

Seaweeds of California

(draft: November 2008)

This page provides current names for seaweed species whose names have changed since the publication of Marine Algae of California (Abbott & Hollenberg 1976). This list is organized by group (Chlorophyta, Phaeophyceae, Rhodophyta); within each group are genera and species in alphabetical order. A list of California seaweeds discovered or described since 1976 follows the nomenclatural/taxonomic updates.

This is a draft of an on-going project. If you have questions or comments, please contact Kathy Ann Miller, University Herbarium, University of California at Berkeley. kathyannmiller@berkeley.edu

Green Algae

Former name: *Blidingia minima* var. *subsalsa* (Kjellman) Scagel

Current name: *Blidingia subsalsa* (Kjellman) Kornmann & Sahling ex Scagel et al.

Kornmann, P. & Sahling, P.H. 1978. Die Blidingia-Arten von Helgoland (Ulvales, Chlorophyta). Helgoländer Wissenschaftliche Meeresuntersuchungen 31: 391-413.

Scagel, R.F., Gabrielson, P.W., Garbary, D.J., Golden, L., Hawkes, M.W., Lindstrom, S.C., Oliveira, J.C. & Widdowson, T.B. 1989. A synopsis of the benthic marine algae of British Columbia, southeast Alaska, Washington and Oregon. Phycological Contributions, University of British Columbia 3: vi + 532.

Former name: *Chlorochytrium porphyrae* Setchell & Gardner

Current name: *Halochlorococcum porphyrae* (Setchell & Gardner) West, C.M. Smith & McBride

West, J.A., Smith, C.M. & McBride, D.L. 1988. Observations on the marine unicellular endophyte *Chlorochytrium porphyrae* (Chlorophyceae). Botanica Marina 31: 299-305.

Former name: *Enteromorpha clathrata* (Roth) Greville

Current name: *Ulva clathrata* (Roth) C. Agardh

Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: *Ulva* and *Enteromorpha* are not distinct genera. European Journal of Phycology 38: 277-294.

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Former name: *Enteromorpha clathrata* var. *crinita* (Nees) Hauck

Current name: *Ulva clathrata* (Roth) C. Agardh

Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: *Ulva* and *Enteromorpha* are not distinct genera. European Journal of Phycology 38: 277-294.

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Former name: *Enteromorpha compressa* (Linnaeus) Greville

Current name: *Ulva compressa* Linnaeus

Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: *Ulva* and *Enteromorpha* are not distinct genera. European Journal of Phycology 38: 277-294.

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Former name: *Enteromorpha flexuosa* (Roth) J. Agardh

Current name: *Ulva flexuosa* Wulfen

Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: *Ulva* and *Enteromorpha* are not distinct genera. European Journal of Phycology 38: 277-294.

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Former name: *Enteromorpha intestinalis* (Linnaeus) Link

Current name: *Ulva intestinalis* Linnaeus

Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: *Ulva* and *Enteromorpha* are not distinct genera. European Journal of Phycology 38: 277-294.

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Former name: *Enteromorpha linza* (Linnaeus) J. Agardh

Current name: *Ulva linza* Linnaeus

Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: *Ulva* and *Enteromorpha* are not distinct genera. European Journal of Phycology 38: 277-294.

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Former name: *Enteromorpha prolifera* (Müller) J. Agardh

Current name: *Ulva prolifera* O.F. Müller

Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: Ulva and Enteromorpha are not distinct genera. European Journal of Phycology 38: 277-294.

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of Ulva (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Former name: *Halicystis ovalis* (Lyngbye) Areschoug

Current name: *Derbesia marina* (Lyngbye) Solier

Kornmann, P. 1938. Zur Entwicklungsgeschichte von Derbesia und Halicystis. Planta 28: 464-470.

Former name: *Monostroma oxyspermum* (Kützing) Doty

Current name: *Gayralia oxysperma* (Kützing) Vinogradova ex Scagel et al.

Vinogradova, K.L. 1969. K. sistematike poryadka Ulvales (Chlorophyta) s.l.. Botanicheskiy Zhurnal SSSR 54: 1347-1355.

Scagel, R.F., Gabrielson, P.W., Garbary, D.J., Golden, L., Hawkes, M.W., Lindstrom, S.C., Oliveira, J.C. & Widdowson, T.B. 1989. A synopsis of the benthic marine algae of British Columbia, southeast Alaska, Washington and Oregon. Phycological Contributions, University of British Columbia 3: vi + 532.

Former name: *Monostroma zostericola* Tilden

Current name: *Kornmannia leptoderma* (Kjellman) Bliding

Bliding, C. 1969 [1968]. A critical survey of European taxa in Ulvales, Part II. Ulva, Ulvaria, Monostroma, Kornmannia. Botaniska Notiser 121: 535-629.

Former name: *Percursaria dawsonii* Hollenberg & Abbott

Current name: *Blidingia dawsonii* (Hollenberg & Abbott) Lindstrom, Hanic & Golden

Lindstrom, S.C., Hanic, L.A. & Golden, L. 2006. Studies of the green alga Percursaria dawsonii (Blidingia dawsonii comb. nov. Kornmanniaceae, Ulvales) in British Columbia. Phycological Research 54: 40-56.

Former name: *Prasinocladus ascus* Proskauer

Current name: *Tetraselmis ascus* (Proskauer) R.E. Norris, Hori & Chihara

Norris, R.E., Hori, T. & Chihara, M. 1980. Revision of the genus Tetraselmis (Class Prasinophyceae). Botanical Magazine, Tokyo 93: 317-339.

Former name: *Prasinocladus marinus* (Cienkowski) Waern

Current name: *Tetraselmis marina* (Cienkowski) R.E. Norris, Hori & Chihara

Norris, R.E., Hori, T. & Chihara, M. 1980. Revision of the genus Tetraselmis (Class Prasinophyceae). Botanical Magazine, Tokyo 93: 317-339.

Former name: *Pseudodictyon geniculatum* Gardner

Current name: *Acrochaete geniculata* (Gardner) O'Kelly

O'Kelly, C.J. 1983. Observations on marine Chaetophoraceae (Chlorophyta). IV. The structure, reproduction, and life history of Acrochaete geniculata (Gardner) comb. nov. Phycologia 22: 13-21.

Former name: *Rhizoclonium implexum* (Dillwyn) Kützing

Current name: *Rhizoclonium riparium* var. *implexum* (Dillwyn) Rosenvinge

Silva, P.C., Basson, P.W. & Moe, R.L. 1996. Catalogue of the benthic marine algae of the Indian Ocean. University of California Publications in Botany 79: 1-1259.

Former name: *Spongomorpha coalita* (Ruprecht) Collins

Current name: *Acrosiphonia coalita* (Ruprecht) Scagel, Garbary, Golden & Hawkes

Scagel, R.F., Garbary, D.J., Golden, L. & Hawkes, M.W. 1986. A synopsis of the benthic marine algae of British Columbia, northern Washington and southeast Alaska. Vol. 1. Pp. 444. Vancouver: Department of Botany, University of British Columbia.

Sussmann, A.V., Mable, B.K., DeWreede, R.E. & Berbee, M.L. 1999. Identification of green algal endophytes as the alternate phase of Acrosiphonia (Codiolales, Chlorophyta) using ITS1 and ITS2 ribosomal DNA sequence data. Journal of Phycology 35: 607-614.

Former name: *Spongomorpha mertensii* (Ruprecht) Setchell & Gardner

Current name: *Acrosiphonia mertensii* (Ruprecht) Yendo

Yendo, K. 1916. Notes on algae new to Japan V. Botanical Magazine, Tokyo 30: 243-263.

Former name: *Spongomorpha saxatilis* (Ruprecht) Collins

Current name: *Acrosiphonia saxatilis* (Ruprecht) Vinogradova

Vinogradova, K.L. 1979. Opredelitel' vodoroslej dal'nevostochnykh morej SSSR. Selenye vodorosli. Pp. 148. Leningrad: Akademiya Nauk SSSR, Botanicheskiy Institut im. V.L. Komarova.

Former name: *Ulothrix laetevirens* (Hooker) Collins
Current name: *Ulothrix flacca* (Dillwyn) Thuret

Lokhorst, G.M. 1978. Taxonomic studies on the marine and brackish-water species of *Ulothrix* (Ulotrichales, Chlorophyceae) in western Europe. *Blumea* 24: 191-299.

Former name: *Ulothrix pseudoflacca* Wille
Current name: *Ulothrix flacca* (Dillwyn) Thuret

Lokhorst, G.M. 1978. Taxonomic studies on the marine and brackish-water species of *Ulothrix* (Ulotrichales, Chlorophyceae) in western Europe. *Blumea* 24: 191-299.

Burrows, E.M. 1991. Seaweeds of the British Isles. Volume 2. Chlorophyta. pp. xi + 238, 60 figs, 9 plates. London: Natural History Museum Publications.

Former name: *Ulva angusta* Setchell & Gardner
Current name: *Ulva californica* Wille

Tanner, C.E. 1986. Investigations of the taxonomy and morphological variation of *Ulva* (Chlorophyta): *Ulva californica* Wille. *Phycologia* 25: 510-520.
Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. *Phycologia* 43: 364-382.

Former name: *Ulva costata* (Howe) Hollenberg
Current name: *Ulva taeniata* (Setchell) Setchell & Gardner

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. *Phycologia* 43: 364-382.

Former name: *Ulva dactylifera* Setchell & Gardner
Current name: *Ulva taeniata* (Setchell) Setchell & Gardner

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. *Phycologia* 43: 364-382.

Former name: *Ulva lobata* (Kützing) Setchell & Gardner
Current name: *Ulva lobata* (Kützing) Harvey

Harvey, W.H. 1855. Algae. In: The botany of the Antarctic voyage of H.M. discovery ships Erebus and Terror, in the years 1839-1843, under the command of Captain Sir James Clark Ross.... II. Flora Novae-Zelandiae. Part II. Flowerless plants. (Hooker, J.D., ed.), pp. 211-266. London: Reeve.

Brown Algae

Former name: *Cylindrocarpus rugosus* Okamura
Current name: *Petrospongium rugosum* (Okamura) Setchell & Gardner

Setchell, W.A. & Gardner, N.L. 1924. Phycological contributions, VII. University of California Publications in Botany 13: 1-13.

Former name: *Desmarestia latifrons* Kützing
Current name: *Desmarestia latifrons* (Ruprecht) Kützing

Ruprecht, F.J. 1850. Algae ochotenses. Die ersten sicheren Nachrichten Über die Tange des Ochotskischen Meeres. Pp. 243, 10 pls. St. Petersburg.
Peters, A.F., van Oppen, M.J.H., Wiencke, C., Stam, W.T. & Olsen, J.L. 1997. Phylogeny and historical ecology of the Desmarestiaceae (Phaeophyceae) support a southern hemisphere origin. *Journal of Phycology* 33: 294-309.

Former name: *Desmarestia ligulata* (Lightfoot) Lamouroux
Current name: *Desmarestia herbacea* (Turner) Lamouroux

Silva, P.C. 1979. The benthic algal flora of central San Francisco Bay. In: San Francisco Bay: the Urbanized Estuary. (Conomos, T.J., ed.), pp. 287-345. San Francisco: Pacific Division, American Association for the Advancement of Science.

Peters, A.F. & Müller, D.G. 1986. Life-history studies - a new approach to the taxonomy of ligulate species of *Desmarestia* (Phaeophyceae) from the Pacific coast of Canada. *Canadian Journal of Botany* 64: 2192-2196.

Chapman, A.R.O. 1971. Morphological variation and its taxonomic implications in the ligulate members of the genus *Desmarestia* occurring on the west coast of North America. *Sysis* 5: 1-20.

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. *Phycological Contribution* 6: iv + 181.

Former name: *Desmarestia ligulata* (Lightfoot) Lamouroux
Current name: *Desmarestia munda* Setchell & Gardner

Peters, A.F. & Müller, D.G. 1986. Life-history studies - a new approach to the taxonomy of ligulate species of *Desmarestia* (Phaeophyceae) from the Pacific coast of Canada. *Canadian Journal of Botany* 64: 2192-2196.

Peters, A.F., van Oppen, M.J.H., Wiencke, C., Stam, W.T. & Olsen, J.L. 1997. Phylogeny and historical ecology of the Desmarestiaceae (Phaeophyceae) support a southern hemisphere origin. *Journal of Phycology* 33: 294-309.

Former name: *Desmarestia ligulata* var. *firma* (C. Agardh) J. Agardh
Current name: *Desmarestia tabacoides* Okamura

Peters, A.F., van Oppen, M.J.H., Wiencke, C., Stam, W.T. & Olsen, J.L. 1997. Phylogeny and historical ecology of the Desmarestiaceae (Phaeophyceae) support a southern hemisphere origin. *Journal of Phycology* 33: 294-309.

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. *Phycological Contribution* 6: iv + 181.

Former name: *Dictyoneuropsis reticulata* (Saunders) Smith

Current name: *Dictyoneurum californicum* Ruprecht

Lane, C.E., Mayes, C., Druehl, L.D. & Saunders, G.W. 2006. A multi-gene molecular investigation of the kelp (Laminariales, Phaeophyceae) supports substantial taxonomic re-organization. *Journal of Phycology* 42: 493-512.

Former name: *Dictyopteris johnstonei* Gardner

Current name: *Dictyopteris undulata* Holmes

Silva, P.C. 1957. Notes on Pacific marine algae. *Madroño* 14: 41-51.

Abbott, I.A. 1972. Taxonomic and nomenclatural notes on North Pacific marine algae. *Phycologia* 11: 259-265.

Former name: *Ectocarpus acutus* Setchell & Gardner

Current name: *Ectocarpus fasciculatus* Harvey

Kim, H.S. & Lee, I.K. 1992. Morphotaxonomic studies on the Korean Ectocarpaceae (Phaeophyta) I. Genus *Ectocarpus* Lyngbye. *Korean Journal of Phycology* 7: 225-242.

Former name: *Ectocarpus acutus* var. *haplogloiae* Doty

Current name: *Ectocarpus fasciculatus* Harvey

Kim, H.S. & Lee, I.K. 1992. Morphotaxonomic studies on the Korean Ectocarpaceae (Phaeophyta) I. Genus *Ectocarpus* Lyngbye. *Korean Journal of Phycology* 7: 225-242.

Former name: *Feldmannia cylindrica* (Saunders) Hollenberg & Abbott

Current name: *Feldmannia paradoxa* var. *cylindrica* (Saunders) H.S. Kim & I.K. Lee

Kim, H.S. & Lee, I.K. 1994. Morphotaxonomic studies on the Korean Ectocarpaceae (Phaeophyta). III. Genus *Feldmannia* Hamel, specially referred to morphogenesis and phylogenetic relationship among related genera. *Korean Journal of Phycology* 9: 153-168.

Former name: *Feldmannia globifera* (Kützing) G. Hamel

Current name: *Feldmannia paradoxa* (Montagne) G. Hamel

Kim, H.S. & Lee, I.K. 1994. Morphotaxonomic studies on the Korean Ectocarpaceae (Phaeophyta). III. Genus *Feldmannia* Hamel, specially referred to morphogenesis and phylogenetic relationship among related genera. *Korean Journal of Phycology* 9: 153-168.

Former name: *Fucus distichus* Linnaeus

Current name: *Fucus gardneri* P.C. Silva

Silva, P.C. 1953. The identity of certain Fuci of Esper. *Wasmann Journal of Biology* 11: 221-232.

Silva, P.C. 1979. The benthic algal flora of central San Francisco Bay. In: San Francisco Bay: the Urbanized Estuary. (Conomos, T.J., ed.), pp. 287-345. San Francisco: Pacific Division, American Association for the Advancement of Science.

Former name: *Giffordia granulosa* (J.E. Smith) Hamel

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

Silva, P.C., Meñez, E.G. & Moe, R.L. 1987. Catalog of the benthic marine algae of the Philippines. *Smithsonian Contributions to Marine Sciences* 27: iv + 179, 2 figs, 1 table.

Former name: *Giffordia hincksiæ* var. *californica* Hollenberg & Abbott

Current name: *Hincksia hincksiæ* (Harvey) P.C. Silva

Silva, P.C., Meñez, E.G. & Moe, R.L. 1987. Catalog of the benthic marine algae of the Philippines. *Smithsonian Contributions to Marine Sciences* 27: iv + 179, 2 figs, 1 table.

Former name: *Giffordia mitchelliae* (Harvey) Hamel

Current name: *Hincksia mitchelliae* (Harvey) P.C. Silva

Silva, P.C., Meñez, E.G. & Moe, R.L. 1987. Catalog of the benthic marine algae of the Philippines. *Smithsonian Contributions to Marine Sciences* 27: iv + 179, 2 figs, 1 table.

Former name: *Giffordia sandriana* (Zanardini) Hamel

Current name: *Hincksia sandriana* (Zanardini) P.C. Silva

Silva, P.C., Meñez, E.G. & Moe, R.L. 1987. Catalog of the benthic marine algae of the Philippines. *Smithsonian Contributions to Marine Sciences* 27: iv + 179, 2 figs, 1 table.

Former name: *Giffordia saundersii* (Setchell & Gardner) Hollenberg & Abbott

Current name: *Hincksiella saundersii* (Setchell & Gardner) P.C. Silva

Silva, P.C., Meñez, E.G. & Moe, R.L. 1987. Catalog of the benthic marine algae of the Philippines. Smithsonian Contributions to Marine Sciences 27: iv + 179, 2 figs, 1 table.

Former name: *Hapterophycus canaliculatus* Setchell & Gardner

Current name: *Scytonema canaliculatum* (Setchell & Gardner) Kogame

Kogame, K. 1996. Morphology and life history of *Scytonema canaliculatum* comb. nov. (Scytonematales, Phaeophyceae) from Japan. Phycological Research 44: 85-94.

Former name: *Hedophyllum sessile* (C. Agardh) Setchell

Current name: *Saccharina sessilis* (C. Agardh) Kuntze

Lane, C.E., Mayes, C., Druehl, L.D. & Saunders, G.W. 2006. A multi-gene molecular investigation of the kelp (Laminariales, Phaeophyceae) supports substantial taxonomic re-organization. Journal of Phycology 42: 493-512.

Former name: *Hesperophycus harveyanus* (Decaisne) Setchell & Gardner

Current name: *Hesperophycus californicus* P.C. Silva

Former name: *Laminaria dentigera* Kjellman (in California)

Current name: *Laminaria setchellii* P.C. Silva

Silva, P.C. 1957. Notes on Pacific marine algae. Madroño 14: 41-51.

Former name: *Laminaria sinclairii* (Harvey) Farlow, Anderson & Eaton

Current name: *Laminaria sinclairii* (Harvey ex J.D. Hooker & Harvey) Farlow, Anderson & Eaton

Former name: *Leathesia nana* Setchell & Gardner

Current name: *Leathesia difformis* (Linnaeus) Areschoug

Webber, E.E. 1981. Observations on *Leathesia difformis* (L.) Aresch. from Nahant, Massachusetts. Botanica Marina 24: 297-298.

Novaczek, I. 1987. Periodicity of epiphytes on *Zostera marina* in two embayments of the southern Gulf of St. Lawrence. Canadian Journal of Botany 65: 1676-1681.

Scagel, R.F., Gabrielson, P.W., Garbary, D.J., Golden, L., Hawkes, M.W., Lindstrom, S.C., Oliveira, J.C. & Widdowson, T.B. 1989. A synopsis of the benthic marine algae of British Columbia, southeast Alaska, Washington and Oregon. Phycological Contributions, University of British Columbia 3: vi + 532.

Former name: *Nereocystis luetkeana* (Mertens) Postels & Ruprecht

Current name: *Nereocystis luetkeana* (Mertens f.) Postels & Ruprecht

Former name: *Pachydictyon coriaceum* (Holmes) Okamura

Current name: *Dictyota coriacea* (Holmes) Hwang, H.S. Kim & W.J. Lee

Hwang, I.K., Kim, H.S. & Lee, W.J. 2004. Evidence for taxonomic status of *Pachydictyon coriaceum* (Holmes) Okamura (Dictyotales, Phaeophyceae) based on morphology and plastid protein encoding rbcL, psaA and psbA gene sequences. Algae 19: 175-190.

Former name: *Pelvetia fastigiata* (J. Agardh) DeToni

Current name: *Silvetia compressa* (J. Agardh) Serrão, Cho, Boo & Brawley

Serrão, E.A., Alice, L.A. & Brawley, S.H. 1999. Evolution of the Fucaceae (Phaeophyceae) inferred from nrDNA-ITS. Journal of Phycology 35: 382-394.

Former name: *Pelvetia fastigiata* f. *gracilis* Setchell & Gardner

Current name: *Silvetia compressa* subsp. *deliquescentia* P.C. Silva

Silva, P.C., Pedroche, F.F., Chacana, M.E., Aguilar-Rosas, R., Aguilar-Rosas, L.E. & Raum, J. 2004. Geographic correlation of morphological and molecular variation in *Silvetia compressa* (Fucaceae, Fucales, Phaeophyceae). Phycologia 43: 204-214.

Serrão, E.A., Alice, L.A. & Brawley, S.H. 1999. Evolution of the Fucaceae (Phaeophyceae) inferred from nrDNA-ITS. Journal of Phycology 35: 382-394.

Former name: *Pilayella Bory*

Current name: *Pylaiella Bory*

Former name: *Pleurophycus gardneri* Setchell & Saunders

Current name: *Pleurophycus gardneri* Setchell & Saunders ex Tilden

Former name: *Pseudolithoderma nigra* Hollenberg

Current name: *Pseudolithoderma nigrum* Hollenberg

Former name: *Rosenvingea floridana*

Current name: *Rosenvingea antillarum* (P. Crouan & H. Crouan) Wynne

Wynne, M.J. 1997. *Rosenvingea antillarum* (P. Crouan & H. Crouan) comb. nov. to replace *R. floridana* (W.R. Taylor) W.R. Taylor (Scytophytales, Phaeophyta). *Cryptogamie, Algologie* 18: 331-336.

Former name: *Scytesiphon lomentaria* (Lyngbye) J. Agardh

Current name: *Scytesiphon lomentaria* (Lyngbye) Link

Former name: *Sorocarpus pacifica* Hollenberg

Current name: *Botryella pacifica* (Hollenberg) Hansen

Hansen, G.I. 1997. A revised checklist and preliminary assessment of the macrobenthic marine algae and seagrasses of Oregon. In: Conservation and Management of Native Flora and Fungi. (Kaye, T.N., Liston, A., Love, R.M., Luoma, D.L., Meinke, R.J. & Wilson, M.V., eds.), pp. 175-200. Corvallis: Native Plant Society of Oregon.

Former name: *Sphacelaria californica* (Sauvageau) Setchell & Gardner

Current name: *Sphacelaria californica* Sauvageau

Former name: *Sphacelaria furcigera* Kützing

Current name: *Sphacelaria rigidula* Kützing

Prud'homme van Reine, W.F. 1982. A taxonomic revision of the European Sphaceliaceae (Sphaceliales, Phaeophyceae). *Leiden Bot. Ser. V* 6. Pp. 293.

Kitayama, T. 1994. A taxonomic study of the Japanese Sphacelaria (Sphaceliales, Phaeophyceae). *Bulletin of the National Science Museum, Tokyo, Ser. B (Botany)* 20: 37-141.

Former name: *Streblonema aecidioides* DeToni

Current name: *Laminariocolax aecidioides* (Rosenvinge) Peters

Burkhardt, E. & Peters, A.F. 1998. Molecular evidence from nrDNA ITS sequences that Laminariocolax (Phaeophyceae, Ectocarpales sensu lato) is a worldwide clade of closely related kelp endophytes. *Journal of Phycology* 34: 682-691.

Former name: *Taonia lennebackeriae* J. Agardh

Current name: *Taonia lennebackerae* J. Agardh

Red Algae

Former name: *Acrochaetium barbadense* (Vickers) Bürgesen

Current name: *Colaconema macounii* (Collins) Gabrielson

Gabrielson, P.W., Widdowson, T.B., Lindstrom, S.C., Hawkes, M.W. & Scagel, R.F. 2000. Keys to the benthic marine algae and seagrasses of British Columbia, Southeast Alaska, Washington and Oregon. *Phycological Contribution Department of Botany, University of British Columbia No. 5:* iv + 189.

Garbary, D.J., Hansen, G.I. & Scagel, R.F. 1983. The marine algae of British Columbia and northern Washington: division Rhodophyta (red algae), class Florideophyceae, orders Acrochaetales and Nemaliales. *Sysis 15 (Suppl. 1):* 1-102.

Harper, J.T. & Saunders, G.W. 2002a. A re-classification of the Acrochaetales based on molecular and morphological data, and establishment of the Colaconematales, ord. nov. *British Phycological Journal* 37: 463-475.

Former name: *Acrochaetium amphiroeae* (Drew) Papenfuss

Current name: *Colaconema amphiroeae* (Drew) Gabrielson

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. *Phycological Contribution 6:* iv + 181.

Harper, J.T. & Saunders, G.W. 2002a. A re-classification of the Acrochaetales based on molecular and morphological data, and establishment of the Colaconematales, ord. nov. *British Phycological Journal* 37: 463-475.

Former name: *Acrochaetium coccineum* (Drew) Papenfuss

Current name: *Colaconema coccineum* (Drew) Gabrielson

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. *Phycological Contribution 6:* iv + 181.

Harper, J.T. & Saunders, G.W. 2002a. A re-classification of the Acrochaetales based on molecular and morphological data, and establishment of the Colaconematales, ord. nov. *British Phycological Journal* 37: 463-475.

Former name: *Acrochaetium desmarestiae* Kylin

Current name: *Colaconema desmarestiae* (Kylin) Gabrielson

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. *Phycological Contribution 6:* iv + 181.

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Former name: *Acrochaetium microscopicum* (Kützing) Nägeli

Current name: *Acrochaetium microscopicum* (Nägeli ex Kützing) Nägeli

Former name: *Acrochaetium pacificum* Kylin

Current name: *Colaconema pacifica* (Kylin) Woelkerling

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Former name: *Acrochaetium rhizoideum* (Drew) Rao

Current name: *Colaconema rhizoideum* (Drew) Gabrielson

Gabrielson, P.W., Widdowson, T.B., Lindstrom, S.C., Hawkes, M.W. & Scagel, R.F. 2000. Keys to the benthic marine algae and seagrasses of British Columbia, Southeast Alaska, Washington and Oregon. Phycological Contribution Department of Botany, University of British Columbia No. 5: iv + 189.

Former name: *Acrochaetium subimmersum* (Setchell & Gardner) Papenfuss

Current name: *Colaconema subimmersum* (Setchell & Gardner) Gabrielson

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Harper, J.T. & Saunders, G.W. 2002a. A re-classification of the Acrochaetales based on molecular and morphological data, and establishment of the Colaconematales, ord. nov. British Phycological Journal 37: 463-475.

Former name: *Acrochaetium vagum* (Drew) Jao

Current name: *Acrochaetium porphyrae* (Drew) Smith

Tam, C.E., Cole, K.M. & Garbary, D.J. 1987. In situ and in vitro studies on the endophytic red algae *Audouinella porphyrae* and *A. vaga* (Acrochaetales). Canadian Journal of Botany 65: 532-538.

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Former name: *Acrosorium uncinatum* (Turner) Kylin

Current name: *Acrosorium ciliolatum* (Harvey) Kylin

Womersley, H.B.S. 2003. The marine benthic flora of southern Australia - Part IIID Ceramiales - Delesseriaceae, Sarcomeniaceae, Rhodomelaceae. Pp. 533. Canberra & Adelaide: Australian Biological Resources Study & State Herbarium of South Australia.

Former name: *Ahnfeltia gigartinaoides* J. Agardh

Current name: *Ahnfeltiopsis gigartinaoides* (J. Agardh) P.C. Silva & DeCew

Silva, P.C. & DeCew, T.C. 1992. Ahnfeltiopsis, a new genus in the Phyllophoraceae (Gigartinales, Rhodophyceae). Phycologia 31: 576-580.

Former name: *Ahnfeltia plicata* (Hudson) Fries

Current name: *Ahnfeltia fastigiata* (Endlicher) Makienko

Makienko, V.F. 1970. K sistematike vidov Ahnfeltia Fries iz dal'nevostochnykh morej SSSR. Botanicheskij Zhurnal SSSR 55: 1077-1087.

Former name: *Amphiroa zonata* Yendo

Current name: *Amphiroa beauvoisii* Lamouroux

Norris, J.N. & Johansen, H.W. 1981. Articulated coralline algae of the Gulf of California, Mexico, I: *Amphiroa* Lamouroux. Smithsonian Contributions to the Marine Sciences 9: 1-29.

Former name: *Anisocladella pacifica* Kylin

Current name: *Erythroglossum californicum* (J. Agardh) J. Agardh

Silva, P.C. 1979. The benthic algal flora of central San Francisco Bay. In: San Francisco Bay: the Urbanized Estuary. (Conomos, T.J., ed.), pp. 287-345. San Francisco: Pacific Division, American Association for the Advancement of Science.

Former name: *Antithamnion hubbsii* Dawson

Current name: *Antithamnion nipponicum* Yamada & Inagaki

Cho, T.O., Won, B.Y. & Fredericq, S. 2006. *Antithamnion nipponicum* (Ceramiaceae, Rhodophyta), incorrectly known as *A. pectinatum* in western Europe, is a recent introduction along the North Carolina and Pacific coasts of North America. European Journal of Phycology 40: 323-335.

Former name: *Antithamnionella breviramosa* (Dawson) Womersley & Bailey

Current name: *Antithamnionella elegans* (Berthold) Price & John

Stewart, J.G. 1991. Marine algae and seagrasses of San Diego County. California Sea Grant College, University of California, La Jolla, Calif. Report No. T-CSGP-020. Pp. 197.

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Former name: *Antithamnionella glandulifera* (Kylin) Wollaston
Current name: *Antithamnionella spirographidis* (Schiffner) Wollaston

Wollaston, E.M. 1968. Morphology and taxonomy of Southern Australian genera of Crouaniaeae Schmitz (Ceramiaceae, Rhodophyta). Australian Journal of Botany 16: 217-417.
Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Former name: *Antithamnionella pacifica* var. *uncinata* (Gardner) Wollaston
Current name: *Antithamnionella pacifica* (Harvey) Wollaston

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Former name: *Asterocytis ramosa* (Thwaites) Gobi ex F. Schmitz
Current name: *Chroodactylon ornatum* (C. Agardh) Basson

Basson, P.W. 1979. Marine algae of the Arabian Gulf coast of Saudi Arabia (second half). Botanica Marina 22: 65-82.

Former name: *Bangia fuscopurpurea* (Dillwyn) Lyngbye
Current name: *Bangia* spp.

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Former name: *Bonnemaisonia nootkana* (Esper) P.C. Silva
Current name: *Bonnemaisonia californica* Buffham

Silva, P.C., Basson, P.W. & Moe, R.L. 1996. Catalogue of the benthic marine algae of the Indian Ocean. University of California Publications in Botany 79: 1-1259.
Buffham, T.H. 1896. On Bonnemaisonia hamifera, Hariot, in Cornwall. Journal of the Quekett Microscopical Club Ser. 2(6): 177-182.

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Current name: *Bossiella schmittii* (Manza) Johansen

Johansen, H.W. 1971. Changes and additions to the articulated coralline flora of California. Phycologia 10: 241-249.

Former name: *Bossiella orbigniana* ssp. *dichotoma* (Manza) Johansen
Current name: *Bossiella dichotoma* (Manza) P.C. Silva

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Current name: *Irvinea hancockii* (Dawson) Wilkes, McIvor & Guiry

Wilkes, R.J., McIvor, L. & Guiry, M.D. 2006. Vegetative morphology and rbcL phylogeny of some members of the genera Botryocladia and Irvinea (Rhodymeniaceae, Rhodophyta). Phycologia 45: 481-494.

Former name: *Botryoglossum farlowianum* (J. Agardh) DeToni
Current name: *Cryptopleura ruprechtiana* (J. Agardh) Kylin

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Ver Steeg, J. & Josselyn, M.N. 1983. Taxonomic and morphological studies of Cryptopleura (Rhodophyta, Delesseriaceae). Wasmann J. Biol. 41: 97-107.
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Former name: *Botryoglossum farlowianum* var. *anomalum* Hollenberg & Abbott
Current name: *Cryptopleura ruprechtiana* (J. Agardh) Kylin

Former name: *Botryoglossum ruprechtianum* (J. Agardh) DeToni
Current name: *Cryptopleura ruprechtiana* (J. Agardh) Kylin

Kylin, H. 1924. Studien über die Delesseriaceen. Acta Universitatis Lundensis 20(6): 1-111.

Former name: *Branchioglossum woodii* (J. Agardh) Kylin
Current name: *Branchioglossum bipinnatifidum* (Montagne) Wynne

Wynne, M.J. 1983. The current status of genera in the Delesseriaceae (Rhodophyta). Botanica Marina 26: 437-450.

Former name: *Callithamnion rupicolum* Anderson
Current name: *Callithamnion rupicola* Anderson

Former name: *Callophyllis firma* (Kylin) R.E. Norris
Current name: *Pugetia firma* Kylin

Harper, J.T., & Saunders, G.W. 2002b. Using molecular data to resolve the taxonomic limits of the genera *Callophyllis*, *Euthora* and *Pugetia* (Kallymeniaceae, Rhodophyta). *Phycological Research* 50: 275-282.

Former name: *Ceramium eatonianum* (Farlow) DeToni
Current name: *Corallophila eatoniana* (Farlow) T.O. Cho, Choi, Hansen & Boo

Cho, T.O., Choi, H.G., Hansen, G. & Boo, S.M. 2000. *Corallophila eatoniana* comb. nov. (Ceramiaceae, Rhodophyta) from the Pacific coast of North America. *Phycologia* 39: 323-331.

Former name: *Ceramium gracillimum* var. *byssoides* (Harvey) Mazoyer
Current name: *Ceramium flaccidum* (Kützing) Ardisson

Stewart, J.G. 1989. Notes on marine algae of San Diego County including merger of *Murrayellopsis* with *Veleroa*. *Bulletin of the Southern California Academy of Science* 88:103-116.

Former name: *Ceramium taylorii* Dawson
Current name: *Ceramium flaccidum* (Kützing) Ardisson

Stewart, J.G. 1989. Notes on marine algae of San Diego County including merger of *Murrayellopsis* with *Veleroa*. *Bulletin of the Southern California Academy of Science* 88:103-116.

Former name: *Chondria californica* (Collins) Kylin
Current name: *Chondria acrorhizophora* Setchell & Gardner

Silva, P.C. 1991. Notes on the type of specimens of red algal parasites described from California by W.A. Setchell. *Taxon* 40: 463-470.

Former name: *Choreocolax polysiphoniae* Reinsch
Current name: *Leachiella pacifica* Kugrens

Kugrens, P. 1982. *Leachiella pacifica*, gen. et sp. nov., a new parasitic red alga from Washington and California. *American Journal of Botany* 69: 306-319.

Former name: *Coeloseira compressa* Hollenberg
Current name: *Gastroclonium compressum* (Hollenberg) Chang & Xi

Chang, C.F. & Xia, B.M. 1978. A new species of *Gastroclonium* from the Xisha Islands, Guangdong Province, China. *Oceanol. Limnol. Sin.* 9: 209-214.

Former name: *Coeloseira parva* Hollenberg
Current name: *Gastroclonium parvum* (Hollenberg) Chang & Xi

Chang, C.F. & Xia, B.M. 1978. A new species of *Gastroclonium* from the Xisha Islands, Guangdong Province, China. *Oceanol. Limnol. Sin.* 9: 209-214.

Former name: *Corallina officinalis* var. *chilensis* (Decaisne) Kützing
Current name: *Corallina chilensis* Decaisne
P.C. Silva, personal communication

Former name: *Cruoria profunda* Dawson
Current name: *Opuntiella californica* (Farlow) Kylin

DeCew, T.C., West, J.A. & Silva, P.C. 1992. The life history and anatomy of *Opuntiella californica* (Gigartinales, Rhodophyceae). *Phycologia* 31: 462-469.

Former name: *Cruoriopsis aestuarii* Hollenberg
Current name: *Gloiosiphonia californica* (Farlow) J. Agardh

DeCew, T.C., West, J.A. & Ganesan, E.K. 1981. The life history and developmental morphology of two species of *Gloiosiphonia* (Rhodophyta: Cryptonemiales, Gloiosiphoniaceae) from the Pacific coast of North America. *Phycologia* 20: 415-423.

Former name: *Cryptonemia ovalifolia* Kylin
Current name: *Isabbottia ovalifolia* (Kylin) Balakrishnan

Balakrishnan, M.S. 1980. Taxonomic studies on U.S. Pacific Cryptonemiales I. Two new genera: *Isabbottia* and *Norriussia*. In: *Taxonomy of algae* (Desikachary, T.V. & Rao, V.N., eds.), pp. 273-286. University of Madras.

Former name: *Cryptopleura corallinara* (Nott) Gardner
Current name: *Cryptopleura peltata* (Montagne) Wynne

Wynne, M.J. 2001. The identity of Aspidophora Montagne (Delesseriaceae, Rhodophyta). *Cryptogamie, Algologie* 22: 285-295.

Former name: *Endocladia muricata* (Postels & Ruprecht) J. Agardh
Current name: *Endocladia muricata* (Endlicher) J. Agardh

Former name: *Erythrocladia subintegra* Rosenvinge
Current name: *Sahlingia subintegra* (Rosenvinge) Kornmann

Kornmann, P. 1989. Sahlingia nov. gen. based on Erythrocladia subintegra (Erythrociliidae, Rhodophyta). *British Phycological Journal* 24: 223-228.

Former name: *Erythrotrichia parksii* Gardner
Current name: *Erythrotrichia carnea* (Dillwyn) J. Agardh

Desikachary, T.V., Krishnamurthy, V. & Balakrishnan, M.S. 1990. Rhodophyta. II. Taxonomy part. Part IIA. Pp. vi + 279, 51 figs, XLII plates. Madras, India: Madras Science Foundation.

Former name: *Erythrotrichia porphyroides* Gardner
Current name: *Porphyrostromium boryanum* (Montagne) P.C. Silva

Silva, P.C., Basson, P.W. & Moe, R.L. 1996. Catalogue of the benthic marine algae of the Indian Ocean. University of California Publications in Botany 79: 1-1259.

Former name: *Erythrotrichia pulvinata* Gardner
Current name: *Erythrotrichia carnea* (Dillwyn) J. Agardh

Brodie, J. & Irvine, L.M. 2003. Seaweeds of the British Isles. Volume 1. Rhodophyta. Part 3B. Bangiophycidae. Pp. xiii + 167 + map. Andover: Intercept.

Former name: *Erythrotrichia tetraseriata* Gardner
Current name: *Erythrotrichia carnea* (Dillwyn) J. Agardh

Desikachary, T.V., Krishnamurthy, V. & Balakrishnan, M.S. 1990. Rhodophyta. II. Taxonomy part. Part IIA. Pp. vi + 279, 51 figs, XLII plates. Madras, India: Madras Science Foundation.

Former name: *Farlowia compressa* J. Agardh
Current name: retained rather than merged with F. mollis

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Former name: *Fauchea frysiana* Setchell
Current name: *Gloiocladia frysiana* (Setchell) Sánchez & Rodríguez-Prieto

Rodríguez-Prieto, C., Freshwater, D.W., & Sánchez, N. 2007. Vegetative and reproductive morphology of Gloiocladia repens (C. Agardh) Sánchez & Rodríguez-Prieto comb. nov. (Rhodymeniales, Rhodophyta), with a taxonomic re-assessment of the genera Fauchea and Gloiocladia. *European Journal of Phycology* 42: 145-162.

Former name: *Fauchea galapagensis* Taylor
Current name: *Gloiocladia galapagensis* (Taylor) Sánchez & Rodríguez-Prieto

Rodríguez-Prieto, C., Freshwater, D.W., & Sánchez, N. 2007. Vegetative and reproductive morphology of Gloiocladia repens (C. Agardh) Sánchez & Rodríguez-Prieto comb. nov. (Rhodymeniales, Rhodophyta), with a taxonomic re-assessment of the genera Fauchea and Gloiocladia. *European Journal of Phycology* 42: 145-162.

Former name: *Fauchea laciniata* J. Agardh
Current name: *Gloiocladia laciniata* (J. Agardh) Sánchez & Rodríguez-Prieto

Rodríguez-Prieto, C., Freshwater, D.W., & Sánchez, N. 2007. Vegetative and reproductive morphology of Gloiocladia repens (C. Agardh) Sánchez & Rodríguez-Prieto comb. nov. (Rhodymeniales, Rhodophyta), with a taxonomic re-assessment of the genera Fauchea and Gloiocladia. *European Journal of Phycology* 42: 145-162.

Former name: *Gastroclonium coulteri* (Harvey) Kylin
Current name: *Gastroclonium subarticulatum* (Turner) Kützing

Scagel, R.F., Gabrielson, P.W., Garbary, D.J., Golden, L., Hawkes, M.W., Lindstrom, S.C., Oliveira, J.C. & Widdowson, T.B. 1989. A synopsis of the benthic marine algae of British Columbia, southeast Alaska, Washington and Oregon. *Phycological Contributions, University of British Columbia* 3: vi + 532.

Former name: *Gigartina agardhii* Setchell & Gardner
Current name: *Mastocarpus jardinii* (J. Agardh) West

Guiry, M.D., West, J.A., Kim, D.H. & Masuda, M. 1984. Reinstatement of the genus *Mastocarpus* Kützing (Rhodophyta). *Taxon* 33: 53-63.

Former name: *Gigartina canaliculata* Harvey

Current name: *Chondracanthus canaliculatus* (Harvey) Guiry

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

Former name: *Gigartina corymbifera* (Kützing) J. Agardh

Current name: *Chondracanthus corymbiferus* (Kützing) Guiry

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

Former name: *Gigartina exasperata* Harvey & Bailey

Current name: *Chondracanthus exasperatus* (Harvey & Bailey) Hughey

Hughey, J.R. Dudash, R. & Kjeldsen, C.K. 1996. A field and molecular systematic study on species of Chondracanthus (Gigartinales, Rhodophyceae) from Pacific North America. *Journal of Phycology* 32: 22-23.

Former name: *Gigartina harveyana* (Kützing) Setchell & Gardner

Current name: *Chondracanthus harveyanus* (Kützing) Guiry

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

Former name: *Gigartina leptorhynchos* J. Agardh

Current name: *Mazzaella leptorhynchos* (J. Agardh) Leister

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

Former name: *Gigartina papillata* (C. Agardh) J. Agardh

Current name: *Mastocarpus papillatus* (C. Agardh) Kützing

Guiry, M.D., West, J.A., Kim, D.H. & Masuda, M. 1984. Reinstatement of the genus *Mastocarpus* Kützing (Rhodophyta). *Taxon* 33: 53-63.

Former name: *Gigartina spinosa* (Kützing) Harvey

Current name: *Chondracanthus spinosus* (Kützing) Guiry

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

Former name: *Gigartina tepida* Hollenberg

Current name: *Chondracanthus tepidus* (Hollenberg) Guiry

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

Former name: *Gigartina volans* (C. Agardh) J. Agardh

Current name: *Mazzaella volans* (C. Agardh) Fredericq

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

Former name: *Gloiosiphonia capillaris* (Hudson) Berkeley

Current name: *Gloiosiphonia californica* (Farlow) J. Agardh

DeCew, T.C., West, J.A. & Ganesan, E.K. 1981. The life history and developmental morphology of two species of *Gloiosiphonia* (Rhodophyta: Cryptonemiales, Gloiosiphoniaceae) from the Pacific coast of North America. *Phycologia* 20: 415-423.

Former name: *Goniotrichum alsidii* (Zanardini) Howe

Current name: *Stylonema alsidii* (Zanardini) Drew

Drew, K.M. 1956. *Confervula ceramicola* Lyngbye. *Botanisk Tidsskrift* 53: 67-74.

Former name: *Goniotrichum cornu-cervi* (Reinsch) Hauck

Current name: *Stylonema cornu-cervi* Reinsch

Brodie, J. & Irvine, L.M. 2003. *Seaweeds of the British Isles. Volume 1. Rhodophyta. Part 3B. Bangiophycidae.* Pp. xiii + 167 + map. Andover: Intercept.

Former name: *Gracilaria andersonii* (Grunow) Kylin

Current name: *Gracilaria papenfussii* Abbott

Abbott, I.A. 1983. Some species of *Gracilaria* from California. *Taxon* 32(4): 561-564.

Former name: *Gracilaria sjoestedtii* (Kylin) Farlow

Current name: *Gracilariaopsis andersonii* (Grunow) Dawson

Abbott, I.A. 1983. Some species of *Gracilaria* from California. *Taxon* 32(4): 561-564.

Gurgel, C.F., L.M. Liao, S. Fredericq, & M.H. Hommersand. 2003. Systematics of *Gracilariaopsis* (Gracilariales, Rhodophyta) based on rbcL sequence analyses and morphological evidence. *Journal of Phycology* 39:154-171.

Former name: *Gracilaria veleroae* Dawson

Current name: *Gracilaria mammillaris* (Montagne) Howe

Abbott, I.A. 1995. A decade of species of *Gracilaria* (sensu lato). In: *Taxonomy of Economic Seaweeds*. (Abbott, I.A., ed.) Vol. 5, pp. 185-195. La Jolla, California: California Sea Grant College System.

Former name: *Gracilaria verrucosa* (Hudson) Papenfuss

Current name: *Gracilaria pacifica* Abbott

Abbott, I.A. 1985. New species of *Gracilaria* Grev. (Gracilariaeae, Rhodophyta) from California and Hawaii. In *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean species* (Abbott, I.A. & Norris, J.N., eds.), California Sea Grant College Program, pp. 115-121.

Former name: *Grateloupia doryphora* (Montagne) Howe

Current name: *Grateloupia californica* Kylin

Gavio, B. & Fredericq, S. 2002. *Grateloupia turuturu* (Halymeniaceae, Rhodophyta) is the correct name of the non-native species in the Atlantic known as *Grateloupia doryphora*. *European Journal of Phycology* 37: 349-360.

Former name: *Grateloupia setchellii* Kylin

Current name: *Norrissia setchellii* (Kylin) Balakrishnan

Balakrishnan, M.S. 1980. Taxonomic studies on U.S. Pacific Cryptonemiaceae I. Two new genera: *Isabbottia* and *Norrissia*. In: *Taxonomy of algae* (Desikachary, T.V. & Rao, V.N., eds.), pp. 273-286. University of Madras.

Former name: *Griffithsia furcellata* J. Agardh

Current name: *Anotrichium furcellatum* (J. Agardh) Baldock

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Current name: *Ahnfeltiopsis leptophylla* (J. Agardh) P.C. Silva & DeCew

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Current name: *Ahnfeltiopsis linearis* (C. Agardh) P.C. Silva & DeCew

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Former name: *Gymnogongrus platyphyllus* Gardner

Current name: *Gymnogongrus chiton* (Howe) P.C. Silva & DeCew

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Current name: *Gymnothamnion elegans* (Schousboe ex C. Agardh) J. Agardh

Former name: *Haematocelis rubens* J. Agardh

Current name: *Schizymenia pacifica* (Kylin) Kylin

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Current name: *Halipylon roseum* (Lamarck) Garbary & Johansen

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Current name: *Herposiphonia plumula* (J. Agardh) Falkenberg

Former name: *Herposiphonia tenella* f. *secunda* (C. Agardh) Hollenberg
Current name: *Herposiphonia secunda* (C. Agardh) Ambronn

Silva, P.C., Basson, P.W. & Moe, R.L. 1996. Catalogue of the benthic marine algae of the Indian Ocean. University of California Publications in Botany 79: 1-1259.

Former name: *Heteroderma nicolsii* Setchell & Mason
Current name: *Pneophyllum nicolsii* (Setchell & Mason) P.C. Silva & Gabrielson

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Current name: *Heterosiphonia densiuscula* Kylin

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Current name: *Hildenbrandia rubra* (Sommerfelt) Meneghini

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Current name: *Loranthophycus californicus* Dawson

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Current name: *Pseudolithophyllum decipiens* (Foslie) Steneck & Paine

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Current name: *Hymenena setchelli* Gardner

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Current name: *Mazzaella splendens* (Setchell & Gardner) Fredericq

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Current name: *Mazzaella splendens* (Setchell & Gardner) Fredericq

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Current name: *Mazzaella parksii* (Setchell & Gardner) Hughey, Silva & Hommersand

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Current name: *Mazzaella flaccida* (Setchell & Gardner) Fredericq

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). *Proceedings of the International Seaweed Symposium*: 105-120.

Former name: *Iridaea heterocarpa* Postels & Ruprecht
Current name: *Mazzaella oregonia* (Doty) Hughey, P.C. Silva & Hommersand

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Current name: *Mazzaella linearis* (Setchell & Gardner) Fredericq

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Current name: *Mazzaella sanguinea* (Setchell & Gardner) Hommersand

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Current name: *Jania verrucosa* Lamouroux

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Current name: *Jantinella verruciformis* (Setchell & McFadden) Kylin

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Current name: *Kallymeniopsis oblongifructa* (Setchell) Hansen

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Current name: *Acrochaetium rosulatum* (Rosenvinge) Papenfuss

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Current name: *Osmundea crispa* (Hollenberg) Nam

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Current name: *Osmundea sinicola* (Setchell & Gardner) Nam

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Current name: *Laurencia snyderae* Dawson

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Current name: *Osmundea spectabilis* var. *spectabilis* (Postels & Ruprecht) Nam

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Current name: *Osmundea spectabilis* var. *diegoensis* (Dawson) Nam

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Current name: *Osmundea splendens* (Hollenberg) Nam

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Former name: *Lithophyllum lichenare* Mason

Current name: *Pseudolithophyllum muricatum* (Foslie) Steneck & Paine

Steneck, R.S. & Paine, R.T. 1986. Ecological and taxonomic studies of shallow-water encrusting Corallinaceae (Rhodophyta) of the boreal northeastern Pacific. *Phycologia* 25: 221-240.

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Current name: *Lithothamnion Philippi*

Former name: *Lithothamnion aculeiferum* Mason

Current name: *Mesophyllum crassiusculum* (Foslie) Lebednik

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Current name: *Leptophytum microsporum* (Foslie) Athanasiadis & Adey

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Current name: *Nemalion elminthoides* (Vellely) Batters

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Current name: *Sarcodiotheca gaudichaudii* (Montagne) Gabrielson

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Current name: *Clathromorphum reclinatum* (Foslie) Adey

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Current name: *Neorhodomela oregonae* (Doty) Masuda

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Current name: *Mastocarpus papillatus* (C. Agardh) Kützing

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Former name: *Petrocelis haematis* Hollenberg

Current name: *Erythrodermis haematis* (Hollenberg) Denizot

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Current name: *Peyssonnelia*

Former name: *Peyssonnelia rubra* var. *orientalis* Weber-van Bosse

Current name: *Peyssonnelia orientalis* (Weber-van Bosse) Cormaci & Furnari

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Former name: *Platythamnion heteromorphum* (J. Agardh) J. Agardh

Current name: *Pterothamnion heteromorphum* (J. Agardh) Athanasiadis & Kraft

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Former name: *Platythamnion pectinatum* Kylin

Current name: *Pterothamnion pectinatum* (Kylin) Athanasiadis & Kraft

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Former name: *Platythamnion recurvatum* Wollaston

Current name: *Pterothamnion recurvatum* (Wollaston) Athanasiadis & Kraft

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Former name: *Platythamnion villosum* Kylin

Current name: *Pterothamnion villosum* (Kylin) Athanasiadis & Kraft

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Saunders, G.W. & Lehmkuhl, V. 2005. Molecular divergence and morphological diversity among four cryptic species of *Plocamium* (Plocamiales, Florideophyceae) in northern Europe. European Journal of Phycology 40: 293-312.

Former name: *Pogonophorella californica* (J. Agardh) P.C. Silva

Current name: *Dasya binghamiae* Millar

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Former name: *Polysiphonia flaccidissima* Hollenberg

Current name: *Neosiphonia flaccidissima* (Hollenberg) M.S. Kim & I.K. Lee

Kim, M.S. & Lee, I.K. 1999. *Neosiphonia flavimarina* gen. et sp. nov. with a taxonomic reassessment of the genus *Polysiphonia* (Rhodomelaceae, Rhodophyta). *Phycological Research* 47: 271-281.

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Current name: *Neosiphonia tongatensis* (Harvey ex Kützing) M.S. Kim & I.K. Lee

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Current name: *Neosiphonia savatieri* (Hariot) M.S. Kim & I.K. Lee

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Former name: *Porphyrella gardneri* Smith & Hollenberg

Current name: *Porphyra gardneri* (Smith & Hollenberg) Hawkes

Hawkes, M.W. 1977. A field, culture and cytological study of *Porphyra gardneri* (Smith & Hollenberg) comb. nov. (= *Porphyrella gardneri* Smith & Hollenberg), (Bangiales, Rhodophyta). *Phycologia* 16: 457-469.

Former name: *Prionitis angusta* (Harvey) Okamura

Current name: *Prionitis linearis* Kylin

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Current name: *Prionitis lanceolata* (Harvey) Harvey

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Current name: *Prionitis sternbergii* (C. Agardh) J. Agardh

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Current name: *Scinaia confusa* (Setchell) Huisman

Huisman, J.M. 1985. The *Scinaia* assemblage (Galaxauraceae, Rhodophyta): a re-appraisal. *Phycologia* 24: 403-418.

Former name: *Pterocladia caloglossoides* (Howe) Dawson

Current name: *Pterocladiella caloglossoides* (Howe) Santelices

Santelices, B. 1998. Taxonomic review of the species of *Pterocladia*. *Journal of Applied Phycology* 10: 237-252.

Former name: *Pterocladia capillacea* (S.G. Gmelin) Bornet

Current name: *Pterocladiella capillacea* (S.G. Gmelin) Santelices & Hommersand

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Current name: *Pterosiphonia farlowii* Hollenberg

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Former name: *Pterosiphonia pennata* (C. Agardh) Falkenberg

Current name: *Pterosiphonia pennata* (C. Agardh) Sauvageau

Former name: *Rhodochorton concrescens* Drew

Current name: *Meiodiscus concrescens* (Drew) Gabrielson

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Former name: *Rhodoglossum affine* (Harvey) Kylin

Current name: *Mazzaella affinis* (Harvey) Fredericq

Hommersand, M.H., Guiry, M.D., Fredericq, S. & Leister, G.L. 1993. New perspectives in the taxonomy of the Gigartinaceae (Gigartinales, Rhodophyta). Proceedings of the International Seaweed Symposium: 105-120.

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Current name: *Mazzaella californica* (J. Agardh) DeToni f.

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Former name: *Rhodoglossum parvum* Smith & Hollenberg

Current name: *Mazzaella parva* (Smith & Hollenberg) Hughey, Silva, & Hommersand

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Former name: *Rhodoglossum roseum* (Kylin) Smith

Current name: *Mazzaella rosea* (Kylin) Fredericq

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Former name: *Rhodomela larix* (Turner) C. Agardh

Current name: *Neorhodomela larix* (Turner) Masuda

Masuda, M. 1982. A systematic study of the tribe Rhomaleae (Rhomelaceae, Rhodophyta). Journal of the Faculty of Science, Hokkaido University, Series V (Botany) 12: 209-400.

Former name: *Rhodophysema elegans* (Crouan & Crouan) Batters

Current name: *Rhodophysema odonthaliae* Masuda & M. Ohta

Masuda, M. & Ohta, M. 1981. Taxonomy and life history of Rhodophysema odonthaliae sp. nov. (Rhodophyta). Japanese Journal of Phycology 29: 15-21.

Saunders, G.W., Maggs, C.A. & McLachlan, J.L. 1989. Life history variation in Rhodophysema elegans (Palmariales, Rhodophyta) from the North Atlantic and crustose Rhodophysema spp. from the North Pacific. Canadian Journal of Botany 67: 2857-2872.

Former name: *Rhodophysema elegans* var. *polystromatica* (Batters) Dixon

Current name: *Rhodophysema minus* Hollenberg & Abbott

Saunders, G.W., Maggs, C.A. & McLachlan, J.L. 1989. Life history variation in Rhodophysema elegans (Palmariales, Rhodophyta) from the North Atlantic and crustose Rhodophysema spp. from the North Pacific. Canadian Journal of Botany 67: 2857-2872.

Former name: *Rhodymenia californica* var. *attenuata* (Dawson) Dawson

Current name: *Rhodymenia californica* Kylin

Gabrielsson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Former name: *Rhodymenia hancockii* Dawson

Current name: *Rhodymenia arborescens* Dawson (in California)

Former name: *Rhodymenia lobata* Dawson

Current name: *Rhodymenia pacifica* Kylin

Gabrielsson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Former name: *Rhodymenia palmata* var. *mollis* Setchell & Gardner

Current name: *Palmaria mollis* (Setchell & Gardner) van der Meer & Bird

van der Meer, J.P. & Bird, C.J. 1985. Palmaria mollis stat. nov.: a newly recognized species of Palmaria (Rhodophyceae) from the northeast Pacific coast. Canadian Journal of Botany 63: 398-403.

Former name: *Rhodymenia rhizoides* Dawson

Current name: *Rhodymenia pacifica* Kylin

Former name: *Schizymenia dawsonii* Abbott
Current name: *Sebdenia dawsonii* (Abbott) Hansen

Hansen, G.I. 1989. *Schizymenia dawsonii* and its relation to the genus *Sebdenia* (Sebdeniaceae, Rhodophyta). *Taxon* 38: 54-59.

Former name: *Schizymenia epiphytica* (Setchell & Lawson) Smith & Hollenberg
Current name: *Peyssonelliopsis epiphytica* Setchell & Lawson

Setchell, W.A. 1905. Parasitic Florideae of California. *Nuova Notarisia* 17: 59-63.
Smith, G.M. & Hollenberg, G.J. 1943. On some Rhodophyceae from the Monterey Peninsula, California. *American Journal of Botany* 30: 211-223.

Former name: *Stenogramme interrupta* (C. Agardh) Montagne
Current name: *Stenogramma interrupta* (C. Agardh) Montagne ex Harvey

Former name: *Tenarea ascripticia* (Foslie) Adey
Current name: *Lithophyllum pustulatum* (Lamouroux) Foslie f. *ascripticum* Foslie

Woelkerling, W.J. & Campbell, S.J. 1992. An account of the southern Australian species of *Lithophyllum* (Corallinaceae, Rhodophyta). *Bulletin of the British Museum (Natural History) Botany* 22: 1-107.

Former name: *Tenarea dispar* (Foslie) Adey
Current name: *Lithophyllum dispar* (Foslie) Foslie

Woelkerling, W.J. & Campbell, S.J. 1992. An account of the southern Australian species of *Lithophyllum* (Corallinaceae, Rhodophyta). *Bulletin of the British Museum (Natural History) Botany* 22: 1-107.

Former name: *Trailliella intricata* Batters
Current name: *Bonnemaisonia californica* Buffham

Former name: *Yamadaea melobesiooides* Segawa
Current name: *Yamadaea americana* E.Y. Dawson & R.L. Steele

Dawson, E.Y. & Steele, R.L. 1964. An eastern Pacific member of *Yamadaea* (Corallinaceae) from the San Juan Islands, Washington. *Nova Hedwigia* 8: 1-4.

Garbary, D.J., Johansen, H.W. & Scagel, R.F. 1981. Aspects of the morphology, ultrastructure and distribution of the two species of *Yamadaea* Segawa (Corallinaceae, Rhodophyta). *Japanese Journal of Phycology* 29: 7-13.

Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. *Phycological Contribution* 6: iv + 181.

New Descriptions or New Records for California

Green Algae

Codium dawsonii P.C. Silva ined.

Codium fragile subsp. *tomentosoides* (van Goor) P.C. Silva

Silva, P.C. 1979. The benthic algal flora of central San Francisco Bay. In: San Francisco Bay: the Urbanized Estuary. (Conomos, T.J., ed.), pp. 287-345. San Francisco: Pacific Division, American Association for the Advancement of Science.

Bryopsis spp.

Silva, P.C. 1979. The benthic algal flora of central San Francisco Bay. In: San Francisco Bay: the Urbanized Estuary. (Conomos, T.J., ed.), pp. 287-345. San Francisco: Pacific Division, American Association for the Advancement of Science.

Caulerpa taxifolia (Vahl) C. Agardh

Jousson, O., Pawlowski, J., Zaninetti, L., Zechman, F. W., Dini, F., Di Giuseppe, G., Woodfield, R., Millar, A., & Meinesz, A. 2000. Invasive alga reaches California. *Nature (London)* 408: 157-58.

Capsosiphon fulvescens (C. Agardh) Setchell & Gardner

Garbary, D.J., Golden, L. & Scagel, R.F. 1982. *Capsosiphon fulvescens* (Capsosiphonaceae, Chlorophyta) rediscovered in the northeast Pacific. *Sysis* 15: 39-42.

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Rosenvingiella radicans (Kützing) Rindi, McIvor & Guiry
In UC: Southeast Farallon Island (det. C. O'Kelly)

Rindi, F., McIvor, L. & Guiry, M.D. 2004. The Prasiolales (Chlorophyta) of Atlantic Europe: an assessment based on morphological, molecular, and ecological data, including the characterization of *Rosenvingiella radicans* (Kützing) comb. nov. Journal of Phycology 40: 977-997.

Ulothrix implexa (Kützing) Kützing

Lokhorst, G.M. 1978. Taxonomic studies on the marine and brackish-water species of *Ulothrix* (Ulotrichales, Chlorophyceae) in western Europe. Blumea 24: 191-299.
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In UC: Southeast Farallon Island (det. C. Tanner 1976)

Ulva tanneri Hayden & Waaland

Tanner, C.E. 1980. *Chloropelta* gen. nov., an ulvaceous green alga with a different type of development. Journal of Phycology 16: 128-137.
Hayden, H.S., Blomster, J., Maggs, C.A., Silva, P.C., Stanhope, M.J. & Waaland, J.R. 2003. Linnaeus was right all along: *Ulva* and *Enteromorpha* are not distinct genera. European Journal of Phycology 38: 277-294.

Ulva pertusa Kjellman

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Ulva pseudocurvata Koeman & Hoek

Hayden, H.S. & Waaland, J.R. 2004. A molecular systematic study of *Ulva* (Ulvaceae, Ulvales) from the northeast Pacific. Phycologia 43: 364-382.

Ulvaria splendens (Ruprecht) Vinogradova

In UC: Mendocino Co., Calif. (det. P.C. Silva)

Brown Algae

Cutleria cylindrica Okamura

Stewart, J.G. 1991. Marine algae and seagrasses of San Diego County. California Sea Grant College, University of California, La Jolla, Calif. Report No. T-CSGCP-020. Pp. 197.

Chilionema ocellatum (Kützing) Sauvageau

Stewart, J.G. 1991. Marine algae and seagrasses of San Diego County. California Sea Grant College, University of California, La Jolla, Calif. Report No. T-CSGCP-020. Pp. 197.

Dictyopteris catalinensis ined.

In UC: Channel Islands

Elachista nigra Takamatsu

Kitayama, T., Miller, K.A. & Silva, P.C. 2005. First record of *Elachista nigra* (Chordariales, Phaeophyceae) from California, North America. Bulletin of the National Science Museum, Tokyo, Ser. B, 31: 57-61.

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Silva, P.C. 1979. The benthic algal flora of central San Francisco Bay. In: San Francisco Bay: the Urbanized Estuary. (Conomos, T.J., ed.), pp. 287-345. San Francisco: Pacific Division, American Association for the Advancement of Science.

Fucus spiralis Linnaeus

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Laminaria cordata Dawson

Dawson, E.Y. 1950. Notes on Pacific coast marine algae, IV. *American Journal of Botany* 37: 149-158.
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Saccharina latissima (Linnaeus) Lane, Mayes, Druehl & G.W. Saunders

Scagel, R.F., Gabrielson, P.W., Garbary, D.J., Golden, L., Hawkes, M.W., Lindstrom, S.C., Oliveira, J.C. & Widdowson, T.B. 1989. A synopsis of the benthic marine algae of British Columbia, southeast Alaska, Washington and Oregon. *Phycological Contributions, University of British Columbia* 3: vi + 532.

Sargassum filicinum Harvey

Miller, K.A., Engle, J.M., Uwai, S., Kawai, H. 2007. First report of the Asian seaweed *Sargassum filicinum* Harvey (Fucales) in California, USA. *Biological Invasions* 9: 609-613.

Syringoderma phinneyi Henry

Henry, E.C. & Müller, D.G. 1983. Studies on the life history of *Syringoderma phinneyi* sp. nov. (Phaeophyceae). *Phycologia* 22: 387-393.

Undaria pinnatifida (Harvey) Suringar

Silva, P.C., Woodfield, R.A., Cohen, A.N., Harris, L.H., & Goddard, J.H.R. 2002. First report of the Asian kelp *Undaria pinnatifida* in the northeastern Pacific Ocean. *Biological Invasions* 4: 333-338.

Red Algae

Antithamnion tenuissimum Gardner

Stewart, J.G. 1991. Marine algae and seagrasses of San Diego County. California Sea Grant College, University of California, La Jolla, Calif. Report No. T-CSGCP-020. Pp. 197.

Apoglossum gregarium (Dawson) Wynne

Stewart, J.G. 1974. Phrix: a new genus in Delesseriaceae (Rhodophyta). *Phycologia* 13: 139-147.
Wynne, M.J. 1985. Taxonomic notes on some Delesseriaceae (Rhodophyta) occurring in southern California and Mexico. *Bulletin of the Southern California Academy of Sciences* 84: 164-171.

Asparagopsis armata Harvey

Ní Chualáin, F., Maggs, C.A., Saunders, G.W. & Guiry, M.D. 2004. The invasive genus *Asparagopsis* (Bonnemaisoniaceae, Rhodophyta): molecular systematics, morphology, and ecophysiology of Falkenbergia isolates. *Journal of Phycology* 40: 1112-1126.

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Aglaothamnion tenuissimum (Bonnemaison) Feldmann-Mazoyer

Josselyn, M.N. & West, J.A. 1985. The distribution and temporal dynamics of the estuarine macroalgal community of San Francisco Bay. *Hydrobiologia* 129: 139-152.

Callithamnion ramosissimum Gardner

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Caulacanthus ustulatus (Mertens ex Turner) Kützing

- Zuccarello, G.C., West, J.A., & Rueness, J. 2002. Phylogeography of the cosmopolitan red alga *Caulacanthus ustulatus* (Caulacanthaceae, Gigartinales). Phycological Research 50:163-172.
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Ceramium kondoi Yendo

- Cho, T.O., Boo, S.M. & Hansen, G.I. 2002. Structure and reproduction of the genus *Ceramium* (Ceramiales, Rhodophyta) from Oregon, USA. Phycologia 40: 547-571.

Ceramium interruptum Setchell & Gardner

- Cho, T.O., Fredericq, S., Murray, S.N. & Boo, S.M. 2003. New insights in the taxonomy of the *Ceramium sinicola* complex: resurrection of *C. interruptum* (Ceramiaceae, Rhodophyta). Journal of Phycology 39: 775-788.

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- Murray, S.N. & Littler, M.M. 1989. Seaweeds and seagrasses of southern California: distributional lists for twenty-one rocky intertidal sites. Bulletin of the Southern California Academy of Science 88: 61-79.

Chondracanthus armatus Hughey

- Hughey, J.R. Dudash, R. & Kjeldsen, C.K. 1996. A field and molecular systematic study on species of *Chondracanthus* (Gigartinales, Rhodophyceae) from Pacific North America. Journal of Phycology 32: 22-23.

Colaconema bonnemaisoniae Batters

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Colaconema gymnogongri (Setchell & Gardner) Gabrielson

- Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.
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Colaconema plumosum var. *variabile* (Drew) Gabrielson

- Gabrielson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Gelidium vagum Okamura

- Hughey, J.R., Kieldsen, C.K., Silva, P.C., Moe, R.L. & DeCew, T.C. 1996. Noteworthy collections. California. Madroño 43: 432.

Gracilaria vermiculophylla (Ohmi) Papenfuss

- Goff, L.J., Moon, D.A. & Coleman, A.W. 1994. Molecular delineation of species and species relationships in the red algal agarophytes *Gracilaria* and *Gracilaria* (Gracilariales). Journal of Phycology 30: 521-537.
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Athanasiadis, A. & Adey, W.H. 2006. The genus *Leptophytum* (Melobesioideae, Corallinales, Rhodophyta) on the Pacific coast of North America. *Phycologia* 45: 71-115.

Leptophytum julieae Athanasiadis & Adey

Athanasiadis, A. & Adey, W.H. 2006. The genus *Leptophytum* (Melobesioideae, Corallinales, Rhodophyta) on the Pacific coast of North America. *Phycologia* 45: 71-115.

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Athanasiadis, A. & Adey, W.H. 2006. The genus *Leptophytum* (Melobesioideae, Corallinales, Rhodophyta) on the Pacific coast of North America. *Phycologia* 45: 71-115.

Mazzaella coriacea (Dawson) Hughey

Hughey, J.R., Silva, P.C. & Hommersand, M.H. 2001. Solving taxonomic and nomenclatural problems in Pacific Gigartinaceae (Rhodophyta) using DNA from type material. *Journal of Phycology* 37: 1091-1109.

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Athanasiadis, A. 2007. Revision of Dawson's collections referred to *Lithothamnion lamellatum* (Melobesioideae, Corallinales, Rhodophyta). *Nova Hedwigia* 85: 195-242.

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Athanasiadis, A. 2007. Revision of Dawson's collections referred to *Lithothamnion lamellatum* (Melobesioideae, Corallinales, Rhodophyta). *Nova Hedwigia* 85: 195-242.

Minium parvum Moe

Moe, R.L. 1979. *Minium parvum* gen. et sp. nov., a crustose member of the Rhodymeniales (Rhodophyta). *Phycologia* 18: 38-46.

Neorhodomela oregona (Doty) Masuda

Masuda, M. 1982. A systematic study of the tribe Rhodomeleae (Rhodomelaceae, Rhodophyta). *Journal of the Faculty of Science, Hokkaido University, Series V (Botany)* 12: 209-400.

Neosiphonia harveyi (J. Bailey) M.S. Kim, Choi, Guiry & G.W. Saunders

Choi, H.G., Kim, M.S., Guiry, M.D. & Saunders, G.W. 2001. Phylogenetic relationships of *Polysiphonia* (Rhodomelaceae, Rhodophyta) and its relatives based on anatomical and nuclear small-subunit rDNA sequence data. *Canadian Journal of Botany* 79: 1465-1476.

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Palmaria hecatensis Hawkes

Lindstrom, S.C., Olsen, J.L. & Stam, W.T. 1996. Recent radiation of the Palmariaceae (Rhodophyta). *Journal of Phycology* 32: 457-468.

Peyssonnelia pacifica Kylin

In UC: Southeast Farallon Island

Scagel, R.F., Gabrielson, P.W., Garbary, D.J., Golden, L., Hawkes, M.W., Lindstrom, S.C., Oliveira, J.C. & Widdowson, T.B. 1989. A synopsis of the benthic marine algae of British Columbia, southeast Alaska, Washington and Oregon. *Phycological Contributions, University of British Columbia* 3: vi + 532.

Phycodrys ovifolia (Kützing) Wynne

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Pikea pinnata Setchell

Maggs, C.A. & Ward, B.A. 1996. The genus Pikea (Dumontiaceae, Rhodophyta) in England and the north Pacific: comparative morphological, life history and molecular studies. Journal of Phycology 32: 176-193.

Pikea yoshizaki Maggs & Ward

Maggs, C.A. & Ward, B.A. 1996. The genus Pikea (Dumontiaceae, Rhodophyta) in England and the north Pacific: comparative morphological, life history and molecular studies. Journal of Phycology 32: 176-193.

Polyneuropsis stolonifera Wynne, McBride & West

Wynne, M.J., McBride, D.L. & West, J.A. 1973. Polyneuropsis stolonifera gen. et sp. nov. (Delesseriaceae, Rhodophyta) from the Pacific coast of North America. Sysis 6: 243-253.

Polysiphonia denudata (Dillwyn) Greville ex Harvey

Josselyn, M.N. & West, J.A. 1985. The distribution and temporal dynamics of the estuarine macroalgal community of San Francisco Bay. Hydrobiologia 129: 139-152.

Porphyra abbottiae Krishnamurthy

In UC: Trinidad, Humboldt County

Porphyra conwayae (Lindstrom & Cole) Lindstrom & Fredericq

Gabrielsson, P.W., Widdowson, T.B. & Lindstrom, S.C. 2004. Keys to the seaweeds and seagrasses of Oregon and California. Phycological Contribution 6: iv + 181.

Porphyra fucicola Krishnamurthy

Chadbom Creek, Mendocino County and Duxbury Reef, Marin County fide DeCew et al., Kjeldsen

Porphyra hiberna Lindstrom & Cole

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Silva, P.C. 1979. The benthic algal flora of central San Francisco Bay. In: San Francisco Bay: the Urbanized Estuary. (Conomos, T.J., ed.), pp. 287-345. San Francisco: Pacific Division, American Association for the Advancement of Science.

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Porphyra papenfussii Krishnamurthy

Abalone Beach, Humboldt County (DeCew et al., in HSC)

Porphyra pseudolanceolata Krishnamurthy

Humboldt County (DeCew et al., in HSC)

Stiller, J.W. & Waaland, J.D. 1996. *Porphyra rerediviva* sp. nov. (Rhodophyta): a new species from northeast Pacific saltmarshes. *Journal of Phycology* 32: 323-332.

Porphyra torta Krishnamurthy

Crescent City, Del Norte County; Shell Beach, Sonoma County (DeCew et al., Kjeldsen)

Schizymenia dubyi (Chauvin ex Duby) J. Agardh

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