

BIBLIOGRAPHY ON THE HISTORY OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY

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SCOPE: Includes articles, theses, books, bibliographies and substantial published pieces describing the history of the Scripps Institution of Oceanography, its predecessor organizations, including the Marine Biological Association of San Diego and the Scripps Institution for Biological Research, and units closely associated with the Scripps Institution, such as the University of California Division of War Research (UCDWR). Also includes biographies concerning faculty, staff, founders, donors and other individuals associated with the Scripps Institution of Oceanography. Does not include newspaper articles.

Allen, W.E. "The Growth of a Marine Observatory," *International Review der Gesamten Hydrobiologie und Hydrographie* 39 (1939): 464-471.

Discusses the history of SIO pier and its use as a marine observatory.

Allen, W.E. "The Library of the Scripps Institution of Oceanography of the University of California," *Bindery Talk* 5 (1932): 65-66.

Brief discussion of the history of the SIO Library.

Allen, W.E. "The Scripps Institution Pier as a Marine Observatory," *Scientific Monthly* 37 (October 1933): 371-375.

AMSOC Committee. "Experimental Drilling in Deep Water at La Jolla and Guadalupe Sites," *National Academy of Sciences-National Research Council Publication* 914 (1961):183.

Describes experimental ocean drilling for Project Mohole. Roger Revelle, Walter Munk and other SIO scientists participated in drilling at these sites.

Anderson, Charles A., et al. "1940 E.W. Scripps Cruise to the Gulf of California." *The Geological Society of America, Memoir* 43 (August 1950):1-53.

Describes an SIO expedition to the Gulf of California.

Anderson, Nancy Scott. *An Improbable Venture: A History of the University of California, San Diego*. La Jolla: UCSD Press, 1993, 317 pages.

This history of UCSD begins with two chapters on the history of the Scripps Institution of Oceanography. Subsequent chapters include extensive discussion of the career of Roger Revelle and the contemporary history of SIO.

Arthur, Robert S.; Fox, Denis L.; Hubbs, Carl L.; and Raitt, Russell W. "George Francis McEwen." University of California: In Memoriam (July 1975): 91-93.

Biography of the first physical oceanographer at the Scripps Institution of Oceanography.

Baker, D. James. "The Oceans 50th Anniversary." *Oceanography* 5 (1992): 154-155.

Celebration of the 50th anniversary of the publication of the Sverdrup, Johnson and Fleming text, *The Oceans*.

Bascom, Willard N. *The Crest of the Wave: Adventures in Oceanography*. New York: Harper and Row, 1988, 318 pages.

Autobiography of Bascom which includes many references to the Scripps Institution and his association with John D. Isaacs and other Scripps scientists.

Bascom, Willard N. *A Hole in the Bottom of the Sea*. New York: Doubleday, 1961, 352 pages.

The story of Project Mohole. Includes descriptions of Scripps participation, and the participation of Scripps scientists, including Walter Munk, Roger Revelle and George Shor.

Bascom, Willard N. "John Dove Isaacs III, March 28, 1913-June 6, 1980," *Biographical Memoirs*. National Academy Press, Washington, D.C., 57 (1987):89-122.

Biography of Scripps scientist John Isaacs.

Bascom, Willard N. "Project Mohole." in *Symposium commemorating the 25th anniversary of the demonstration of the feasibility of deep ocean drilling, proceedings of a symposium, September 22, 1986*, Washington: National Academy of Sciences Press (1989):4-13.

Bascom, Willard N., and Revelle, Roger R. "Free-Diving: A New Exploratory Tool." *American Scientist* 41 (October 1953):624-627.

Explains oceanographic applications of SCUBA and

SCUBA use at the Scripps Institution of Oceanography

Basu, Janet Else. "Jerome Namias: Pioneering the Science of Forecasting." *Weatherwise*, 37 (August 1984):191-200.

Describes the early years of Namias' career as a meteorologist, especially his years as a student and colleague of Carl Gustav Rossby at MIT.

Bates, Charles C. "Utilization of Wave Forecasting in the Invasions of Normandy, Burma, and Japan," *Annals of the New York Academy of Sciences*, v. 51, pp 545-572 (May 1949).

Oceanographer Charles Bates writes this history of the development of wartime surf prediction methods and the application of these methods in allied landings in Europe and Asia. The work of Walter Munk and Harald Sverdrup is mentioned.

Bates, Charles C., and Fleming, Richard H. "Oceanography in the Hydrographic Office." *The Military Engineer*, 39 (1947):338-344.

A brief history of the U.S. Navy Hydrographic Office which emphasizes the scientific research undertaken by hydrographers and research sponsored by the Hydrographic Office. Mentions the relationship between the Hydrographic Office and oceanographic institutions including SIO, and research accomplishments of Scripps faculty including T. Wayland Vaughan, Walter Munk and Harald Sverdrup.

Bates, Charles C., and Fuller, John F. *America's Weather Warriors, 1814-1985*. Texas A&M University Press, 360p.

An "overview of meteorologists in uniform." It is a history of meteorological studies, observations, and applications undertaken by the American armed services with particular emphasis on World War II. The book includes a brief description of the Sverdrup-Munk wave forecasting techniques and Scripps training of military oceanographers during the war, D-Day sea and swell predictions, and mentions the work of Harald Sverdrup, Walter Munk Jerome Namias and other Scripps faculty, researchers and students.

Beardsley, Tim. "Profile: Dr. Greenhouse, Roger Revelle Started the World Thinking about Global Warming." *Scientific American*, v. 263, no. 6 (December 1990), pp. 33-36.

Brief biography of Roger Revelle written shortly before his death. Summarizes his accomplishments and his opinion on research in global warming, UCSD, American politics and education and the AAAS.

Behrman, Daniel. "Roger Revelle: A Practical Visionary." *Impact of Science on Society*, v. 39, no. 4 (Fall 1989), pp. 351-355.

Brief biography of Roger Revelle which concentrates on his contributions to research on the carbon cycle, global warming and international scientific cooperation.

Behrman, Daniel and Isaacs, John. *John Isaacs and His Oceans*. Washington, DC: American Geophysical Union ICSU Press, 1992, 230 pages.

Biography of the SIO oceanography written by science writer Daniel Behrman who interviewed Isaacs extensively before his death. Includes Isaacs' curriculum vitae, bibliography, and an index.

Benson, Andrew A. "Paving the Path." *Annual Review of Plant Biology* 53 (2002): 1-25

Scientific autobiography of the Scripps biologist.

Benson, Keith R. "Marine biology or Oceanography: Early American Developments in Marine Science on the West Coast." In: Rehbock, Philip F. and Keith R. Benson, *Oceanographic history: The Pacific and Beyond*. Seattle and London: University of Washington Press, 2002, 298-302.

Discussion of the west coast marine stations including San Diego Marine Biological Association of San Diego.

Benson, Keith R. "Why American Marine Stations? The Teaching Argument." *American Zoologist*, 28 (1988):7-14.

Benson explores the history of American marine stations including the Marine Biological Association of San Diego and finds that they present a new pedagogical approach for biology and that many of the stations were established to educate teachers of biology.

Benson, Keith R. "Summer Camp, Seaside Station and Marine Laboratory: Marine biology and its institutional identity." *Historical Studies in the Physical and Biological Sciences* 31 (2001):

11-18.

Scripps is mentioned in this broad study of American marine biological stations.

Berger, Wolfgang H. Frances Lawrence Parker (1906-2002) Micropaleontologist and Pioneer of Paleoceanography. *Comptes Rendus Palevol 1 Académie de Science, Paris*, (2002): 471-477.

Biography of Frances Parker, which discusses her Career by a micropaleontologist she trained at Scripps Institution of Oceanography.

Bernard, Robert J. "Ellen Browning Scripps, Woman of Vision." *Scripps College Bulletin*, 34 (October 1959), 11 pages.

A brief biography of Scripps Institution founder and donor Ellen Browning Scripps.

Bernard, Russell H., and Killworth, Peter D. "On the Social Structure of an Ocean-Going Research Vessel and Other Important Things." *Social Science Research*, 2 (August 1973):145-184.

A sociological analysis of the social structure of a research vessel, written while the authors were residing at the Scripps Institution and based on their experiences aboard R/V MELVILLE during Hypogene Expedition, March 1972.

Bernard, Russell H. "Scientists and Mariners at Sea." *Marine Technology Society Journal*, 10 (April 1976):21-30.

"We have been conducting some experiments to try and understand how information flows around in closed groups such as ships at sea." This article on scientific communication is based on the author's experiences on cruises on R/V MELVILLE and R/V THOMAS WASHINGTON, research vessels of the Scripps Institution of Oceanography.

Berra, Tim M. "A Chronology of the American Society of Ichthyologists and Herpetologists through 1982." *American Society of Ichthyologists and Herpetologists Special Publication No. 2*. Gainesville: American Society of Ichthyologists and Herpetologists, 1984.

This is a history of the ASIH in chronology form. It includes frequent references to Carl Leavitt Hubbs and his work as a member and officer of the ASIH.

"Biography of Dr. Roger Revelle," in A.D. Chaporkar, ed., We and the Ocean Nagpur, India: Maharashtra State Council of Educational Research and Training, State Institute of Science Education (1986):89-94.

Biography of Roger Randall Dougan Revelle.

Boltovskoy, E. "Glomar Challenger." Ciencia e Investigacion (Argentina), 28 (Noviembre-Diciembre 1972):376-397.

Describes the Deep Sea Drilling Project and R/V
GLOMAR CHALLENGER. In Spanish.

Booda, Larry L. "Dr. William A. Nierenberg: 'Intense,' 'Born Running.'" Sea Technology, 27 (May 1986):31.

A personality profile of William Aaron Nierenberg,
Scripps Director 1965-1986.

Booda, Larry L. "New Scripps Head Wants Broader Training for Oceanographers, Total Look at Ocean Field at National Level Needed." Sea Technology, 27 (August 1986):39-43.

Interview with Scripps Director Edward Allan Frieman.
Describes Frieman's career and his views on graduate
education in oceanography.

Booda, Larry L. "Research-But Emphasis on Education." Undersea Technology, 7 (May 1966):37-40.

A profile of the Scripps Institution of Oceanography
in 1966.

Booda, Larry L. "Scripps-Cramped but Bigger and More Diversified Than Ever." Sea Technology, 19 (February 1978):21,23,33.

A description of the Scripps Institution of
Oceanography, including the Deep Sea Drilling
Program, the work of Jerome Namias, and
descriptions of the curriculum and budget.

Booda, Larry L. "Two Long Range U.S. Winter Weather Forecasts Mainly Agree." Sea Technology, 24 (January 1983):55, 69.

Brief comparative discussion of 1982-1983 winter
weather forecasts made by Donald L. Gilman of
the National Weather Service and Jerome Namias of

the SIO Experimental Forecast Center.

Branton, Pamela. The Works Projects Administration in San Diego County, 1933-1943. San Diego State University, M.S. Thesis (1991).

Describes contributions of WPA workers to public institutions, including work done by WPA workers at the Scripps Institution of Oceanography.

Briggs, Peter. 100,000,000 Years Beneath the Sea. New York: Holt, Rinehart and Winston, 1971. 228p.

Describes D/V GLOMAR CHALLENGER during the early years of the Deep Sea Drilling Project. "This is the story of the ship, the men, their ideas, their evidence, and their cruises." Index.

Britt, Albert. Ellen Browning Scripps: Journalist and Idealist. Oxford: Printed for Scripps College at the University Press, (1960): 134.

Biography of Scripps Institution founder and philanthropist Ellen Browning Scripps.

Bronson, Earl D., and Glostén, Larry R. "FLIP: Floating Instrument Platform." SIO Reference No. 69-18, (September 1968):26 pages.

A detailed description of FLIP.

Brown, Joseph E. "Two Profiles: The Profane, Edward D. Goldberg." Oceanus 33 (Summer 1990):76-84.

Biography of Edward Goldberg.

Brownell, William A., MacFarlane, Jean Walter and Jones, Mary Cover. "Edna Watson Bailey, 1883-1973." University of California In Memoriam (March 1976):7-9.

An obituary of William E. Ritter's student, collaborator and literary executor.

Brush, Stephen G.; Landsberg, Helmut E.; with the assistance of Collins, Martin. The History of Geophysics and Meteorology: An Annotated Bibliography, New York & London: Garland Publishing, (1985):450p.

Includes a section on oceanography with many references to the Scripps Institution and Scripps scientists.

Bryan, G.S. "The Oceanographic Activities of the Hydrographic Office during June 1, 1944 to May 31, 1945." Transactions of the American Geophysical Union, 26 (October 1945): 319

This article discusses Roger Revelle's work at the U.S. Navy Hydrographic Office.

Bullard, Edward C. "Discussion of Revelle and Maxwell, 'Heat Flow through the Floor of the Eastern North Pacific Ocean,' Paper." Nature, 170 (1952): 200.

Discussion of the importance of the Revelle/Maxwell paper.

Bullard, Edward C. "The Emergence of Plate Tectonics: A Personal View." Annual Review of Earth and Planetary Science, 3 (1975):1-30.

This paper records Bullard's own views of the history of the acceptance of plate tectonics theory beginning in 1939. Includes a bibliography.

"The Bulletin Interviews: Dr. Jerome Namias." WMO Bulletin 37 (July 1988):157-169.

Namias discusses his education, relationship with Carl Gustav Rossby, and career at MIT, the U.S. Weather Bureau and SIO.

Bunton, William J. Death of an Aquanaut: A Vivid Memoir of Events that Triggered the Collapse of the U.S. Navy's Sealab Project. Hong Kong: Best Publishing Company, 2000, 69 pages.

Professional deep sea diver William J. Bunton, a participant in the U.S. Navy Sea Lab II and Sea Lab III projects, describes his experiences on Sea Lab II which was located in Scripps canyon, and Sea Lab III, off San Clemente Island.

Burlinson, Clyde W. Deep challenge!: The true epic story of our quest for energy beneath the sea. Houston, Texas: Gulf Publishing Co., c1999

This inside look at the marine drilling industry discusses the history of ocean drilling from Mohole to the Deep Sea Drilling Project.

Buzzati-Traverso, A.A. Perspectives in Marine Biology. Berkeley & Los Angeles: University of California Press, 1958, 621 pages.

Proceedings of a symposium of the same title held
at the Scripps Institution of Oceanography March
24-April 2, 1956.

Buzzati-Traverso, A.A., and Schmidt, W.H. "An Experiment in the Design of a Scientific Conference." *Experientia*, 14 (1958):231-233.

A discussion of the organization of the Perspectives
in Marine Biology Symposium held at the Scripps
Institution March 24-April 2, 1956.

Casserly, Jack. *Scripps: The Divided Dynasty*. New York: Donald I. Fine, 1993, 236 pages.

Biography of E.W. Scripps written by Casserly
in cooperation with EWS' grandson Edward Willis
Scripps and his wife Betty Knight Scripps
details family lawsuits and the contemporary
history of the family.

Cecil H. and Ida M. Green Foundation for Earth Sciences. [La Jolla, California: s.n., 1985] 66 pages.

Includes a history of the La Jolla Foundation
for Earth Sciences and describes the collaboration
of Cecil H. Green and Ida M. Green with the Institute of
Geophysics and Planetary Physics for the advancement
of earth sciences.

A Celebration of the Legacies of E.W. Scripps: His Life, Works and Heritage. Athens: Ohio University, 1990, 94 pages.

This publication includes addresses delivered at
a symposium held at Ohio University, Athens to
celebrate the donation of the E.W. Scripps Papers
to Alden Library, Ohio University, Athens. The
publication includes addresses on journalism,
E.W. Scripps' personal and professional life,
the Scripps Family and Scripps Howard.

Child, Charles Manning. "Francis Bertody Sumner." *Biographical memoirs of the National Academy of Sciences*, 25 (1948):147-173.

Biography of the first Scripps faculty member to
be elected to the National Academy of Sciences.

Clark, Eugenie. *Lady with A Spear*. New York: Harper & Brothers, 1951, 243 pages.

Biography of ichthyologist Eugenie Clark, which includes a description of her experiences as an assistant in ichthyology to Carl Hubbs at SIO 1946-1947.

Clark, Robert D. "Ralph Huestis: Teacher, Naturalist, Scholar, Administrator University of Oregon." Eugene: University of Oregon Foundation, 1982, 32pp.

Biography of Ralph Huestis, whose doctoral studies at SIO were supervised by Francis Bertody Sumner.

Clarkson, Edward Dessau. Ellen Browning Scripps: A Biography. La Jolla, California: Published by the Author, (1958):123p.

A biography of Ellen Browning Scripps written by one of her grandnephews.

Coates, Christopher W. "Planning a Public Aquarium." Parks and Recreation, 31 (1948):735-739.

A discussion of aquarium building planning which mentions SIO's Thomas Wayland Vaughan Aquarium Museum building.

Cochran, Negley D. E.W. Scripps. New York: Harcourt, Brace and Company, 1933, 315 pages.

A popular biography of E.W. Scripps. Indexed.

Coe, Wesley R. "Francis Bertody Sumner, August 1, 1879-September 6, 1947." Science, 102 (October 1945).

Obituary.

Coe, Wesley R. "The Scripps Institution of Oceanography of the University of California." American Journal of Science, 14 (September 1927): 237-239.

Describes the Scripps Institution and research conducted by its staff.

Cox, Donald W. Explorers of the Deep: Pioneer Oceanography. Maplewood, New Jersey: Hammond, 1968, 93.

Presents biographies of renowned oceanographers,

including Willard Bascom and Roger Revelle.

Crane, Kathleen. 2003. Sea legs: tales of a woman oceanographer. Boulder, Colorado: Westview Press, 318 pages.

Autobiography an oceanographer trained at Scripps
Including discussion obstacles in the way of her career
And that of other women oceanographers.

Cromwell, Townsend. "Eastropic Expedition: What it Seeks, and Where it Fits into Practical Industrial Fishing." Pacific Fisherman, (July 1956):25-29.

Discusses Scripps Institution Eastropic Expedition
and its importance to tuna fishermen.

Crowell, John C. Sea, Swell and Surf Forecasting Methods Employed for the Allied Invasion of Normandy, June 1944. University of California, Los Angeles, M.A. Thesis (Meteorology), (February 1946): 81 pages.

"For the Allied invasion of Normandy in June 1944, a Swell Forecast Section in London was organized by the weather service of the Royal Navy and the U.S. Army Air Forces to test, apply, and improve sea, swell, and surf forecasting methods. A summary and appraisal of the activities, investigations, and forecasts of this unit is herewith presented." The Normandy invasion forecast was based on sea and swell prediction methods developed by Harald Sverdrup and Walter Munk at the Scripps Institution. Two of the American officers assigned to surf prediction for the Normandy invasion were trained by Sverdrup, including the author of this thesis.

Cullen, Vicky. "The Research Fleet: The University National Oceanographic Laboratory System," Washington: National Science Foundation, 1983.

Discusses ships supported by the NSF, including
several Scripps ships.

Curry, Joseph R.; Inman, Douglas L.; and Winterer, Edward L. "Francis Parker Shepard, 1897-1985." University of California In Memoriam, (1986):278-280.

Brief biography of the Scripps marine geologist.

Dalton, Dora. 2002. "Robert Paine Scripps: Adventurer and Altruist." Scripps Institution of Oceanography Explorations 8, no. 4 (Spring 2002): 30-31.

A Scripps centennial biography of the son of E.W. Scripps and his support for the Scripps Institution.

Dammann, Tom. "Grandfather of the Greenhouse." San Diego Magazine (August 1989): 120-123 et seq.

Popular article on Revelle's work on global warming.

Daugherty, Charles Michael. *Searchers of the Sea: Pioneers in Oceanography*. New York: Viking Press, 1961, 160 pages.

A popular book containing brief biographies of oceanography, it includes a description of Harald Sverdrup's career and mentions his directorship of the Scripps Institution.

Day, Deborah. "Bergen West: Or how four Scandinavian geophysicists found a home in the New World." *Historisch-Meereskundliches Jahrbuch* 6 (1999): 69-82.

Discussed the transition of Scripps Institution from a biological station to an oceanographic institution, the resulting selection of Harald Sverdrup as Director in 1936 and his relationship with his Bergen Colleagues in America, Jacob Bjerknes, Jorgen Holmboe And Carl Gustaf Rossby during the 1940's.

Day, Deborah. "Resources for the Study of Oceanography at the Archives of the Scripps Institution of Oceanography." In: Rehbock, Philip F. and Keith R. Benson, *Oceanographic history: The Pacific and Beyond*. Seattle and London: University of Washington Press, 2002, 526-531.

Description of the Scripps Archives written in 1993
By the archivist for presentation at ICHO V conference.

Day, Deborah. "Scripps Benefactions: The Role of the Scripps Family in the Founding of the Scripps Institution of Oceanography." In: Rehbock, Philip F. and Keith R. Benson, *Oceanographic history: The Pacific and Beyond*. Seattle and London: University of Washington Press, 2002, 2-6.

Appraisal of the influence and financial contributions of The Scripps Family to the Scripps Institution of Oceanography.

Deacon, May. *The Descendants of William Armiger Scripps, 1798-1927*. Rushville: Illinois: Rushville Times Company, 1927, 8 pages.

This genealogy traces the Scripps family from William Armiger Scripps, a London bookseller through Scripps Institution founders E.W. Scripps and Ellen Browning Scripps, and E.W. Scripps' grandchildren.

"Dedicatory Addresses by David Starr Jordan, Daniel Trembly MacDougal, George Howard Parker and William Emerson Ritter." Bulletin of the Scripps Institution for Biological Research of the University of California, No. 1, (December 30, 1916):3-24.

These are the addresses given at the dedication of the Scripps Institution for Biological Research held August 9, 1916 to dedicate the new pier, library-museum building, and other structures given to the institution by Ellen Browning Scripps.

Devik, Olaf. "Minnetale Over Professor Harald U. Sverdrup." Det Norske Videnskaps-Akademi, Oslo, Arbok, (1958):24p.

Biography and full bibliography of Harald Sverdrup written by his colleague and fellow associate of the Bergen School. In Norwegian.

Dexter, Ralph W. History of American Marine Biology and Marine Biology Institutions. Introduction: Origins of American Marine Biology. American Zoologist 28 (1988): 3-6.

Brief article on the establishment of marine biology stations in America which includes a list of 50 stations.

Dietz, R.S. and Emery, K.O. "Early Days of Marine Geology." Oceanus, 19 (Summer 1976): 19-22.

Describes the authors' experiences as young graduate students studying marine biology with Francis Parker Shepard at the Scripps Institution of Oceanography from 1936-1941. Mentions cruises on R/V E.W. SCRIPPS.

Dietz, R.S. and Emery, K.O. "Portrait of a Scientist, Francis Shepard." Earth Science Reviews, 7 (February 1971): A9-A15.

A brief biography of submarine geologist Francis Parker Shepard by two of his students.

Dietz, Robert S.; Menard, Henry W.; and Hamilton, Edwin L. "Echograms of the Mid Pacific

Expedition." *Deep-Sea Research*, 1 (July 1954):258-272.

The introduction to this article briefly describes the 1950 University of California, Scripps Institution of Oceanography-U.S. Navy Electronics Laboratory Mid-Pacific Expedition.

Dinsmore, Robertson. "The University Fleet." *Oceanus*, 25 (Spring 1982):5-14.

Describes research vessels of American academic institutions, including those operated by the Scripps Institution.

Doel, Ronald E., 2003. *Constituting the Postwar Earth Sciences: The Military's Influence on the Environmental Sciences in the USA after 1945*. *Social Studies of Science* 33, no. 5 (October 2003): 635-666.

This broad study mentions oceanography as a case study in military funding of environmental sciences and mentions Scripps Institution.

Dorfman, Robert and Peter P. Rogers. *Science with a Human Face: In Honor of Roger Randall Revelle*. Boston: Harvard School of Public Health, 1997, 272 pages.

This is a festschrift for Roger Revelle held at Harvard in October 1992. The preface is Jerome Wiesner's account of how Revelle became interested in population problems. The book includes essays by Ed Goldberg and Walter Munk on earth sciences, and Paul Demeny on the impact of the "Revelle Report."

Downing, Michael B. "Profile: Willard Bascom, Explorer." *Oceanus*, 27 (Summer 1984): 63-67.

Brief biography of Scripps scientist Willard Bascom who left Scripps to direct Project Mohole at the National Science Foundation.

Eakin, Richard M. "History of Zoology at the University of California, Berkeley." *BIOS*, 27 (May 1956): 67-92.

Includes a section entitled "William E. Ritter and Marine Zoology," which discusses the early history of the Scripps Institution and Ritter's work as a young zoologist and student of Joseph LeConte at Berkeley.

Eckart, Carl. "Fundamental Studies of Underwater Sound." Chapter 8 of Office of Scientific Research and Development, National Defense Research Committee Division 6. A Survey of Subsurface Warfare in World War II, Washington, DC, (Summary Technical Report of Division 6, NDRC), 1 (1946):119-143.

Reviews pre-war knowledge of underwater sound and the wartime research needs of the U.S. Navy. Describes the development of NDRC contracts with Woods Hole and the development of the University of California Division of War Research (UCDWR). Describes wartime research accomplishments and applications, the continuation of underwater sound research after the war and the need for navy financial support.

Emery, K.O. and David A. Ross. "Past and Future Evolution of Marine Geology." In: From Shoreline to Abyss, Society for Sedimentary Geology Special Publication 46 (1991):11-14.

General statement on the development of marine geology beginning with the 1920's and the career of Francis Parker Shepard.

Engel, Celeste G. 1987. Rocks in My Head. New York: Vantage Press, 203 pages.

Autobiography of the marine geologist who spent part of her career at Scripps Institution.

"Eric Gustaf Moberg (1891-1963)," in: History of the Western Society of Naturalists, edited by Michael S. Foster, Gayle I. Hansen and Yost U.L. Amrein. Santa Barbara, California: Santa Barbara Museum of Natural History Contributions in Science 2, 1999, 17-18.

The only biography of Moberg, SIO's chemical oceanographer and the person responsible for ship operations during the Vaughan years.

Ewing, Gifford C., ed. Oceanography from Space: Proceedings of Conference on The Feasibility of Conducting Oceanographic Explorations from Aircraft, Manned Orbital and Lunar Laboratories. Held at Woods Hole, Massachusetts, 24-28 August 1964. Woods Hole, MA: Woods Hole Oceanographic Institution Reference No. 65-10, (April 1965): 469p., ill., index.

This is the first conference held in the United States to study satellite oceanography. Many Scripps scientists spoke at the conference, including John Isaacs, Francis Parker Shepard, and Fred B. Phleger.

Farrington, John W. Sverdrup, Johnson and Fleming's The Oceans revisited: What of the future of graduate education in Ocean Sciences? *Oceanography* 14 (2001), no. 2: 34-39.

A discussion of graduate education in oceanography
In a historical context.

Faughn, James L. "Final Report of NAGA Expedition," SIO Reference 63-11, (March 20, 1963): 49 pages.

This is the final report of Scripps Institution NAGA Expedition, an expedition to Southeast Asia jointly sponsored by the governments of South Vietnam, Thailand, and the United States, to "conduct a study of the marine life resources of the South China Sea and the Gulf of Thailand," and "to train as marine scientists the nations of the participating countries." R/V STRANGER left San Diego under NAGA Expedition leader James Faughn on 15 June 1959 and returned by San Diego on 24 June 1961. This report gives a history, description and chart of the expedition.

Faulkner, D. John. "The Search for Drugs from the Sea." *Oceanus*, 22 (Summer 1979):44-50.

Describes the work of Faulkner and William Fenical of Scripps Institution and other researchers studying marine pharmacology.

Fisher, F.H. and Spiess, F.N. "Flip - Floating Instrument Platform." *Journal of the Acoustical Society of America*, 35 (October 1963): 1633-1644.

Description of the Floating Instrument Platform (FLIP) designed at Scripps Institution of Oceanography Marine Physical Laboratory and subsequently built and operated by Scripps.

Fisher, Robert L. "Memorial to Roger Randall Dougan Revelle, 1909-1991." Boulder: Geological Society of America Memorial Volume 24 (1994):35-38.

Biography of Revelle.

Fisher, Robert L. ed. "A Preliminary Report on Expeditions MONSOON and LUSIAD, 1960-1963, University of California, San Diego, Scripps Institution of Oceanography, Cruises to the Indian Ocean." SIO Reference No. 64-19 (June 2, 1964):198.

Describes SIO Monsoon (1960-1961) and Lusiad (1962-1963) expeditions which were part of the International Exploration of the Indian Ocean (IIOE) jointly sponsored by UNESCO and Scientific Committee on Ocean Research (SCOR). Appendices to the report list include lists of expedition personnel.

Fisher, Robert L. "On the Sounding of Trenches." *Deep-Sea Research*, 2 (1954):48-58.

Describes the sounding of the Tonga Trench during Scripps Institution Capricorn Expedition (1952-1953) and sounding of the Ramapo Depth during Scripps TransPacific Expedition (1953).

Fisher, Robert L., Edward D. Goldberg and Charles S. Cox, editors. *Coming of Age: A Centennial Volume*. La Jolla: Scripps Institution of Oceanography UCSD, 2003, 213 pages.

This volume celebrates the centennial of the Scripps Institution of Oceanography and includes profiles of Fifteen prominent oceanographers associated with Scripps.

Fleming, Richard H. "The History of Education in Oceanography." University of Washington, Department of Oceanography Manuscript No. M67-77, (1967):14p.

This paper was originally presented at an educational symposium on Manpower for Oceanography sponsored by the American Society for Oceanography and Gulf University Research Corporation, Houston, Texas, November 20-21, 1967.

Fox, Denis L. "Francis Bertody Sumner (1874-1945)." *Year Book of the American Philosophical Society*, (1945):416-420.

Obituary.

Frankel, Henry. "The Development, Reception and Acceptance of the Vine-Matthews-Morley Hypothesis," *Historical Studies in the Physical Sciences*, 13 (1982):1-39.

Discusses Vine-Matthews-Morley theory of sea floor spreading and appraises the gradual acceptance of the theory by geologists and oceanographic and geophysical departments and institutions in the U.S., including SIO. The work of H. William Menard, Ronald Mason, Arthur Raff and Victor Vacquier is discussed.

Frankel, Henry. "Why Drift Theory was Accepted with the Confirmation of Harry Hess's concept of Sea Floor Spreading." Two Hundred Years of Geology in America: Proceedings of the New Hampshire Bicentennial Conference on the History of Geology, edited by Cecil Schneer, Hanover: University Press of New England, (1979):337-353.

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"Frederick Baker, 1854-1938, Honorary Curator of Mollusks, Scripps Institution of Oceanography." University of California In Memoriam, (1938):9-10.

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History of the Bergen School founded by Vilhelm Bjerknes which established a new conceptual foundation for atmospheric science. Bjerknes trained a number of graduate students and assistants including Harald Sverdrup, Jacob Bjerknes, Carl Gustav Rossby. Sverdrup is credited with teaching the Bergen School methods to a generation of oceanographers at Scripps.

Friedman, Robert Marc. "Contexts for Construction and Ocean Science: The Career of Harald Ulrik Sverdrup (1888-1957)." In: Rehbock, Philip F. and Keith R. Benson, Oceanographic history: The Pacific and Beyond. Seattle and London: University of Washington Press, 2002, 17-27.

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and the study of ocean circulation prior to World War II.” In: Understanding the Oceans: A century of ocean exploration. London and New York: UCL Press, 158-172.

This paper was presented at the symposium held in honor of the opening of Southampton Oceanography Centre.

Frieman, Edward A. "Policy for Science vs. Science for Policy: The Case of Oceanography." Marine Technology Society Journal, 23 (September 1989)39-42.

SIO Director Edward Frieman discusses the community of oceanographers and trends in funding for the field.

Fuller, Nelson. "Scripps Probing the Mysteries of the New Frontier." Geo-Science News, 1 (September-October 1967):16-41.

A profile of the Scripps Institution.

Gardner, David P. The California Oath Controversy. Berkeley: University of California, 1967, 329 pages.

A history of the University of California loyalty oath controversy of 1950 which briefly mentions Roger Revelle's participation in the controversy.

Gardner, Gilson. Lusty Scripps: The Life of E.W. Scripps, 1854-1926. New York: The Vanguard Press, 1932: 274 pages.

Popular biography of Edward Willis Scripps. The appendix includes a copy of his will.

Geomicrobiology Journal. 4 (1985).

A festschrift dedicated to SIO marine microbiologist Claude Ephraim ZoBell, founder of the journal. Includes a dedication by Richard Y. Morita which briefly lists ZoBell's scientific accomplishments.

Gieskes, Joris M. and Goldberg, Edward D. "Norris Watson Rakestraw, 1895-1982." University of California In Memoriam, (1986): 239-241.

Brief biography of the SIO chemist.

Glen, William. The Road to Jaramillo: Critical Years of the Revolution in Earth Science. Stanford: Stanford University Press, 1982: 459 pages.

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tectonics theory includes brief references to work conducted at SIO.

Golantry, Eric. "A Profile: The Scripps Institution of Oceanography." *Oceans*, 10 (1977):2-7.

Review of the early history of SIO and discussion of the contributions of William E. Ritter and Harald Sverdrup. The article also discusses the Deep Sea Drilling Program.

Goldschmidt, Richard B. "Biographical Memoir of Charles Atwood Kofoid, 1865-1947." *Memoirs of the National Academy of Sciences* 26 (1949):121-151.

Biography with full bibliography of Kofoid, friend and colleague of William Ritter, who served as Assistant Director of the Scripps Institution from 1903-1923.

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Guberlet, Muriel Lewin. *Explorers of the Sea*. New York: The Ronald Press, 1964, 226 pages.

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Hall, Mary Harrington. "Bad Day at UCSD: The Kerr and Revelle Thing." *San Diego and Point Magazine*, 16 (July 1964),12.

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Biography of Revelle that concentrates on his efforts to establish the University of California, San Diego.

Hammel, Harold T., George N. Somero and Fred N. White. "Per Fredrik Scholander." University of California In Memoriam 1986, 269-270.

Hamblin, Jacob Darwin. La Mer au center de la guerre froide; comment la marine américaine a construit sa stratégie dissuasive. La Recherche hors série 7 (Avril/Juin 2002):74-77.

In French, article on American oceanography during The Cold War which includes discussion of the Scripps Institution of Oceanography

Hamblin, Jacob Darwin. "The Navy's 'Sophisticated' Pursuit of Science: Undersea Warfare, the Limits of Internationalism, and the Utility of Basic Research, 1945-1956." Isis 93 (2002): 1-27.

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Hamblin, Jacob Darwin. Oceanographers and the Cold War: Disciples of Marine Science. Seattle and London: University of Washington Press, 2005.

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Hamblin, Jacob Darwin. "Visions of International Scientific Cooperation: The Case of Oceanic Science, 1920-1955." *Minerva* 38 (2000), no. 4: 393-423.

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The article uses rare books from the Scripps Library to describe the history of books on fishes. The article is illustrated with early woodcuts and engravings of fish.

Hanauer, Eric. "Jim Stewart." *Discover Diving* 10 (January/February 1992):23-27.

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Hanauer, Eric. "Scientific Diving in America: A Look Back," *Marine Technology Society Journal* 34(Winter 2000/01), no. 4 : 5-10.

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Hanauer, Eric. "Scuba's First Generation: Wheeler North." *Discover Diving* 9(July/August 1991):91-95.

Brief biography of marine biologist Wheeler North, who received his Ph.D. from SIO and was trained in SCUBA by SIO Diving Office Conrad Limbaugh.

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Harper, Jacob Chandler. *Ellen Browning Scripps, 1836-1936*. La Jolla, California: [Published by

the Author], 1936, 59 pages.

Biography of Ellen Browning Scripps by her attorney. Vital dates are incorrect. Miss Scripps died in 1932.

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An alphabetical list of oceanographic expeditions by name. The list also provides the year for each expedition and the research vessels included in each expedition. Expeditions of the Scripps Institution of Oceanography, the Woods Hole Oceanographic Institution, the University of Washington and other institutions are included.

Hepner, Frances K. "Ellen Browning Scripps: Her Life and Times." [San Diego]: San Diego State College, Friends of the Library, (1966):39p.

A brief biography of the benefactor of SIO. Includes a bibliography.

Herman, Louis M. "Hawaiian Humpback Whales and ATOC: A Conflict of Interests." *Journal of Environment & Development*, v. 3, no. 2 (Summer 1994), pp.63-73.

A biologist describes the controversy concerning the Institute of

Geophysical and Planetary Physics acoustic tomography project.

Hertz, Carole M. "Dr. Fred Baker, San Diego Conchologist: A Most Remarkable Man," *The Festivus: A Publication of the San Diego Shell Club*, 26 (January 13, 1994):3-14.

Biography of Fred Baker which concentrates on his shell collection.

Hippen, Robert L. "The Bakers - Drs. Fred and Charlotte." *San Diego Physician: Official Publication of the San Diego County Medical Society. Historical Supplement, 1870-1970*, 56 (July 1970):64-65.

A brief biography of the Bakers, who were influential in convincing William E. Ritter to establish a marine biological station in San Diego.

Hippen, Robert L. "The Doctors Baker." *San Diego Physician*, 69 (October 1983):46-47.

Hinton, Sam. *The T. Wayland Vaughan Aquarium-Museum of the Scripps Institution of Oceanography*. La Jolla: Scripps Institution of Oceanography, 1954, 23 pages.

Describes the Thomas Wayland Vaughan building at SIO and the facilities of the Aquarium-Museum. Includes a bibliography of articles on the aquarium and a floor plan of the Thomas Wayland Vaughan building.

Hinton, Sam. *The T. Wayland Vaughan Aquarium-Museum, University of California, Scripps Institution of Oceanography*." La Jolla: Scripps Institution of Oceanography, 1958: 42 pages.

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Memoirs of a participant in the Deep Sea Drilling Project concerning GLOMAR CHALLENGER, the project drilling ship.

Hsu, Kenneth J. The Great Dying. San Diego: Harcourt Brace Jovanovich, 1986. 292 pages.

Memoirs of the geophysicist who participated in several Deep Sea Drilling Project expeditions

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Hubbs, Carl L. "History of Ichthyology in the United States after 1850." *Copeia*, (1964):33-60.

The article discusses many ichthyologists influential in the field from 1850 to the 1930's, but Hubbs says little about his own contributions to the field.

Hubbs, Carl L. "Scripps Institution of Oceanography, University of California." *A.I.B.S. Bulletin*, 6 (January 1956):11-13.

A brief description of the facilities and research program of the Scripps Institution.

Hubbs, Carl L.; Bien, George S.; and Suess, Hans E. "La Jolla Natural Radiocarbon Measurements." *American Journal of Science Radiocarbon Supplement*, 12 (1960):197-223.

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Hubbs, Laura C. "List of Students whose PhD Degree was Under the Chairmanship of Carl L. Hubbs Through 1974." *Copeia*, (1974):609-610.

List of Carl Hubbs' graduate students by his wife, colleague and coauthor Laura Clark Hubbs.

"Interview - John D. Isaacs." *Omni*, (August 1979):71-73 et seq.

An interview conducted with the Scripps oceanographer.

"Interview - Roger Revelle." *Omni*, (May 1984):77 et. seq.

An interview with Revelle which concentrates on his scientific work.

Isaacs, John D. "The North Pacific Study." *Journal of Hydronautics*, 3 (April 1969):65-79.

Isaacs, John D. and Iselin, Columbus O'D., eds. Oceanographic Instrumentation: A Conference Held at Rancho Sante Fe, California, June 21-23, 1952 under the Sponsorship of the Office of Naval Research. Washington: National Academy of Sciences-National Research Council Publication 309, (1952):233p.

Papers delivered at this conference describe specific types of instruments. The conference includes papers discussing the oceanographic application of specific instruments, including instruments developed and/or deployed by SIO researchers.

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The midwater trawl was designed to collect bathypelagic biological specimens larger and more active than specimens taken in standard plankton nets. This paper describes the physical and operational characteristics of the midwater trawl.

It's the Water that Makes you Drunk: A Celebration in Geophysics and Oceanography - 1982, In Honor of Walter Munk on his 65th Birthday, October 19, 1982 at Scripps Institution of Oceanography, University of California, San Diego, La Jolla, California. SIO Reference Series Number 84-5, (March 1984).

Includes a brief autobiography of Munk entitled, "Affairs of the Sea," and Munk's bibliography. It includes a biographical essay on Munk by Roger Revelle, entitled, "The Luck of Water Munk," and essays on Munk by other friends and colleagues.

Jacobs, Woodrow C. "Harald Ulrik Sverdrup - New Director of the Scripps Institution of Oceanography." Bulletin of the American Meteorological Society, 17 (October 1936): 306-308.

Announcement of the appointment of Sverdrup as Scripps director.

Jebens, Arthur B. "The Organization, Management and Support Services for a Large Organized Research Unit within a University - Scripps Institution of Oceanography." Berkeley: University of California Research Management Improvement Project, 1976, June 1976, 41 pages.

"As part of the UC's Research Management

Improvement Project funded by the NSF...the UCSD undertook a broad research study of the organization, management and administrative and technical support services of SIO." This study commenced late in 1973. It describes the overall management structure of Scripps, and specific management areas such as large research projects, academic and student affairs, business management, ship operations. The report makes recommendations of management changes that might strengthen the administration of SIO.

Jennings, Feenan D. and King, Lauriston R. "Bureaucracy and Science: The IDOE in the National Science Foundation." *Oceanus*, 23 (Spring 1980):13-19.

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A brief report on research conducted at SIO.

Joint Oceanographic Institutes Deep Earth Sampling (JOIDES), "Deep Sea Drilling Project," *American Association of Petroleum Geologists Bulletin*, 51 (September 1967):1787-1802.

An overview of the early history of the Deep Sea Drilling Program which includes a list of JOIDES advisory panels.

Kaneps, Ansis. "Deep Sea Drilling Project," *Geotimes*, 22 (January 1977): 18-19.
Brief description of the International Phase of Ocean Drilling (IPOD) in 1975.

Keeling, Charles D. "Is Carbon Dioxide from Fossil Fuel Changing Man's Environment?" *Proceedings of the American Philosophical Society*, 114 (February 1970):10-17.

Reviews his work, that of Roger Revelle and other scientists at SIO and elsewhere studying the increase in carbon dioxide levels resulting from the use of fossil fuels, and discussing the decline of environmental quality and his own views of this change.

Keeling, Charles D. "Rewards and Penalties of Monitoring the Earth." *Annual Review of Energy and the Environment* 23 (1998): 25-82.

This is an autobiography of Charles David Keeling which concentrates on his scientific career and his work first at a student and later as a professor at the Scripps Institution of Oceanography on measuring atmospheric carbon dioxide. This article includes discussion of the concept of basic science as understood and applied by project officers in federal science agencies.

Keeling, Charles D. , Rakestraw, Norris W., and Lee S. Waterman. "Carbon Dioxide in Surface Waters of the Pacific Ocean, 1. Measurements of the Distribution." *Journal of Geophysical Research*, 70 (December 15, 1965):6087-6097.

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Kennel, Charles F., Richard S. Lindzen, and Walter Munk. "William Aaron Nierenberg, February 13, 1919-September 10, 2000." *Biographical Memoirs of the National Academy of Sciences* 85 (2004): 196-215.

Biography of the physicist and director of the Scripps Institution of Oceanography.

Kerr, Clark, 1911- . *The gold and the blue: A personal memoir of the University of California, 1949-1967*. Berkeley: University of California Press, 2001-2003, 2 volumes.

Kerr recalls his efforts as President of the University of California to found a general campus in San Diego And gives his impression of Roger Revelle and others.

Kerr, Richard A. "Explorer's Ocean Drilling Role Expanded." *Science* 213 (August 21,

1981):851-852.

Discusses Deep Sea Drilling Program.

Kim, Juhee. "ZoBell and Marine Microbiology." American Society for Microbiology News, 39 (May 1973):329-332.

A biography of Scripps marine microbiologist
Claude E. ZoBell written on the occasion of
his retirement.

Knauss, John Atkinson. "Academic Oceanography: How we Got from There to Here." Marine Technology Society Journal 22 ():5-11.

Knauss explains that the primary reason that the
U.S. has lead the world in marine science since
the end of World War II is its oceanographic
training offered through American universities.
This article describes the development of
academic oceanography including reference to
developments at the Scripps Institution.

Knauss, John Atkinson. "The Cromwell Current." Dissertation, Ph.D. in Oceanography,
University of California, Los Angeles, (June 1959):109p.

Describes the identification, naming and
investigations of the Cromwell Current,
first identified by Scripps researcher
Townsend Cromwell in 1954. Describes
observations made of the current on Scripps
Eastropic and Dolphin expeditions.

Knauss, John Atkinson. "Roger Revelle and his Contribution to International Ocean Science."
International Oceanographic Commission, 25th Session, UNESCO, (March 13, 1992).

Obituary of Roger Revelle which mentions his
role in promoting international scientific
cooperation.

Knauss, John Atkinson. "Shellback Expedition." Office of Naval Research Reviews, (May
1953).

Description of the Scripps expedition.

Knight, Oliver, Ed. I Protest: Selected Disquisitions of E.W. Scripps. Madison, Milwaukee and
London: University of Wisconsin Press, 1966, 799 pages.

The book consists mainly of E.W. Scripps' "disquisitions," essays dictated to his secretary on matters of interest to EWS. The disquisitions include two on the Scripps Institution of Oceanography, "Is This Ritter's Thesis, May 15, 1919," pp. 746-747, and "How Science is Disseminated, July 8, 1919," pp. 748-751, although many of the disquisitions mention the Scripps Institution and EWS's friendship with William E. Ritter. The volume is prefaced by an excellent short biography of EWS and includes an index, bibliography and genealogical chart.

Knight, Oliver. "Scripps and His Adless Newspaper, The Day Book." *Journalism Quarterly*, 41 (Winter 1964):51-64.

Describes E.W. Scripps' experiment with an adless newspaper.

Knudson, Vern O.; Redfield, Alfred C.; Revelle, Roger; and Schrock, Robert R. "Education and Training for Oceanographers." *Science*, 111 (1950):700-703.

Discusses the need for trained oceanographers and describes training available in the United States. An idea oceanography curriculum is presented. Specific educational programs, including that of the Scripps Institution of Oceanography, are discussed.

Kofoid, Charles Atwood. *The Biological Stations of Europe*. Washington, DC: GPO, (United States Bureau of Education Bulletin, No. 4, 1910, whole number 440), 360 pages.

During the summers of 1908 and 1909, Charles Atwood Kofoid, assistant director of the Marine Biological Association of San Diego, toured European biological stations with funds provided by a grant from the U.S. Bureau of Education. The book describes biological stations in Italy, France, Monaco, Great Britain, Germany, Austria-Hungary, Norway, Sweden, Denmark, Holland, Belgium, Spain, Finland, Russia and Bulgaria. Includes an index and bibliography.

Kofoid, Charles Atwood. *Biological Survey of the Waters Off Southern California by the Marine Laboratory of the University of California in San Diego*. *Science* 19:505-508.

Kofoid, Charles Atwood. "The San Diego Marine Biological Laboratory." University of California Chronicle, 9 (1920):1-7.

Kofoid, Charles Atwood. "The San Diego Marine Station, 1908." Internationale Revue Der Gesamten Hydrobiologie und Hydrographie, band I (1908):863-865.

This is Kofoid's review of Ritter's "The Scientific Work of the San Diego Marine Biological Station During the Year 1908."

Kuhns, Kittie Kerr and Betty Shor. Scripps Stories: Days to Remember, In Celebration of 90 Years. La Jolla: Scripps Institution of Oceanography, SIO Reference 93-35 (October 1993), 145p.

The authors requested SIO alumni, faculty and staff to write reminiscences of Scripps in honor of its 90th anniversary. These were edited, indexed and issued in 1993.

Lakoff, Sanford; Munk, Walter; and Singer, S. Jonathan. "Roger Revelle, 1909-1991." University of California In Memoriam, (1991):159-169.

Obituary.

Lasky, Marvin. "Historical Review of Undersea Warfare Planning and Organization 1945-1960 with Emphasis on the Role of the Office of Naval Research." U.S. Navy Journal of Underwater Acoustics, 26 (April 1976):327-356.

"This report provides to newcomers to the field of undersea warfare acoustics, the background events (historical, administrative and technical), that interacted to shape Naval activity over the decade and a half following World War II." The report mentions the University of California Division of War Research (UCDWR) and the ONR contract program with several oceanographic institutions including the Scripps Institution of Oceanography.

Lasky, Marvin. "Historical Review of Underwater Acoustic Technology: 1939-1945 with Emphasis on Undersea Warfare." U.S. Navy Journal of Undersea Acoustics, 25 (October 1975):885-918.

This article discusses the undersea warfare program organized by the National Defense Research Committee (NDRC) during World War II,

including the contributions of the University of California Division of War Research (UCDWR) and other American laboratories.

Lasky, Marvin. "Review of Scientific Effort for Undersea Warfare: 1939-1945." U.S. Navy Journal of Underwater Acoustics, 25 (July 1975):567-583.

A study of the organizational background of the National Defense Research Committee (NDRC), Division 6 "Subsurface Warfare" which discusses the Office of Scientific Research and Development /National Defense Research Committee Laboratory-Contract Program. The University of California Division of War Research (UCDWR) is mentioned as one of the contract laboratories.

Legacy of Exploration: Scripps Institution of Oceanography Since 1903. La Jolla: Scripps Institution of Oceanography, 1993.

This pamphlet was prepared by the Stephen Birch Aquarium-Museum to accompany a major exhibit celebrating the 90th anniversary of the Scripps institution.

Leinen, Margaret. "John Knauss: Fifty years of service to oceanography." Oceanography 14 (2001), no. 2: 5-9.

This issue of Oceanography is dedicated to John Atkinson Knauss and includes many articles about his work and by his colleagues.

Levin, Sheldon M. "Norwegians led the way in training wartime weather officers." EOS: Transactions of the American Geophysical Union 78 (December 30, 1997), no. 52: 1 et. seq.

The author was trained as a meteorologist at UCLA During World War II and describes the training program Organized there by Joseph Kaplan and courses taught by Faculty including Jacob Bjerknes, Jorgen Holmboe and Harald Sverdrup.

Maienschein, Jane. "History of Biology." In Historical Writing on American Science, OSIRIS, edited by Sally Gregory Kohlstedt and Margaret W. Rossiter, (1985):147-162.

Mentions the development of marine biological stations, including the Scripps Institution, among general trends in American biology.

Malone, Thomas F., Edward D. Goldberg and Walter H. Munk. "Roger Randall Dougan Revelle, 1909-1991." *Biographical Memoirs of the National Academy of Sciences* 75 (1998), pp. 3-23.

Biography of Roger Revelle that emphasizes his key contributions to science and describes his personal scientific style.

Manar, Thomas A. "Scripps in the Present Tense." *Bulletin of the International Oceanographic Foundation*, 1 (1955):30-38.

Description of the facilities, fleet, staff and research program of SIO by its public affairs officer.

Manar, Thomas A. "The Sea is our Campus." *California Monthly*, (March 1953).

Profile of the Scripps Institution.

"Marine Biological Association of San Diego." *Science* 26 (September 20, 1907):386-388.

Describes efforts to secure a La Jolla site for the growing association, and establish a permanent laboratory.

"1983 Maurice Ewing Medal: Fred Noel Spiess." *EOS* 64 (July 26, 1983):477-478.

This article includes the citation for the medal by George Shor, and Spiess' acceptance.

Maxwell, A.E. "A Special Issue Honoring Sir Edward Bullard." *Journal of Geophysical Research* 86 (December 10, 1981):11,509 et seq.

This brief biography of Sir Edward Crisp Bullard serves as an introduction to this special issue commemorating Bullard and his work.

Maxwell, Arthur E. "An Abridged History of Deep Ocean Drilling," *Oceanus*, v. 36, no. 4 (Winter 1993/94), pp. 8-12.

A brief chronicle of deep ocean drilling from Mohole in 1957, through the Deep Sea Drilling Project and the International Phase of Ocean Drilling (IPOD) sited at the Scripps Institution of Oceanography to

the Ocean Margin Drilling (OMD) program sited at Texas A&M University.

Mazur, Allan and Blyko, Elma. "Large-Scale Ocean Research Projects: What makes them Succeed or Fail?" *Social Studies of Science* 11 (1981):425-449.

Describes and compares large-scale ocean research projects including GEOSECS in which Harmon Craig participated and the MANGANESE NODULES project administered at Scripps by James Greenslate and Gustaf Arrhenius.

McCabe, Charles R., ed. *Damned Old Crank: A Self-Portrait of E.W. Scripps Drawn from his Unpublished Writings*. New York: Harper & Brothers, 1951, 259 pages.

A colorful biography of E.W. Scripps written by a fellow newspaperman.

McEvoy, Arthur F. *The Fisherman's Problem: Ecology and Law in the California Fisheries, 1850-1980*. New York: Cambridge University Press, 1986, 368 pages.

Discusses the work of Scripps relevant to California fisheries, especially Scripps Institution participation in the Marine Research Committee and the California Cooperative Oceanic Fisheries Investigation (CalCOFI).

McEvoy, Arthur F. and Scheiber, Harry N. "Scientists, Entrepreneurs, and the Policy Process: A Study of the Post-1945 California Sardine Depletion." *Journal of Economic History*, 44(June 1984):393-406.

Describes the work of the California Marine Research Committee, established by the California legislature to investigate the depletion of the sardine in California waters. It describes the work of Carl Leavitt Hubbs and other SIO scientists and the Scripps role in the California Cooperative Oceanic Fisheries Investigation (CalCOFI).

McEwen, George Francis. "Preliminary Report on the Hydrographic Work Carried out by the Marine Biological Station of San Diego." *University of California Publications in Zoology*, 6 (May 28, 1910):189-204.

This is the first of many reports written by McEwen, the first physical oceanographer

employed at the Scripps Institution.

McEwen, George Francis. "The Status of Oceanographic Studies of the Pacific." Proceedings of the First Pan-Pacific Scientific Conference. Bernice P. Bishop Museum, Special Publication 7. Honolulu: Honolulu Star, (1921):487-497.

McEwen, George Francis. "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography During April 1947 to April 1948." Transactions of the American Geophysical Union, 29 (1948):578-580.

This is a list of ongoing research projects
at SIO.

McEwen, George Francis. "The University and the Pacific: The Story of Scripps Institution." California Monthly, (March 1937):9-11, 37-39.

McGill, William J. The Year of the Monkey: Revolt on Campus, 1968-1969. New York: McGraw-Hill, 1982, 297 pages.

The author was Chancellor of the University
of California, San Diego from 1968 to 1970,
during a period of student protest and
demonstrations. The book briefly mentions
Scripps and Scripps faculty, including Water Munk,
then Chairman of the UCSD Academic Senate.

McGowan, John A. and Brinton, E. "Martin W. Johnson, 1893-1984." Bulletin of Marine Science, 37 (1985):407-410.

Obituary of the Scripps marine biologist.

McGowan, John A. 2004. "Sverdrup's Biology." Oceanography (June 2004): 106 et. seq.

This paper on Harald Sverdrup's educational philosophy
And broad interdisciplinary approach to oceanography
Was written in celebration of the centennial of the
Scripps Institution.

McGrath, Thomas Eugene. "The Impact of Oceanographers on the Secondary Sewage Treatment Issue in San Diego, California." University of San Diego, M.S. in Ocean Studies (1990).

Master's thesis which discusses the influence of
Roger Revelle and other scientists on this issue.

McGraw, Donald J., 2002. "Claude Zobell, Hadal Bacteria, and the "Azoic Zone." In: Rehbock,

Philip F. and Keith R. Benson, *Oceanographic history: The Pacific and Beyond*. Seattle and London: University of Washington Press, 2002, 259-270.

Biography of Scripps microbiologist Claude E.
ZoBell.

McGraw, Donald J. "Claude ZoBell and the Foundations of Marine Microbiology: 1940-1946." *Historisch-Meereskundliches Jahrbuch* 8 (2001): 103-124.

Discussion of the career and scientific work of Scripps
marine microbiologist Claude E. ZoBell

McGraw, Donald J. "Claude Zobell and the foundations of marine microbiology (1933-1939)." In: *International Congress on the History of Oceanography (6th: Qingdao, China: 1998)*. Ocean Sciences Bridging The Millennia: A Spectrum of historical accounts, edited by Selim Morcos, et. al. Qingdao: UNESCO and china Ocean Press, 2004, 45-61.

Discussion of the career and scientific work of Scripps
marine microbiologist Claude E. ZoBell

McKenzie, D.P. "Edward Crisp Bullard, 1907-1980." *Biographical Memoirs of the Fellows of the Royal Society*, (1987):67-98.

Obituary of the British geophysicist which includes
a description of his work on heat flow and his
association with the Scripps Institution of
Oceanography.

MacLeish, William H. "Profile: Roger Revelle, Senior Senator of Science." *Oceanus*, 25 (Winter 1982/83):67-70.

Brief biography of Revelle.

McNutt, Marcia. "1985 Bowie Medal to H. William Menard," and "Response" by Menard. *EOS Transactions of the American Geophysical Union*, 67 (January 7, 1986):8-9.

McNutt, a student of Menard, describes his
achievements as a geologist and his merits
as a teacher. Menard's response includes
an account of his early days and associates
at Scripps.

McPhaden, Michael J. "The Equatorial Undercurrent: 100 Years of Discovery." *EOS, Transactions of the American Geophysical Union*, 67 (October 7, 1986):762-765.

This article is a historical review of investigations

of the equatorial under-current, beginning with J.Y. Buchanan's 1886 observations, and including the "rediscovery" of the undercurrent by Scripps investigators Ray Montgomery and Townsend Cromwell aboard R/V HUGH M. SMITH in 1952. The article goes on to discuss oceanic circulation theories of Harald Sverdrup, Walter Munk and others, and investigations of the equatorial under-current conducted during the International Geophysical Year.

Menard, Henry William. *Anatomy of an Expedition*. New York: McGraw Hill, 1969, 255 pages.

An account of Menard's experience as a participant in the SIO Nova Expedition of 1967.

Menard, Henry William. "The East Pacific Rise." *Science*, 132 (December 9, 1960): 1737-1746.

Discussion of marine geophysical studies of the East Pacific Rise conducted by oceanographers over the years. Specifically discusses Scripps International Geophysical Year studies and Scripps Downwind Expedition.

Menard, Henry William. *The Ocean of Truth: A Personal History of Global Tectonics*. Princeton: Princeton University Press, 1986, 353 pages.

Menard's memoirs discuss the revolution in earth science caused by the acceptance of sea floor spreading and plate tectonics theory.

Menard, Henry William. "The Research Ship HORIZON." SIO Reference No. 74-3, (February 1974):13p.

History of the SIO research vessel HORIZON, acquired by the institution from the navy in 1949 and used as an oceanographic research vessel until 1968. Describes the ship, the expeditions she participated in, and the scientific results of her cruises.

Menard, Henry William. "Very Like a Spear." *Two Hundred Years of Geology in America: Proceedings of the New Hampshire Bicentennial Conference on the History of Geology*, edited by Cecil Schneer, Hanover: University Press of New England, (1979):19-30.

Menard describes this article as "...an oral history of what I remember as important discoveries and

of what I remember as influential ideas during the 1950's."

Merdinger, Charles J. and Fuller, Nelson. "A Brief Look at Scripps Institution of Oceanography, La Jolla, California, 1973-1974" Marine Technical Society Journal. 9 (January 1975):15-18.

A description of research at Scripps by the assistant directory and public affairs officer.

Miller, Frances Hubbs. The Scientific Publications of Carl Leavitt Hubbs: Bibliography and Index, 1915-1981. San Diego: Hubbs Sea World Research Institute, Special Publication Number 1, (October 1981): 258 pages.

Fully indexed, chronological bibliography of the distinguished ichthyologist.

Miller, Robert Rush; Hubbs, Clark and Miller, Frances H. "Ichthyological Exploration of the American West: The Hubbs-Miller Era, 1915-1950." Chapter 2 in W.L. Minckley and James E. Deacon, eds. Battle Against Extinction: Native Fish Management in the American West." Tucson and London: The University of Arizona Press, (1991):19-42.

A memoir by Carl Leavitt Hubbs' son Clark Hubbs, daughter Frances Hubbs Miller, and his graduate student and son-in-law, Robert Rush Miller of several field trips made by Hubbs in the west, especially in the Great Basin during the 1930's.

Miller, Russell, ed. Planet Earth: Continents in Collision. New York: Time-Life, (1983):176p. Index. Bibliography.

A popular history of plate tectonics theory that mentions events and scientists at the Scripps Institution of Oceanography.

Mills, Eric L. "The Oceanography of the Pacific: George F. McEwen, H.U. Sverdrup and the Origin of Physical Oceanography on the West Coast of North America." Annals of Science, 48(1991):241-266.

Mills explains why early attempts at international collaboration to study the oceanography of the Pacific failed, including an analysis of why the Scripps Institution did not excel in Pacific oceanography until 1936, when Harald Sverdrup became Scripps director. Includes a discussion of the career of Thomas Wayland Vaughan, SIO director 1924-1936.

Mills, Eric L. "The Scripps Institution: Origin of a Habitat for Ocean Science." La Jolla: Scripps Institution of Oceanography, University of California, San Diego (June 1993): 27 pages.

This lecture on the early history of the Scripps Institution and the intellectual life of its first director, William E. Ritter, was the inaugural public lecture of the William E. and Mary B. Ritter Memorial Fellowship and was given at Scripps on April 26, 1990.

Mills, Eric L. "Useful in Many Capacities: An Early Career in American Physical Oceanography. *Historical Studies in the Physical and Biological Sciences*, 20 (1990): 265-311.

The risks of a scientific career are discussed in an analysis of the career of the first physical oceanographer in North America, George Francis McEwen, who joined the staff of the Scripps Institution in 1908. McEwen's promising early career was eclipsed when he concentrated prematurely on long range forecasting instead of on dynamic methods pioneered by Vilhelm Bjerknes.

Moberg, E.G. and Lyman, J. "The E.W. SCRIPPS," *Records of Observations, Scripps Institution of Oceanography*, 1(July 1942)3-12.

Describes research vessel E.W. SCRIPPS, its history, equipment and use as an oceanographic vessel by the Scripps Institution.

Moe, Ronald L. "Ship-to-Shore Communications and Computer Networking at SIO: An Overview of Hardware and Software Requirements to meet the needs of Scientists at the Scripps Institution of Oceanography," *Sea Technology*, (May 1989): 10-18.

Describes the development of communications from Scripps ships to campus beginning in 1986 when satellite links began to replace radio communication as main means of ship-to-shore communication. Also explores changes in communication patterns effected by new communication technologies.

Morgan, Judith and Neil Morgan. *Roger: A Biography of Roger Revelle*. La Jolla: SIO, UCSD, 1996, 96 pages.

A well illustrated narrative biography of Roger Revelle written by two journalists who knew him personally, this

biography talks about the man as well as the scientist and tells how Revelle felt about his science, his career and his life.

Moriarty, James R. "Submarine Archaeology." *Science of Man*, 1(June 1961):134-135.

A brief report of submarine archaeological excavations and discoveries made by researchers at the Scripps Institution of Oceanography.

Moriarty, James R.; Peyton, Georgina; and Field, Priscilla. "Prehistory Sites in the San Diego Coastal Area." *Science of Man*, 1 (June 1961):116-119.

Description of excavations and discoveries made in 1958 by a group of SIO researchers at the Scripps Estates Associates site.

Moriarty, James R.; Shumway, George A.; and Warren, Claude N. "Scripps Estates Site 1 (SDi-525): A Preliminary Report on an Early Site on the San Diego Coast." *Annual Report, Archaeological Survey. Department of Anthropology-Sociology, University of California, Los Angeles*, (1959):187-216.

Describes the geomorphic and geologic setting or archaeological excavations undertaken on the site, which is property of the Scripps Estates Associates.

Morley, Lawrence W. "Early Work Leading to the Explanation of the Banded Geomagnetic Imprinting of the Ocean Floor." *EOS Transactions of the American Geophysical Union*, 67 (September 9, 1986):665-666.

This is a discussion of Morley's career in geophysics and his contributions to plate tectonic theory. It mentions the work of Victor Vacquier, Robert Dietz and other Scripps scientists.

Mukerji, Chandra. *A Fragile Power: Scientists and the State*. Princeton, NJ: Princeton University Press, 1990, 253 pages.

A study of the relationship between oceanographers and federal funders, especially the Navy, which investigates how oceanographic research funding priorities are set. Mukerji interviewed many oceanographers including some from the Scripps

Institution, in the course of her study.

Mukerji, Chandra. "Scientific Techniques and Learning: Laboratory 'Signatures' and the Practice of Oceanography." In *Invisible Connections: Instruments, Institutions and Science*, edited by R. Bud and S.E. Cozzens, Bellingham, Washington: SPIE Optical Engineering Press, c1992: 102-129.

Mulcahy, Michael. "Scripps Marine Physical Laboratory, 30 Years of Excellence in Ocean Research." *Sea Technology*, 24 (June 1983):24-28.

Describes the history, staff, organization, facilities, projects, accomplishments and future of the Marine Physical Laboratory.

Mulcahy, Michael. "A Time for Decision on the Federal Oceanographic Fleet." *Sea Technology*, 19 (June 1978):10-11, et. seq.

An appraisal of the state of the national oceanographic fleet, including discussion of the University National Oceanographic Laboratory System (UNOLS) which scheduled 28 vessels operated by academic institutions with NSF funds. Includes discussions of SIO ships.

Mullin, Michael and Colgan, Chuck. "Scripps Institution of Oceanography." *Fisheries*, 11 (July-August 1986):40-42.

Brief description of SIO including its purpose, key personnel, history and fisheries-related programs. One of a series of articles on marine science laboratories.

Munk, Walter H. "Affairs of the Sea," *Annual Review of Earth and Planetary Science* 8 (1980):1-16.

Autobiographical memoir which concentrates on Munk's scientific interests and work during his long career at Scripps.

Munk, Walter H. 2002. "The Evolution of Physical Oceanography in the last hundred years." *Oceanography* 15, no. 1 (2002): 135-141.

Munk discusses oceanography before satellites, beginning with Defant. This paper Was presented at the opening ceremony of the Lisbon 1998 EXPO.

Munk, Walter H. "The Ocean 'Bible': Reminiscences." *Oceanography* 5 (1992):155-157.

An history of Sverdrup, Johnson and Fleming's text *The Oceans* which concentrates on the work of Harald U. Sverdrup. Written by Sverdrup's graduate student on the occasion of the 50th anniversary of its publication.

Munk, Walter H. 2002. "Harald Ulrik Sverdrup (1888-1957): Celebrating the return of the Maud 75 Years ago." *Polar Research* 20, no. 2 (21 September 2000): 129-137.

Munk gave this account of Harald Sverdrup and his participation in the Norwegian Polar Expedition on Maud to an audience at the Fram Museum in Norway.

Munk, Walter H. "The Revelle Years." In: *Scripps Institution of Oceanography Annual Report* (1991):7-12.

Memoirs of Roger Revelle's long association with the Scripps Institution which quotes extensively from his letters and includes a discussion of controversy surrounding his appointment at SIO director and his successful efforts to mount a series of important Pacific expeditions in the 1950's.

Munk, Walter H. "The Sverdrup Years: A Personal Recollection." In: *Oceanographic history: The Pacific and Beyond*, edited by Philip F. Rehbock and Keith R. Benson. Seattle and London: University of Washington Press, 2002, 30-31.

Munk recalls his mentor Harald Sverdrup.

Munk, Walter H. and Frieman, E.A. "Let Roger Speak for Himself." *Oceanography*, 5 (1992): 125.

A reflection on Roger Revelle's views on global warming in view of a controversy about those views that arose after Revelle's death.

Munk, Walter H. and Preisendorfer, Rudolph W. "Carl Henry Eckart, 1902-1973." *Biographical Memoirs of the National Academy of Sciences*, 67 (1976): 195-219.

Biography of Carl Henry Eckart, SIO director 1948-1950, includes a bibliography of Eckart's publications.

Munk, Walter and Deborah Day. "Harald U. Sverdrup and the War Years." *Oceanography* 15 (2002), no. 4, 7-29.

Walter Munk recalls the struggle of his mentor
Harald Sverdrup to contribute as a scientist to the
War effort and the events that led to the cancellation
Of his security clearance.

Munk, Walter and Deborah Day. "Ivy-Mike." *Oceanography* (June 2004): 97-105.

Walter Munk recalls Operation Ivy, the 1952 U.S.
test of the first thermonuclear bomb, which coincided
With Scripps Institution of Oceanography Capricorn
Expedition (1952). Munk and other Scripps scientists
Measured ocean waves during and after the test.

Murray, E.A.; Inman, Douglas L.; and Koontz, W.A. "Sealab II underwater weather station."
Man's Extension into the Sea. Washington: Marine Technology Society, (1966):134-155.

This article describes an underwater weather
station manned by divers which was operated
off the California coast as part of the SIO
Sealab II program.

Namias, Jerome. "The History of Polar Front and Air Mass Concept in the United States - An
Eyewitness Account." *Bulletin of the American Meteorological Society*, 64(July 1983):734-755.

Namias discusses his early interest in
meteorology and his association with several
meteorologists, notably Carl Gustaf Rossby and
R.W. Reichelderfer.

"The Naples Zoological Station." *Science*, 9 (April 21, 1899):596-597.

This is Anton Dohrn's list of American
biologists who worked at the Naples station.
William E. Ritter is on the list together
with others later associated with the
Scripps Institution.

Nelson, Stewart B. *Oceanographic Ships: Fore and Aft*. Washington: GPO, 1971, 240 pages.

Includes history, discussion and photographs
of many oceanographic vessels owned or
operated by the Scripps Institution.

Neushul, Peter, "Seaweed for War: California's World War I Kelp Industry," *Technology and
Culture* 30, no. 3 (July 1989), pp. 561-583.

This overview briefly mentions the work of Captain Wesley C. Crandall in 1911 evaluating kelp as a potential source of potash at the Marine Biological Association of San Diego (later SIO).

Neushul, Peter and Lawrence Badash. "Harvesting the Pacific: The Blue Revolution in China and the Philippines." *Osiris* 13 (1998): 186-209.

This article discusses the career of Cheng Kui Tseng and briefly mentions his post doctoral studies at Scripps Institution of Oceanography.

Nierenberg, William A. "The Deep Sea Drilling Project after Ten Years." *American Scientist*, 66 (January-February 1978):20-29.

The SIO Director describes background of DSDP, including Project Mohole and the accomplishments of DSDP from its establishment in 1968 to 1978.

Nierenberg, William A. "Deep Sea Drilling: Lessons Learned." In: *Oceanographic history: The Pacific and Beyond*, edited by Philip F. Rehbock and Keith R. Benson. Seattle and London: University of Washington Press, 2002, 32-40.

Nierenberg recalls DSDP ten years
After its departure from Scripps.

Nierenberg, William A. "Final Report, January 16, 1976, Advanced Ocean Engineering Laboratory." SIO Reference No. 67-2.

The Advanced Ocean Engineering Laboratory (AOEL) was established at the Scripps Institution of Oceanography with the support of the Advanced Research Projects Agency (ARPA), administered by the Office of Naval Research, through a contract that commenced April 1, 1972 and expired February 28, 1976. This final report is actually a bibliography of all AOEL progress reports and other publications resulting from the laboratory.

Nierenberg, William A. "Harald Ulrik Sverdrup, 1888-1957." *Biographical Memoirs of the National Academy of Sciences* 69 (1996): pp. 3-38.

A biography of Norwegian oceanographer Harald Ulrik Sverdrup which concentrates on his scientific career in the United States and especially his work at Director of the Scripps Institution of Oceanography, 1936-1948.

Nierenberg, William A. "Oceanography" in The University and Applied Research: A Symposium on the Occasion of the Fortieth Anniversary of the Applied Research Laboratory The Pennsylvania State University, October 1, 1985...hosted by the Naval Studies Board, National Research Council. Pennsylvania State University, (1985):56-61, 73p.

This address discusses the relationship of the U.S. Navy to academe in general, and particularly the relationship between the Navy and the Scripps Institution of Oceanography beginning during World War II.

Nierenberg, William A. "Oceanography Tomorrow." Institute of Environmental Sciences, 13th Annual Technical Meeting, Tutorial Lecture Series April 10, 11, 12, 1967, Washington, DC., Mt. Prospect, Illinois: Institute of Environmental Sciences, 1967.

Nierenberg discusses the importance of educating oceanographers, the Mohole Project and its successor the Deep Sea Drilling Project and other trends in oceanography.

Nierenberg, William A. "Roger Randall Dougan Revelle (7 March 1909-15 July 1991)." Proceedings of the American Philosophical Society, 136 (1992):597-600.

Obituary.

Nierenberg, William A. "Technical and Political Problems of the Ocean Floor." The Colorado Quarterly, 18 (Autumn 1969):167-177.

Discusses the politics of oceanography and the research program and facilities of the Scripps Institution.

Nierenberg, William A. and Revelle, Roger. "Edward Crisp Bullard, (1907-1980). Biographical Memoirs of the American Philosophical Society, (September 1981).

Biography of the distinguished geophysicist Sir Edward Crisp Bullard who spent several years at SIO.

The Normal Advance, memorial number, (September 1898).

Alumni newsletter of the Oshkosh Normal School. This issue includes a brief letter from William E. Ritter on page 25 discussing his early education and career.

Norris, Kenneth S. "To Carl Leavitt Hubbs, a Modern Pioneer Naturalist on the Occasion of his Eightieth Year." *Copeia*, (October 18, 1974): 581-610.

A biography of the Scripps ichthyologist.

North, Wheeler J. "Scientific Diving." *Yale Scientific Magazine*, 31 (December 1956):49-54.

Description of the scientific diving SCUBA training program of the Scripps Institution of Oceanography.

O'Neil, Paul. "Trailbreaker of the Deeps." *Life*, 61 (September 1966): 108-121.

A profile of Willard Bascom.

Orcutt, C.R. "A Marine Laboratory." *The West American Scientist*, 7 (June 1890).

Reprinted from the San Diego Union September 8, 1890. A brief discussion of the suitability of San Diego as a site for a marine biological laboratory and the importance of establishing such a laboratory on the Pacific coast.

Oreskes, Naomi. "A Context of Motivation: U.S. Navy Oceanographic Research and the Discovery of Sea-Floor Hydrothermal Vents." *Social Studies of Science* 33, no. 5 (October 2003): 697-742.

The author describes the discovery of the vents during A Scripps Institution of Oceanography expedition.

Oreskes, Naomi. "Laissez-tomber: Military patronage and women's work in mid-20th century oceanography." *Historical Studies in the Physical and Biological Sciences* 30, no. 2 (2000): 373-392.

Uses the wartime all-girl Bathythermograph Unit at the Scripps Institution of Oceanography as a case study to examine patterns of sex-segregated labor in American science. Discusses the career of oceanographer Margaret King Robinson.

Oreskes, Naomi. *The Rejection of Continental Drift: Theory and Method in American Earth Science*. New York: Oxford University Press, 1999, 420 pages.

This broad history of the rejection of continental drift theory by American earth scientists mentions

the work of H. William Menard.

Oreskes, Naomi and Ronald Rainger. "Science and Security before the Atomic Bomb: The Loyalty Case of Harald U. Sverdrup." *Studies in the History and Philosophy of Modern Physics* 31, no. 3 (2000): 309-369.

Norwegian born director of SIO, Harald Sverdrup was denied Security clearance to work on Navy sponsored research in 1941. This article uses FBI and other federal investigative files to describe the security investigation, campus tensions which played into the case, and the consequences to Sverdrup and SIO.

Pauly, Philip J. "The Appearance of Academic Biology in the Late 19th Century America." *Journal of the History of Biology*, 17 (Fall 1984):369-397.

Broad study of biology in America before 1900 which briefly mentions William Ritter.

Pauly, Philip J. *Biologists and the Promise of American life: From Meriwether Lewis to Alfred Kinsey*. Princeton, N.J. : Princeton University Press, 2000, 313 pages.

William E. Ritter and Scripps Institution of Oceanography play a cameo role in this sweeping history of biology which describes the role played by biology in American public life and the intellectual and pedagogical aims of biologists in America over the course of two centuries.

Pedley, Lionel. "New Sea Water System Installed at Aquarium." *Southwest Builder and Contractor*, 128 (December 14, 1956):50-54 et. seq.

This is a description of the sea water pumpint and storage system installed at the Thomas Wayland Vaughan Aquarium-Museum in 1956. The article is written by a representative of the UCLA Office of Architects and Engineers, the office responsible for the design and construction of the system.

Peterson, M.N.A. and Field, A.J. "Deep-Sea Drilling D/V GLOMAR CHALLENGER." *Proceedings of the Royal Society of Edinburgh (B)*, 72(1971-1972):207-218.

Describes the goals and objectives of the DSDP and the design of R/V GLOMAR CHALLENGER and compares these with the Challenger Expedition and H.M.S. CHALLENGER.

Peterson, M.N.A. and MacTernan, F.C. "A Ship for Scientific Drilling" *Oceanus*, 25 (Spring 1982): 72-79.

Description of R/V GLOMAR CHALLENGER, the vessel used for the Deep Sea Drilling Project.

Potter, John R. "ATOC: Sound Policy or Enviro-Vandalism? Aspects of a Modern Media-Fueled Policy Issue." *The Journal of Environment & Development: A Review of International Policy* Produced at the University of California. V. 3, no. 2 (Summer 1994), pp. 47-62.

This article describes the growth of controversy concerning the acoustic tomography project at the Institute of Geophysics and Planetary Physics at SIO.

Poulson, Donald F. "Wesley Roswell Coe, 1869-1960." *Records of the Genetics Society of America*, 31, pp. 16-18.

Biography of SIO biologist Coe.

"Presentation and Acceptance of a Portrait of Dr. William Emerson Ritter First Director of the Scripps Institution presented by Miss Ellen Browning Scripps to the Scripps Institution of Oceanography, University of California. La Jolla: Bulletin 15 (Non-Technical) of the Scripps Institution of Oceanography, issued January 28, 1928.

Includes an address by Fred Baker entitled "Dr. Ritter and the Founding of the Scripps Institution of Oceanography," and brief remarks by SIO Director T. Wayland Vaughan and UC President William Wallace Campbell on Ritter's role at Scripps.

"Presentation of the Agassiz Medal to Dr. Thomas Wayland Vaughan," and "Response of the Medalist." *Science*, 83 (May 22, 1936):475-477.

Biographical information on Thomas Wayland Vaughan, SIO director 1924-1936.

Provine, William B. "Francis B. Sumner and the Evolutionary Synthesis." *Studies in History of Biology*, (1979): 211-240.

An account of the scientific contributions of Scripps biologist Francis B. Sumner to genetics. It describes Sumner's abandonment of his deer mice studies as a consequence of a change in the scientific program of the Scripps Institution from biology to oceanography.

Rainey, Carolyn R. "Wet Suit Pursuit: Hugh Bradner's Development of the First Wet Suit." *Historical Diver* 9, no. 1 (Winter 2001): 22-24.

The article describes the development of a neoprene diving suit by University of California physicist Hugh Bradner in 1951.

Rainger, Ronald. "Adaptation and the Importance of Local Culture: Creating a Research School at the Scripps Institution of Oceanography." *Journal of the History of Biology* 36 (2003), 461-500.

Discusses graduate training in oceanography at the Scripps Institution from the 1920's to the 1950's contrasting the different philosophy and approaches of Thomas Wayland Vaughan, Harald Sverdrup and Roger Revelle.

Rainger, Ronald. "Constructing a Landscape for Postwar Science: Roger Revelle, the Scripps Institution and the University of California, San Diego." *Minerva* 39 (2001) : 327-352.

This article discusses the career of Roger Revelle and his positions on sponsored research in oceanography. It also discusses his motivations for founding UCSD.

Rainger, Ronald. 2004. "Oceanography and Fieldwork: Geopolitics and Research at the Scripps Institution," *Proceedings of the California Academy of Sciences*, Vol. 55, Supplement 1, Number 8 (2004): 185-208.

Rainger, Ronald. "Patronage and Science: Roger Revelle, the U.S. Navy, and Oceanography at the Scripps Institution." *Earth Sciences History* 19 (2000), no. 1: 58-89.

One of a number of articles by Rainger appraising Revelle's Career and impact of science and government.

Rainger, Ronald. "Science at the Crossroads: The Navy, Bikini Atoll, and American Oceanography in the 1940's." *Studies in the History and Philosophy of Modern Physics* 30, no. 2 (2000): 349-371.

This article describes Bikini Scientific Resurvey, a 1947 investigation of the environmental effects of Operation Crossroads, the U.S. Pacific atomic test on Bikini Island. The article examines the relationship between oceanographers and the navy between 1930 and 1950.

Rainger, Ronald. 'A Wonderful oceanographic tool' The Atomic Bomb, radioactivity and the development of American oceanography. In: *The Machine in Neptune's Garden: Historical Perspectives on Technology and the Marine Environment*, edited by Helen M. Rozwadowski and David K. Van Keuren. Sagamore Beach, Massachusetts: Science History Publications, 2004,

93-131.

Scripps Institution is featured in this broad
Discussion of work on radioactivity in American
Oceanographic institutions.

Raitt, Helen. Exploring the Deep Pacific. New York: Norton, 1956, 272 pages.

Helen Raitt joined her husband, Scripps
geophysicist Russell Raitt on SIO Capricorn
Expedition and wrote this account of her
experiences and accomplishments of the expedition.

Raitt, Helen and Moulton, Beatrice. Scripps Institution of Oceanography: First Fifty Years. San
Diego: Ward Ritchie Press, 19 1967, 217 pages.

A history of the Scripps Institution of
Oceanography and its predecessor laboratories
from Ritter's first efforts to establish a
marine station to 1953. Includes bibliography
and copies of some important early manuscripts
in an appendix. Appendix also includes a list
of staff, and a list of Scripps Ph.d.
recipients, 1912-1966.

Raitt, Russell W. "Geophysics of the South Pacific." In Research and Geophysics, edited by
Hugh Odishaw, Cambridge, MA: MIT Press, 2 (1964):223-241.

"...summarizes some of the geophysical studies
in the South Pacific by Scripps Institution of
Oceanography as part of the IGY effort..."

Raitt, Russell W. "Seismic-Refraction Studies of Bikini and Kwajalein Atolls." Geological
Survey Professional Paper 260-K, Washington: GPO, (1954):507-526.

The introduction and acknowledgements of this
paper briefly discuss the 1950 University of
California, Scripps Institution of Oceanography
-U.S. Navy Electronics Laboratory Mid-Pacific
Expedition (MidPac).

Rehbock, Philip F. and Keith R. Benson, Oceanographic history: The Pacific and Beyond.
Proceedings of the Fifth International Congress on the History of Oceanography, Scripps
Institution of Oceanography, La Jolla, California, July 1993. Seattle and London: University of
Washington Press, 2002.

Proceedings of ICHO V held at the Scripps Institution
In 1993 in celebration of its 90th anniversary and including
many papers on its history.

Reichnitzer, Andreas B. "The First U.S. Scuba Training," National Association of Underwater
Instructors IQ Proceedings, 1994. 6p.

First person record of the development of
scientific diving, which began at SIO with
contributions by Reichnitzer, Conrad Limbaugh,
Jim Stewart and other La Jolla SCUBA pioneers.
The article discusses equipment, diver training
programs, certification procedures, operation and safety
rules developed from 1949 to 1960.

Reid, Joseph L. Jr. "Oceanography of the Northeastern Pacific Ocean During the Last Ten
Years." California Cooperative Oceanic Fisheries Investigations Reports, 7 (January 1, 1958-
June 30, 1959): 77-90.

A discussion of CalCOFI work in the North
Pacific and the work of SIO scientist Reid
and his associates during the period 1949-1959.

Reid, Joseph L. Jr. "Zetes Expedition." Transactions, American Geophysical Union,
47(December 1966):555-561.

Description of Scripps' 1966 expedition in
the North Pacific on R/V ARGO.

Revelle, Ellen Clark. "A Quiet, Adventurous Life." Scripps College Bulletin, Scripps College,
Claremont, California, 61 (February 1967): 24 pages.

A brief biography of Ellen Browning Scripps by
her grandniece, wife of SIO Director Roger
Revelle, on the occasion of Scripps College's
Founders Day Convocation, October 20, 1966.

Revelle, Roger. "The Age of Innocence and War in Oceanography." Oceans, 1 (1969):6-16.

Discusses the influence of World War II on
oceanography and the influence of oceanography
on the conduct of the war, and comments
especially on cooperation between the U.S. Navy
and oceanographic institutions including the
Scripps Institution of Oceanography and the
Woods Hole Oceanographic Institution.

Revelle, Roger. "Forward." U.S. Geological Survey Professional Paper 260. Washington: GPO,(1954):III-VII.

In this forward to a group of scientific papers on Bikini Atoll, Revelle discusses coral reef discoveries and the 1946 survey of Bikini Atoll undertaken by the Navy Bureau of Ships under his command, the work of Joint Task Force One which observed the 1946 Bikini atomic test, and Revelle's leadership of the Bikini re-Survey in 1947. He also mentions Scripps 1950 MidPac Expedition.

Revelle, Roger. "H.W. Menard, 1920-1986." EOS, Transactions of the American Geophysical Union, 67 (January 7, 1986):441-446.

Obituary of the Scripps geologist.

Revelle, Roger. "How I Became an Oceanographer and Other Sea Stories." Annual Review of Earth and Planetary Sciences, 15(1987):1-23.

Revelle describes his early interest in geology and oceanography, his experiences as a student and later, as a faculty member of the Scripps Institution of Oceanography, his relationship with Scripps Directors Thomas Wayland Vaughan and Harald Sverdrup, his work on Operation Crossroads in 1946 and the resurvey of Bikini Atoll a year after the atomic bomb test and the tremendous growth of oceanographic research and exploration during the post war period. Revelle describes Mid-Pac Expedition and Capricorn Expedition and their scientific accomplishments.

Revelle, Roger. "International Cooperation in Marine Sciences." Science, 126(December 27, 1957):1319-1323.

Revelle discusses developments in international cooperation among oceanographers through UNESCO's Marine Science Program and through the International Council of Scientific Union's Special Committee on Oceanic Research. The paper discusses the work of Revelle and other scientists in these developments.

Revelle, Roger. "The Scripps Institution of Oceanography, California." in Elisabeth Mann

Borgese, Ocean Frontiers: Explorations by Oceanographers on Five Continents. New York: Abrams (1992):15-53.

A substantial history of Scripps Institution by Roger Revelle, published in a book which includes articles about oceanographic institutions throughout the world.

Revelle, Roger. "Some Aspects of Deep-Sea Exploration." From Symposium on the Physical and Earth Sciences Honoring the 25th Presidential Year of Robert Gordon Sproul, Berkeley: University of California, (1958):53-65.

A discussion of the characteristics of the sea floor which includes comments about the Scripps Institution of Oceanography and Sproul's support for oceanographic research.

Revelle, Roger and Munk, Walter. "Harald Ulrik Sverdrup: An Appreciation." Journal of Marine Research, 7 (1948):127-131.

A brief description of Sverdrup and his scientific accomplishments by two scientists who considered him their mentor.

Revelle, Roger and Spiess, Fred Noel. "Charles Delorma Wheelock, 1877-1980." University of California In Memoriam, (1986):316-318.

Brief biography of Rear Admiral Charles D. Wheelock who retired from the Navy and became Associate Director of the Scripps Institution of Oceanography in 1953 and the first director of the Institute of Marine Resources the following year. Wheelock's contributions to the founding of UCSD are described.

Rhees, David J. A New Voice for Science: Science Service under Edwin E. Slosson, 1921-1929. M.A. thesis in history, University of North Carolina, Chapel Hill, (1979):94p. Bibliography.

This thesis includes a brief description of the founding of Science Service by E.W. Scripps and the appointment of its first president, William E. Ritter.

Ritter, Mary Elizabeth Bennett. "Medical Student and Intern." in Recollections of Cooper Medical College (1883-1905). Palo Alto: Stanford University School of Medicine, 1964.

Mary Bennett Ritter's memoirs of her years
as a medical student at Cooper Medical
College.

Ritter, Mary Elizabeth Bennett. *More than Gold in California, 1849-1933*. Berkeley, CA:
Printed by the Professional Press, 1933, 451 pages.

Autobiography of physician Mary Bennett Ritter,
wife of William E. Ritter. The book discusses
the early history of the Scripps Institution and
life in La Jolla during the Ritter's many years
there.

Ritter, William E. "The Attitude of the State of California toward Scientific Research." *Science*,
new series, 40(August 20, 1915):1-2.

Discusses appropriations made by the legislature
of the State of California for the support of
the Scripps Institution and Ritter's assessment
of the importance of state support for scientific
research.

Ritter, William E. "The Biological Laboratories of the Pacific Coast." *Popular Science Monthly*,
84(March 1915):223-232.

Largely concerns Scripps, but also mentions
Puget Sound, Friday Harbor and Hopkins Laboratory.

Ritter, William E. "The Biological Survey of the Waters of the Pacific Coast." *Science*, new
series, 20 (August 12, 1904):214-215.

Describes the establishment of the San Diego
Marine Biological Association, its facilities for
visiting researchers and its intention of surveying
coastal waters in California.

Ritter, William E. "A Business Man's Appraisal of Biology." *Science*, 44 (December 8,
1916):819-822.

Ritter discusses his relationship with E.W.
Scripps and, to a lesser extent, with Ellen
Browning Scripps.

Ritter, William E. "Calvin Olin Esterly." *Science*, 48(October 19, 1928):369-370.

Obituary of the marine zoologist associates with

Scripps Institution from 1910 until his death.

Ritter, William E. "Correlation of the Field with the Laboratory Researches in Marine Biology." Bulletin 16(Non-Technical) of the Scripps Institution of Oceanography, La Jolla, California, (June 30, 1930):3-11.

Discusses the problem of coordinating field and lab research at the Scripps Institution during the period when Ritter was director, and the work of early Scripps faculty including E.L. Michael, C.O. Esterly and George F. McEwen. Briefly discusses his student years to illustrate changes in the field of zoology over the previous forty years.

Ritter, William E. "The Culture Value of Science." Science, new series, 44 (August 25, 1916):261-264.

An address delivered by Ritter to a group of California secondary school teachers visiting the Scripps Institution in November 1915. It discusses the importance of educating the public, and particularly school children, in science, and the importance of broadly defining research in science to include philosophy.

Ritter, William E. "Dr. Fred Baker." Science, 38 (July 15, 1938):48-49.

Obituary.

Ritter, William E. "The Duties to the Public of Research Institutions in Pure Science." Popular Scientific Monthly, (January 1912):51-57.

"It seems desirable to place on record more fully than has hitherto been done the ideas held by the scientific director touching on the duties to the public of institutions for research in science generally and of this station [i.e. SIO] particularly." Mentions the aquarium as an element in public education offered by Scripps.

Ritter, William E. "Ellis L. Michael and his Scientific Work." Ecology, 2(January 1921): 70-72.

Obituary of the zoologist, who served as "Resident Naturalist" at Scripps from 1905-1909 and who was a member of the Scripps

faculty until his death.

Ritter, William E. "A General Statement of the Ideas and Present Aims and Status of the Marine Biological Association of San Diego." University of California Publications in Zoology, 2(April 5, 1905):1-17.

Ritter, William E. "The Harriman Alaskan Expedition." University Chronicle, (August 1899): 225-232.

E.H. Harriman undertook a cruise to Alaska at the urging of his physician from May 31, 1899 to July 30, 1899. He was accompanied by many guests and scientists who were invited to make the cruise a scientific expedition. William E. Ritter was among the scientists who joined the expedition.

Ritter, William E. "The Man, E.W. Scripps." [n.p. 1929].

This is a privately printed address delivered by Ritter at the dedication of Ellen Browning Scripps Residence Hall, Scripps College, Claremont, California, September 30, 1929.

Ritter, William E. "Marine Biological Association of San Diego." Science, new series, 26(September 20, 1907):386-388.

Ritter, William E. "The Marine Biological Station of San Diego: Its History, Present Conditions, Achievements and Aims." University of California Publications in Zoology, 9(March 9, 1912):137-248.

The most comprehensive early history of the Scripps Institution written by its founder and first director. This history includes staff lists, a historical sketch, a description of Scripps facilities including its campus and research vessel ALEXANDER AGASSIZ, its scientific results, its program for the future, a bibliography of staff publications, and appendices including its original articles of incorporation, by laws, a floor plan of the George H. Scripps Building, and photographs.

Ritter, William E. "The Marine Biological Station of San Diego, A Sketch of its History and Purposes and What the Station Is, with an Example Popularly Told, of the Investigations being Carried On." San Diego: Frye & Smith, (January 1910): 41 pages.

This is an article addressed to the people of San Diego describing the history and focus of the Marine Biological Association of San Diego, and also discussing Ritter's views of the aims of science in general.

Ritter, William E. "Marine Biology and the Marine Laboratory at San Pedro." *The University Chronicle*, 5 (1902):220-230.

Explains why a marine biological station is important, briefly describes the results of summer work at San Pedro in 1901 and 1902 and discusses the resources necessary to establish a permanent marine biological station in San Pedro.

Ritter, William E. "Organization in Scientific Research." *Popular Science Monthly*, 47(May 1905):49-53.

Ritter talks about how to encourage research and uses examples from marine biology. Specialization versus multidisciplinary research is discussed.

Ritter, William E. "Preliminary Report on the Marine Biological Survey Work Carried on by the Zoological Department of the University of California at San Diego." *Science, new series*, 18(September 18, 1903):360-366.

Describes the work conducted by Ritter and his colleagues and students during the summer of 1903 at the marine biological station established at the boathouse of the Hotel del Coronado with the support of the San Diego Chamber of Commerce and citizens of San Diego.

Ritter, William E. "A Proposed American Institute of Oceanography." *Science*, 58 (July 20, 1923):44-45.

Ritter announces the appointment of T. Wayland Vaughan as his successor as director of the Scripps Institution and discusses the change in research program evidenced by the renaming of the Scripps Institution for Biological Research as the Scripps Institution of Oceanography.

Ritter, William E. "The Relation of E.W. Scripps to Science." *Science*, 65(March 25, 1927):291-292.

Brief discussion of Scripps' scientific views
and interests.

Ritter, William E. "Science and the Newspapers." *Science*, 67(March 16, 1928):279-286.

This address was delivered December 29, 1927
before the American Association for the
Advancement of Science. Presents Ritter's
views and those of E.W. Scripps on scientific
coverage in American newspapers.

Ritter, William E. "Science Service as one Expression of E.W. Scripps's Philosophy of Life."
Presented to the Board of Trustees of Science Service at the Annual meeting, April 29, 1926.
Washington, D.C.: Science Service, (1926):31p.

Ritter, William E. "The Scientific Work of the San Diego Marine Biological Station during the
Year 1908." *Science*, new series, 28(September 11, 1908):329-333.

An annual report. Mentions that physicist
George Francis McEwen joined the staff.

Ritter, William E. "Scripps Institution for Biological Research." *Annual Report of the President
of the University of California, 1912-1913*, pp. 113-123.

In 1912, the Marine Biological Association of
San Diego became part of the University of
California and was renamed Scripps Institution
for Biological Research. This is Ritter's first
annual report as director of a UC laboratory.

Ritter, William E. "Scripps Institution for Biological Research." *Report of the President of the
University of California, 1917-1918*, Berkeley: University Press, 1918.

Specifically lists research program under
"war work."

Ritter, William E. "Work at the Marine Biological Station of San Diego During the Summer of
1911." *International Revue der Gesamten Hydrobiologie und Hydrographie*, Band 4(February
1912):533-537.

A description of research undertaken by scientists
at the Scripps Institution in 1912 and publications
resulting from their work.

Roads, John O. *Namias Symposium*. La Jolla: Scripps Institution of Oceanography, University

of California, San Diego, (SIO Reference Series 86-17), (August 1986): 201 pages.

This is a series of papers given by friends and colleagues of meteorologist Jerome Namias in honor of his 75th birthday, on October 22, 1985 at a symposium held at the Scripps Institution of Oceanography. The volume includes an autobiography by Namias and papers on meteorology and Namias' contributions to the field by Joseph Smagorinsky, Arnt Eliassen, Chester W. Newton, John E. Walsh and others.

Rodriguez, Cynthia. "On Being a Woman at Sea." *Bear Facts*, 13 (December 1974):2.

This is a brief article by one of the first women crew members hired by SIO, describing her work as a mess cook in the steward's department aboard R/V THOMAS WASHINGTON.

Rogers, Michael. "Five Weathermen of the Apocalypse." *Los Angeles Times Magazine* 5 (May 21, 1989):10 et. seq.

Article on greenhouse warming that includes discussions with Roger Revelle, Charles David Keeling, Richard Somerville and other Scripps scientists.

Roos, Robert de. "The Case of the Missing Sardine." *Collier's Magazine*, (October 15, 1954):p30.

Background on the CalCOFI program.

Rosenblatt, Richard H. "Carl Leavitt Hubbs, 1894-1979." In: Robert L. Fisher, Edward D. Goldberg and Charles S. Cox, editors. 2003. *Coming of Age: A Centennial Volume*. La Jolla: Scripps Institution of Oceanography UCSD, 2003, 45-55.

Biography of ichthyologist Carl Hubbs by his colleague and successor at Scripps Institution of Oceanography.

Rozwadowski, Helen M. "Engineering, Imagination and Industry: Scripps Island and Dreams for Ocean Science in the 1960's." In: *The Machine in Neptune's Garden: Historical Perspectives on Technology and the Marine Environment*, edited by Helen M. Rozwadowski and David K. Van Keuren. Sagamore Beach, Massachusetts: Science History Publications, 2004, 315-353.

Discussion of a never completed project to build an artificial island pier at Scripps Institution of

Oceanography.

Rudnick, P. "FLIP: An Oceanographic Buoy." *Science*, 146(December 1964): 1268-1273.

Description of the Floating Instrument Platform (FLIP) developed at the Scripps Institution of Oceanography Marine Physical Laboratory.

Rusnak, G.A. "Afoot and Afloat Along the Edge: Adventures of an Ingenuous Beachcomber - A Tribute to Francis Parker Shepard (1897-1985)." In *From Shoreline to Abyss: Contributions in Marine Geology in Honor of Francis Parker Shepard*, edited by R.H. Osborne (1991):1-7.

This biography of Shepard emphasizes his scientific achievements and academic career.

Salkovitz, Edward I., ed. *Science, Technology and the Modern Navy, Thirtieth Anniversary, 1946-1976*. Arlington, Virginia: Department of the Navy, Office of Naval research, (1976): 569.

This book consists of a number of papers gathered together to commemorate the 30th anniversary of the founding of the Office of Naval Research. The papers include one by Walter Munk and Peter Worcester entitled, "Monitoring the Ocean Acoustically," and one by Fred Spiess entitled, "Unconventional Vehicles for Ocean Research." The prefatory material to the volume discusses the history of ONR.

Sargent, Bill. "Profile: Walter H. Munk, Unifier of Ocean Fields." *Oceanus*, 26 (Winter 1983/84): 57-62.

Profile of the Scripps geophysicist.

Sargent, Marston C. "The Scripps Institution of Oceanography." *Naval Research Reviews*, 18(December 1965):1-11.

A profile of the institution, including a brief history, highlights of the scientific work of the institution including studies of surface waves by Walter H. Munk and others, development of FLIP and the DIMUS system, and programs including the California Cooperative Oceanic Fisheries Investigations (CalCOFI).

Sargent, Marston C. "Winfred Emory Allen, 1873-1947." *Transactions of the American Microscopical Society*, 67(April 1948):208-209.

Obituary.

Sargent, Peter. *The Sea Acorn: Scripps Institution of Oceanography: The People and the Place, 1936-1942*. San Diego: [Privately Printed], 1979, 298 pages.

The memoirs of Grace "Peter" Sargent, wife of Scripps scientist Marston Sargent. The prologue of this book consists of a group of letters exchanged by Ellen Clark Revelle and Alice Fleming during the period 1936-1937 when the Revelles were in Norway and the Flemings were at Scripps. The originals of these letters have been lost. The body of the book consists of Mrs. Sargent's memories of Scripps from the time that she and her husband arrived in 1937 through the 1970's.

Savelle, Audrey M. "Scripps Institution's Wrap Around Aquarium Museum." *California Monthly* (September 1951).

Brief article on the 1951 Thomas Wayland Vaughan Aquarium Museum with some background information on the history of the aquarium at Scripps. Includes a floor plan.

Schaefer, Milner B. "The Changing Law of the Sea-Effects on Freedom of Scientific Investigation." *Annual Conference of the Law of the Sea Institute*, 2d, Kingston, RI, (1967):113-120. Proceedings.

Scripps scientist and IMR Director Schaefer discusses the consequences to science of the extension of national jurisdictions over the sea. The presentation of the paper is followed by a transcript of the discussion of the paper, including remarks on the growing debate between scientists and military on the classification of results of scientific research.

Schaelchlin, Patricia A. *The newspaper barons: a biography of the Scripps family*; foreword by Neil Morgan. San Diego, California: San Diego Historical Society; Carlsbad, California: Kales Press, 2003, 251 pages.

First biography of the Scripps Family in America.

Schaefer, Milner B. "Freedom of Scientific Research and Exploration in the Sea." *Stanford Journal of International Studies*, 4 (June 1969):46-70.

Schaefer describes the views of oceanographers toward freedom of scientific research in the oceans and conflicts between these views and the increased extension of national jurisdictions into what was once considered international waters. Schaefer reviews the development of international oceanographic cooperation since World War II.

Schaefer, Milner B. "Introduction and Summary." *Limnology and Oceanography*, Supplement to 7 (1962):3-6.

Schaefer describes the "Pelagic Area Studies" conducted by SIO researchers in a preliminary study to support Operation Wigwam, the 1955 Pacific atomic test.

Schaefer, Milner B. "Oceanography and the Marine Fisheries." *Canadian Fisheries Reports*, (June 1965):29-35.

Discusses fisheries research conducted by the University of California Institute of Marine Resources.

Scheiber, Harry N. "California Marine Research and the Founding of Modern Fisheries Oceanography: CalCOFI's Early Years, 1947-1964." *California Cooperative Oceanic Fisheries Investigations Reports*, 31 (October 1990), 63-83.

Substantial historical study of CalCOFI, including an analysis of the participation of Scripps and Scripps scientists Harald Sverdrup, Roger Revelle and Carl Hubbs in the founding and direction of CalCOFI. This issue includes proceedings of the Fortieth Anniversary Symposium of the CalCOFI Conference, held in La Jolla on October 27, 1989.

Scheiber, Harry N. "Modern U.S. Pacific Oceanography and The Legacy of British and Northern European Science." in Stephen Fisher, ed. *Man and the Marine Environment*. Exeter: University of Exeter Press, 1994 (Exeter Maritime Studies Number Nine).

Describes the development of American fisheries research in the decade immediately following

World War II and gauges the influence of Northern European fisheries scientists on American scientists including William F. Thompson, Roger Revelle, Wilbert Chapman. Describes Harald Sverdrup's role in connecting European and American oceanography. The California Cooperative Oceanic Fisheries Investigation (CalCOFI) is described. Scheiber discusses how American scientists succeeded in attracting generous federal support for fisheries and oceanographic research during the postwar period.

Scheiber, Harry N. "Pacific Ocean Resources, Science and Law of the Sea: Wilbert M. Chapman and the Pacific Fisheries, 1945-1970." *Ecology Law Quarterly*, 13 (1986):381-534.

"This article is a study of several elements of [changes in ocean law and ocean sciences] in the development of marine science, ocean policy, and international law. Its framework is provided by the career and contributions of biologist Wilbert McLeod Chapman..." The article discusses postwar fisheries research at SIO and the work of Scripps scientists including Carl Hubbs, Roger Revelle and Milner Baily Schaefer.

Scheiber, Harry N. "U.S. Pacific Fishery Studies, 1945 to 1970: Oceanography, Geopolitics and Marine Fisheries Expansion." *Deutsche Hydrographische Zeitschrift, Ergänzungsheft, (Reihe B) 22* [Ocean Sciences: Their History and Relation to Man. Proceedings of the 4th International Congress on the History of Oceanography, Hamburg](1987):417-421.

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

Discusses Scripps among other oceanographic stations and institutions in a broad based history of oceanography concentrating on the 19th and 20th century with an emphasis on development in the U.S. Variant title: *A History of Oceanography: The Edge of an Unfamiliar World* used in the 1975 edition published in London by Robert Hale. Includes notes, bibliography and index.

Schmidt-Nielsen, Knut. "Per Fredrik Thorkelsson Scholander, November 29, 1905-June 13, 1980." *Biographical Memoirs of the National Academy of Sciences*, 56(1987): 387-412.

A biography of physiologist Per Scholander

which includes a list of Scholander's honors
and a selected bibliography.

Scholander, P.F. "Rhapsody in Science." *Annual Review of Physiology* 40 (1978):1-17.

Autobiography by Per Scholander.

Schwartzlose, Richard A. and Saúl Alvarez-Borrego, 2002. *The History of Oceanography along the Mexican Pacific Coast*. In: Rehbock, Philip F. and Keith R. Benson, *Oceanographic history: The Pacific and Beyond*. Seattle and London: University of Washington Press, 2002, 167-173.

A history of CICESE and its relationship with other
Mexican scientific institutions and with the Scripps
Institution of Oceanography.

Science and the Future Navy: A Symposium in Celebration of the Thirtieth Anniversary of the Office of Naval Research. Washington: National Academy of Sciences, 1977.

These are the proceedings of a symposium
held October 27/28, 1976 which includes
references to research at Scripps supported
by ONR funds.

Sclater, John G. "The Development of Plate Tectonics: A Personal Perspective." *SIO Reference Series* 92-30, (1992).

These are Sclater's memoirs of the acceptance
of the plate tectonics theory during the
late 1950's and early 1960's.

Sclater, John G.; Parsons, Barry; and Jaupart, Claude. "Oceans and Continents: Similarities and Differences in the Mechanism of Heat Loss." *Journal of Geophysical Research*, 86 (December 10, 1981):11, 535-11,552.

This volume of the *Journal of Geophysical Research* is a commemoration of Sir Edward Crisp Bullard. This article discusses Bullard's development of the temperature probe which was used by Revelle and Maxwell to make the first successful measurement of heat flow in the sea within a broad discussion of the basic physical processes controlling heat flow from the earth.

Scripps-Howard. *A Handbook of Scripps-Howard*. Cleveland: Newspaper Enterprise Association for the E.W. Scripps Company, 196), 2d edition.

Includes a history of the newspaper enterprise founded by E.W. Scripps and headed by his descendants.

"The Scripps Institute for Biological Research." *Science*, 41 (June 18, 1915):893-894.

Describes improved facilities of the Scripps Institution including the new pier.

"The Scripps Institution of Oceanography, La Jolla California: Outline of Scientific Work at the Scripps Institution of Oceanography, University of California, La Jolla, California, 1934." n.d., n.p. [SIO Subject Files, box 10, folder 47]

This brochure describes the institution in 1934.

Seiwell, H.R. "Military Oceanography in World War II." *The Military Engineer*, 39 (1947): 202-210.

This paper is concerned with the military oceanographic service during World War II, specifically the Oceanographic Section, 1st Weather Directorate, Army Air Forces (1941-1943) and its successors, the 6812 Engineer Technical Team, Oceanography and Beach, Office of the Chief Engineer, European Theater (1944-1945) and 6211 Beach Intelligence Unit, Headquarters, U.S. Army Forces, Pacific Ocean Area (1945). The article discusses research undertaken at the Scripps Institution pertinent to military oceanography. It also describes the course in oceanography offered at Scripps to Army Air Force Officers.

Sharp, Anne. "The Natural." *The Alumni UBC Chronicle* 39 (Spring 1985):14-16.

Biography of UBC alumnus and Scripps benefactor Cecil Green.

Shepard, Francis P. "Diving Saucer Descends into Submarine Canyons." *New York Academy of Sciences Transactions*, 27(January 1965):292-297.

Describes his use of the diving saucer DENICE for a series of dives exploring the submarine canyons of La Jolla in 1964.

Shepard, Francis P. "Shoreline Erosion at La Jolla, California, Special Instruments Developed in Study of Factors Responsible for Slow Recession of Coast." *Civil Engineering*, 13 (February 1943):80-82.

Discusses recession of sea cliffs at the
La Jolla campus of the Scripps Institution.

Shor, Elizabeth N. "A Chronology from Mohole to JOIDES." *Geological Society of America Centennial Special Volume 1*, 1985.

This is a chronology of the plan to drill a
hole to the Mohorovicic discontinuity, from
the suggestion that it be undertaken in 1957
to the inception of the Deep Sea Drilling
Project in 1964.

Shor, Elizabeth N. "E.C. Bullard's First Heat Probe." *EOS, Transactions of the American Geophysical Union*, 65 (February 28, 1984):73-74.

This is the edited transcript of an interview
conducted by Shor with Sir Edward Bullard about
the development of the heat probe at SIO in
the 1950's.

Shor, Elizabeth N. "Helen Raitt, UCSD Woman." *Bear Facts*, 14 (May 1976):1-2.

This issue of *Bear Facts* also includes vignettes
of Helen Raitt written by Frieda Urey, Ann Van
Atta, Odette Filloux, Melvin J. Voigt, Mary
Carol Isaacs, Ellen Revelle and others.

Shor, Elizabeth N. "Hollywood and the Scientist." *Oceans*, (May 1981):53-55.

An account of the adventures of Scripps
ichthyologist Carl Leavitt Hubbs on an
expedition on actor Errol Flynn's yacht
ZACA in 1946.

Shor, Elizabeth N. "How Scripps Institution Came to San Diego." *Journal of San Diego History*, 27 (Summer 1981):161-173.

A description of William E. Ritter's efforts
to establish a marine biological laboratory
and the founding of the Marine Biological
Association of San Diego. The article includes

a discussion of the contributions of E.W. and Ellen Browning Scripps and their relationship with Ritter.

Shor, Elizabeth N. "The Role of T. Wayland Vaughan in American Oceanography." In *Oceanography: The Past*, edited by M. Sears and D. Merriman, New York, Heidelberg, Berlin: Springer-Verlag, (1980):127-137.

Discusses Vaughan's career as a whole, but also discusses his program at the Scripps Institution.

Shor, Elizabeth N. "Scripps in the 1950's: A Decade of Bluewater Oceanography." *Journal of San Diego History*, 29 (Fall 1983):247-261.

A brief account of the expansion of the Scripps Institution of Oceanography beginning during the 1950's, including descriptions of expeditions and the expansion of the Scripps campus.

Shor, Elizabeth N. "Scripps Institution of Oceanography, 1903-1978." La Jolla, CA: Scripps Institution of Oceanography, (June 1978):20p.

A brief history of SIO which was prepared for its 75th anniversary celebration.

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

This history of SIO begins where Helen Raitt and Beatrice Moulton's *Scripps Institution of Oceanography: First Fifty Years* ends. The volume includes chapters on the origins and accomplishments of Scripps laboratories and programs including the Marine Physical Laboratory and the Institute of Marine Resources. The book also includes descriptions of SIO research vessels and expeditions. The appendix includes lists of Scripps buildings, and graduate students (1966-1976). Index.

Shor, Elizabeth N. "Tribute to Carl L. Hubbs (18 October 1894-30 June 1979)." *Marine Biology*, 55 (1979):81-82.

Obituary.

Shor, Elizabeth N. "Walking About Scripps, A Tour of UCSD's Scripps Institution of Oceanography (and a bit of history)." La Jolla: SIO, (1990, 2nd ed. 1992): 20p.

This is a walking tour with map of the Scripps Institution which describes the history of the institution and specific buildings.

Shor, Elizabeth N. and Ebrahimi, Carolyn L. eds. Marine Geophysics: A Navy Symposium in honor of the 80th birthdays of Russell W. Raitt and Victor Vacquier and the 40th Anniversary of the Marine Physical Laboratory of Scripps Institution of Oceanography of the University of California San Diego held on 16 October 1986 at Scripps Institution of Oceanography La Jolla, California. Marine Physical Laboratory Report No. MPL-U-42/87, (September 1987):98p.

The symposium includes biographical information on Russell Raitt and Victor Vacquier and bibliographies of their scientific publications.

Shor, Elizabeth N.; Rosenblatt, Richard H.; and Isaacs, John D. "Carl Leavitt Hubbs, October 18, 1894-June 30, 1979." Biographical Memoirs of the National Academy of Sciences, 56 (1987):215-249.

A substantial biography of the Scripps ichthyologist which includes a selected bibliography.

Shor, Jr., George G. "Explosion Seismology at Sea." U.S. National Report, 1963-1967, 14th General Assembly, Transactions of the American Geophysical Union 48 (June 1967):415-420.

Shor recalls his experiences with explosion seismology from 1959, with discussion of the use of the technique at the Scripps Institution and other oceanographic institutions. Bibliography.

Shor, Jr., George G. "Research Vessel Robert Gordon Sproul Handbook." SIO Ref. No. 84-36, (December 1984):13p.

"The purpose of this handbook is to acquaint scientific personnel with the characteristics and capabilities of R/V ROBERT GORDON SPROUL.."
A description of the vessel and its equipment with a deck plan.

Shor, Jr., George G.; Shor, Elizabeth N.; and Spiess, Fred N. "The George H. Scripps Memorial Marine Biological Laboratory of the Scripps Institution of Oceanography, University of California, San Diego." SIO Reference NO. 79-26, (October 1979).

This report on the first building built at the

La Jolla campus of the Scripps Institution of Oceanography in 1910 was submitted to the California State Office of Historic Preservation. The report describes the history of the property and the design and construction of the building by San Diego architect Irving Gill. Includes a bibliography.

Shragge, Abraham J. "Growing up Together: The University of California's One Hundred-Year Partnership with the San Diego Region." *Journal of San Diego History* 47, no. 4 (Fall 2001): 241-276.

An article on the relationship between the University of California and San Diego, drawn from the author's Doctoral dissertation at UCSD.

Shragge, Abraham and Kay Dietz. "Character, Vision and Creativity: The Extraordinary confluence of forces that gave rise to the Scripps Institution of Oceanography," *Journal of San Diego History* 49, no. 2 (2004), pp. 71-86.

An article on the founding of the Scripps Institution of Oceanography and the relationship between its founders and civic leaders in San Diego.

Shumway, George A.; Hubbs, Carl L.; and Moriarty, James R. "Scripps Estates Site, San Diego, California: A La Jolla Site dated 5460-7370 Years Before the Present." *Annals of the New York Academy of Sciences*, 93 (December 4, 1961):37-132.

This article describes an excavation conducted by Scripps Institution of Oceanography researchers and their archaeological discoveries at a site located within the Scripps Estates Associates property near the Scripps campus. The article includes a map of the area and a figure describing the Scripps Estates Associates subdivision.

Shutt, Richard. "Cinematography on the Ocean Floor." *American Cinematographer*, 54, no. 4 (April 1973):462-480.

The author, a member of SIO's Marine Life Research Group, describes the deep water cine system used by John Isaacs and his group to photograph benthic life beginning in the 1960's. This system was deployed in La Jolla, East Africa, in the Humboldt Current off Chile and at other locations and became known as the "Monster Camera." In 1971, the group edited film to produce a film,

“Life on the Abyssal Floor.”

Sibley, Charles G. "The ALPHA HELIX Expedition to New Guinea." *Discovery*, 4 (Fall 1968).

R/V ALPHA HELIX was operated by SIO.

Sibley, Robert, ed. *The Golden Book of California*. Berkeley: California Alumni Association, 1937, 1294 pages.

A pictorial history of the University of California which includes a section on the Scripps Institution. The bulk of the book consists of lists and directory information about the university. This sections includes a university chronology, a list of recipients of UC honorary degrees, and a list of alumni giving name, class, hometown and degree status. A geographical list of alumni is also provided.

Sibley, Robert, ed. "The Romance of the University of California." Berkeley: California Alumni Association, 1932.

Includes a brief description of SIO and its history.

Silverman, Maxwell and Gaul, Roy D. "The Concept of Portability Applied to Future Oceanographic Ship Operations." *Ocean Science and Ocean Engineering*, Joint Conference Marine Technology Society and American Society of Limnology and Oceanography. Washington, DC: Transactions, 1 (1965):384-397.

A general discussion of trends in the operation of oceanographic research vessels which makes reference to the SIO fleet.

Snodgrass, Frank E. "Deep Sea Instrument Capsule." *Science*, 162 (October 4, 1968):78-87.

Description of an instrument developed at the Institute of Geophysics and Planetary Physics.

Spiess, Fred Noel. "Charles Kofoid's Role in Establishing the Scripps Institution of Oceanography." In: Rehbock, Philip F. and Keith R. Benson, *Oceanographic history: The Pacific and Beyond*. Seattle and London: University of Washington Press, 2002, 7-16.

Life and career of biologist Charles Atwood Kofoid
And his work as a co-founder and Assistant Director
Of the Scripps Institution.

Spiess, Fred N. "A Note on the History of the G.H. Scripps Building." *Marine Technology Society Journal*, 11 (July-August 1977):43-44.

A brief history and description of the George H. Scripps building at the Scripps Institution of Oceanography, "the first truly permanent structure in any of the shoreside marine biological stations in the western hemisphere."

Spiess, Fred N. "Oceanographic and Experimental Platforms." From Ocean Engineering, edited by John F. Braatz, New York: Wiley, (1968):553-587.

Discusses history and design of many ocean platforms, including the Floating Instrument Platform (FLIP) developed by Spiess at the Scripps Institution and drilling structures and designs considered for Project Mohole.

Spiess, Fred N. "Up Periscope! Observations on Ocean Research Policy and Administration (as seen from below)." Marine Technology Society Journal, 23 (June 1989):40-49.

Scripps scientist and SIO Director 1961-1965 discusses the participation of scientists in planning ocean policy, federal long-range planning and funding priorities, and the "soft money" problem in oceanography.

Spiess, Fred N.; Munk, Walter H.; Isaacs, John D.; and Lieberman, Leonard N. "Carl Eckart, 1902-1973, Professor of Geophysics, Emeritus." University of California In Memoriam, (May 1977):89-91.

Obituary of the 1948-1950 Director of the Scripps Institution and director of the Marine Physical Laboratory.

Stadtman, Vernon A., editor. The Centennial Record of the University of California. Berkeley: University of California, (1967): 586 pages.

The section on San Diego includes a brief history of the campus and the Scripps Institution of Oceanography.

Stevens, George E. "From Penny Paper to Post and Times-Star: Mr. Scripps' First Link." Cincinnati Historical Society, Bulletin, 27 (1969):207-222.

Describes E.W. Scripps' early career, especially the acquisition of the first newspaper, the Cincinnati Post, and the history of the Post.

Stevens, George E. A History of the Cincinnati Post. University of Minnesota, Ph.D. Dissertation (December 1968): 432 pages.

A history of the Cincinnati Post which includes a description of E.W. Scripps' acquisitions and control of the paper.

Stevens, George E. "Scripps' Cincinnati Post: Liberalism at Home." Journalism Quarterly, 48(Summer 1971):231-234.

Describes the Cincinnati Post, the first newspaper in which E.W. Scripps owned a controlling interest.

Stratthaus, Mary Ellen. "Flaw in the Jewel: Housing Discrimination against Jews in La Jolla, California." American Jewish History (1997): 189-219.

This history of housing discrimination in La Jolla includes a discussion of the SIO subdivision Scripps Estates Associates (SEA) and the efforts of Roger Revelle and other University of California officials to break the "gentlemen's agreement" in La Jolla as a condition for the establishment of a new general campus of the University of California in La Jolla in 1960.

Strickland, J.D.H. "Research on the Marine Planktonic Food Web at the Institute of Marine Resources: A Review of the Past Seven Years of Work." Oceanography and Marine Biology, 10 (1972): 349-414.

This is a summary of the work of the Institute of Marine Resources Food Chain Research Group written by the group's leader, John Strickland, who died before this article was published. The article also includes comments on the work of the Scripps Tuna Oceanographic Research (STOR) program.

Stuart-Sharkey, Philip Isham and Uastin, Lloyd F. "Federal Regulation of Scientific Diving: Two Scientific Divers' Perspective." In IEEE, Oceans '83, Effective Use of the Sea: An update...volume 1:Technical Papers, Ocean Science, Ocean Engineering, New York: IEEE, (1983):460-463.

This paper describes the efforts of the Occupational Safety and Health Administration (OSHA) to regulate diving operations. As

background the "consensual nature of the scientific diving community's standards is demonstrated by tracing the family tree of the Diving Safety program of the University of Rhode Island back through the University of Michigan and the University of California at Berkeley to Scripps Institution of Oceanography in the early 1950's" The paper quotes SIO Diving Officer James Stewart.

Stuart-Sharkey, Philip Isham and McAniff, John J. "Scientific Diving Fatalities, 1970 through 1984: A Fifteen Year Review." In IEEE/Marine Technology Society, Oceans' 84: Conference & Exposition, Conference Record, Industry, Government Education, Designs for the Future, New York: IEEE, 2(1984):517-520.

Reviews diving fatalities reported in the files of the National Underwater Accident Data Center to examine the efficacy of diving control programs "similar to that pioneered at the Scripps Institution of Oceanography." The paper briefly describes fatal diving accidents without giving the names of divers or their professional affiliation.

Suess, Hans E. "Excerpts of a Letter by H.E. Suess to Professor Roger R. Revelle, dated 12/10/1982." In Meteoritics, 20 (1985):293-294.

The letter describes Suess's arrival at the Scripps Institution of Oceanography in 1955 and the establishment of the La Jolla Radio-carbon Laboratory. This issue of Meteoritics is a festschrift in honor of Suess's 75th birthday.

Sullivan, Water. Assault on the Unknown: The International Geophysical Year. New York: McGraw-Hill, 1961, 460 pages.

This is a description of the research goals, programs and accomplishments of the International Geophysical Year, written for the layman. The book includes a discussion of the SIO IGY expeditions (Downwind, 1957; Dolphin, 1958).

Summary Report: Sound Recording At UCDWR by the University of California Division of War Research at the U.S. Navy Electronics Laboratory. [San Diego, California: The Division], 1

October 1946, 87p.

UCDWR was established in San Diego in 1941 as to undertake U.S. Navy sponsored wartime research in submarine acoustics. This is a review of its work.

"Summer Assembly in Science at the Scripps Institution." *Science*, n.s., 63 (March 10, 1916): 343-344.

Brief announcement of the inauguration of a six week summer course at Scripps to "disseminate among teachers of biology... the discoveries and new points of view which are resulting from the investigations" of the Scripps Institution.

Sumner, Francis B. "A Biologist Reflects upon Old Age and Death." *The Scientific Monthly*, 61 (August 1945): 143-149.

Sumner discusses his own views of aging and death and remarks on his own experiences.

Sumner, Francis B. "Discontinuance of the La Jolla *Peromyscus* Program." *Science*, 52 (November 7, 1930): 477-478.

A brief announcement by Sumner that he has abandoned genetics studies of deer mice commenced in 1914 as the Scripps Institution has focused their program on oceanography rather than biology.

Sumner, Francis B. *The Life History of an American Naturalist*. Lancaster, Pennsylvania: Jacques Cattell Press, 1945, 298 pages.

The autobiography of Sumner which includes descriptions of his work, associates and friends at the Scripps Institution of Oceanography.

Sumner, Francis B. "The Naturalist as a Social Phenomenon." *The American Naturalist*, 54 (September-October 1940): 398-408.

This was originally a speech delivered at a symposium on "The Biological Basis of Social Problems," held in honor of W.E. Ritter at a

meeting of the Western Society of Naturalists
in Monterey on December 20, 1939. Sumner
discusses the definition of a naturalist,
including Ritter's views.

Sumner, Francis B. "William Emerson Ritter: Naturalist and Philosopher." *Science*, 99 (April
28, 1944): 335-338.

Obituary.

Sverdrup, Harald U. "Activities of the Scripps Institution of Oceanography, La Jolla,
California." *Proceedings of the 6th Pacific Science Congress*, 3 (July-August 1939):114-123.

Sverdrup, Harald U. "Comparison Between the Methods for Forecasting Sea, Swell and Surf
developed by the British Admiralty and the Scripps Institution of Oceanography." (SIO Contract
N6ori-111-Task VI, Wave Report #59), SIO Reference Series 46-8, November 20, 1946.

Sverdrup's appraisal of the differences between
British and American methods of predicting sea
conditions during World War II.

Sverdrup, Harald U. "Cruises of the E.W. SCRIPPS in 1939." *Scientific Monthly* (October
1939):389-391.

Sverdrup led this expedition, which was
the beginning of the first comprehensive
hydrographic survey of the Gulf of California.

Sverdrup, Harald U. "The Gulf of California: Preliminary Discussion of the Cruise of the E.W.
SCRIPPS in February and March 1939." *Proceedings of the Sixth Pacific Science Congress*,
(Contributions of the Scripps Institution of Oceanography, new series, No. 109), 161-166.

Sverdrup, Harald U. "Oceanographic Research at the Scripps Institution of Oceanography April
1936 to April 1937." *Transactions of the American Geophysical Union*, 18th Annual Meeting,
(1937):210-216.

Sverdrup, Harald U. "Physics and Geophysics, with Special Reference to Problems in Physical
Oceanography." Berkeley: University of California Press, 1939.

This is a faculty research lecture that Sverdrup
delivered at UCLA on March 23, 1938. It discusses
physics and geophysics in the broadest terms,
but includes references to the work of the
Scripps Institution.

Sverdrup, Harald U. "Research in Oceanography, California Scientists Study the Ocean."

California Monthly, (December 1940).

Sverdrup, Harald U. "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography during April 1938 to April 1939." Transactions of 1939 of the American Geophysical Union, pp. 422-427.

Sverdrup continued Vaughan's practice of publishing an annual summary of research conducted at Scripps in the Transactions.

Sverdrup, Harald U. "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography during April 1939 to April 1940." Transactions of 1940 of the American Geophysical Union, pp. 343-346.

Sverdrup, Harald U. "The Work at the Scripps Institution of Oceanography." Collecting Net, 12 (July 17, 1937):57, 60-61.

Sverdrup, Harald U. and Staff "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography, During April 1940 to April 1941." Transactions of the American Geophysical Union, (1940):490-494.

Sverdrup, Harald U. "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography During April 1942 to April 1944." Transactions of the American Geophysical Union, 25 (November 1944):605.

Sverdrup, Harald U. "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography during April 1943 to April 1944." Transactions of the American Geophysical Union, 25 (November 1944):127-128.

Sverdrup, Harald U. "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography during April 1945 to April 1946." Transactions of the American Geophysical Union, 27 (August 1946):571-573.

Sverdrup, Harald U. "Research within Physical Oceanography and Submarine Geology at the Scripps Institution of Oceanography during April 1946 to April 1947." Transactions of the American Geophysical Union, 28 (October 1947):801-802.

Sweeney, Daniel. "Why Mohole Was No Hole." American Heritage Invention and Technology, 9 (Summer 1993): 55-63.

Project Mohole history with color illustrations.

Talley, Lynne D. and Dean Roemmich. "A Tribute to Joseph L. Reid in Recognition of 40 Years of Contributions to Oceanography." Deep Sea Research 38 (1991) vii-xi.

Introduction to a festschrift volume of Deep Sea

Research honoring Reid. Includes a brief biography and bibliography.

Thomas, Harold. "Roger Revelle: President Elect, 1973." *Science*, 179 (February 1973): 818.

Thompson, Thomas G. "Thomas Wayland Vaughan, September 20, 1873 - January 16, 1952." *Biographical Memoirs of the National Academy of Sciences*, 32 (1958):399-409.

Biography of the distinguished geologist and Director of the Scripps Institution, 1924-1936.

Thone, Frank E.A. and Bailey, Edna Watson. "William Emerson Ritter: Builder." *The Scientific Monthly*, 24 (March 1927):256-262.

Biography of William E. Ritter which mentions his work at Scripps and his work with Science Service. It also includes a brief description by Charles Atwood Kofoid of Ritter's preliminary efforts to establish a marine biological station from 1900-1903.

Tibby, Richard B. "Results of Oceanographic Investigations off the California Coast, 1939-1940." Dissertation for the Ph.D. (Oceanography), February 1944, University of California, Graduate Division, Southern Section, 161p.

A historical summary of investigations of the California coast, including a discussion of the work of several early Scripps investigators and expeditions. Includes a description of the May-July E.W. SCRIPPS Cruise VIII and Cruises X-SV March-June 1940.

Treadwell, T.K.; Gorsline, D.C. and West, R. "History of the U.S. Academic Oceanographic Research Fleet and the Sources of Research Ships." *Oceanography*, 2 (1989):36-39.

A history of the American academic fleet including vessels operated by the Scripps Institution of Oceanography.

Treadwell, T.K.; Gorsline, D.C. and West, R. "History of the U.S. Academic Oceanographic Research Fleet and the Sources of Research Ships: A Report from the UNOLS Fleet Improvement Committee." College Station, Texas:University-National Oceanographic Laboratory System Fleet Improvement Office (1988):55p.

Vessels operated by WHOI, SIO and other American institutions are described in this history of

the U.S. academic research fleet.

Trimble, Vance H. The Astonishing Mr. Scripps: The Turbulent Life of American's Penny Press Lord. Ames: University of Iowa Press, 1992, 547 pages.

E.W. Scripps' grandson Charles E. Scripps asked Scripps-Howard journalist Trimble to undertake this extensive biography which concentrates mainly on E.W. Scripps' newspaper career. Index.

Trimble, Vance H, ed. Faith in My Star. Memphis, Tennessee: Printed for the E.W. Scripps Company, 1990, 133 pages.

A compendium of E.W. Scripps quotations selected and edited from his letters and papers by his biographer, Vance Trimble who describes the book as "a selection of his own words that showcase the vision and vitality of E.W. Scripps."

Tucker, Robert B. "Dr. Edward A. Frieman." PSA Magazine, October 1987, p. 72 et. seq.

Interview with the newly appointed director of the Scripps Institution of Oceanography.

"Twenty-Fifth Anniversary Series: 1960, Munk Genuflects to pre-UCSD Era." UCSD Guardian, (October 24, 1985):8.

Interview conducted with Walter H. Munk about the origins and early days of the University of California, San Diego.

United States. Office of the Oceanographer of the Navy. The Ocean Science Program of the U.S. Navy: Accomplishments and Prospects. Alexandria, Virginia: Office of the Oceanographer of the Navy, 1970, 99 pages.

This book includes a chapter on Navy science, a description of the organizational structure and programs of the Office of the Oceanographer of the Navy, and support provided through the Oceanographer for research in oceanography, and the support of oceanographic institutions and vessels. The Scripps Institution is mentioned frequently.

University of California. Annual Report of the President of the University, 1912-1913-1936.

Berkeley: University of California, 1912-1913-1936.

Beginning in 1912, when the Scripps Institution for Biological research became part of the University of California, the annual report of the President of the University of California includes a section on the Scripps Institution, usually presented in the form of a letter from the Director of the Scripps Institution to the President. This practice was discontinued in 1936.

University of California. Register, 1865- .

Annual publication includes list of students, course lists, and announcements for laboratories including the Scripps Institution of Oceanography and lists of degree recipients.

University of California. Division of War Research. Roster, 1941-1945 [of the] University of California Division of War Research at the U.S. Navy Radio and Sound Laboratory San Diego, California." [San Diego: University of California Division of War Research, 1946]:64p.

Includes a brief description of the formation and early history of the lab and its chief officers and then lists laboratory "active members" as of March 1, 1945 together with each member's photograph, address, job title and date of initial appointment.

University of California. Division of War Research. "Completion Report made to the Chief of the Bureau of Ships Navy Department Covering Operations of the University of California Division of War Research at the U.S. Navy Electronics Laboratory San Diego, California under Contract NObs02074 (Formerly OEMsr-30) from 26 April 1941 to 30 June 11946." [San Diego: UC, 1946, 19p.]

This report describes the genesis of the National Defense Research Committee Laboratories, the establishment of the UCDWR, the operation of the laboratory, and its close at the end of the war.

University of California. Division of War Research. "Underwater Noise Caused by Snapping Shrimp." Navy Department, Bureau of Ships, Contract NObs-2074 (formerly OEMsr-30), April 1, 1946.

Describes UCDWR investigations of underwater

noise that interfered with submarine communications. UCDWR began its investigations in 1942 and Martin Wiggo Johnson identified the noise early in 1943 as the claw snapping of snapping shrimp.

University of California Institute of Marine Resources. California and Use of the Ocean: A Planning Study of Marine Resources Prepared for the California State Office of Planning, October 1965. (IMR Reference 65-21). La Jolla: University of California, Institute of Marine Resources, 1965.

Broad study of California marine resources including the state's population and growth and its impact on these resources, wildlife conservation, economic considerations, etc. This report was written by the UC IMR. The study emphasizes the importance of close cooperation between the state and the University of California, and support for academic research in oceanography, marine biology, coastal processes and other fields.

University of California. Scripps Institution of Oceanography. "Data Collected by Scripps Institution Vessels on Eastropic Expedition, September-December 1955." SIO Reference 56-28 (October 15, 1956):150p.

This report consists almost entirely of data but does include a list of scientific personnel, the objectives of the expedition and describes the expedition briefly in the introduction.

University of California. Scripps Institution of Oceanography. "Data Collected by Scripps Institution Vessels on Equapac Expedition, August 1956." SIO Reference 57-25 (June 1, 1957):125p.

This report consists almost entirely of data but includes a list of scientific personnel on the expedition and an introduction that briefly describes the expedition.

University of California. Scripps Institution of Oceanography. "Graduate Study and Research at the Scripps Institution of Oceanography," [La Jolla: UC/SIO, c1950].

This is a brief description of enrollment procedures and the academic program of the Scripps Institution.

University of California. Scripps Institution of Oceanography. "Navy-Supported Unclassified Publications of the Scripps Institution of Oceanography, 1955." SIO Reference 56-7, (February 21, 1956): 30 pages.

This is a chronological list of papers written by Scripps researchers to describe the results of navy-sponsored research at Scripps. The bibliography includes full citations of articles and research reports, some abstracts, and an index that lists titles and joint authors.

University of California. Scripps Institution of Oceanography. "NORPAC Hydrographic Data: Report of the Scripps Institution of Oceanography, University of California, and the South Pacific Fishery Investigations, U.S. Fish and Wildlife Service, for the NORPAC cruise of August-September 1955." SIO Reference 56-4, (February 10, 1956):186p.

This report consists almost entirely of data, but does include a list of contributors to NORPAC, the synoptic oceanographic survey of the North Pacific Ocean, and a brief description of NORPAC.

University of California. Scripps Institution of Oceanography. Reference Series, 1945-. [La Jolla: UC/SIO, 1945-].

The reference series is used largely for 'in-house' publications. It includes sponsored research progress reports, laboratory annual reports, reports of expeditions, descriptions of instruments, and other material. Items are arranged chronologically according to a sequential SIO reference number. There are a number of bibliographies. "Bibliography of the SIO Reference Series, 1945-1968," (SIO Ref. No. 69-13); "Cumulative Bibliography of the SIO Reference Series, 1969-1973," (SIO Ref. No. 73-42); "Bibliography of the SIO Reference Series, 1979-1983," (SIO Ref. No. 83-27); "Bibliography of the SIO Reference Series, 1984-1988," (SIO Ref. No. 88-24). These bibliographies are updated annual and cumulated every five years. They list reference numbers numerically and give title, date, author, and number of pages for each item. Some also include an author index.

University of California. Scripps Institution of Oceanography. "Shipboard Report, Capricorn Expedition, 26 September 1952-21 February 1953," SIO Reference 53-15, (February 25, 1953):60p., illustrated.

Describes SIO Capricorn Expedition, and includes a list of scientific personnel. "The principal aim of Capricorn was to study the deep Pacific basin by seismic shooting, echo sounding, coring, magnetic surveys, measurements of heat flux, and other means."

University of California. Scripps Institution of Oceanography. Advanced Ocean Engineering Laboratory. "Wave-Wind-Current Research Facility." Technical Report, SIO Reference 70-29, (October 1, 1970):345p., illustrated, bibliography.

This report gives a general description of the Wave-Wind-Current Research Facility placed into operation by the Advanced Ocean Engineering Laboratory in 1970.

University of California. Scripps Institution of Oceanography. Annual Reports, 1967-1992. La Jolla: UCSD/SIO, 1967-1992.

From 1967 to 1992, annual reports of the Scripps Institution were issued and published by Scripps. Before that date, Scripps directors submitted an annual report to the President of the University of California which was condensed and integrated into the Annual Report of the President of the University of California. Directors Vaughan and Sverdrup published annual descriptions of research undertaken at Scripps in the Transactions of the American Geophysical Union during the period 1930-1947. The annual report was replaced by Scripps Institution of Oceanography Explorations, a quarterly that began publication Summer 1994. The annual report is published as one of the quarterly issues.

University of California. Scripps Institution of Oceanography. "80 Years, Scripps Institution of Oceanography: A Historical Overview, 1903-1983," La Jolla: UCSD/SIO, (September 1983):8p.

This is a brief history of Scripps issued in pamphlet form.

University of California. Scripps Institution of Oceanography. Scripps Institution of Oceanography Explorations. La Jolla: UCSD/SIO, 1994-.

Scripps Institution of Oceanography Explorations, a quarterly that began publication Summer 1994,

replaces two Scripps publications, the newsletter and the Annual Report. The publication is intended to inform and educate the public, Scripps alumni, the scientific community and friends about ongoing research and events. The annual report is published as one issue of the quarterly, beginning with the 1993 Annual Report which is volume 1, number 1 (Summer 1994).

University of California. Scripps Institution of Oceanography. Growth Plan, 1975, La Jolla: UCSD/SIO, (1975):64p.

Includes sections on growth projections, the instructional program, research and public service programs. Also includes a map of the Scripps campus and a Scripps Institution organizational chart.

University of California. Scripps Institution of Oceanography. "1903-1983: Scripps Institution of Oceanography: Eighty Years of Research, Teaching, and Public Service in the Marine Sciences," La Jolla: UCSD, Scripps Institution of Oceanography, 1984, 8 pages.

A brief history of SIO which was prepared for its eightieth anniversary.

University of California. Scripps Institution of Oceanography. "Ocean Studies Contract N00014-69-6006, Final Report," SIO Reference Number 74-14 (1974):48p.

This is really a bibliography of scientific publications, technical reports and theses written during the period 1963-1973 with support from the Ocean Studies Contract. The brief introduction gives an overview of scientific achievement made with contract support.

University of California. Scripps Institution of Oceanography. "Preliminary Report Step-I Expedition, 15 September-14 December 1960," SIO Reference 61-9, (January 16, 1961):59p.

Consists mainly of data resulting from the expeditions, but the report also includes a track of the expedition, a brief description of the expedition in the introduction, a list of scientific personnel and a statement of the purpose of the expedition.

University of California. Scripps Institution of Oceanography. SIO Alumni Biographies, La

Jolla: UCSD/SIO, (1978):62p.

Brief biographies of SIO alumni prepared as part of the celebration of SIO's 75th anniversary. Gives name, address, name of spouse and children, degrees, field of specialization for each alumnus and a paragraph by each alumnus on his/her activities since leaving Scripps.

University of California. Scripps Institution of Oceanography. Student Committee. SIO Research Activities, First (September 1968-). La Jolla: SIO Student Committee, 1968-.

This is an annual description of research undertaken at the Scripps Institution.

University of California. Scripps Institution of Oceanography. Marine Physical Laboratory. "Current Major Projects of the Marine Physical Laboratory," SIO Reference No. 75-16 (May 1, 1975).

"This report describes the early 1975 status of major research programs at the Marine Physical Laboratory of the Scripps Institution of Oceanography, UCSD. The descriptions are divided into four general areas of ocean acoustics, sea floor studies and technology, signal processing, and environmental studies. Special facilities used in the MPL research programs are described briefly."

University of California. Scripps Institution of Oceanography. Marine Physical Laboratory. "Current Major Projects of the Marine Physical Laboratory," Summary Report No. MPL-U-74/76, SIO Reference No. 76-22, (December 31, 1976):16p.

This report describes the early 1976 status of MPL projects in ocean acoustics, sea floor studies and technology, signal processing and environmental studies. The report includes a description of MPL organizations, a list of MPL academic staff with brief biographies. The introduction gives a brief history of MPL.

University of California. Scripps Institution of Oceanography. Marine Physical Laboratory. "Instrumentation and Platform Development." Naval Research Reviews, 35 (1983):5-17.

Describes instruments and research platforms

designed by the Marine Physical Laboratory.

University of California. Self Study for Reaffirmation of Accreditation, April 1986. La Jolla: UCSD, 1986, 385pages.

A study of UCSD with a chapter on the history of the campus which includes a discussion of the Scripps Institution of Oceanography and Roger Revelle's role in establishing UCSD and a section on Scripps under education which discusses the Scripps curriculum.

Vacquier, Victor. "Many Jobs." Annual Review of Earth and Planetary Sciences, 21 (1993):1-17.

Autobiography of Vacquier.

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Vaughan, Thomas Wayland. "Scripps Institution of Oceanography." Annual Report of the President of the University, 1927-1928, Berkeley: University of California, (1929):235-244.

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Weart, Spencer R. "Global Warming, Cold War, and the Evolution of Research Plans." Historical Studies in the Physical and Biological Sciences 27, no. 2 (1997), pp. 319-356.

A study of scientific attitudes toward climate change among American scientists beginning in 1950 that discusses the work of Charles David Keeling and Roger Revelle in comparison and in contrast to the earlier work of Guy Stewart Callendar and Gilbert N. Plass.

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This is a description of E.W. Scripps' system of selecting and training young men as newspaper editors and providing funds for them to use in establishing new Scripps newspapers. Includes a brief reference to the affairs of the Scripps Institution of Oceanography.

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Biography of the Scripps biological oceanographer.

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This book describes the development of the measurements

of carbon dioxide in the atmosphere and the concept of global warming, concentrating on the work of Charles David Keeling. The book is based on interviews conducted with scientists throughout the world, including Charles David Keeling, Roger Revelle and Richard Somerville at SIO.

Weir, Gary E. Forged in War: The Naval-Industrial complex and American Submarine Construction, 1940-1961. Washington: Naval Historical Center, 1993, 314 pages.

A history and analysis of the "partnership between the Navy, industry, and science forged by World War II and responsible for producing submarines in the United States from 1940 through 1961." Includes a discussion of the mobilization of oceanographic institutions including WHOI and SIO and brief discussion of UCDWR contributions to the war effort.

Weir, Gary E. An Ocean in Common: American Naval Officers, Scientists, and the Ocean Environment. College Station: Texas A&M University Press (Military History Series, 72), 2001, 404 pages.

A broad study of navy-academic relations in oceanography Which considers the Scripps Institution and other American oceanographic Institutions.

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This is the proceedings of a conference held in Washington on May 4, 1966 to mark the 20th anniversary of the establishment of the Office of Naval Research. It includes an appraisal of the work of ONR by Alan T. Waterman and a number of other papers which discuss post-war federal support for scientific research and the Office of Naval Research in particular.

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Describes acoustic tomography theory developed by Carl Wunsch, Walter Munk and Robert Spindel, tests of theory and possible application.

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Obituary of the Scripps biochemist.

White, Stan M. "Deep Sea Drilling." Geotimes, 24 (January 1979):21-23.

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A brief history of the Scripps Aquarium-Museum.

Winterer, Edward L., et. al. "Milton Nunn Bramlette, 1896-1977." University of California In Memoriam, (September 1979):10-12.

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Wolfe, Dael. "The 1959 Oceanographic Congress: An Informal History." Oceanography: The Past, edited by M. Sears and D. Merriman, NY/Heidelberg/Berlin: Springer-Verlag, (1980):42-48.

This is the story of the planning for the first International Oceanographic Congress which was held in New York in August and September 1959. Roger Revelle was one of the planners, and the article describes his role in the congress.

Wolff, Torben. "The Creation and First Years of SCOR (Scientific Committee on Oceanic Research)." Deutsche Hydrographische Zeitschrift, Ergänzungsheft, (Reihe B) 22 [Ocean Sciences: Their History and Relation to Man. Proceedings of the 4th International Congress on

the History of Oceanography, Hamburg]337-343.

This history of SCOR includes comments on Roger Revelle's efforts to promote international cooperation in oceanography.

Wood, Robert Muir. The Dark Side of the Earth. London: George Allen & Unwin, 1985, :246 pages.

A history of the plate tectonics revolution of the 1960's, includes discussion of the work of Scripps researchers Sir Edward Crisp Bullard, Walter Munk, Arthur Raff, Roger Revelle and others.

Wooster, Warren S. "University of California, Scripps Institution of Oceanography, Operation Northern Holiday, August-September 1951, A Preliminary Report." SIO Reference Number 51-46 (November 15, 1951): 16 pages.

This is a description of the Northern Holiday Expedition, July 28, 1951 to September 26, 1951. It includes a list of the scientific personnel, the Expedition track, and a summary of expedition results.

Wooster, Warren S. "University of California, Scripps Institution of Oceanography, Preliminary Report, Shellback Expedition 17 May to 27 August 1952." SIO Reference No. 52-47 (September 5, 1952):25 pages.

Includes a section entitled, "Public Relations," and "Seamounts," not included in the revised report published December 1, 1952.

Wooster, Warren S. "University of California, Scripps Institution of Oceanography, Shellback Expedition, 17 May to 27 August 1952." SIO Reference No. 52-63 (December 1, 1952):14p.

Includes a list of personnel, narrative and track of the cruise and a discussion of the findings of the expedition.

Wordie, J.M. "Prof. H.U. Sverdrup." Nature, 180 (November 1957):1023.

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