

Checklist of Phaeophyta (Brown Algae)

in Amgueddfa Cymru-National Museum Wales (NMW)

All specimens in the herbarium as at **November 2010**, excluding the recently acquired Eifion Jones Margaret Martin herbaria.

Nomenclature follows Hardy, F.G. & Guiry, M.D., 2003. *A check-list and atlas of the seaweeds of Britain and Ireland*. London: British Phycological Society.

Countries are recorded as they appear on the specimen label.

indicates specimens collected from outside the UK only.

Synonyms appear in italics.

Acinetospora crinita (Carm.) Kornm. (syn. Acinetospora pusilla Born.; A. pusilla Born. var. crinita)
Acrothrix gracilis Kyhm.
Alaria esculenta (L.) Grev.
Arthrocladia villosa (Huds.) Duby
Ascophyllum nodosum (L.) Le Jol.
Asperococcus compressus Griff.
Asperococcus fistulosus (Huds.) W.J.Hooker
Asperococcus fistulosus f. vermicularis (Griff. ex Harv.) Levring (syn. Asperococcus fistulosus var. vermicularis Griff.)
Asperococcus fistulosus var. vermicularis Griff. [SEE Asperococcus fistulosus f. vermicularis (Griff. ex Harv.) Levring]
Asperococcus turneri (Sm.) Hook. [SEE Asperococcus bulbosus J.V.Lamouroux]
Bifurcaria bifurcata Ross (syn. B. tuberculata (Huds.) Stackh.)
Botryella micromora Bory de Saint-Vincent (syn. Sorocarpus uvaeformis (Lynbye) Pringsheim)
Botrytella reinboldii (Reinke) Kornm. & Sahling (syn. Polytretus reinboldii (Reinks) Sauv.; Ectocarpus reinboldii Rke.) [not recognised in Hardy & Guiry (2003), but accepted on Algaebase]
Buffhamia speciosa Batt.
Carpomitra costata (Stackh.) Batt.
Chilionema hispanicum (Sauv.) R.L.Fletcher (syn. Ascocyclus hispanicus Sauv.; Hecatonema hispanicum (Sauv.) Lois.)
Chilionema ocellatum (Kutz.) Kornm. (syn. C. ocellatum (Kutz.) Sauv. C. nathaliae Sauv.; Ectocarpus reptans Rhe.) [this entity may be a phase in the life history of Asperococcus]
Chordaria flagelliformis C.Ag.
Chorda filum (L.) Stackh.
Chorda tomentosa Lyngb. [SEE Halosiphon tomentosus (Lyngb.) Jaasund]
Cladosiphon contortus (Thur.) Kylin (syn. Castagnea contorta Thur.)
Cladosiphon zosterae (J.Ag.) Kylin (syn. Castagnea zosterae (J.Ag.) Thur.)
Cladostephus spongiosus J.Ag.
Cladostephus spongiosus f. verticillatus (Lightf.) Lyngbye (syn. Cladostephus verticillatus J.Ag.)
Cladostephus verticillatus (Lightfoot) Lyngbye [SEE Cladostephus spongiosus f. verticillatus (Lightf.) Prud'homme van Reine]
Colpomenia peregrina (Sauv.) Hamel (syn. C. sinuosa Derks. ex. Sol.)
Componema microspongium (Batt.) Kornm. (syn. Ectocarpus microsporangium Batt.)
Corynophlaea crispa (Harv.) Kuck. (syn. Leathesia crispa Harv.)
Cutleria multifida (J.E.Sm.) Grev.
Cylindrocarpus berkeleyi (Grev. in Berk.) Crouan frat. [SEE Petrospongium berkeleyi (Grev.) Nägeli ex Kütz.]
Cylindrocarpus microscopicus Crouan frat. (syn. Ectocarpus microscopicus Batt.)
Cystophyllum trinode (Forsk.) Ag. [SEE Cystoseira trinodis (Forsskål) C.Agardh]
Cystoseira abrotanifolia (L.) C.Ag. [SEE Cystoseira foeniculacea (L.) Grev.]
Cystoseira baccata (Gmel.) Silva. (syn. C. fibrosa J.Ag.)

Cystoseira foeniculacea (L.) Grev. (syn. *C. abrotanifolia* (L.) C.Ag.)
Cystoseira nodicaulis (With.) Roberts (syn. *C. granulata* Ag.)
Cystoseira tamariscifolia (Huds.) Papenf. (syn. *C. ericoides* J.Ag.)
Demarestia aculeata (L.) Lamour.
Demarestia ligulata (Lightf.) Lamour
Demarestia viridis (O.F.Mull.) Lamour
Desmotrichum undulatum (f.Ag.) Reinks [SEE *Punctaria tenuissima* (C.Ag.) Grev.]
Dichosporangium chordariae Wollny. (syn. *Streblonema chordariae* A.D.Cotton nom.illeg.)
Dictyopteris membranacea Batt. [SEE *Dictyopteris polypodioides* (De Cand.) Lamour.]
Dictyopteris polypodioides (De Cand.) Lamour. (syn. *D. membranacea* (Stackh.) Batt.; *Haliseris polypodioides* Ag.)
Dictyosiphon chordarius Aresch. (syn. *D. mesogloia* Aresch.; *Gobia baltica* Reinke)
Dictyosiphon foeniculaceus (Hudson) Grev. (syn. *D. hippuroides* Kutz.; *D. foeniculaceus* var. *hispidus* Kjellm.)
Dictyosiphon foeniculaceus var. *hispidus* Kjellm. [SEE *Dictyosiphon foeniculaceus* (Hudson) Greville]
Dictyota ciliata Batt. [taxon with this authority not found]
Dictyota dichotoma (Huds.) Lamour.
Dictyota dichotoma var. *implexa* J.Ag. [SEE *Dictyota dichotoma* var. *intricata* (C.Ag.) Grev.]
Dictyota dichotoma var. *intricata* (C.Ag.) Grev. (syn. *Dictyota dichotoma* var. *implexa* J.Ag.)
Dictyota dichotoma var. *latifrons* Holm. & Batt. [taxon with this authority not found]
Dictyota spiralis Mont. (syn. *Dictyota ligulata* Kutz.; *Dilophus spiralis* (Mont.) Hamel)
Dilophus spiralis (Mont.) Hamel [SEE *Dictyota spiralis* Mont.]
Ectocarpus confervoides Le Jol. [SEE *Ectocarpus siliculosus* (Dillwyn) Lyngbye]
Ectocarpus crinitus Carm. [SEE *Acinetospora crinita* (Carm.) Kornm.]
Ectocarpus fasciculatus Harv. (syn. *E. distortus* Carm.; *E. landsburgii* Harv.)
Ectocarpus littoralis Ag. [SEE *Pylaiella littoralis* (L.) Lyngb.]
Ectocarpus siliculosus (Dillwyn) Lyngbye (syn. *E. cruouani* Thur.; *E. dasycarpus* Kuck.; *E. confervoides* Le Jol.; *E. confervoides* var. *hiemalis* Kuck; *E. penicillatus* (C.Ag.) Kjell.)
Elachista flaccida (Dillwyn) Fries (syn. *E. flaccida* (Dillwyn) Aresch.)
Elachista fucicola (Vellej) Aresch. (syn. *E. fucicola* Fries. *E. fucicola* Fries.)
Elachista scutulata (Sm.) Duby (syn. *E. scutulata* (Sm.) Aresch.)
Elachista stellaris Aresch. (syn. of *Symphoriococcus stellaris* (Aresch.) Kuck.
Eudesme virescens (Carm. ex. Berkeley) J.Ag. (syn. *Castagnea virescens* (Carm.ex. Berkeley) Thur.)
Feldmannia globifera (Kutz.) Hamel. [SEE *F. paradoxa* (Mont.) Hamel]
Feldmannia irregularis (Kutz.) Hamel (syn. *Ectocarpus irregularis* Kutz.)
Feldmannia lebelii (Aresch. ex. Crouan frat.) Hamel. (syn. *Ectocarpus lebelii* Crn.; *E. fenestratus* Harv.)
Feldmannia padinae (Buffh.) Hamel. (syn. *Ectocarpus padinae* Sauv.; *Giffordia padinae* Buffh.)
Feldmannia paradoxa (Mont.) Hamel (syn. *Ectocarpus globifera* Kutz.; *E. insignis*; *Feldmannia globifera* (Kutz.) Hamel.)
Feldmannia simplex (Crouan frat.) Hamel. (syn. *Ectocarpus simplex* Crouan.)
Turner) Mont. ex Harv.]
Fucus ceranoides L.
Fucus distichus L. (syn. *F. inflatus* Vahl.; *F. ceranoidea* var. *linearis* Batt.; syn. *F. anceps* Harv. & Ward.;
Fucus distichus ssp. *anceps* (Harv. & Ward) Powell)
Fucus distichus ssp. *anceps* (Harv. & Ward) Powell [SEE *Fucus distichus* L.]
Fucus serratus L.
Fucus spiralis L.
Fucus vesiculosus L.
Giffordia fenestrata (Berk. ex Harv.) Batt. [SEE *Hincksia fenestrata* (Harv.) Silva]
Giffordia granulosa (Sm.) Hamel. [SEE *Hincksia granulosa* (Sm.) Silva]
Giffordia hincksiae (Harv.) Hamel. [SEE *Hincksia hincksiae* (Harv.) Silva]
Giffordia mitchellaie (Harv.) Hamel. [SEE *Hincksia mitchellaie* (Harv.) Silva]
Giffordia ovata (Kjellm.) Kylin [SEE *Hincksia ovata* (Kjell.) Silva]
Giffordia sandriana (Zanard) Hamel. [SEE *Hincksia sandriana* (Zanard) Silva]
Giffordia secunda (Kutz.) Batt. [SEE *Hincksia secunda* (Kutz.) Silva]
Halidrys siliquosa (L.) Lyngb.
Halimeda tuna (J.Ellis & Solander) J.V.Lamouroux
Halopteris filicina Kutz.
Halopteris scoparia Waern. [SEE *Stypocaulon scoparium* Kutz.]
Halosiphon tomentosus (Lyngb.) Jaasund (syn. *Chorda tomentosa* Lyngb.)
Haplospora globosa Kjellm.
Hecatonema foecundum (Stromf.) Lois [SEE *Phycocelis foecunda* Strömfelt]

Hecatonema hispanicum (Sauv.) Lois (syn. *Ascocyclus hispanicus* Sauv.) [SEE *Chilionema hispanicum* (Sauv.) R.L.Fletcher]
Hecatonema reptans Sauv. [SEE *Phycocelis crouaniorum* Athanasiadis]
Himanthalia elongata (L.) S.F. Gray (syn. *Himanthalia lorea* (L.) Lyngb.)
Hincksia fenestrata (Harv.) Silva (syn. *Ectocarpus fenestratus* Berk.; *Giffordia fenestrata* (Berk. ex Harv.) Batt.)
Hincksia granulosa (Sm.) Silva (syn. *Ectocarpus granulatus* Ag.; *Giffordia granulosa* (Sm.) Hamel.)
Hincksia hincksiae (Harv.) Silva (syn. *Ectocarpus hincksiae* Harv.; *Giffordia hincksiae* (Harv.) Hamel.)
Hincksia mitchellaiae (Harv.) Silva (syn. *Ectocarpus mitchellae* Harv.; *Giffordia mitchellaiae* (Harv.) Hamel.)
Hincksia ovata (Kjell.) Silva (syn. *Ectocarpus ovatus* var. *arachnoideus* Rke.; *Giffordia ovata* (Kjellm.) Kylin)
Hincksia sandriana (Zanard) Silva (syn. *Ectocarpus sandrianus* Zan.; *Giffordia sandriana* (Zanard) Hamel.)
Hincksia secunda (Kutz.) Silva (syn. *Ectocarpus secundus* Kutz.; *Giffordia secunda* (Kutz.) Batt.)
Isthmoplea sphaerophora (Carm. ex Harv.) Kjellm.
Kjellmania sorifera Reinke [SEE *Stictyosiphon soriferus* (Reinke) Rosenvinge]
Kuetzingiella battersii (Born. ex Sauv.) Kornm. (syn. *Ectocarpus battersii* Born. ex Sauv.)
Kuetzingiella holmesii (Batt.) Kornm. (syn. *Ectocarpus holmesii* Batt.; *Kuetzingiella holmesii* (Batt.) Russell)
Laminaria digitata (Huds.) Lamour
Laminaria hyperborea (Gunn.) Fosl. (syn. *L. cloustoni* Edm.)
Laminariocolax aecidioides (Rosenvinge) Burkhardt & Peters (syn. *Myrionema aecidioides* Sauv.; *Streblonema aecidioides* Rosenv.)
Laminariocolax tomentosoides (Farlow) Kylin (syn. *Ectocarpus tomentosoides* Farlow)
Leathesia difformis (L.) Aresch.
Leblondiella densa (Batt.) Hamel. (syn. *Myriotrichia densa* Batt.)
Liebmannia leveillei J.Ag. (syn. *Mesogloia leveillei* (J.Ag.) Menegh.)
Litosiphon filiformis (Reinke) Batt. [SEE *Pogotrichum filiforme* Reinke]
Litosiphon laminariae (Lyngbye) Harv. (syn. *Litosiphon pusillus* (Carm. ex W.J.Hooker) Harv.)
Litosiphon plana ft.
Litosiphon pusillus (Carm. ex W.J.Hooker) Harv. [SEE *Litosiphon laminariae* (Lyngbye) Harv.]
Mesogloia lanosa Crouan. frat.
Mesogloia leveillei Menegh. [SEE *Liebmannia leveillei* J.Ag.]
Mesogloia vermiculata (J.E.Sm.) S.F.Gray (syn. *Mesogloia vermiculata* Le Jol.)
Microcoryne ocellata Stromf.
Myriactula areschougii (Crouan frat.) Hamel (syn. *Myriactis areschougii* (Crouan. frat.) Batt.)
Myriactula rivulariae (Suhr) Feldm. (syn. *M. pulvinata* Kutz.)
Myriocladia loveni J.Ag.
Myriocladia tomentosa Crouan. frat.
Myrionema aecidioides Sauv. (syn. *Streblonema aecidioides* Rosenv.) [SEE *Laminariocolax aecidioides* (Rosenvinge) Burkhardt & Peters]
Myrionema coronnae Sauv.
Myrionema leclancherii Harv. (syn. *Ascocyclus leclancherii* Magn.) [SEE *M. strangulans* Grev.]
Myrionema magnusii (Sauv.) Lois
Myrionema orbiculare J.Ag. (syn. *Ascocyclus orbicularis* Magn.)
Myrionema papillosum Sauv.
Myrionema reptans Fosie
Myrionema strangulans Grev. (syn. *Myrionema strangulans* var. *punctiforme* (Harvey) Lily Newton.; *M. leclancherii* Harv.)
Myrionema strangulans Grev. var. *punctiforme* Holm. & Batt. [SEE *Myrionema strangulans* Grev. although not the recognised authority for this taxon]
Myriotrichia clavaeformis Harv. (syn. *Streblonema sphaericum* Thur.)
Myriotrichia filiformis Harv. [SEE *Myriotrichia clavaeformis* Harv.]
Myriotrichia repens Hauck. [SEE *Myriotrichia clavaeformis* Harv.]
Padina pavonia Gaillon [SEE *Padina pavonica* (L.) Thevy]
Padina pavonica (L.) Thevy (syn. *Padina pavonia* Gaillon)
Pelvetia canaliculata (L.) Deca & Thur.
Petalonia fascia (O.F.Mull.) O.Kuntze (syn. *Phyllitis fascia* Kutz.)
Petalonia zosterifolia (Reinke) Kuntze (syn. *Phyllitis zosterifolia* Reinke.)
Petrospongium berkeleyi (Greville) Nägeli ex Kützing (syn. *Cylindrocarpus berkeleyi* (Grev. in Berk.) Crouan frat.)
Phaestroma pustulosum Kuck. (syn. *Streblonema aequale* Oltm.)
Phycocelis crouaniorum Athanasiadis (syn. *Hecatonema reptans* Sauv.)

Phycocelis foecunda Strömfelt (syn. Hecatonema foecundum (Stromf.) Lois; Ascocyclus foecundus Cotton)
 Pilinia rimosa Kutz. (syn. Leptonema lucifugum Kuck.; Waerniella lucifuga (Kuck.) Kylin)
 Pogotrichum filiforme Reinke (syn. Litosiphon filiformis (Reinke) Batt.)
Polytretus reinboldii (Reinks) Sauv. [SEE *Botrytella reinboldii* (Reinke) Kornmann & Sahling]
 Protectocarpus speciosus (Borg.) Kuck (syn. Hecatonema speciosum Cott.)
 Punctaria crispata (Kutz.) Batt.
 Punctaria latifolia Grev. (syn. *P. plantaginea* Grev. var. *crouani* Thur.)
Punctaria latifolia Grev. var. *laminarioides* Holm. & Batt. [uncertain status]
 Punctaria plantaginea Grev.
Punctaria plantaginea Grev. var. *crouani* Thur. [SEE *P. latifolia* Grev.]
Punctaria plantaginea Grev. var. *rubescens* Batt. [uncertain status]
 Punctaria tenuissima Grev. (syn. *Desmotrichum undulatum* (f.Ag.) Reinks; *P. baltica* Batt.)
 Pylaiella littoralis (L.) Kjellm. (syn. *Ectocarpus littoralis* Ag.; *P. littoralis* var. *longifructus* Batt. *P. littoralis* var. *opposita* Kjellm.)
Pylaiella littoralis var. *curta*
Pylaiella littoralis var. *longifructus* Batt. [SEE *Pylaiella littoralis* Kjellm.]
Pylaiella littoralis var. *opposita* Kjellm. [SEE *Pylaiella littoralis* Kjellm.]
 Saccorhiza polyschides (Lightf.) Batt. (syn. *Saccorhiza bulbosa*)
 Sauvageaugloia griffithsiana (Grev. ex Harv.) Hamel ex Kylin (syn. *Mesogloia griffithsiana* Griff.)
 Scytosiphon lomentaria (Lyngb.) Link
 Sorapion simulans Kuck (syn. Lithoderma simulans (Kuck.) Batt.)
Sorocarpus uvaeformis (Lynbye) Pringsheim [SEE *Botrytella micromora* Bory de Saint-Vincent]
 Spermatochnus paradoxus (Roth.) Kutz.
 Sphaerotrichia divaricata (C.Ag.) Kylin (syn. *Chordaria divaricata* C.Ag.)
Sphacelaria britannica Sauv. [SEE *Sphacelaria nana* Nageli ex Kutz.]
 Sphacelaria caespitula Lyngbye
 Sphacelaria cirrosa (Roth.) C.Ag. (syn. *S. cirrosa* var. *patentissima* Greville)
Sphacelaria cirrosa var. *patens*
Sphacelaria cirrosa var. *patentissima* [SEE *Sphacelaria cirrosa* (Roth.) C.Agardh]
 Sphacelaria fusca (Huds.) C.Ag.
 Sphacelaria nana (syn. *Sphacelaria britannica* Sauv; *Sphacelaria olivacea* Prinsk.)
 Spongonema tomentosum (Huds.) Kutz. (syn. *Ectocarpus luteolus* Sauv.; *E. terminalis* Kutz.; *E. tomentosus* (Huds.) Lyngbye)
 Sporochnus pedunculatus (Huds.) C.Ag.
 Stictyosiphon adriaticus Kutz.
 Stictyosiphon griffithsianus (Le Jol.) Holm et Batt. (syn. *Phloeospora brachiata* Born.)
 Stictyosiphon soriferus (Reinke) Rosenvinge (syn. *Kjellmania sorifera* Reinke)
 Stictyosiphon tortilis (Ruprecht) Rke. (syn. *Stictyosiphon subarticulatus* Hanck.)
Stilophora rhizoides J.Ag [SEE *S. tenella* (Esper) Silva.]
Stilophora tenella (Esper) Silva. (syn. *S. rhizoides* J.Ag.)
Stilophora tuberculosa (Hornemann) Reike. [not accepted as occurring in the area, syn. of *S. nodulosa* (C.Ag.) Silva.]
 Stilopsis lejolisii (Thur.) Kuck. & Nienberg (syn. *Spermatochnus lejolisii* (Thur.) Reinke.)
Streblonema aequale Oltm. [SEE *Phaestroma pustulosum* Kuck.]
 Streblonema breve (Sauv.) De Toni (syn. *Ectocarpus brevis* Sauv.)
 Streblonema fasciculatum Thur.
Streblonema globosa
Streblonema sphaericum Thur. [SEE *Myriotrichia clavaeformis* Harvey]
 Streblonema tenuissimum Hauck.
 Streblonema zanardinii (Crouan frat.) De Toni. (syn. *Streblonema zanardinii* Batt.)
 Striaria attenuata (C.Ag.) Grev. (syn. *S. attenuata* var. *crinita* J.Ag.)
Striaria attenuata Grev. var. *crinita* J.Ag. [SEE *S. attenuata* (C.Ag.) Grev.]
 Stypocaulon scoparium Kutz. (syn. *Halopteris scoparia* Waern.)
 Taonia atomaria J.G.Agardh. (syn. *Taonia atomaria* J.G.Agardh. var. *divaricata* Holm. & Batt.)
Taonia atomaria var. *divaricata* Holm. & Batt. [SEE *Taonia atomaria* J.G.Agardh.]
 Tilopteris mertensii (Turner) Kutz.
 Ulonema rhizophorum Foslie
Waerniella lucifuga (Kuck.) Kylin [SEE *Pilinia rimosa* Kutz.]
Zanardinia prototypus (Nardo) Nardo [SEE *Z. typus* (Nardo) G.Furnari]
Zanardinia typus (Nardo) G.Furnari (syn. *Z. collaris* Crn.; *Z. prototypus* (Nardo) Nardo)

Taxa only represented overseas

Costaria costata (C.Ag.) Saunders (locality : Marysville, Washington, USA)
Cystophora monilifera J.Ag. (locality : Prov. Philippe, Australia)
Cystoseira abies-marina (S.G.Gmelin) C.Ag. (locality : Tenerife, Canary Isles)
Cystoseira osmundacea (Turner) C.Agardh (syn. Halidrys osmundacea Harv.) (locality:California, USA)
Cystoseira trinodis (Forsskål) C.Agardh (syn. Cystophyllum trinode (Forsk.) Ag.)
Dictyoneurum californicum Ruprecht (locality : California, USA)
Ecklonia radiata (C.Ag.) J.Ag. (locality : Bay of Island, New Zealand)
Ectocarpus tessellatus
Egregia menziesii (Turn.) Aresch. (locality : California, USA)
Fucodium chondrophyllum (R.Brown ex Turner) J.Ag. [SEE *Xiphophora chondrophylla* (R.Brown ex
Fucus virsoides J.Ag.
Halidrys osmundacea Harv. [SEE *Cystoseira osmundacea* (Turner) C.Agardh]
Halimeda opuntia (L.) Lamour. (locality : Singapore)
Hypnea valentiae (Turn.) Mont.
Landsburgia quercifolia Hook. & Harv. (locality : New Zealand)
Lobospira bicuspidata Aresch. (locality : Austria)
Macrocystis integrifolia Bory. [SEE *M. pyrifera* (Linnaeus) C.Agardh]
Macrocystis pyrifera (Linnaeus) C.Ag. (locality : California, USA) (syn. M. integrifolia Bory.)
Pylaiella littoralis var. varia (Kjell.) Kuck. [SEE *Pylaiella varia* Kjellm.]
Pylaiella varia Kjell. (syn. P. littoralis var. varia (Kjell.) Kuck.)
Sargassum bacciferum Ag. [SEE *S. natans* (L.) Gaillon]
Sargassum duplicatum J.Ag. [SEE *S. ilicifolium* (Turner) C.Agardh]
Sargassum ilicifolium (Turner) C.Agardh (syn. S. duplicatum J.Ag.)
Sargassum muticum (Yendo) Fensholt (locality : Java)
Sargassum natans (L.) Gaillon (syn. S. bacciferum Ag.) unknown locality, collected 1846
Sargassum vulgare Ag. (locality : Trinidad)
Scytosiphon complanatus (Rosenvinge) Doty (locality : California, USA) (syn. S. lomentaria var.
Scytosiphon lomentaria var. *complanatus* Rosenvinge [SEE *S. complanatus* (Rosenvinge) Doty]
Stypornulosa paniculatum (locality : New Zealand) (syn. Hypocaulon paniculatum)
Xiphophora chondrophylla (R.Brown ex Turner) Mont. ex Harv. (syn. *Fucodium chondrophyllum*