 4, 5, 6, 7, 8, 13, 14, 22, 26, 28, 29, 31, 33, 34, 35, 60, 78, 79, 80, 81, 82, 118
SLO: 11, 24, 25, 32, 118, 120, 121, 122, 126

Gongolaria barbata* (Stackhouse) Kuntze f. *barbata

Basionym: *Abrotanifolia barbata* Stackhouse 1809: 81; type locality: not specified
ITA: 1; 5, 6, 7, 8, 13, 14, 22, 23, 26, 29, 31, 33, 34, 35, 43, 44, 60, 63, 74 as *Cystoseira barbata*; 75 as *C. barbata* v. *verrucosa*; 76 as *C. granulata* v. *esperi*
SLO: 17, 18, 55, 111, 112, 124, 126, 127, 130, 131

***Gongolaria barbata* (Stackhouse) Kuntze f. *aurantia* (Kützing) Falace, Alongi et Kaleb**

Cystoseira aurantia Kützing 1843: 357; type locality: Gulf of Trieste, Italy
SLO: 128 as *Cystoseira aurantia*
Note: Falace et al. (2024) retained the form 'aurantia' for the free-living form of *G. barbata*

Gongolaria montagnei* (J.Agardh) Kuntze var. *montagnei

Basionym: *Cystoseira montagnei* J.Agardh 1842: 47; Type locality: "Hab. e profundiori mari rejectam ad Cettense mense aprilis frequentem, ad Massiliam rariorem legi; ex Adriatico dedit Biasoletto!"

ITA: 7 as *Cystoseira spinosa*; 6, 7, 8, 26, 28, 35, 63 as *C. adriatica*

SLO: 124, 126 *C. adriatica*; 124, 126 *C. spinosa*

***Gongolaria montagnei* (J.Agardh) Kuntze var. *compressa* (Ercegovic) Verlaque, Blanfuné, Boudouresque et Thibaut**

Basionym: *Cystoseira adriatica* subsp. *compressa* Ercegovic 1952: 107, pl. IX; Type locality: eastern Adriatic Sea

ITA: 7, 63, 77 as *Cystoseira adriatica* v. *compressa*; 7, 63, 77 as *C. adriatica* v. *intermedia*

SLO: 111 as *C. spinosa* var. *compressa*

***Gongolaria sauvageauana* (Hamel) Molinari et Guiry**

Basionym: *Cystoseira sauvageauana* Hamel 1939: 399; syntype localities: France coast Mediterranean, Algeria

ITA: 76 as *Cystoseira ericoides* v. *selaginoides*

SLO: 131; 17, 111, 112 as *C. sauvageauana*

***Halopteris filicina* (Grateloup) Kützing**

Basionym: *Ceramium filicinum* Grateloup 1806: fig. I: type locality: Montpellier, Hérault, France

ITA: 1, 4, 5, 6, 7, 8, 14, 27, 31, 93; 16 as *Sphacelaria disticha*

SLO: 11, 120, 122, 124, 125, 126

***Halopteris scoparia* (Linnaeus) Sauvageau**

Basionym: *Conferva scoparia* Linnaeus 1758: 720; type locality: "in mari Europaeo"

ITA: 1, 2, 6, 7, 8, 13, 14, 27, 31, 35; 3, 4, 33, 34 as *Stypocaulon scoparium*; 15, 16, 46, 69, 83, 94 as *Sphacelaria cervicornis*; 9 as *Sphacelaria scoparia*; 84 as *Sphacelaria scoparia* f. *disticha*, as *Sphacelaria scoparia* f. *pennata*; 16 as *Sphacelaria disticha*, as *Sphacelaria scoparia*, as *Sphacelaria scoparia* v. *pennata*, as *Sphacelaria scoparioides*, as *Sphacelaria scoparioides* v. *composita*; 12 as *Sphacelaria scoparioides*

SLO: 18, 55, 111, 113, 121, 124, 126

***Hincksia granulosa* (J.E. Smith) P.C. Silva**

Basionym: *Conferva granulosa* Smith 1811: pl. 2351; syntype localities: Brixthelmston and Shoreham, Sussex, England

ITA: 1, 2; 7 as *Giffordia granulosa*

***Hincksia sandriana* (Zanardini) P.C. Silva**

Basionym: *Ectocarpus sandrianus* Zanardini 1843: 41; type locality: Zadar, Croatia

ITA: 1, 4, 93, 110; 8, 14, 26 as *Ectocarpus sandrianus*; 6, 7, 21, 23 as *Giffordia sandriana*

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

Basionym: *Encoelium clathratum* C. Agardh 1823: 412 (type locality: Uncertain)

ITA: 1, 4, 30

***Leathesia mucosa* Feldmann**

Feldmann 1935: 365; type locality: Villefranche, Banyuls-sur-mer, France

ITA: 1, 7, 110

SLO: 127

****Myriactula stellulata* (Harvey) Levring**

Basionym: *Conferva stellulata* Harvey 1841: 13; type locality: Torquay

ITA: 1

Note: this is the first occurrence of this species for the Gulf of Trieste; previously in Adriatic Sea it has been only reported in the Venice lagoon (Sfriso and Curiel, 2007)

***Myrionema orbiculare* J. Agardh**

Agardh 1848: 48; type locality: Mediterranean Sea

ITA: 1, 93, 110; 7 as *Ascocyclus orbicularis*

SLO: 126 as *Ascocyclus orbicularis*

***Myriotrichia clavaeformis* Harvey**

Basionym: *Myriotrichia clavaeformis* Harvey 1834: 300, pl. CXXXVIII; type locality: Torquay, England
ITA: 1, 78

***Padina pavonica* (Linnaeus) J.V. Lamouroux**

Basionym: *Fucus pavonicus* Linnaeus, 1753: 1162; type locality: “*In Mari Europae australis*”
ITA: 1, 2, 3, 4, 5, 6, 7, 8, 13, 14, 16, 23, 26, 27, 28, 31, 33, 34, 76; 95 as *Fucus pavonicus*
SLO: 17, 18, 19, 55, 98, 111, 112, 113, 121, 124, 125, 126

Note: according to Ni-Ni-Win et al. (2011) and Pagana et al. (2023), the specimens identified as *P. pavonica* could belong to different species; indeed, five *Padina* species with similar habits have currently been identified in the Mediterranean. A re-examination of the Adriatic specimens of this species would therefore be appropriate to verify the correct assignment to *P. pavonica*. Pending such a review, it would be more appropriate to refer to this species as “*Padina pavonica complex*”.

***Petalonia fascia* (O.F. Müller) Kuntze**

Basionym: *Fucus fascia* O.F. Müller 1778: 7, pl. 768; type locality: near Kristiansand, Norway
ITA: 1, 6, 7, 8, 29; 76 as *Laminaria debilis*

***Pseudoralfsia verrucosa* (Areschoug) Parente, Fletcher et G.W.Saunders**

Basionym: *Cruoria verrucosa* Areschoug 1843: 264; type locality: Bohuslän, Sweden
ITA: 6, 7, 8, 14, 22, 26, 28, 78 as *Ralfsia verrucosa*
SLO: 11, 24, 120, 122 as *R. verrucosa*

***Punctaria tenuissima* (C. Agardh) Greville**

Basionym: *Zonaria tenuissima* C.Agardh 1824: 268; type locality: Kattegat, between Sweden and Denmark
ITA: 1; 7, 12, 23, 76 as *Punctaria latifolia*
SLO: 121 as *Punctaria latifolia*

Note: recent studies by Parente et al. (2010), based on *rbcL* sequence, showed that *P. tenuissima* and *P. latifolia* are conspecific. Athanasiadis (2021) arbitrarily ascribed this species to genus *Desmotrichum*.

***Pylaiella littoralis* (Linnaeus) Kjellman**

Basionym: *Conferva littoralis* Linnaeus 1753: 1165; type locality: “*in Europae marinis rupibus*”
ITA: 1, 6, 7, 8, 14, 23, 70

***Sargassum acinarium* (Linnaeus) Setchell**

Basionym: *Fucus acinarius* Linnaeus 1753: 1160; type locality: Mediterranean Sea
ITA: 6, 7, 98; 8, 76 as *S. linifolium*
SLO: 126

***Sargassum vulgare* C. Agardh**

Agardh 1820: 3; syntype localities: various in the Atlantic Ocean
ITA: 1, 13, 76
SLO: 98, 104

***Scytosiphon dotyi* M.J. Wynne**

Wynne 1969: 34, fig. 9, pl. 18, 19; type locality: Pillar Point, San Mateo Co, California
ITA: 1, 4, 7

Note: this circumboreal alien species has been reported from first time in the Mediterranean Sea in the Gulf of Trieste by Giaccone (1978) and it probably was accidentally introduced by mollusc aquaculture (Cormaci et al. 2004).

***Scytosiphon lomentaria* (Lyngbye) Link**

Basionym: *Chorda lomentaria* Lyngbye 1819: 74, pl. 18E, syntype localities: Faeroes and Bornholm, Denmark
ITA: 1, 4, 6, 7, 8, 27, 33, 34; 76 as *Chorda lomentaria*
SLO: 122, 126; 121 as *S. siplicissimum*; 123 as *Miscospongium gelatinosum*; 123 *Compsomena saxicola*

***Spermatochnus paradoxus* (Roth) Kützing**

Basionym: *Conferva paradoxa* Roth 1806: 33; type locality: Kiels, Heiligenhafen
ITA: 1, 30, 93

***Shpacelaria cirrosa* (Roth) C. Agardh**

Basionym: *Conferva cirrosa* Roth 1800: 214; type locality: Adriatic Sea
ITA: 1, 4, 6, 7, 8, 9, 13, 14, 16, 26, 93, 110; 95 as *Conferva cirrosa*

SLO: 11, 112, 126

***Sphacelaria fusca* (Hudson) S.F. Gray**

Basionym: *Conferva fusca* Hudson 1972: 486; type locality: York, England

ITA: 3

SLO: 110, 117

***Sphacelaria plumula* Zanardini**

Zanardini 1860: 139; syntype localities: Sebenico, Dalmatia

ITA: 1, 2, 3, 4, 6, 7, 8, 93

SLO: 126

***Sphacelaria tribuloides* Meneghini**

Meneghini 1840: (2); type locality: LaSpezia, Italy

ITA: 1, 7

SLO: 18, 124, 126

***Sporochnus pedunculatus* (Hudson) C. Agardh**

Basionym: *Fucus pedunculatus* Hudson 1778: 587; type locality: Portland, England

ITA: 1, 6, 7, 8, 13, 14

SLO: 126

***Stictyosiphon adriaticus* Kützing**

Kützing 1843: 301; type locality: Trieste, Italy

ITA: 1, 2, 96

***Stilophora tenella* (Esper) P.C. Silva**

Basionym: *Fucus tenellus* Esper 1800: 197; type locality: not specified

ITA: 1, 93; 6, 7, 8, 13 as *S. rhizodes*; 12 as *S. adriatica*, as *S. papillosa*; 46, 58 as *S. adriaticus* v. *gracillimus*; 85, 94 as *Spermatochnus adriaticus*

SLO: 125, 126 as *S. rhizodes*

***Striaria attenuata* (Greville) Greville**

Basionym: *Carmichaelia attenuata* Greville 1827: pl. 288; type locality: Isle of Bute, Scotland

ITA: 1, 6, 7, 9, 8, 12, 13, 23, 76; 12 as *S. crinite*

SLO: 126

***Taonia atomaria* (Woodward) J. Agardh**

Basionym: *Ulva atomaria* Woodward 1797: 53; type locality: Yarmouth, Norfolk, England

ITA: 1, 5, 6, 7, 8, 9, 93

***Zanardinia typus* (Nardo) P.C. Silva**

Basionym: *Stiffitia typus* Nardo 1835: 13; type locality: not specified

ITA: 1, 4; 6, 7, 8, 23, 27, 31, 35, 43, 44; 9 as *Spatoglossum spanneri*; 9, 14 as *Z. collaris*

SLO: 17, 18, 55, 111, 112, 121, 124, 126 as *Z. prototypus*

CHLOROPHYTA

***Acetabularia acetabulum* (Linnaeus) P.C. Silva**

Basionym: *Madrepora acetabulum* Linnaeus 1758: 793; syntype localities: “in *O. Europæo, Americano*”

ITA: 1, 4, 5, 6, 7, 13, 33, 34; 8, 14 as *A. mediterranea*

SLO: 17, 19, 111, 112, 121, 125, 126

***Aegagropila brownii* (Dillwyn) Kützing**

Basionym: *Conferva brownii* Dillwyn; type locality: “On Wet Rocks in a Cave near Dunrea, Ireland”

SLO: 86 as *Cladophora aegagropila*

***Anadyomene stellata* (Wulfen) C. Agardh**

Basionym: *Ulva stellata* Wulfen in Jacquin 1787: 351-352; type locality: Adriatic Sea

ITA: 6, 7, 8, 13, 14; 95 as *Ulva stellata*
SLO: 17, 111, 121, 126; 112 as *A. flabellata*

***Blidingia minima* (Nägeli ex Kützing) Kylin**

Basionym: *Enteromorpha minima* Nägeli ex Kützing 1849: 482; type locality: Helgoland, Germany

ITA: 1, 6, 7, 42; 8, 14, 26 as *Enteromorpha minima*
SLO: 25, 32, 110, 117, 120, 122, 126

***Bryopsis corymbosa* J. Agardh**

J. Agardh 1842: 21; type locality: Livorno, Italy

ITA: 1, 4, 6, 7, 8, 110
SLO: 126

***Bryopsis cupressina* J.V. Lamouroux**

Lamouroux 1809: 333; type locality: Mediterranean coast of Africa

ITA: 1, 6, 7; 8, 14 as *B. penicillata*

***Bryopsis feldmannii* Gallardo et G. Furnari**

Gallardo et G. Furnari in Gallardo et al. 1993: 413

ITA: 5 as *Bryopsis cupressoides*

***Bryopsis hypnoides* J.V. Lamouroux**

Lamouroux 1809: 135; type locality: Mediterranean coast of France

ITA: 1, 2, 4, 6, 7, 8, 21, 93
SLO: 120, 122, 126

***Bryopsis pennata* J.V. Lamouroux**

Lamouroux 1809: 333; type locality: Antilles, West Indies

ITA: 3

***Bryopsis plumosa* (Hudson) C. Agardh**

Basionym: *Ulva plumosa* Hudson 1778: 571; type locality: Exmouth, Devon, England

ITA: 1, 3, 4, 7, 27, 33; 12 as *B. rosa* ("*rosae*")
SLO: 11, 120, 122, 126

***Chaetomorpha ligustica* (Kützing) Kützing**

Basionym: *Conferva ligustica* Kützing 1843: 259; type locality: Golfo di Genova, Italy

ITA: 1; 6, 8 as *C. capillaris*; 6, 8 as *Rhizoclonium kernerii*; 7 as *Rhizoclonium kochianum*; 7, 23 as *Rhizoclonium riparium*; 2 as *Rhizoclonium tortuosum*
SLO: 120, 122; 24, 32 as *Rhizoclonium tortuosum*

***Chaetomorpha linum* (O.F. Müller) Kützing**

Basionym: *Conferva linum* Müller 1778: 7; syntype localities: Nakskov and Rødby, Denmark

ITA: 1, 2, 3, 4, 5, 7, 13, 23, 27, 28, 33, 87, 93, 110; 6, 8, 9, 14 as *Chaetomorpha aerea*; 9 as *Chaetomorpha setacea*; 6, 8 as *Chaetomorpha stricta*; 12 as *Conferva crassa*; 95 as *Conferva linum*

SLO: 11, 18, 19, 24, 32, 120, 122, 125, 126, 127

Note: *C. linum* and *C. aerea* have long been problematic (Brodie et al. 2007; Norris 2010). We preferred here consider *C. aerea* and *C. linum* as growth forms of a single species until further morphological and molecular systematic studies will have been done

***Cladophora albida* (Nees) Kützing**

Basionym: *Annulina albida* Nees 1820: index; type locality: Island of Selsey, England

ITA: 6, 7, 8, 14, 23, 87; 46, 88 as *Cladophora chlorithrix*, as *Cladophora tenuis*; 9, 46, 87, 88 as *Cladophora neesiorum*; 15 as *Conferva neesiorum*
SLO: 11, 24, 32, 120, 122, 126, 127

***Cladophora coelothrix* Kützing**

Kützing 1843: 272; type locality: Golfo di Genova, Italy

ITA: 1, 3, 5, 6, 7, 8, 22, 110; 9, 26 as *C. repens*

SLO: 11, 86, 110, 117, 120, 122, 125, 126, 127

***Cladophora dalmatica* Kützing**

Kützing 1843: 268-269; type locality: Split, Croatia

ITA: 1, 2, 3, 4, 5, 6, 7, 8, 93, 110; 46, 88 as *C. lubrica*; 39 as *C. rudolphiana* f. *densior*; 88 as *Cladophora glebifera*, as *Cladophora plumula*, as *Aegagropila subtilis*; 9 as *Conferva conglobata*

SLO: 11, 24, 120, 122, 126

***Cladophora hutchinsiae* (Dillwyn) Kützing**

Basionym: *Conferva hutchinsiae* Dillwyn 1809: pl. 109; type locality: Bantry Bay, Ireland

ITA: 1, 6, 7, 8, 14

***Cladophora laetevirens* (Dillwyn) Kützing**

Basionym: *Conferva laetevirens* Dillwyn 1805: pl. 48; type locality: Swansea, Glamorgan, Wales

ITA: 1, 3, 6, 7, 8, 23, 87, 93; 26 as *C. heteronema*; 87 as *C. meneghiniana*; 46, 88 as *Aegagropila meneghiniana*

SLO: 11, 24, 32, 120, 122, 126

***Cladophora liniformis* Kützing**

Kützing 1849: 405; type locality: Chioggia, Lagoon of Venice, Italy

ITA: 1, 7

SLO: 126, 127

***Cladophora prolifera* (Roth) Kützing**

Basionym: *Conferva prolifera* Roth 1797: 182; type locality: Corsica, France

ITA: 1, 4, 6, 7, 8, 13, 14, 26, 29, 33, 87; 95 as *Conferva prolifera*

SLO: 18, 55, 86, 110, 111, 117, 122, 124, 126

***Cladophora retroflexa* (Bonnemaison ex P.L. Crouan et H.M. Crouan) G. Hamel**

Basionym: *Conferva retroflexa* Bonnemaison ex P.L.Crouan et H.M.Crouan 1867: 127; type locality: Finistere, France

SLO: 86, 126

***Cladophora rupestris* (Linnaeus) Kützing**

Basionym: *Conferva rupestris* Linnaeus 1753: 1167; type locality: "Habitat in Europae marinis rupibus copioissima", Sussex, England

ITA: 1, 4, 6, 7, 8; 95 as *Conferva rupestris*

SLO: 126, 127

***Cladophora sericea* (Hudson) Kützing**

Basionym: *Conferva sericea* Hudson 1762: 485; lectotype locality: Isle of Sheppey, Kent, England

ITA: 1, 6, 7, 8; 87 as *Cladophora nitida*; 9, 26, 39, 87 as *Cladophora rudolphiana*; 12, 15 as *Conferva rudolphiana*

SLO: 126

***Codium bursa* (Linnaeus) C. Agardh**

Basionym: *Alcyonium bursa* Linnaeus 1758: 803; type locality: "in Oceano Europaeo"

ITA: 1, 7, 12, 87

SLO: 19, 89, 111, 121, 124, 126

***Codium coralloides* (Kützing) P.C.Silva**

Basionym: *Codium tomentosum* var. *coralloides* Kützing 1845: 253; type locality: Mediterranean Sea

SLO: 124

***Codium decorticatum* (Woodward) M. Howe**

Basionym: *Ulva decorticata* Woodward 1797: 55-58; type locality: Mediterranean Sea

ITA: 7

SLO: 89, 126

***Codium effusum* (Rafinesque) Delle Chiaje**

Basionym: *Myrsidrum effusum* Rafinesque 1810: 98; type locality: Sicily, Italy

ITA: 7; 12 as *C. adhaerens*

SLO: 17, 89, 111, 121, 126

Note: according to Furnari *et al.* (1999) we think that records of *C. adhaerens* from the Adriatic Sea should be referred to *C. effusum*.

***Codium fragile* (Suringar) Hariot**

Basionym: *Acanthocodium fragile* Suringar 1867: 258; type locality: Japan

ITA: 1, 3, 33; 5, 31 as *C. fragile* subsp. *tomentosoides*

SLO: 111, 116, 129; 17, 89, 114, 115, 121 as *C. fragile* subsp. *tomentosoides*

Note: in the Mediterranean Sea, this alien species has generally been known as *Codium fragile* (Suringar) Hariot subsp. *tomentosoides* (van Goor) P.C. Silva, but according to Brodie *et al.* (2007) subsp. *fragile* and subsp. *tomentosoides* have the same type specimens.

***Codium vermilara* (Olivi) Delle Chiaje**

Basionym: *Lamarckia vermilara* Olivi 1792: 258; syntype localities: Adriatic and Mediterranean seas

ITA: 1, 4, 6, 7, 8, 13, 34; 7, 27, 28 as *C. tomentosum* [I.A.N.]

SLO: 89; 111, 112, 121

***Dasycladus vermicularis* (Scopoli) Krasser**

Basionym: *Spongia vermicularis* Scopoli 1772: 412; type locality: Adriatic Sea

ITA: 1, 6, 7, 13; 8, 14, 23 as *D. clavaeformis*; 16 as *D. cylindricus*

SLO: 18, 111, 121, 126

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

Basionym: *Bryopsis tenuissima* Moris et De Notaris 1839: 259; type locality: Cabrera, Balearic Islands, Spain

ITA: 1, 4, 6, 7, 8, 110

SLO: 126

***Flabellia petiolata* (Turra) Nizamuddin**

Basionym: *Ulva petiolata* Turra 1780: 68; type locality: Adriatic Sea

ITA: 1, 4, 13; 14 as *Udotea desfontainii*; 5, 6, 7, 8, 23, 33 as *Udotea petiolata*

SLO: 17, 111, 112, 121; 18, 55, 124, 126 as *Udotea petiolata*

***Halimeda tuna* (J. Ellis et Solander) J.V. Lamouroux**

Basionym: *Corallina tuna* Ellis et Solander 1786: 111; type locality: Mediterranean Sea

ITA: 1, 4, 5, 6, 7, 8, 13, 23, 33, 34

SLO: 17, 18, 19, 111, 112, 121, 124, 126

***Lychaete echinus* (Biaosoletto) M.J. Wynne**

Basionym: *Conferva echinus* Biaosoletto in Zanardini 1841: 155; type locality: "in portu Verudae", near Pola, Croatia

ITA: 1; 2, 3, 4, 5, 6, 7, 8, 13, 14, 23 as *Cladophora echinus*; 26 as *C. cornea*

SLO: 86, 124, 126, 127 as *Cladophora echinus*

***Lychaete feredayi* (Harvey) M.J. Wynne**

Basionym: *Cladophora feredayi* Harvey 1858: pl. XLVII; syntype localities: Georgetown, Tasmania; Port Phillip, Australia

ITA: 1; 4, 6, 7, 8, 14, 23 as *Cladophora feredayi*

SLO: 86, 126, 127 as *Cladophora feredayi*

***Lychaete pellucida* (Hudson) M.J. Wynne**

Basionym: *Cladophora pellucida* Hudson 1762: 483; type locality: Walney Island, Lancashire, England

ITA: 1; 2, 3, 4, 5, 6, 7, 8, 14, 28 as *Cladophora pellucida*

SLO: 86, 125, 126 as *Cladophora pellucida*; 86 as *C. pseudopellucida*

***Monostroma grevillei* (Thuret) Wittrock**

Basionym: *Enteromorpha grevillei* Thuret 1854: 25; type locality: locality not specified

ITA: 1, 7

***Pseudochlorodesmis furcellata* (Zanardini) Børgesen**

Basionym: *Bryopsis furcellata* Zanardini 1843: 60; type locality: not specified

ITA: 1, 4, 93

***Rhizoclonium riparium* (Roth) Harvey**

Basionym: *Conferva riparia* Roth 1806: 216; type locality: Norderney, East Frisian Islands, Germany

SLO: 110, 117

***Ulothrix flacca* (Dillwyn) Thuret**

Basionym: *Conferva flacca* Dillwyn 1805: pl. 49; type locality: Swansea, Glamorgan, Wales

ITA: 1, 21, 23, 110; 6, 7, 8 as *U. pseudoflacca*

SLO: 11, 24, 25, 125

***Ulothrix implexa* (Kützing) Kützing**

Basionym: *Hormidium implexum* Kützing 1847: 177; type locality: Goes, Zeeland, Netherlands

ITA: 23

SLO: 120, 122

***Ulva australis* Areschoug**

Areschoug 1854: 329-372; type locality: "*In caulibus Caulinia antarcticae parasitica, ad oram Novae Hollandiae australem in sinu Port Adelaide*"

ITA: 1; 2, 4, 34 as *U. laetevirens*; 14, 22, 26, 29, 95 as *U. lactuca*; 95 as *U. latissima*; 15 as *U. latissima* v. *umbilicalis*;

SLO: 11, 24, 120, 122 as *U. laetevirens*

Note: according to Sfriso et al. (2023) *U. australis*, previously reported as *U. laetevirens*, is the most abundant species and it is replacing *U. rigida*, especially in the less eutrophic areas.

***Ulva clathrata* (Roth) C. Agardh**

Basionym: *Conferva clathrata* Roth 1806: 175-178; type locality: Fehmarn, SW Baltic

ITA: 1; 6, 7, 8, 13, 14, 23, 42 as *Enteromorpha clathrata*; 95 as *Conferva crinita* [N.ill.]

SLO: 11, 24, 32, 120, 122; 126, 127 as *Enteromorpha clathrata*; 127 as *Enteromorpha ramulosa*; 24 as *Enteromorpha muscoides*

***Ulva compressa* Linnaeus**

Linnaeus 1753: 1163; type locality: "*Habitat in Europae mari et tectis maritimis*" probably Bognor, Sussex, England

ITA: 1, 4, 6, 8, 22, 23, 26, 28, 33, 42 as *Enteromorpha compressa*; 14, 26 as *Enteromorpha fucicola*

SLO: 11, 25, 32, 120, 122; 24, 126, 127 as *Enteromorpha compressa*

***Ulva flexuosa* Wulfen**

Wulfen 1803: 1; type locality: Duino, near Trieste, Adriatic Sea

ITA: 6, 7, 26, 42, 95; 6, 26 as *Enteromorpha lingulata*

SLO: 24 as *Enteromorpha flexuosa*

***Ulva intestinalis* Linnaeus**

Linnaeus 1753: 1163; type locality: "*in Mari omni*"

ITA: 1; 2, 3, 4, 5, 6, 7, 8, 14, 21, 23, 28, 42 as *Enteromorpha intestinalis*

SLO: 111; 18, 24, 125, 126, 127 as *Enteromorpha intestinalis*

***Ulva linza* Linnaeus**

Linnaeus 1753: 1163; type locality: "*In Oceano*"

ITA: 1, 95; 4, 5, 6, 7, 14, 23, 26, 28, 35, 42 as *Enteromorpha linza*; 15, 95 as *U. lanceolata*

***Ulva polyclada* Kraft**

Kraft 2007: 43, 319, figs 17A-G; type locality: Sylphs Hole, Lord Howe Island, Australia

ITA: 1; 30 as *Enteromorpha multiramosa*

SLO: 127 as *Enteromorpha multiramosa*

***Ulva prolifera* O.F. Müller**

Müller 1778: 7, pl. DCCLXIII fig. 1; type locality: Lolland Island, Nebbelund, Denmark

ITA: 5, 7, 42; 2 as *Enteromorpha prolifera*
SLO: 11, 120, 122; 24, 126 as *Enteromorpha prolifera* subsp. *prolifera*

***Ulva radiata* (J. Agardh) Hayden, Blomster, Maggs, P.C. Silva, M.J. Stanhope et J.R. Waaland**

Basionym: *Enteromorpha radiata* J. Agardh 1883: 156; Type locality: Norwegian Arctic

ITA: 1; 7, 42 as *Enteromorpha prolifera* ssp. *radiata*

***Ulva rigida* C. Agardh**

C. Agardh 1823: 410; type locality: Cádiz, Spain

ITA: 3, 5, 6, 7, 13, 21, 23, 27, 33, 35, 42, 43, 44, 71, 81

SLO: 17, 18, 55, 124, 125, 126, 127; 114 as *Ulva scandinavica*

Note: according to Phillips (1988), the specimens of *Ulva rigida* of the Mediterranean Sea have been assigned to *Ulva laetevirens* (= *U. australis*). According Sfriso (2010) the presence of *U. rigida* in Venice lagoon was established, so this species may be present in adjacent areas, like the Gulf of Trieste

***Ulvella lens* P. et H. Crouan**

P. et H. Crouan 1859: 288; type locality: Brest, France

ITA: 1, 6, 7, 8, 64, 93

SLO: 126, 127

*** *Ulvella scutata* (Reinke) R. Nielsen, C.J. O'Kelly et B. Wysor**

Basionym: *Pringsheimia scutata* Reinke 1888: 241; type locality: Kieler Bucht, Baltic Sea

ITA: 1

Note: this is the first occurrence of this species for the Gulf of Trieste; previously in Adriatic Sea it has been only reported to Venice lagoon (Sfriso and Curiel, 2007)

***Ulvella viridis* (Reinke) R. Nielsen, C.J. O'Kelly et B. Wysor**

Reinke 1879: 476; type locality: Naples, Italy

ITA: 1; 64, 93 as *Entocladia viridis*; 6, 7, 8 as *Endoderma viride*

***Valonia macrophysa* Kützing**

Kützing 1843: 307; type locality: Lussino, Croatia

ITA: 1, 4, 6, 7, 8

SLO: 110, 117, 126

***Valonia utricularis* (Roth) C. Agardh**

Basionym: *Conferva utricularis* Roth 1797: 160; type locality: Mediterranean Sea

ITA: 1, 3, 4, 5, 6, 7, 8, 14, 93, 110; 95 as *Conferva utricularis*

SLO: 17, 55, 111, 112, 124, 126

References

- Athanasiadis A. (2021). *Phycologia Europaea Phaeophyta*. pp. [i]-xxxxvii, [1]-759. Gothenburg: Published and distributed by the author.
- Brodie J., Maggs C.A., John D.M. (2007). *Green seaweeds of Britain and Ireland*. pp. [i-v], vi-xii, 1-242. London: British Phycological Society
- Cecere E., Petrocelli A., Alongi G., Saracino O. D., Cormaci M., Furnari G. (2000). Marine benthic flora of the Gargano promontory (Adriatic Sea, southern Italy). *Flora Mediterranea*, 10: 325-347
- Cormaci M., Furnari G., Alongi G. (2017). Flora marina bentonica del Mediterraneo: Rhodophyta (Rhodymeniophycidae escluse). *Boll. Accad. Gioenia Sci. Nat. Catania*, 380: 1-391
- Cormaci M., Furnari G., Alongi G., Catra M., Serio D. (2000). The benthic algal flora on rocky substrata of the Tremiti Islands (Adriatic Sea). *Plant Biosystems*, 134(2): 133-152.
- Cormaci M., Furnari G., Giaccone G., Serio D. (2004). Alien macrophytes in the Mediterranean Sea: a review. *Recent Research Developments in Environmental Biology*, 1, 153-202.
- Falace A., Bressan G. (2002) Evaluation of the influence of inclination of substrate panels on seasonal changes in a macrophytobenthic community. *ICES J Mar Sci* 59: 116-121

- Falace A., Manfrin C., Furnari G., D'Ambros Burchio S., Pallavicini A., Descourvieres E., Kaleb S., Lokovsek A., Grech D., Alongi G. 2024. Contribution to the knowledge of *Gongolaria barbata* (Sargassaceae, Fucales) from the Mediterranean: insights into infraspecific diversity. *Phytotaxa* 635(3):191-205
- Falace A., Curiel D., Sfriso A. (2009). Study of the macrophyte assemblages and application of phytobenthic indices to assess the ecological status of the Marano-Grado Lagoon (Italy). *Marine Ecology*, 30(4), 480-494
- Furnari G., L'Hardy-Halos M.T., Rueness J., Serio D. (1998). On the conspecificity of *Aglaothamnion tenuissimum* and *A. byssoides* (Ceramiaceae, Rhodophyta). *Taxon*, 47(4), 843-849.
- Furnari G., Cormaci M., Serio D. (1999). Catalogue of the benthic marine macroalgae of the Italian coast of the Adriatic Sea. *Boccone* 214 pp.
- Gómez Garreta, A., Gallardo, T., Ribera, M. A., Cormaci, M., Furnari, G., Giaccone, G., & Boudouresque, C. F. (2001). Checklist of Mediterranean Seaweeds. III. Rhodophyceae Rabenh. 1. Ceramiales Oltm. *Botanica Marina*, 44: 425-460
- Guiry M.D. & Guiry G.M. (2024). *AlgaeBase*. World-wide electronic publication, National University of Ireland, Galway. <https://www.algaebase.org> (searched on 1 march 2024)
- Le Gall L., Saunders G.W. (2010). Establishment of a DNA-barcode library for the Nemaliales (Rhodophyta) from Canada and France uncovers overlooked diversity in the species *Nemalion helminthoides* (Velley) Batters. *Cryptogamie Algologie*, 31(4): 403-421.
- Ni-Ni-Win, Hanyuda, T., Draisma, S.G., Furnari, G., Meinesz, A., & Kawai, H. (2011). *Padina ditristromatica* sp. nov. and *Padina pavonicoides* sp. nov. (Dictyotales, Phaeophyceae), two new species from the Mediterranean Sea based on morphological and molecular markers. *European Journal of Phycology*, 46(4): 327-341.
- J. N. (2010). Marine algae of the northern Gulf of California: Chlorophyta and Phaeophyceae. *Smithsonian contributions to botany*, 289pp
- Pagana I., Nava V., Puglia G.D., Genovese C., Emma G., Salonia C., Cicero N., Alongi G. 2024. *Cystoseira compressa* and *Ericaria mediterranea*: Effective Bioindicators for Heavy- and Semi-Metal Monitoring in Marine Environments with Rocky Substrates. *Plants*, 13: 530
- Parente M.I., Fletcher R.L., Neto A.I., Tittley I., Sousa A.F., Draisma S., Gabriel D. (2010). Life history and morphological studies of *Punctaria tenuissima* (Chordariaceae, Phaeophyceae), a new record for the Azores. *Botanica Marina*, 53 (2010): 223–231
- Phillips, J. A. (1988). Field, anatomical and development studies on southern Australian species of *Ulva* (Ulvaceae, Chlorophyta). *Australian systematic botany*, 1(4): 411-456.
- Rindi F., Sartoni G., Cinelli F. (2002). A floristic account of the benthic marine algae of Tuscany (Western Mediterranean Sea). *Nova Hedwigia*, 74(1-2): 201-250.
- Sfriso, A., & Curiel, D. (2007). Check-list of seaweeds recorded in the last 20 years in Venice lagoon, and a comparison with the previous records. *Botanica Marina* 50: 22–58
- Sfriso, A., Buosi, A., Wolf, M.A., Sfriso, A.A. 2020. Invasion of alien macroalgae in the Venice lagoon, a pest or a resource? *Aquatic Invasions*, 15 (2), 245-270
- Sfriso A., Wolf M.A., Buosi A., Sciuto K., Sfriso A.A.(2023) Alien Macroalgal Rearrangement in the Soft Substrata of the Venice Lagoon (Italy): Impacts, threats, Time and Future Trends. *Sustainability* 2023, 15, 8256.
- Tsiamis K., Taskin E., Orfanidis S., Stavrou P., Argyrou M., Panayotidis P., Tsioli T., Cicek B.A., Marcou M., Küpper F.C. (2014). Checklist of seaweeds of Cyprus (Mediterranean Sea). *Botanica Marina*, 57(3): 153-166
- Wolf M. A., Sciuto K., Maggs C. A., Petrocell, A., Cecere E., Buosi A., Sfriso A. (2021). Merging the cryptic genera *Radicilingua* and *Calonitophyllum* (Delesseriaceae, Rhodophyta): molecular phylogeny and taxonomic revision. *Algae*, 36(3) :165-174.

Table S4. Lost and new macroalgal species with respect to the overall species pool recorded before 1990. Data are also reported separately for the Italian and the Slovenian coasts (see Fig. 1 in the main document). Lost and gained species are provided for Rhodophyta, Chlorophyta and Phaeophyceae, as well as separately for Atlantic and Circumboreal (A/CB), Mediterranean (M), Pantropical and Indo-Pacific (IP/P), and Cosmopolitan (C) species.

	Lost	New	No. before 1990	Lost%	New%	Net change%
Rhodophyta	78	45	252	31%	17%	14%
Chlorophyta	22	10	67	33%	15%	18%
Phaeophyceae	32	8	86	38%	9%	27%
Total						
A/CB	67	29	182	33%	15%	18%
M	36	12	66	55%	18%	37%
IP/P	9	8	33	27%	21%	6%
C	20	14	124	16%	11%	5%

	Lost	New	No. before 1990	Lost%	New%	Net change%
Rhodophyta	57	35	125	46%	27%	19%
Chlorophyta	11	11	43	26%	26%	0%
Phaeophyceae	21	9	45	48%	20%	28%
Slovenia						
A/CB	43	23	85	51%	27%	24%
M	13	11	21	65%	55%	10%
IP/P	12	4	24	50%	13%	37%
C	21	17	83	25%	20%	5%

Lost New No. before 1990 Lost% New% Net change%

	Rhodophyta	84	44	244	34%	18%	16%
	Chlorophyta	26	7	65	40%	11%	29%
	Phaeophyceae	36	8	84	45%	10%	35%
Italy							
	A/CB	70	29	173	40%	17%	23%
	M	39	10	65	63%	16%	47%
	IP/P	11	7	33	33%	21%	12%
	C	24	13	122	20%	11%	9%