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Report

A List of the Valid Species Names of Algae Described by Carl Linnaeus (1707-1778), under ICN (2012)

Masahiko Miyata

Department of Ecology and Environment, Natural History Museum and Institute, Chiba
955-2 Aobacho, Chiba city, Chiba 260-8682, Japan
E-mail: miyata@chiba-muse.or.jp

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This small report indicates a list of 98 valid taxons (94 species and 4 varieties) for algae which described by Carl Linnaeus (1707-1778) under International Code of Botanical Nomenclature (Vienna Code) (McNeill et al., 2006) and International Code of Nomenclature for algae, fungi and plants (Melbourne Code) (McNeill et al., 2012), with special reference to the Phycology (Table 1).

Carl Linnaeus introduced binominal description for plants in *Species Plantarum* (Linnaeus, 1753a;1753b) (Fig. 1), which contained accounts of some 5, 900 species and varieties, and extended it to animals in the 10th edition of *Systema Naturae* (Linnaeus, 1758; 1759) (Fig. 1). Although the first International Rules of Botanical Nomenclature (Briquet, 1906) established the names devised by Linnaeus for genre and species as the starting point, it was some years before agreement was reached that the application of names was to be governed by the use of "types". A type is a pressed and dried herbarium specimen, and its taxonomic identity governs the way in which the name to which it is attached is to be used. In this way, the "type method" provides a permanent, fixed reference point against which the correct identity of any name can be checked, and if two names are found to apply to the same species, the earlier of them becomes the correct name to be used. If not established at the time of publication of a new name, type specimens become fixed only via subsequent publication of a formal typification. One of the difficulties involved in interpreting these names is that Linnaeus did not work according to this type method. Types can be designated in a wide range of different sorts of publication, however, information on Linnaean type specimens has been widely scattered. The Linnaean Plant Name Typification Project start in 1981 to catalogue and establish the correct application of plant names first published by Linnaeus, through a study of the preserved specimens and illustration that Linnaeus had used (Jarvis, 2007) (http://www.nhm.ac.uk/our-science/data /linnaean-typification/#sthash.0tBo5Noo.dpuf). The modern Code (McNeill *et al.*, 2006; 2012) requires that, to be validly published, the name of a new species must now be accompanied by the nomination of a type specimen (or an illustration in some groups).

Linnaeus only rarely provided an explicit reference to any herbarium material when naming a plant species. Instead, in publishing a new name, he usually provide some diagnostic characters, one or more references to earlier illustrated or unillustrated publications, an indication of provenance, and sometimes the name of the source of either material of, or information about, the species in question. In addition, there are a large number of specimens in Linnaeus' own herbarium at the Linnean Society of London, and elsewhere which, although he did not cite them, undoubtedly contributed significantly to his concepts of the species he described. It follows that the application of Linnean names is very rarely fixed by what is now termed a holotype (i.e. a single herbarium specimen or

illustration, explicitly indicated by its author).

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McNeill, J., F.R. Barrie, W.R. Buck, V. Demoulin, W. Greuter, D.L. Hawksworth, P.S. Herendeen, S. Knapp, K. Marhold, J. Prado, W.F. Prud'homme van Reine, G.F. Smith, J.H. Wiersema and N. Turland (eds. & comps.). 2012. International Code of Nomenclature for algae, fungi, and plants (Melbourne Code), adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011. pp. 240. Koeltz Scientific Books, Königstein.

国際藻類・菌類・植物命名規約（2012）に従って有効性が認められた，カール・リンネ Carl Linnaeus（1707-1778）が原記載した藻類の種名リスト.

宮田昌彦

千葉県立中央博物館・生態学環境研究科
〒260-8680 千葉県千葉市中央区青葉町955-2
E-mail: miyata@chiba-muse.or.jp

カール・リンネCarl Linnaeus（1707-1778）は，「植物の種 Species Plantarum（1753a,1753b）」，「自然の体系 第10版 *Systema Naturae* 10th edition（1758, 1759）」，「自然の体系 第12版 Systema Natureae 12th edition（1767）」，「Mantissa Plantarum（1771）」，「Systema Vegetabilium（1774）」の中で藻類を２名法で記載した．それは分類学的な種名の

起源とされ，乾燥標本は模式標本と同等のものとされてきた．しかし，その記載の方法が現行の模式法に準拠したものではなかったため，国際植物命名規約に従い，種名と模式標本の再検討（The Linnaean Plant Name Typification Project.）が1981年からおこなわれた（Jarvis, 2007）．国際藻類・菌類・植物命名規約（ICN）（2012）に基づいて，カール・リンネが原記載した藻類（Chara, Conferva, Fucus, Ulva）のうち有効な98分類群からなる種名リストを作成した．

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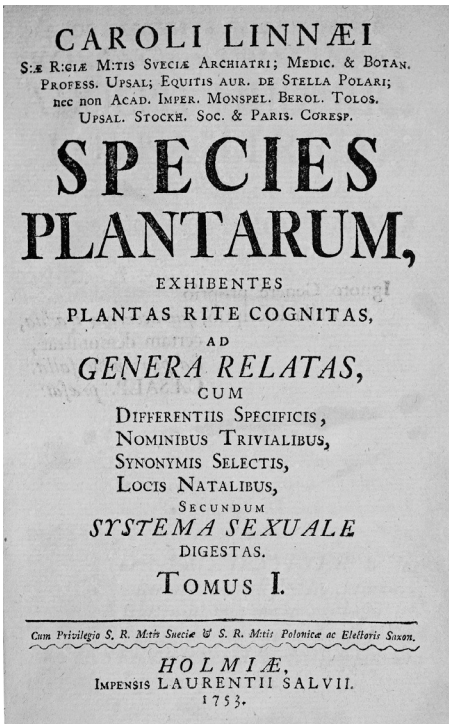


CAROLI LINNÆI
S:Æ R:GIÆ M:TIS SVECIÆ ARCHIATRI; MEDIC. & BOTAN.
PROFESS. UPSAL; EQUITIS AUR. DE STELLA POLARI;
nec non ACAD. IMPER. MONSPEL. BEROL. TOLOS.
UPSAL. STOCKH. SOC. & PARIS. CORESP.

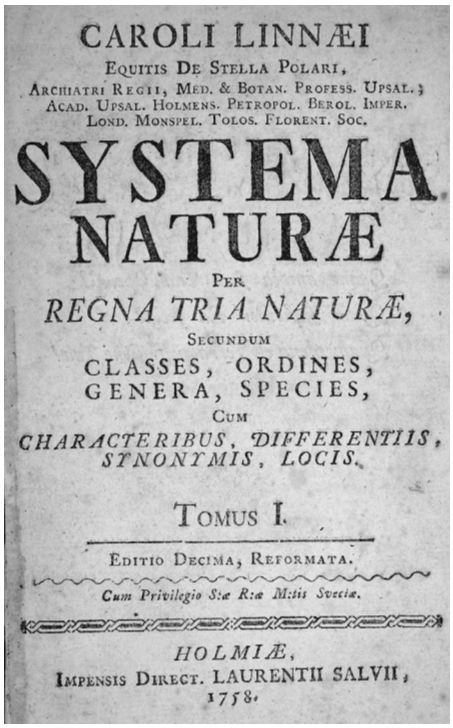
SPECIES
PLANTARUM,

EXHIBENTES
PLANTAS RITE COGNITAS,
AD
GENERA RELATAS,
CUM
DIFFERENTIIS SPECIFICIS,
NOMINIBUS TRIVIALIBUS,
SYNONYMIS SELECTIS,
LOCIS NATALIBUS,
SECUNDUM
SYSTEMA SEXUALE
DIGESTAS.

TOMUS I.

Cum Privilegio S. R. M:tis Sueciæ & S. R. M:tis Poloniæ ac Electoris Saxon.

HOLMIÆ,
IMPENSIS LAURENTII SALVII.
1753.



CAROLI LINNÆI
EQUITIS DE STELLA POLARI,
ARCHIATRI REGII, MED. & BOTAN. PROFESS. UPSAL.;
ACAD. UPSAL. HOLMENS. PETROPOL. BEROL. IMPER.
LOND. MONSPEL. TOLOS. FLORENT. SOC.

SYSTEMA
NATURÆ
PER
REGNA TRIA NATURÆ,
SECUNDUM
CLASSES, ORDINES,
GENERA, SPECIES,
CUM
CHARACTERIBUS, DIFFERENTIIS,
SYNONYMIS, LOCIS.

TOMUS I.

EDITIO DECIMA, REFORMATA.

Cum Privilegio S:æ R:æ M:tis Sveciæ.

HOLMIÆ,
IMPENSIS DIRECT. LAURENTII SALVII,
1758.

Fig. 1.

Left : The title page of Linnaeus' *Species Plantarum* Vol.1.（1753a）(property of Natural History Museum and Institute, Chiba). Two volumes in half calf. In preface to *Species Plantarum*, aside from his personal observations of living specimen, Linnaeus had perused a long line of herbarium and received dried plants and seeds from disciples and friends among the botanists such as Frederic Hasselquist, Pehr Loefling, Bernard de Jussieu and J.G.Gmelin. Linnaeus also notes that he has not included plants which he had not seen himself.

Right : The title page of Linnaeus' *Systema Naturae* 10th edition Vol.1.（1958）(property of Natural History Museum and Institute, Chiba). Two volumes in half calf. In extending binominal system to all of life in the 10th edition of *Systema Naturae*, Linnaeus created the efficient cataloging tool for life on Earth that we still use today. A name is merely a tool of efficient retrieval of information and thus consistency in naming is critically important to get science done.

Table 1. A list of the valid species names for algae described by Carl Linnaeus, under ICN (2012)

Scientific Names of algae described by Carl Linnaeus in binomial nomenclature	Literatures	Valid Scientific Names under ICBN (2006) and ICN (2012)	Family Names
Chara flexilis Linnaeus	Species Plantarum 2:1187. 1753	Nitella flexilis (L.) C.Agardh	Characeae
Chara hispida Linnaeus	Species Plantarum 2:1156. 1753	Chara hispida L.	Characeae
Chara tomentosa Linnaeus	Species Plantarum 2:1156. 1753	Chara tomentosa L.	Characeae
Chara vulgaris Linnaeus	Species Plantarum 2:1156. 1753	Chara vulgaris L.	Characeae
Conferva aegagropila Linnaeus	Species Plantarum 2:1167. 1753	Cladophora aegagropila (L.) Trevis.	Cladophoraceae
Conferva aeruginosa Linnaeus	Species Plantarum 2:1165. 1753	Spogomorpha aeruginosa (L.) C. Hoek	Acrosiphoniaceae
Conferva bullosa Linnaeus	Species Plantarum 2:1164. 1753	Cladophora glomerata (L.) Kutz. Var. crassior (C. Agardh) C. Hoek	Cladophoraceae
Conferva canaliculalis Linnaeus	Species Plantarum 2:1164. 1753	Vaucheria canaliculalis (L.) T.A. Chr.	Vaucheriaceae
Conferva capillaris Linnaeus	Species Plantarum 2:1166. 1753	Cladophora glomerata (L.) kutz.	Cladophoraceae
Conferva catenata Linnaeus	Species Plantarum 2:1166. 1753	Cladophora catenata (L.) Kutz.	Cladophoraceae
Conferva corallina Linnaeus	Systema Vegetabilium, ed. 13: 818. 1774	Griffithsia corallinoides (L.) Trevis.	Ceramiaceae
Conferva dichotoma Linnaeus	Species Plantarum 2:1165. 1753	Vaucheria dichotoma (L.) Mart.	Vaucheriaceae
Conferva fulviatilis Linnaeus	Species Plantarum 2:1165. 1753	Lemanea fluviatilis (L.) C. Agardh	Lemaneaceae
Conferva fontinalisLinnaeus	Species Plantarum 2:1164. 1753	Vaucheria fontinalis (L.) T.A. Chr.	Vaucheriaceae
Conferva gelatinosa Linnaeus	Species Plantarum 2:1166. 1753	Batrachospermaum gelatinosum (L.) DC.	Batrachospermaceae
Conferva glomerata Linnaeus	Species Plantarum 2:1167. 1753	Cladophora glomerata (L.) Kutz. Var. glomerata	Cladophoraceae
Conferva littoralis Linnaeus	Species Plantarum 2:1165. 1753	Pylaiella littiralis (L.) Kjellm.	Pylaiellaceae
Conferva polymorpha Linnaeus	Species Plantarum 2:1167. 1753	Polysiphonia lanosa (L.) Tandy	Rhodomelaceae
Conferva reticulata Linnaeus	Species Plantarum 2:1165. 1753	Hydrodictyon reticulatum (L.) Lagerh	Hydrodictyaceae
Conferva rupestris Linnaeus	Species Plantarum 2:1167. 1753	Cladophora rupestris (L.) Kutz.	Cladophoraceae
Conferva scoparia Linnaeus	Species Plantarum 2:1165. 1753	Stypocaulon scoparia (L.) Kutz.	Stypocaulaceae
Conferva vagabunda Linnaeus	Species Plantarum 2:1167. 1753	Cladophora vagabunda (L.) C.Hoek	Cladophoraceae
Fucus abrotanifolis Linnaeus	Species Plantarum 2:1161. 1753	Cystoseira foeniculacea (L.) Grev.	Cystoseiraceae
Fucus acinarius Linnaeus	Species Plantarum 2:1160. 1753	Sargassum acinarium (L.) Setch.	Sargassaceae
Fucus aculeatus Linnaeus	Species Plantarum ed. 2 2:1632. 1763	Desmarestia aculeata (L.) V.Lamour.	Desmarestiaceae
Fucus barbatus Linnaeus	Species Plantarum 2:1161. 1753	Cystiseira foeniculaceae (L.) Grev.	Cystoseiraceae
Fucus buccinalis Linnaeus	Mantissa Plantarum Altera: 312. 1771	Ecklonia maxima (Osbeck) Papenf.	Alariaceae
Fucus canaliculatus Linnaeus	Systema Naturae, ed. 12.2: 716	Pelvetia canliculata (L.) Decne. & Thur.	Fucaceae
Fucus cartilagineus Linnaeus	Species Plantarum 2:1161. 1753	Plocamium cartilagineum (L.) P.S.Dixon	Plocamiaceae
Fucus ceranoides Linnaeus	Species Plantarum 2:1158. 1753	Fucus ceranoides L.	Fucaceae
Fucus concatenatus Linnaeus	Species Plantarum 2:1160. 1753	Cystoseira foeniculaceae (L.) Grev.	Cystoseiraceae
Fucus confervoides Linnaeus	Species Plantarum ed. 2, 2:1629. 1763	Gracilariopsis longissima (S.G. Gmel.) Steentoft & et al.	Gracilariaceae
Fucus crispatus Linnaeus	Systema Naturae, ed. 12, 2: 718. 1767	Cryptopleura ramosa (Huds.) L. Newton	Delesseriaceae
Fucus crispus Linnaeus	Systema Naturae, ed. 12, 2: 718. 1767	Chondrus crispus Stackh.	Gigartinaceae
Fucus dentatus Linnaeus	Systema Naturae, ed. 12, 2: 718;Mantissa Plantarum: 135, 1767	Odonthalia dentata (L.) Lyngb.	Rhodomelaceae
Fucus discors Linnaeus	Systema Naturae, ed. 12, 2: 717. 1767	Cystoseira foeniculaceae (L.) Grev.	Cystoseiraceae
Fucus distichus Linnaeus	Systema Naturae ed. 12, 2: 716. 1767	Fucus distichus L. subsp. Distichus	Fucaceae
Fucus divaricatus Linnaeus	Species Plantarum 2:1159. 1753	Fucus vesiculosus L.	Fucaceae
Fucus elongatus Linnaeus	Species Plantarum 2:1159. 1753	Himanthalia elongata (L.) Gray	Himanthaliaceae
Fucus ericoides Linnaeus	Systema Naturae ed. 2, 2: 1631. 1763	Cystoseira tamariscifolia (Huds.) Papenf.	Cystoseiraceae
Fucus esculentus Linnaeus	Systema Naturae ed. 12, 2: 718;Mantissa Plantarum: 135, 1767	Alaria esculentus (L.) Grev.	Alariaceae
Fucus excisus Linnaeus	Species Plantarum 2:1159. 1753	Pelvetia canaliculata (L.) Decne. & Thur.	Fucaceae
Fucus fastigiatus Linnaeus	Species Plantarum 2:1162. 1753	Furcellaria lumbricalis (Huds.) J.V.Lamour.	Furcellariaceae
Fucus filum Linnaeus	Species Plantarum 2:1162. 1753	Chorda filum (L.) Stackh.	Chordariaceae
Fucus foeniculaceus Linnaeus	Species Plantarum 2:1161. 1753	Cystoseira foeniculaceae (L.) Grev.	Cystoseiraceae
Fucus foeniculaceus Linnaeus var. barbatus (Linnaeus) Linnaeus	Systema Nnaturae ed. 12, 2: 717	Cystoseira foeniculaceae (L.) C. Agardh	Cystoseiraceae
Fucus fucellatus Linnaeus	Species Plantarum 2:1631. 1753	Furcellaria lumbricalis (Huds.) J.V.Lamour.	Furcellariaceae

Fucus gigartinus Linnaeus	Systema Naturae ed. 10, 2: 1344. 1759	Gigartina pistilata (S.G.Gmel.) Stackh.	Gigartinaceae
Fucus granulatus Linnaeus	Species Plantarum ed. 2, 2:1629. 1763	Cystoseira usneoides (L.) M. Roberts	Cystoseiraceae
Fucus hirsutus Linnaeus	Systema Naturae ed. 12, 2: 71;Mantissa Plantarum: 134, 1767	Cladostephus spongiosus (Huuds.) C. Agardh var. verticillatus (lightf.) Prud'homme	Cladostephaceae
Fucus inflatus Linnaeus	Species Plantarum 2:1159. 1753	Fucus vesiculosus L.	Fucaceae
Fucus lacerus Linnaeus	Species Plantarum ed. 2, 2:1627. 1763	Fucus ceranoides L. var. lacerus (L.) Lightf.	Fucaceae
Fucus lanosus Linnaeus	Systema Naturae ed. 12, 2: 718.1767	Polysiphonia lanosa (L.) Tandy	Rhodopmelaceae
Fucus lendigerus Linnaeus	Species Plantarum 2:1160. 1753	Sargassum lendigerum (L.) C. Agardh	Sargassaceae
Fucus loreus Linnaeus	Systema Naturae ed. 12, 2: 716.1767	Himanthalia elongata (L.) Gray	Himanthaliaceae
Fucus lycopodioides Linnaeus	Systema Naturae ed. 12, 2: 717.1767	Rhodomela lycopodioides (L.) C.Agardh	Rhodomelaceaea
Fucus muscoides Linnaeus	Species Plantarum 2:1161. 1753	Acanthophora muscoides (L.) Bory	Rhodomelaceaea
Fucus natans Linnaeus	Species Plantarum 2:1160. 1753	Sargassum natans (L.) Gaillon	Sargassaceae
Fucus nodosus Linnaeus	Species Plantarum 2:1159. 1753	Ascophyllum nodosum (L.) Le Jol.	Fucaceae
Fucus ornatus Linnaeus	Mantissa Plantarum Altera: 312. 1771	Suhria vittata (L.) Endl.	Gelidiaceae
Fucus ovarius Linnaeus	Systema Naturae ed. 12, 2: 714.1767,	Botryocladia uvaria (L.) Kylin	Rhodymeniaceae
Fucus palmatus Linnaeus	Species Plantarum 2:1162. 1753	Rhodymenia palmata (L.) Grev.	Rhodymeniacaea
Fucus pavonicus Linnaeus	Species Plantarum 2:1162. 1753	Padina pavonica (L.) J.V.Lamour.	Dictyotaceae
Fucus pavonius Linnaeus	Species Plantarum ed. 2, 2:1630. 1763	Padina pavonica (L.) J.V.Lamour.	Dictyotaceae
Fucus pyriferus Linnaeus	Mantissa Plantarum Altera: 311. 1771	Macrocystis pyrifera (L.) C.Agardh	Lessoniaceae
Fucus ramentaceus Linnaeus	Systema Naturae ed. 12, 2: 718.1767	Devaleraea ramentacea (L.) Guiry	Palmariaceae
Fucus rubens Linnaeus	Species Plantarum 2:1162. 1753	Phycodrys rubens (L.) Batters	Delesseriaceae
Fucus saccharinus Linnaeus	Species Plantarum 2:1161. 1753	Saccharina latissima (L.) C.E.Lane & al.	Laminariaceae
Fucus selaginoides Linnaeus	Systema Naturae ed. 12, 2: 717.1767	Cystoseira tamariscifolia (Huds.) Papenf.	Cystoseiraceae
Fucus serratus Linnaeus	Species Plantarum 2:1158. 1753	Fucus serratus L.	Fucaceae
Fucus siliquosus Linnaeus	Species Plantarum 2:1160. 1753	Halidrys siliquosa (L.) Lyngb.	Cystoseiraceae
Fucus spermophorus Linnaeus	Systema Naturae ed. 12, 2: 719.1767	Chondrus spermophorus (L.) Grev.	Gigartinaceae
Fucus spinosus Linnaeus	Mantissa Plantarum Altera: 313. 1771	Eucheuma denticulatum (Burm.f.) Collins & Herv.	Solieraceae
Fucus spiralis Linnaeus	Species Plantarum 2:1159. 1753	Fucus spiralis L.	Fucaceae
Fucus triqueter Linnaeus	Mantissa Plantarum Altera: 312. 1771	Hormophysa cuneiformis (J.E.Gmel.) P.C.Silva	Cystoseiraceae
Fucus turbinatus Linnaeus	Species Plantarum 2:1160. 1753	Turbinaria turubinata (L.) Kuntze	Sargassaceae
Fucus uranus Linnaeus	Systema Naturae ed. 10, 2: 1345. 1759	Botryocladia uvaria (L.) Kylin	Rhodymeniaceae
Fucus usneoides Linnaeus	Systema Naturae ed. 10, 2: 1345. 1759	Cystoseira usneoides (L.) M.Roberts	Cystoseiraceae
Fucus uvarius Linnaeus	Systema Naturae ed. 12, 2: 714. 1767	Botryocladia uvaria (L.) Kylin	Rhodymeniaceae
Fucus venosusLinnaeus	Mantissa Plantarum Altera: 312. 1771	Hymenena venosa (L.) C.Krauss	Delesseriaceae
Fucus vesiculosus Linnaeus	Species Plantarum 2:1158. 1753	Fucus vesiculosus L.	Fucaceae
Fucus vittatus Linnaeus	Systema Naturae ed. 12, 2: 718. 1767	Suhria vittata (L.) Endl.	Gelidiaceae
Fucus volubilis Linnaeus	Systema Naturae ed. 10, 2: 1344. 1759	Osmundaria volubilis (L.) R.E.Norris	Rhodomelaceae
Ulva compressa Linnaeus	Species Plantarum 2:1163. 1753	Ulva compressa L.	Ulvaceae
Ulva confervoides Linnaeus	Species Plantarum 2:1163. 1753	Ceramium virgatum Roth	Ceramiaceae
Ulva granulata Linnaeus	Species Plantarum 2:1164. 1753	Botrydium granulatum (L.) Grev.	Botrydiaceae
Ulva intestinalis Linnaeus	Species Plantarum 2:1163. 1753	Ulva intestinalis L.	Ulvaceae
Ulva labyrinthiformis Linnaeus	Species Plantarum ed. 2, 2:1633. 1763	Spirulina labyrinthiformis Gomont	Oscillaroriaceae
Ulva lactuca Linnaeus	Species Plantarum 2:1163. 1753	Ulva lactuca L.	Ulvaceae
Ulva lanceolata Linnaeus	Systema Naturae ed. 12, 2: 719. 1767	Ulva linza L.	Ulvaceae
Ulva latissima Linnaeus	Species Plantarum 2:1163. 1753	Saccharina latissima (L.) C.E.Lane & al.	Laminariaceae
Ulva linza Linnaeus	Species Plantarum 2:1163. 1753	Ulva linza L.	Ulvaceae
Ulva lumbricalis Linnaeus	Mantissa Plantarum Altera: 311. 1771	Champia lumbricalis (L.) Desv.	Champiaceae
Ulva papillosa Linnaeus	Mantissa Plantarum Altera: 311. 1771	Eucheuma denticulatum (Burm. F.) Collins & Herv.	Solieriaceae
Ulva pavonia Linnaeus	Systema Naturae ed. 12, 2: 719. 1767.	Padina pavonica (L.) J.V.Lamour.	Dictyotaceae
Ulva prunifirmis Linnaeus	Species Plantarum 2:1164. 1753	Nostoc commune Vaucher	Nostocaceae
Ulva rugosa Linnaeus	Mantissa Plantarum Altera: 311. 1771	Splachnidium rugosum (L.) Grev.	Splachnidaiceae
Ulva umbillicalis Linnaeus	Species Plantarum 2:1163. 1753	Porphyra umbilicalis (L.) Kutz.	Bangiaceae