

A Handlist of Source Books on the History of Oceanography

Eric L. Mills

This is an updated version of a paper first published in *Earth Science History* 12 (1993), 2-4. The reference books and monographs following have been selected to aid teachers and beginning students of the history of oceanography. The list is based on two principles, either that the publications are readily available in major libraries, or that they have not been superseded as sources of information. The periodical literature is not included because of its extent. A good source of information on journal articles published between 1913 and 1975 is the *Isis* cumulative bibliography (ed. M. Whitrow and J. Neu); it is added to annually by the *Critical Bibliographies* accompanying the journal *Isis*.

1. Basic Texts

Deacon, Margaret. *Scientists and the Sea 1650-1900: A Study of Marine Science*. (Aldershot, Hampshire, Great Britain, Brookfield, Vermont: Ashgate, 2d ed., 1997), xl, 459.

McConnell, Anita. *No Sea Too Deep: The History of Oceanographic Instruments*. (Bristol: A. Hilger, 1982), ix + 162.

Mills, Eric L. *Biological Oceanography: An Early History, 1870-1960*. (Ithaca, NY: Cornell University Press, 1989), xviii, 378.

Schlee, Susan. *The Edge of an Unfamiliar World: A History of Oceanography*. (New York: E.P. Dutton, 1973), 398.

2. Symposium and Congress Proceedings

Colloque International sur l'histoire de la Biologie Marine. Les grandes Expéditions Scientifique et la Creation des Laboratoires Maritimes, Banyuls-sur-Mer, 2-6 Septembre 1963. 370 pp. *Vie et Milieu*, supplement 19 (1965).

Communications - Premier Congrès International d'histoire de l'Océanographie, Monaco. *Bulletin de l'Institut Océanographique*, Monaco, no. special 2, 3 (1966), xlii, 807.

Second International Congress on the History of Oceanography. Challenger Expedition Centenary; Edinburgh, September 12 to 20, 1972. *Proceedings-the Royal Society of Edinburgh*, Section B (Biology) 72, viii, 462; 73, viii, 435 (1972).

Sears, M.; Merriman, D., eds. *Oceanography: The Past*. (New York, Heidelberg, Berlin: Springer-Verlag, 1980), xx, 812.

3. Source Books

Deacon, George E.R. and Margaret B. Deacon, eds. *Modern Concepts of Oceanography*. (Stroudsburg, PA: Hutchinson Ross, Benchmark Papers in Geology 61, 1982), xiii, 385.

Deacon, Margaret B., ed. *Oceanography, Concepts and History*. (Stroudsburg, Pa: Dowden, Hutchinson & Ross, Benchmark Papers in Geology 35, 1978), xvii, 394.

Idyll, C.P., ed. *The Science of the Sea: A History of Oceanography*. (New York: T.Y. Crowell, 1969), ix, 280.

Kofoed, Charles Atwood. *The Biological Stations of Europe*. Bulletin, United States Bureau of Education 4 (1910), xiii + 360 pp

Lenz, Walter and Margaret Deacon, eds. *Ocean Sciences: Their History and Relation to Man: Proceedings of the 4th International Congress on the History of Oceanography, Hamburg, 23.-29. 9, 1987*. In: *Deutsche Hydrographische Zeitschrift Ergänzungsheft. Reihe B* (1990), nr. 22, xv, 603.

McConnell, Anita. *Historical Instruments in Oceanography: Background to the Oceanography Collection at the Science Museum*. (London: H.M.S.O., 1981), iv, 51.

Murray, John. "Historical Introduction," in *Report on the Scientific Results of the Voyage of H.M.S. Challenger during the years 1873-76; Narrative-Volume I, First Part*. (London: John Murray, 1885), xxxi-liv.

Murray, John. "A Brief Historical Review of Oceanographical Investigations," in John Murray, Johan Hjort, *The Depths of the Ocean*,. (London: Macmillan, 1912), 1-21.

Paffen, K. and Kortum, G. *Die Geographie des Merres. Disziplingeschichtliche Entwicklung seit 1650 und Heutiger Methodischer Stand*. *Kieler Geographische Schriften* 60 (1984), xiv, 293 pp.

Schott, Wolfgang. *Early German Oceanographic Institutions, Expeditions and Oceanographers*. (Hamburg: Deutsches Hydrographisches Institut, 1987), 50 .

Thomasson, E.M, ed. *Study of the Sea: The Development of Marine Research under the Auspices of the International Council for the Exploration of the Sea*. (Farnham: Fishing News Books, 1981), xiv, 253.

Vaughan, Thomas Wayland, et. al, eds. *International Aspects of Oceanography: Oceanographic Data and Provisions for Oceanographic Research*. (Washington, D.C.: National Academy of Sciences, 1937), xvii, 225.

4. Ships and Expeditions

Buen, Rafael de. *Liste Chronologique des Croisieres Oceanographiques*. (Venezia: C.

- Ferrari, Manuel pour les Observations Oceanographiques a la Mer-Commission Internationale pour l'Exploration Scientifique de la Mer Mediterranee 1, 1934), 73.
- Estok, Rita and Rosemary E. Boykin. A Union List of Oceanographic Expeditions including Results of Some Major Cruise Reports. (College Station, Texas: Texas A&M University Libraries, 1976), iii, 138.
- Ferrante, Ezio. Crociere e Relazioni di Viaggio dei Marinai Italiani nell'ottocento (1861-1900). Rivista Marittima 6 supplemento (1985), 95.
- Guberlet, Muriel L. Explorers of the Sea: Famous Oceanographic Expeditions. (New York: Ronald Press, 1964), v, 226.
- Krebs, B.N. Expedition Reports and Related Publications in the Library of the New Zealand Oceanographic Institute, DSIR Wellington. (Wellington: New Zealand Oceanographic Institute Miscellaneous Publication 87, 1961), 73.
- Nelson, Stewart B. Oceanographic Ships Fore and Aft. (Washington, DC: Office of the Oceanographers of the Navy, 1971), xvii, 240pp
- Reinke-Kunze, Christine. Den Meeren auf der Spur: Geschichte und Aufgaben der Deutschen Forschungsschiffe. (Herford, Federal Republic of Germany: Koehlers Verlags-gesellschaft MBH, 1986), 169.
- Rice, Anthony L. British Oceanographic Vessels, 1800-1950. (London: Ray Society, 1986), 193.
- Schlee, Susan. On Almost Any Wind: The Saga of the Oceanographic Research Vessel Atlantis. (Ithaca, NY: Cornell University Press, 1978), 301.
- Selected References to Literature on Marine Expeditions, 1700-1960. (Boston: G.K. Hall, Fisheries-Oceanography Library, University of Washington, 1972), iv, 517.
- Treadwell, T.K., D.S. Gorsline and R. West. History of the U.S. Academic Research Fleet and the Sources of Research Ships. UNOLS Fleet Improvement Committee Report. (College Station, Texas: Texas A& M University, 1988), 55.
- Wolff, J. Danske Edspeditioner Pa Verdenshavene = Danish Expeditions on the Seven Seas. (Copenhagen: Rhodos, 1967), 336.
- Wust, Georg. "The Major Deep-Sea Expeditions and Research Vessels, 1873-1960, A Contribution to the History of Oceanography," in Progress in Oceanography 2 (1964), 1-52.

5. Biography and Bibliography

Brush, Stephen G. And Helmut E. Landsburg, eds. *The History of Geophysics and Meteorology: An Annotated Bibliography*. (New York: Garland, 1984), xvi, 450.

Carpine-Lancre, Jacqueline. "Les Expéditions Oceanographique et la Publication de leurs Resultats (Etude Bibliographique)." *Bulletin Institute Oceanographie, Monaco*, (1968), Special 2, 651-664. [First International Congress on the History of Oceanography]

Charton, B. *The Facts on File Dictionary of Marine Science*. (New York: Facts on File, 1988).

Dunbar, G.S., comp. *The History of Modern Geography: An Annotated Bibliography of Selected Works*. (New York: Garland Publishing, 1990), xvi, 386.

Herdman, William A. *Founders of Oceanography and their Work: An Introduction to the Science of the Sea*. (London: E. Arnold, 1923) xii, 340.

Hurley, D.E. *Titles of Selected Scientific Periodicals and Expedition Reports Dealing with Marine Sciences. New Zealand and the Arctic*. (Wellington, New Zealand: Oceanographic Institute, Miscellaneous Publication 58, 1974), 45.

Laudan, Rachel, comp. *Histories of Science and Mathematics, 1700-1912: An Annotated Bibliography*. (New York: Garland Publishing, 1990).

Overmier, J.A., comp. *The History of Biology: A Selected, Annotated Bibliography*. (New York: Garland Publishing, 1989), xvii, 157.

Porter, Roy, comp. *The Earth Sciences: An Annotated Bibliography*. (New York, London: Garland, 1983), xix, 192.

Sarjeant, W. *Geologists and the History of Geology: An International Bibliography from the Origins to 1978*. 5 volumes. (London: Macmillan, 1980).

Sears, Mary, comp. *Oceanographic Index. Subject Compilation 1946-1971. Volumes 1-4 and supplement*. (Boston: G.K. Hall, 1972).

Watermann, B and O.J. Wrezinski. *Bibliographie zur Geschichte des Deutschen Meeresforschung. Chronologische Titelaufzählung (1557-1989)* (Hamburg: Deutsche Gesellschaft für Meeresforschung, Second Extended Edition, 1987), xiii, 248.

See also SCHOTT (1987) in Section 2 for biographies.

6. Institutions

Brandt, K. "Die Zoologischen Arbeiten der Kieler Kommission 1870-1920," in *Festschrift der Preussischen Kommission zur Wissenschaftliche Untersuchungen der Deutschen Meer zu Kiel aus Anlass ihres 50 Jahrgigen Bestehens*. (Kiel and Leipzig: Lipsius and

Tischer, 1921), 76-194.

Brattstrom, H. "The Biological Stations of the Bergens Museum and the University of Bergen 1892-1967," *Sarsia* 29 (1967), 7-80.

Burstyn, Harold L. "Reviving American Oceanography: Frank Likkie, Wickliffe Rose, and the Founding of Woods Hole Oceanographic Institution," in *Oceanography: The Past*, edited by Mary Sears and Daniel Merriman, (New York: Springer-Verlag, 1980), 57-66.

Dick, S.J. and L.E. Doggett, eds. *Sky with Ocean Joined: Proceedings of the Sesquicentennial Symposium of the U.S. Naval Observatory, December 5 and 8, 1980*. (Washington, D.C.: U.S. Naval Observatory, 1983), viii, 190.

Galtsoff, P.S. *The Story of the Bureau of Commercial Fisheries Biological Laboratory, Woods Hole, Massachusetts*. (Washington, D.C.: U.S. Department of the Interior, Fish and Wildlife Service. Bureau of Commercial Fisheries Circular 145, 1962), 121.

Johnstone, K. *The Aquatic Explorers: A History of the Fisheries Research Board of Canada*. (Toronto: University of Toronto Press, 1972), xv, 342.

Kofoed, Charles Atwood. *The Biological Stations of Europe*. *Bulletin, United States Bureau of Education* 4 (1910), xiii + 360 pp

Kortum, G. "Berlins Bedeutung für die Entwicklung der Geographischen Meereskunde. Das Vermächtnis der Georgenstrasse." *Berliner Geographische Studien* 25 (1987), 133-156.

Limburg, P.R. *Oceanographic Institutions: Science Studies the Sea*. (New York: Elsevier/Nelson Books, 1979), 265.

Lucas, C.E. "The Scottish Home Department's Laboratory in Aberdeen," *Proceedings of the Royal Society, Edinburgh*, B 66 (1956), 222-234.

Manning, Thomas G. *U.S. Coast Survey vs. Naval Hydrographic Office: A Nineteenth Century Rivalry in Science and Politics*. (Tuscaloosa: University of Alabama Press, 1988), xii, 202.

Marshall, S.M. *An Account of the Marine Station at Millport*, edited by J.A. Allen. (Millport: University Marine Biological Station, Millport, Isle of Cumbrae, Occasional Publication No. 4, 1987), v, 133.

Mawson, V., D.J. Tranter and A.F. Pearce, eds. *CSIRO at Sea: 50 Years of Marine Science*. (Hobart, Tasmania: Commonwealth Scientific and Industrial Research Organization, 1988), 216.

Metz, C.B., ed. "The Naples Zoological Station and the Marine Biological Laboratory: One Hundred Years of Biology," *Biological Bulletin* 168 supplement (1985), 1-207.

Pfeiffer, J.E. "The Office of Naval Research," *Scientific American* 180 (Feb. 1949), 11-15.

Pinsell, M.I. *150 Years of Service on the Seas: A Pictorial History of the U.S. Naval Oceanographic Office from 1830 to 1980. Volume 1, 1830-1946.* (Washington, D.C.: Department of the Navy, Oceanographic Office, 1981), x, 233.

Poulsen, E.M. *Kommissionen for Danmarks Fiskeri-og Havundersogelser 1902-1952. Skriften udgivne af Kommissionen for Danmarks Fiskeri-og Havundersogelser No. 14* (1952), 77.

Raitt, Helen and Beatrice Moulton. *Scripps Institution of Oceanography: First Fifty Years.* (San Diego, California: Ward Ritchie Press, 1967), xix, 217.

Revelle, Roger. "The Oceanographic and How it Grew," in *Oceanography: The Past*, edited by Mary Sears and Daniel Merriman. (New York, Heidelberg, Berlin: Springer-Verlag, 1980), 10-24.

Roll, H.U. *A Focus for Ocean Research: Intergovernmental and Oceanographic Commission, History, Functions and Achievements* (Paris: UNESCO, Intergovernmental Oceanographic Commission Technical Series 20, 1979), 64.

Sahrhage, D. "80 Jahre Deutsche Wissenschaftliche Kommission fur Meeresforschung." *Meeresforschung* 29 (1982), 197-207.

Schott, Wolfgang. *Early German Oceanographic Institutions, Expeditions and Oceanographers.* (Hamburg: Deutsches Hydrographisches Institut, 1987), 50 .

Shor, Elizabeth N. *Scripps Institution of Oceanography: Probing the Oceans 1936 to 1976.* (San Diego, California: Tofua Press, 1978), x, 502.

Southward, A.J. and E.K. Roberts. "One Hundred Years of Marine Research at Plymouth." *Journal of the Marine Biological Association of the United Kingdom* 67 (1987), 465-506.

Thomasson, E.M, ed. *Study of the Sea: The Development of Marine Research under the Auspices of the International Council for the Exploration of the Sea.* (Farnham: Fishing News Books, 198), xiv, 253.

Thompson, T.G. "The Oceanographic Laboratories of the University of Washington." *The Collecting Net X* (September 7, 1935), 1-8.

Vaughan, Thomas Wayland, et. al, eds. *International Aspects of Oceanography:*

Oceanographic Data and Provisions for Oceanographic Research. (Washington, D.C.: National Academy of Sciences, 1937), xvii, 225.

Went, A.E.J. "Seventy Years Agrowing: A History of the International Council for the Exploration of the Sea, 1902-1972." Conseil International pour l'Exploration de la Mer, Rapports et Proces-verbaux des Reunions 165 (1972), 1-252.

Wust, Georg, C. Hoffmann, C. Schlieper, K. Kandler, J. Krey and R. Jaeger. "Das Institut fur Meereskunde der Universitat Kiel nach seinem Wiederaufbau." Kieler Meeresforschungen 12 (1986), 127-153.