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STUDY OF MARINE ALGAE

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BIBLIOGRAPHIC DATA USEFUL IN THE
STUDY OF MARINE ALGAE

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The following bibliographic and related data have been compiled for distribution to graduate students interested in marine algae and others to whom such information may be helpful.

References or lists are not complete in any of the categories into which this information is divided. An attempt has been made, however, to include most of the important items or sources. Suggestions for additions to any of these lists will be appreciated.

I. Local and Regional Floras and Monographs
Useful in Identification

The following list applies to the Atlantic coast of the United States and especially to the southeastern coast, West Indies, and Gulf of Mexico. Several Pacific coast floras have been included, however.

Unfortunately, the majority of these publications are out of print and rarely listed by used book dealers so that library copies must be relied upon.

Comments following some of the publications listed indicate the geographical application and opinion as to relative usefulness.

A. For Bluegreens

Bornet, E. and C. Flahault. 1886-88. Revision des Nostocacees heterocystées contenues dans les principaux herbiers de France, I-IV. Ann. Sci. Nat., Bot., ser. 7, 3:323-381, 4:343-373, 5:51-129, 7:177-262.

Desikachary, T. V. 1959. Cyanophyta. x + 686 pp., 139 pls. Indian Council of Agricultural Research, New Delhi.

This is a valuable new work on the bluegreen algae and, while it is concerned with the bluegreens of India, their remarkably wide distribution renders it a very useful means of identification and general reference to those of North America. Part I deals with morphology and ecology in general; Part II deals with taxonomy. There are keys to genera and species, descriptions, illustrations of every species treated, habitat notes or collection localities for each, and an extensive bibliography.

Since the author does not accept Drouet and Daily's (1956) "Revision of the coccoid Myxophyceae", the section dealing with

this group includes many invalid genera and species separated on the most trivial characters, from the viewpoint of those who follow Drouet and Daily's treatment.

Drouet, F. and W. A. Daily. 1956. Revision of the coccoid Myxophyceae. Butler Univ. Bot. Stud. 12:1-218, 377 figs.

Fan, K. C. 1956. Revision of Calothrix C. Agardh. Rev. Algol., new ser., 2(3): 154-178.

Frémy, P. 1929. Les Myxophycées de l'Afrique équatoriale française. Arch. Bot. Caen Mem. 3(2): 1-508, 362 textfigs.

Frémy, P. 1934. Cyanophycées des cotes d'Europe. Mem. Soc. Sci. Nat. Math. Cherbourg 41: 1-234, 66 pls.

Frémy, P. 1936. Marine algae from the Canary Islands. IV. Cyanophyceae. K. Danske Vidensk. Selsk., Biol. Meddel. 12(5): 1-43 9 textfigs.

Frémy, P. 1938. Cyanophycées marines des anciennes Antilles Danoises. Dansk Bot. Ark. 9(7): 1-46, 7 textfigs.

Geitler, L. 1930-31. Cyanophyceae. In L. Rabenhorst, Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz 14:1-464, 131 figs., Leipzig.

A basic reference for bluegreens from anywhere, with many illustrations.

Gomont, M. 1892. Monographie des Oscillariées. Ann. Sci. Nat., Bot., ser. 7, 15:263-368, 16: 91-264, 16 pls.

Koster, Josephine Th. 1960. Caribbean brackish and freshwater Cyanophyceae. Blumea 10(2):323-366.

Lindstedt, A. 1943. Die Flora marinen Cyanophyceen der schwedischen Westküste. 121 pp., 11 pls. Lund.

Newton, Lily. 1931. A handbook of British seaweeds. xiii + 478 pp., 270 textfigs. British Museum (Nat. Hist.), London.

Thuret, G. 1875. Essai de classification des Nostochinées. Ann. Sci. Nat., Bot., ser. 6, 1:372-382.

Tilden, Josephine E. 1910. Myxophyceae of North America and adjacent regions. (Title on cover: Minnesota Algae, Vol. I.) iv + 319 pp., 20 pls. Univ. Minn. Press.

A very useful reference. It contains keys, illustrations to almost all species listed, detailed descriptions and habitat records. Many of the coccoid species have been reduced to synonymy by Drouet and Daily's monograph. There are a few marine species (filamentous) known for the U. S. which are not listed in this work. Occasional in used book lists.

Umezaki, I. 1961. The marine blue-green algae of Japan. Mem. Coll. Agr., Kyoto Univ., No. 83, 149 pp. (Fisheries Series No. 8).

B. For Other Groups

Børgesen, F. 1913-20. The marine algae of the Danish West Indies. I. Chlorophyceae. Dansk Bot. Ark. 1(4):1-158, 126 textfigs., map, 1913; II. Phaeophyceae. ibid. 2(2):1-66, 44 textfigs., 1914; III. Rhodophyceae, ibid. 3 (a-f):1-498, 435 textfigs., 1916-20.

This is an excellent work with detailed descriptions and discussion of most species and many illustrations. It is very useful for Florida algae as well as for the West Indies and Caribbean Sea. Until 1958, it was available as separates from the publisher, but it is apparently out of print now except for Frémy's contribution, part IV (listed on p. 2).

Børgesen, F. 1925-30. Marine algae from the Canary Islands. I. Chlorophyceae. K. Danske Vidensk. Selsk., Biol. Meddel. 5(3): 1-123, 49 textfigs., 1925; II. Phaeophyceae. ibid. 6(2):1-112, 37 textfigs., 1926; III. Rhodophyceae, part 1, Bangiales and Nemalionales. ibid. 6(6):1-97, 49 textfigs., 1927; part 2, Cryptonemiales, Gigartinales and Rhodomeniales. ibid. 8(1): 1-97, 31 textfigs., 4 pls., 1929; part 3, Ceramiales. ibid. 9(1):1-159, 60 textfigs., 1930.

This work is very useful in the western North Atlantic and apparently still available from the publisher.

Collins, F. S. 1901. The algae of Jamaica. Proc. Amer. Acad. Arts and Sci. 37:231-270, 4 tabs.

A useful supplementary reference for algae of the general area.

Collins, F. S. 1909-18. The green algae of North America. Tufts Coll. Stud. 2(3):79-480, 18 pls., 1909. First Suppl. ibid. 3(2): 71-109, 2 pls., 1912; Second Suppl. ibid. 4(7):1-106, 3 pls., 1918. (Also issued as a separate both with and without the supplements. A photographic reprint from Stechert-Hafner has the pages numbered from 1 but the index refers to the original page numbers.)

This is a classic for both marine and fresh-water green algae, with excellent keys and descriptions. Out of print.

Collins, F. S. and A. B. Hervey. 1917. The algae of Bermuda. Proc. Amer. Acad. Arts and Sci. 53:3-195, 6 pls.

Contains useful keys. Out of print but occasionally available from a used book dealer.

Dawson, E. Y. 1949. Studies of northeast Pacific Gracilariaceae. Allan Hancock Found., Occas. Papers No. 7, 105 pp., 25 pls.

Dawson, E. Y. 1953. Marine red algae of Pacific Mexico, Bangiales to Corallinaceae, subfamily Corallioideae. Allan Hancock Pacific Exped. 17(1):1-240, 33 pls.

Dawson, E. Y. 1954. Marine algae of the Gulf of California. Allan Hancock Pacific Exped. 3(10): 189-454, pls. 31-77.

There is a good introductory section, descriptions, and many good illustrations, but no keys.

Farlow, W. G. 1881. The marine algae of New England. Rept. U. S. Comm. Fish and Fisheries for 1879, Appendix A-1:1-210. (Also issued as a separate.)

This early work on New England algae is still useful.

Feldmann-Mazoyer, G. 1940. Recherches sur les Cérarniacées de la Méditerranée occidentale. 510 + 3 pp., 191 textfigs., 4 pls. Imprimerie Minerva, Algiers.

Foslie, M. 1929. Contributions to a monograph of the Lithothamnia. H. Printz, editor. 60 pp., 75 pls., Trondheim.

Gepp, A. and E. S. Gepp. 1911. The Codiaceae of the Siboga Expedition. Siboga Exped. Monogr. No. 62 (livr. 58), 145 pp., 22 pls.

Hamel, G. 1924-36. Floridées de France, I-VII. Rev. Algol. 1:278-292, 427-457; 2:280-309; 3:99-158; 5:61-109; 9:85-140. (Part VII is by J. Feldmann and G. Hamel.)

Hamel, G. 1930-32. Chlorophycées des cotes françaises. Rev. Algol. 5:1-54, 381-430; 6:9-73.

Hamel, G. 1931-39. Phaeophycées de France. 432 pp., 1-xlvii, Paris.

These works of Hamel, published in sections, are often very useful when working with algae of the Atlantic coast of the United States.

Harvey, W. H. 1852-58. Nereis Boreali-Americana. I. Melanospermeae. Smithsonian Contrib. to Knowledge 3(4): 1-150, pls. 1-12, 1852; II. Rhodospermeae. *ibid.* 5(5):1-258, pls. 13-36, 1853; III. Chlorospermeae. *ibid.* 10(1): 1-140, pls. 37-50, 1858.

This work is a classic and contains original descriptions of some marine algae from both Atlantic and Pacific coasts of the United States. Most frequently available as separates, and listed by used book dealers fairly often.

Hillis, Llewellyn W. 1959. A revision of the genus Halimeda (Order Siphonales). Publ. Inst. Mar. Sci., Univ. Texas 6:321-403, 12 pls.

Howe, M. A. 1918. Algae, pp. 489-540. In N. L. Britton, Flora of Bermuda. New York.

While the Collins and Hervey work on Bermuda algae (1917) is more useful, this is a valuable companion reference. The book is out of print and hard to locate. Laurencia poitei and L. corallopsis are new combinations here.

Howe, M. A. 1920. Algae, pp. 553-618. In N. L. Britton and C. F. Millspaugh, The Bahama flora. New York.

Useful keys, no descriptions or illustrations. An important reference (like the one above) for Florida algae. The key to the genus Sargassum is of special value. Apparently the book is still available from the New York Botanical Garden.

Hoyt, W. D. 1920. Marine algae of Beaufort, N. C. and adjacent regions. Bull. U. S. Bureau of Fisheries 36(1917-18):367-556, 9 tabs., 47 textfigs., 36 pls. (Also issued as a separate.)

An excellent work on the algae of the middle Atlantic states and useful with Florida algae. An artificial key to the genera, separate species keys, descriptions, illustrations, and an informative introductory part are included. Out of print. Separates are scarce but the work is usually obtainable by purchasing volume 36 of the Bulletin from a used book dealer.

Huber, M. J. 1892. Contributions à la connaissance des Chaetophorées epiphytes et endophytes. Ann. Sci. Nat., Bot., ser. 7, 16: 265-359, pls. 8-18.

Humm, H. J. and R. L. Caylor. 1957. The summer marine flora of Mississippi Sound. Publ. Inst. Mar. Sci., Univ. Texas 4:228-264, 9 pls.

Humm, H. J. and Sylvia Earle Taylor. 1961. Marine Chlorophyta of the upper west coast of Florida. Bull. Mar. Sci. Gulf and Carib. 11(3):321-380. 17 figs.

The above two contain keys, descriptions and illustrations.

Kjellman, F. R. 1883. The algae of the Arctic Sea. K. Svenska Vetensk. Akad. Handl., ser. 4, 20(5):1-349. 31 pls.

The above is a classic work on arctic algae and contains some excellent illustrations.

Kjellman, F. R. 1900. Om Florides-slagtet Galaxaura, dess organografi och systematik. K. Svenska Vetensk. Akad. Handl., ser. 4, 33(1): 1-109, 20 pls.

Kützing, F. T. 1841. Über Ceramium Agardh. Linnaea 16:727-746.

Kylin, H. 1949. Die Chlorophyceen der schwedischen Westküste. Lunds Univ. Arsskr., N. F., Avd. 2, 45(4):1-79.

Kylin, H. 1956. Die Gattungen Rhodophyceen. xv + 673 pp. Gleerups, Lund.

Mason, Lucille R. 1953. The crustaceous coralline algae of the Pacific coast of the United States, Canada and Alaska. Univ. Calif. Publ. Bot. 26(4):313-390, 19 pls.

Mazé, H. and A. Schramm. 1870-77. Essai de classification des algues de la Guadeloupe. 2nd ed., xix + 283 pp. Basse-Terre, Guadeloupe.

This is a facsimile edition done in 1905 in Germany. The first edition of this work is very rare. Many of the algal names listed are synonyms and there are no keys, illustrations, or descriptions; hence it is of little use in identification, but it is a source of distribution data.

Rosenvinge, L. K. 1909-31. The marine algae of Denmark. I. Rhodophyceae. K. Danske Vidensk. Selsk. Skrifter, 7 Raekke, 7(1-4): 1-627. 72 figs., 2 pl., 2 maps.

Rosenvinge, L. K. and S. Lund. 1941. The marine algae of Denmark. II. Phaeophyceae. K. Danske Vidensk. Selsk., Biol. Skr. 1(4): 1-79.

Sauvageau, C. 1901. Remarques sur les Sphacelariacées, IX and X. Jour. de Bot. 15:231-236, 368-380.

Setchell, W. A. and N. L. Gardner. 1903. Algae of northwestern America. Univ. Calif. Publ. Bot. 1:165-418, pls. 17-27.

Many new species are described.

Setchell, W. A. and N. L. Gardner. 1919-25. Marine algae of the Pacific coast of North America. Univ. Calif. Publ. Bot. 8(1): 1-138, 1919; 8(2):139-374, 1920; 8(3):383-898, 1925.

Silva, P. C. 1960. Codium (Chlorophyta) of the tropical western Atlantic. Nova Hedwigia 1(3-4):497-536, 17 pls.

This monograph renders obsolete all treatments of Codium from the area involved prior to 1960. Taylor (1960) bases his treatment on this paper.

Smith, G. M. 1944. Marine algae of the Monterey Peninsula. vii + 622 pp., 98 pls. Stanford Univ. Press.

A most useful reference for California algae and a book that sets a new standard of excellence in typography and quality of illustrations among publications on algae. Almost every species listed is illustrated.

Suneson, S. 1943. The structure, life-history and taxonomy of the Swedish Corallinaceae. Lunds Univ. Arsskr., N. F., Avd. 2, 39(9):1-65, 26 textfigs., 9 pls.

Taylor, W. R. 1928. The marine algae of Florida, with special reference to the Dry Tortugas. Carnegie Inst. Wash. Publ. 379; Papers from the Tortugas Lab. 25:1-219, 3 textfigs., 8 tabs., 37 pls.

Although the author's collecting was confined mostly to the Tortugas, he included nearly all algae reported for Florida in the literature. The descriptions are brief and cryptic but there are useful keys and many illustrations.

Taylor, W. R. 1929. Notes on the marine algae of Florida. Bull. Torrey Bot. Club 56:199-210, 2 figs.

This is a supplement to the 1928 paper and lists a number of species reported in the literature but omitted from the above.

Taylor, W. R. 1942. Caribbean marine algae of the Allan Hancock Expedition, 1939. Allan Hancock Atlantic Exped., Rept. No. 2, 193 pp., 20 pls.

This paper is based upon spotty collecting in the Caribbean, as the expedition permitted. The inclusion of keys suggests that it is a representative flora of the area, which is hardly the case. The keys are useful, however, and the book is a valuable companion reference to the Florida work of 1928. Out of print.

Taylor, W. R. 1945. Pacific marine algae of the Allan Hancock Expeditions to the Galapagos Islands. Allan Hancock Pacific Exped. 12, iv + 528 pp., 100 pls.

Useful in determinations of tropical Pacific algae and, in some genera, for Atlantic algae also. Many keys and illustrations.

Taylor, W. R. 1957. Marine algae of the northeastern coast of North America. 2nd ed. ix + 509 pp., 60 pls. Univ. Mich. Press, Ann Arbor. (1st ed., 1937).

The most useful reference for identification of the marine algae of the region from Norfolk to Labrador. It is also a help for the middle Atlantic coast of the U. S., and to a limited extent in Florida. The keys, descriptions, illustrations are excellent.

Taylor, W. R. 1960. Marine algae of the eastern tropical and subtropical coasts of the Americas. ix + 870 pp., 30 pls. Univ. Mich. Press, Ann Arbor.

Vickers, Anna and Mary Helen Shaw. 1908. Phycologia Barbadosensis. 44 pp., 93 pls. Paris.

These plates, in natural color, are among the most beautiful and realistic ever published of marine algae. The book was privately published under the supervision of Miss Shaw after the death of Anna Vickers and only 300 copies were done. Nevertheless it is often available through used book dealers, especially in Amsterdam, at \$15 to \$17. It deals only with browns and greens.

Weber-van Bosse, A. 1898. Monographie des Caulerpes. Ann. Jard. Bot. Buitenzorg 15:243-401, pls. 20-34.

Williams, L. G. 1948. Seasonal alternation of marine floras at Cape Lookout, North Carolina. Amer. Jour. Bot. 35:682-695.

Though not written as an aid to identification, it adds considerably to the marine algal flora of N. C.

II. Classical Taxonomic Works

Agardh, C. A. 1822. Species algarum rite cognitae. Gryphiswaldiae.

Agardh, C. A. 1824. Systema algarum. xxxviii + 312 pp. Lund.

Agardh, J. G. 1848-1901. Species, genera, et ordines algarum. Lund. (No Chlorophyceae).

Agardh, J. G. 1872-90. Till algernes systematik. Published in sections in Lunds Univ. Arsskr., vols. 9-26, and also as separates.

Greville, R. K. 1830. Algae Britannicae. lxxxviii + 218 pp., 19 pls. Edinburgh.

This work contains an excellent "Catalogue of Authors" on pages lxxiii-lxxxviii, a valuable bibliography of early algologists.

Harvey, W. H. 1846-51. Phycologica Britannica. In 3 vols. with 350 pls. London.

Kützing, F. T. 1843. Phycologia generalis. xxxii + 458 pp., 80 pls. Leipzig.

The plates come before the text. Explanation of the plates is in the Roman-numbered pages.

Kützing, F. T. 1849. Species algarum. vi + 922 pp. Leipzig.

Kützing, F. T. 1845-71. Tabulae phycologicae. Vols. 1-20, 1900 pls. Nordhausen.

A monumental work of algal illustrations.

Thuret, G. and E. Bornet. 1878. Etudes phycologiques. iii + 101 pp., 51 pls. Paris.

Superb illustrations in an over-size book.

III. Bibliographic References

Biological Abstracts, 1926-

Botanical Abstracts, 1918-26.

De Toni, J. B., *Bibliographica algologica universalis*.

Phycological Society Bulletin. (Bibliography of recent papers compiled by P. C. Silva).

Revue Algologique, 1924-

Tilden, Josephine. *Index algarum universalis*. Minneapolis, Minn., 1915-1936

IV. Algological Journals

While most papers in marine algae are published in journals of more general nature, the following are restricted to algae.

Botanica Marina, 1959-

International Seaweed Symposia, Proceedings, 1952-

Notarisia

Nova Hedwigia, 1960-

La Nuova Notarisia, 1890-1925.

Phycologia, 1961-

Phycological Memoirs, London, 1892-95.

Phycological Society Bulletin

Revue Algologique, 1924-

Scientific Papers, Institute for Algological Research, Hokkaido Imperial University, 1935-

V. Important Libraries for Marine Algological References

New York Botanical Garden

Farlow Herbarium, Harvard University

Marine Biological Laboratory, Woods Hole, Massachusetts

University of California, Berkeley

Library of Congress

U. S. Department of Agriculture
Philadelphia Academy of Natural Sciences
Duke University Biology Library
Lloyd Library, Cincinnati
John Crerar Library, Chicago

VI. Nomenclatural Starting Points

- Linnaeus. Species plantarum, 1872. (For all algae except the groups indicated below.)
- Gomont, M. Monographie des Oscillariées, 1892.
- Bornet and Flahault. Revision des Nostocacees heterocystées, 1886-88.
- Hirn, K. E. Monographie et iconographie des Oedogoniacées. Acta Soc. Sci. Fennica, 1900.
- Ralfs, J. The British Desmidaceae, London. 1848.

VII. Rules of Botanical Nomenclature

- Briquet, J. 1935. International rules of botanical nomenclature. Jena.
- Camp, W. H., H. W. Rickett and C. A. Weatherby. 1947. International rules of botanical nomenclature. Brittonia 6:1-120.

VIII. Used Book Dealers Who May Be a Source of Out-of-Print Books in Algae

- A. Asher & Co., 386 Heerengracht, Amsterdam-C, Holland
- F. N. Bassett, 722 N. Orange Drive, Los Angeles 38, California
- Botanical Books, 3066 Georgia Street, Oakland 2, California
- Bowes & Bowes, 1 and 2 Trinity Street, Cambridge, England
- E. J. Brill, Oude Rijn 33a-35, Leiden, Holland
- John Q. Burch, 4206 Halldale Avenue, Los Angeles 62, California
- Henry Cork, 73 Queenswood Road, Forest Hill, London S.E. 23, England
- J. Cramer, P.O. Box 166 Weinheim/Bergstr., Germany

Cromwell Bookshop, 142 High Street, Hounslow, Middlesex, England
Dulau's Dept., B. H. Blackwell, Ltd., 48-51 Broad Street, Oxford, England
Francis Edwards, Ltd., 83 Marlebone High Street, London W.1, England
Henry George Fiedler, 31--33 East 10th Street, New York 3, New York
Buchhandlung Gustav Fock, Sternwartenstrasse 8, Leipzig D 1, Germany
W. & G. Foyle, Ltd., 119 Charing Cross Road, London W. C. 2, England
R. S. Frampton, Walton House, 4 Warwick Gardens, Haringay, London
N.4, England
W. Heffer & Sons, Ltd., Petty Curry, Cambridge, England
Andr. Fred Høst & Son, Bredgade 35, Kobenhavn-K, Denmark
International Antiquariaat (M. Hertzberger), Keizersgracht 610,
Amsterdam-C, Holland
John Johnson, Green Hill Farm, Bennington RFD 2, Vermont
Antiquariaat Junk (Dr. R. Schierenberg), Lochem, Holland
Koehlers Antiquarium, Leninstrasse 16, Leipzig C 1, Germany
Otto Koeltz, Koenigstein-Taurus, Heernwaldstrasse 6, W. Germany
Paul Lechevalier, 12, Rue de Tournon, Paris 6, France
Eric Lundberg, Laurel, Florida
Lynge & Son, Lovstraede 10, Kobenhaven-K, Denmark
Fred J. Pierce, Winthrop, Iowa
Bernard Quaritch, Ltd., 11 Grafton Street, New Bond Street, London W. 1,
England
Henry Sotheran, 2-5 Sackville Street, Piccadilly, London W. 1, England
Stechert-Hafner, Inc., 31 East 10th Street, New York 3, New York
Wheldon & Wesley, Ltd., Lytton Lodge, Codicote, nr. Hitchin, Herts.,
England