

Accession No.: 81-16

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Scripps Institution of Oceanography

SIO Subject Files, 1890-1981

Bulk Dates 1930-1970

Physical Description: 88 mss; oversize

Arrangement: The arrangement of the Subject Files was devised by Elizabeth Noble Shor, SIO Archivist, 1973-1981. The Subject Files are arranged into two large units: S.I.O. files and Non-S.I.O. files. Within these two sections, folders are arranged alphabetically. Folders bearing identical folder headings are generally arranged chronologically. There is one exception to this rule. Material filed into the broad subject heading "Ships" is arranged alphabetically by ship name. Material filed into the broad category "Expeditions" was originally arranged alphabetically, but has been rearranged chronologically by expedition date. Items within folders are arranged chronologically.

Scope and Content: The SIO Subject Files consist of 35 linear feet of material in 88 boxes. The files include both manuscript and archival material dated 1890-1981, but the bulk of the collection includes material which documents the period 1930-1970. Although the files consist overwhelmingly of material documenting the history of the SIO, they also include material pertinent to the history of oceanography in the twentieth century.

The Subject Files are divided into two series entitled "S.I.O." and "Non-S.I.O."

Material in the "S.I.O." series comprises the bulk of the collection (30 linear feet). Both series contain material created or received by SIO offices and personnel and concern activities undertaken at Scripps or elsewhere by Scripps personnel.

The "Non-S.I.O." series, however, largely concerns relationship of SIO with outside groups, such as the American Miscellaneous Society, the U.S. Navy and the National Science Foundation. The "Non-S.I.O." series also includes material concerning Scripps participation in national and international programs such as the International Geophysical Year and the International Indian Ocean Expedition.

The Subject Files include large groups of files documenting Scripps budgets and property, conferences and symposia, expeditions, staff, contracts and research, and ships.

BUDGET

There are 85 folders of material (approximately 1.5 linear feet) filed under "Budget." This includes material dated 1910-1974, but the bulk is dated 1918-1948. Material in these folders includes formal budgetary documents, calculations, summaries of accounts, memoranda and notes. Scripps did little formal budgetary planning before 1912 when it joined the University of California. Until 1947, the University required the Institution to submit biennial budgetary requests. After that date, budgetary requests were submitted annually.

BUILDINGS AND PROPERTY

There are 110 folders of material (approximately 2 linear feet) arranged under the heading "Buildings and Property." This includes correspondence, maps, reports, specifications, blueprints and plans, bills, accounts and notes documenting buildings and property improvements planned and/or constructed on the Scripps campus or for Scripps. The section also includes a few folders on general campus improvements (e.g. access roads, telephone system installation). Although material in the section largely documents plans for construction of buildings, there is also material on space planning, long range campus planning, and the utilization of existing buildings.

CONFERENCES AND SYMPOSIA

There are fourteen folders under the heading "Conferences" and six folders under the heading "Symposia" which document conferences and symposia held on the Scripps campus and/or organized by the Institution of its personnel.

EXPEDITIONS

There are 285 folders of material (approximately 5 linear feet) filed under the heading, "Expeditions." This material includes correspondence, schedules, tracks, maps, expedition planning proposals, proposals from scientists concerning their participation in expeditions, lists of crew and expedition participants, reports, summaries, ships logs and a few diaries of persons who participated in expeditions. This material concerns expeditions in which SIO scientists participated. Most of the expeditions included in this section were planned and executed by Scripps. Material filed in the "Expeditions" section was largely drawn from the files of the Ship Scheduling Office and therefore includes more information on expedition planning than expedition results. Information in the "Expedition" section is complemented by material filed under "Marine Facilities" and material filed under "Ships".

CONTRACTS AND RESEARCH

There are sixteen folders filed under the heading "Contracts" and fifty-seven folders filed under the heading "Research." Both sections include correspondence, copies of contracts and research summaries. However, material filed under "Contracts" concerns specific SIO contracts while material filed under "Research" concerns broad areas of research pursued by scientists at Scripps with internal support or support from one or more outside agencies. Other material on research at SIO can be found filed directly under the name of the unit conducting

the research (e.g. Marine Life Research Program) or under a subject heading (e.g. Submarine Geology).

SHIPS

There are 243 folders of material (approximately five linear feet) filed under the heading "Ships." This material includes correspondence, specifications, plans, contracts, memoranda, ship operations data, maintenance logs and other items documenting vessels and platforms owned, chartered by, operated by, or otherwise affiliated with SIO. The "ships" section also includes material on ship design. For instance, there are folders concerning the U.S. Navy, Naval Ship Engineering Center design AGOR or T-AGOR. AGOR was not a specific ship but rather a design for a series of ships built by the Navy. The R/V Thomas Washington and the R/V Melville are AGOR design ships. Additional information on SIO vessels and marine operations can be found among folders entitled "Marine Facilities" and among folders documenting the work of the Marine Operations Committee under the name of the Committee and under the heading "S.I.O. Staff Council, Committees."

PERSONNEL

There are fifteen folders of material concerning SIO personnel filed under the heading "Staff Lists." This material includes aggregate data on SIO personnel and lists of staff which include names, character of work, title and/or department, name of spouse, home address, phone number, date hired, and salary. These lists were generated by a variety of offices, including the Academic Affairs office and the SIO Staff Council. A list dated 1953 also gives a brief biography of staff members. In addition to material filed under the heading "Staff Lists," there is a small quantity of personnel material filed under "Research, American Petroleum Institute, Project 51." The "Marine Facilities" section also includes lists of crew members.

1890-1910

The collection includes approximately 20 folders of material dated before 1911. There are ten folders of material documenting the Marine Biological Association of San Diego which was formed in 1903 and served as the governing body of the station which was to become SIO. There is one folder under the heading "Ships" which includes a document entitled, "Soundings off San Diego, Albatross, 1904." There is one folder on the station's budget in 1910, and there are several folders under the heading "Buildings and Property" concerning the station during this period. One of the buildings and property folders concerns the laboratory at La Jolla Cove, 1905-1910, the location of the station before the current campus site was acquired. There are folders on the construction of the Scripps Building in 1909 and the construction of the seawall on the Scripps campus. There are several folders under the heading "History" which consist largely of published essays on the history of SIO, but also include some notes and photocopies of original material relevant to the history of Scripps which are housed at other repositories.

SHIPS during 1890-1910

The "Ships" section of the Subject Files includes several folders of material on the first ships used by Scripps. There is one folder documenting the lease of the launch Elsie which consists of a contract between the owner of the launch and William Emerson Ritter, first director of SIO. The Elsie was used for oceanographic work by Ritter and his associates at San Pedro in

1901. There are four folders pertinent to the yacht Loma owned by Edward Willis Scripps. E.W. Scripps first loaned and later donated the yacht to the station during the period 1904-1906. The files include correspondence and financial records concerning the Loma, and the yacht's during a trip to San Clemente in July, 1905. There are three folders of material relevant to the R/V Alexander Agassiz, a yawl built for the marine biological station in 1907. These folders include correspondence regarding the acquisition of the vessel and its use, a bill of sale dated 1912, and notes by Helen Hill Raitt on the ship.

1911-1920

The Subject Files include some fifteen folders of material documenting the history of Scripps during the period 1911-1920. These include five folders of material on the budget, two general folders of material on buildings and property, a folder of building record cards, a folder on the construction of cottages at Scripps, three folders of correspondence and other material on the construction of the Library-Museum and a folder on the construction of the SIO pier in 1916. Scripps scientists have conducted measurements and undertaken observations from the pier since 1917. These observations include temperature, comments on marine life, notes on wind conditions and other phenomena. Folders under the heading "Pier" concern pier observations and other work conducted on the pier. Material concerning the construction of the pier is filed under "Buildings and Property, Pier."

1921-1930

There are approximately two dozen folders in the Subject Files documenting the history of Scripps during the period 1921-1930. These include a folder under "Administration" on the administrative organization of SIO in 1924, a folder on the Advisory Board at Scripps dated 1926-1929, a folder of correspondence concerning the Aquarium-Museum dated c1925, a folder concerning automobiles owned by the Institution, six folders concerning the campus budget, and fourteen folders under "Buildings and Property" concerning the development of the Scripps campus during the 1920's. The development of the campus during this period was largely sponsored by Ellen Browning Scripps.

ERIK GUSTAF MOBERG

The "Ships" section of the Subject Files includes several folders documenting the work of Erik Gustaf Moberg, a chemical oceanographer at SIO who was in charge of all boat work. The general ships section includes several essays by Moberg: one dated in 1929 on the research vessel Carnegie, two others written the same year containing Moberg's recommendations for work to be conducted at sea, and an essay dated 1931 entitled, "Boat and Program for Oceanographic Investigations."

SCRIPPS RESERVE

A box of the Subject Files includes a folder labeled "University of California Natural Land and Water Reserve System." This folder contains correspondence exchanged by Scripps Director Thomas Wayland Vaughan, Percy Barnhart and others with California state legislators during an effort to have the beach at the Institution declared a biological reserve and property of the University. No abalone or lobster catches were to be allowed on the property. In 1929, a bill was introduced into the Legislature by William E. Harper defining the reserve. It was approved by the governor and enacted on August 14, 1929.

R/V SCRIPPS

The "Ships" section also includes five folders on the R/V Scripps, a purse seiner acquired by the Institution in 1925. This material includes correspondence, financial records, records of maintenance and other papers concerning the ship.

1931-1940

The collection includes 1.25 linear feet concerning events at Scripps during the period 1931-1940. This includes one folder on the Advisory Board, thirteen folders on the budget, and eighteen folders on buildings and property. The buildings and property folders include campus maps, a folder on the campus master plan of 1930, folders on cottages, the Library-Museum, Machine Shop, pier and seawall, the Scripps Building and the tennis courts. A folder under "Ceremonies" concerns the 1938-1940 Charter Day festivities, an annual celebration of the University's establishment in 1868. Course outlines dated 1936+ are filed under that heading. These include only some course outlines, and do not reflect the entire curriculum of SIO. Material pertinent to the Gulf of California expeditions of 1939 and 1940 is filed under "Expeditions." Cores and sediment samples collected on these expeditions were analyzed in the Scripps Sediments Laboratory which was established in 1935. There are two folders of memoranda, reports and equipment requests filed under "Marine Sediments Division" in a box which concern the Laboratory. This material documents the work of Roger Revelle, Richard Howell Fleming, Erik Moberg and others in the Sediments Laboratory.

OCEANOGRAPHIC INSTRUMENTATION

Folders entitled "Inventory of Equipment and Property" include material dated 1930-1947. The inventory documents not only equipment purchased by the Institution, but also lists equipment designed and fabricated at Scripps during the period. Additional information on instruments designed and/or fabricated for use at Scripps can be found under the heading "Special Developments." Folders under this heading contain correspondence and other material dated 1949-1968 which documents the Scripps unit which designed and built equipment and instruments for use at SIO. There are also folders of material on particular instruments designed at Scripps under the general heading, "Equipment." Three folders concerning a magnetometer are filed under "Marine Physical Laboratory" and include material from 1952-1959. Folders containing material pertinent to the Floating Instrument Platform (FLIP) and the Remote Underwater Manipulator (RUM) are filed under "Ships."

RESEARCH during 1931-1940

There are ten folders in the "Research" section pertinent to research conducted at Scripps during the period 1921-1940. Three concern research sponsored by the U.S. Bureau of Commercial Fisheries on South Pacific fisheries and on pilchard fisheries during the late 1930's and early 1940's. Six folders document research conducted by W. Forest Whedon on fouling organisms during the period 1936-1941 which was supported by the U.S. Navy Bureau of Construction and Repair.

WPA

There are several folders in the Non-S.I.O. series of the Subject Files dated during the 1930's and entitled "U.S. Works Progress Administration." These include correspondence, proposals,

requisitions and other records describing work undertaken at Scripps or for Scripps with the sponsorship of the WPA. In 1935, one team of WPA workers painted and repaired twenty Scripps buildings and the pier. Another team of workers constructed curbs, drains and ditches to improve road drainage and prevent soil erosion on campus. In May, 1936, Scripps prepared a narrative report on WPA Project 691, written by Erik Moberg, which describes laboratory, clerical, translating, library, drafting, photography, carpentry, and boat work undertaken by WPA personnel in the Sediments Laboratory. A memorandum dated December 26, 1939, describes a WPA project in the field of physical oceanography. From 1936-1939, WPA Project 165-03-6309 was conducted at Long Beach under joint Scripps and U.S. Hydrographic Office supervision. Project workers evaluated and codified data on ocean temperatures and currents.

1941-1945

More than a foot of material in the SIO Subject Files documents the period 1941-1945. This includes one folder on automobiles and sixteen folders on buildings and property, including a copy of the campus master plan dated 1945, several folders on cottages, and a folder on the Library-Museum. There is only one folder under "Contracts" on National Defense Research Committee sponsored work at Scripps. Scripps undertook no collecting expeditions during the war and there is no material in the "Expeditions" section relevant to this period. However, folders entitled, "Research, U.S. Fish and Wildlife Service, Pilchard Fisheries," includes information on cruises of the R/V E.W. Scripps during the period 1940-1941. These cruises were taken off the coast of California near the Channel Islands to collect pilchard eggs and larvae and hydrographic, zooplankton and salinity data. There are many other folders in the "Research" section pertinent to research conducted at Scripps during the war years. There are several folders documenting kelp research conducted by Scripps with the support of the Kelco Company and the U.S. Fish and Wildlife Service. Additional post-war correspondence concerning kelp research can be found under the heading, "Marine Botany." There are eight folders of correspondence, reports and other papers documenting surface current, drift, salinity and temperature studies conducted by Scripps during the war, one folder dated 1944 on a study of the Afternoon Effect, and one folder dated that same year documenting research on waves in shallow water conducted jointly by SIO, the Woods Hole Oceanographic Institution and the U.S. Navy Bureau of Ships.

UCDWR

The Subject Files include seven folders documenting the work of the University of California Division of War Research. The paucity of material on UCDWR is largely due to the fact that the central UCDWR files were apparently shipped to a federal records center and lost after the war. Material gathered from other offices which documents the work of individual scientists at the UCDWR is filed under the name of the individual in the Biographical Files. For instance, papers documenting Martin Wiggo Johnson's research on snapping shrimp for the UCDWR are filed under his name in the Biographical Files. A small amount of additional material concerning the UCDWR is located among the records of the Marine Physical Laboratory in the SIO Archives.

1946-1950

The period 1946-1950 was a period of great expansion at SIO, both of its campus and its programs. The Subject Files include several feet of material documenting events during this period. Fundamental changes in the administrative organization of the Institution are reflected in a folder entitled, "Administration, S.I.O. Organization, 1946-1949." These changes were largely made by directors Carl Eckart and Roger Revelle. The "Administration" section of the Subject Files includes a folder of correspondence and other papers generated by the Search Committee appointed to find a new director after Harald Ulrik Sverdrup's retirement in 1947.

MARINE PHYSICAL LABORATORY and MARINE LIFE RESEARCH PROGRAM

Several new and important laboratories, programs and administrative units were founded during the post-war years. These included the Marine Physical Laboratory, which grew out of the UCDWR in 1946, the Marine Life Research Program which studied the depleted *Sardinops sagax*, or Pacific sardine, with generous funds provided by the State and the fishing industry, the Marine Vertebrates Division which was created in 1948, and the Marine Invertebrates Division created that same year. Subject Files include significant quantities of correspondence, reports and other papers documenting the establishment and work of these units. The collection also includes one folder of correspondence documenting the work of the Marine Biochemistry Program at Scripps during the post-war period, and two folders on marine botany at Scripps.

SUBMARINE GEOLOGY

The Subject Files holds five folders labeled, "Submarine Geology" which include material dated 1948-1953. This consists largely of correspondence and memoranda generated by Francis Parker Shepard which complements correspondence filed under his name in the Biographical Files. The material describes research by Shepard, Douglas Lamar Inman and others on submarine geology, support for research at Scripps from the American Petroleum Institute, use of underwater cameras, corers and other instruments, The correspondence also includes some discussion of wave action and currents. Several letters discuss Shepard's monograph, Submarine Geology. Material documenting Shepard's early work on sediments can be found in folders entitled "Marine Sediments Division."

LIBRARY

The expansion of Scripps programs during the post-war period led to a concomitant expansion of the Institution's library which is documented in five folders under the heading, "Library."

MARINE FACILITIES and EXPANSION OF FLEET

During the immediate post-war period, plans were formulated for several large and significant expeditions and the Institution also moved to expand its fleet. In 1947, Scripps acquired the R/V Crest, formerly a harbor minesweeper. In 1948, the R/V Horizon, formerly a Navy owned ocean tug, was added to the fleet. That same year, the purse seiner R/V Paolina-T was purchased with Navy funds for SIO. Correspondence documenting the acquisition, condition and use of these ships is included in the Subject Files. Scripps established Marine Facilities in 1948 to superintend the fleet and coordinate the services of crew and maintenance staff. Boxes contain correspondence, memoranda, schedules, summaries of operations, financial records, crew lists and other material documenting the work of Marine Facilities. Folders filed under

"Marine Facilities, Ships, Accounting Data for Costs, Summary Operations and Memos to Accounting, Ship Operations" provide excellent documentation of the actual movements of the Scripps fleet. These folders supplement material filed in the "Expeditions" section. Crew lists and crew salary lists filed under "Marine Facilities" complement other lists of Scripps personnel filed under "Staff Lists."

RADIO STATION WWD

The Subject Files also include 22 folders of material documenting Radio Station WWD during the period 1946-1972. With the post-war expansion of the Scripps fleet, SIO required an expanded radio communication network. When the Bureau of Commercial Fisheries phased out one of their stations in 1949, Scripps acquired the authorization to establish Marine Communications and Ocean Data Station WWD in San Diego. The "Radio Station WWD: folders in the Subject Files include a history of the station written in 1965, correspondence, reports, Federal Communications Commission forms, and copies of radio messages received from the Scripps fleet.

CONSERVATION

A box contains material dated 1944-1954, 1956, 1964-1969 and 1972 under the heading, "University of California Natural Land and Water Reserves." Material in this folder dated 1944-1949 concerns the conservation of wildlife in the Mission Bay area. Material dated 1948 concerns an addition to point 207 of the "Rules and Regulations Relating to Navigable waters in the United States." restricting anchorage and fishing in the vicinity of the Scripps pier. Material dated 1951-1954, 1956 and 1964 concerns a proffered gift of marshland in the Mission Bay area from Mrs. Oscar J. Kendall and A.A. Frost to the University of California. The marshland was offered to the University to protect it from commercial development.

LOYALTY OATH

In February, 1950, the Regents of the University of California required all faculty members to sign a loyalty oath. This sparked a controversy throughout the University system, including debate in the Academic Senate and discussion among the faculty of the Scripps Institution. The Subject Files include six folders of material on the controversy dated 1950. This material includes memoranda, petitions, correspondence, notes, resolutions of the Academic Senate, committee reports and other papers largely reflecting the activities and views of the SIO community, and also including documents reflecting the attitudes of University of California faculty and administrators at other campuses. The folder entitled, "Loyalty Oath, Notes by Roger Revelle, c1950," includes Revelle's notes on committee meetings, notes on objections to the oath, statements on the oath, and memoranda of meetings and telephone conversations concerning the controversy.

OPERATION CROSSROADS

During the post-war period, Scripps conducted and participated in several expeditions of great scientific importance. The "Expedition" section of the Subject Files includes eight folders on Operation Crossroads, 1946-1953, the first U.S. atomic test which was conducted at Bikini Atoll. The "Expeditions" section also contains four folders of material on the Bikini resurvey of 1947-1948 which evaluated the environmental impact of the Crossroads test a year after it was conducted. Both the original Crossroads test and the Bikini resurvey were conducted by

the federal government, but both included scientists from SIO as observers or scientific team participants working under government supervision. Roger Revelle, then serving the Navy as head of the geophysics branch of the Office of Naval Research, organized and led the oceanographic and geophysical component of Operation Crossroads. In 1947, he led a second team to resurvey Bikini. Revelle had long been associated with SIO, first as a student, then as an instructor, and two years after his return from service in the Navy, as Director of SIO. The folders on Operation Crossroads and the Bikini resurvey under "Expeditions" consist largely of Revelle's correspondence and the correspondence of other Scripps scientists who participated in these expeditions.

MIDPAC EXPEDITION

The "Expeditions" section also includes thirteen folders of material on the MIDPAC expedition of 1950, renowned for its exploration of the central and eastern Pacific, for the discovery of the Mid-Pacific mountain range, and for the measurement of heat flow through the ocean floor. The folders include correspondence and radio cables, schedules of operations, the log of the expedition, and papers concerning a MIDPAC/Capricorn reunion held in 1975.

U.S. NAVY

The Non-S.I.O. series of the Subject Files includes 1.25 linear feet of material filed under the heading, "U.S. Navy." There are 11 folders of material pertinent to the Navy Hydrograph Office for the period 1945-1962, 21 folders of material pertinent to the Office of Naval Research during and just after World War Two, and five folders of material concerning the U.S. Navy Oceanographic office which succeeded the Hydrographic Office in 1962. Revelle is credited with planning and initiating the organization of the oceanographic section of the Hydrographic office and participating in the establishment of the Office of Naval Research. These files document the fruitful post-war relationship between the Navy and the Scripps Institution. They consist of correspondence, proposals, research reports, memoranda and other material largely documenting research conducted at Scripps with Navy support.

1951-1955

The Subject Files include over one hundred folders of material documenting the history of SIO during the period 1951-1955. Again, these files reflect the post-war expansion of Scripps. There is one folder on the Administrative Advisory Council which was established in 1951 under Chapter IX, Article 3(c) of the Standing Orders and Bylaws of the Regents of the University of California. The Administrative Advisory Council at SIO was established by Director Revelle, who chaired the Council, to assist him in the administration of the Institution. The folder contains memoranda, correspondence, minutes and other records documenting the work of the Council. Although this folder includes material dated 1951, there is no material documenting the work of the Council from 1952 until 1954.

ADMINISTRATIVE ADVISORY COUNCIL

The Subject Files include one folder of material under "Administration" pertinent to Faculty Meetings dated 1949 and 1954+. There are also 15 folders concerning the Scripps budget during the period 1951-1955. The "Buildings and Property" section includes three folders on the development of the campus during this period. One concerns a lunchroom, planned but

never built. One concerns the Scripps Machine Shop, and one contains an inventory of space needs at the Institution which was conducted in 1954.

CONFERENCES during 1951-1955

Several important conferences were held at SIO during the early 1950's. There is one folder under "Conferences" which includes correspondence, notes, memoranda and other material documenting the California Cooperative Oceanic Fisheries Investigations (CalCOFI) Sardine Conferences held during the 1940's and early 1950's. The 1951 University Charter Day celebration at Scripps included the dedication of the Thomas Wayland Vaughan Aquarium Museum and a conference entitled "The Position of the Scripps Institution of Oceanography in the University, State and Nation." Speakers included Roger Revelle, Claude Ephraim ZoBell, Norris Watson Rakestraw, Carl Henry Eckart, Carl Leavitt Hubbs, Francis Shepard, Robert Gordon Sproul and Detlev Wulf Bronk. The Subject Files include invitations, correspondence and a transcript of the conference. One folder of material filed under "Symposium" describes a 1952 symposium on oceanographic instrumentation which was held at Scripps. The fifth and sixth annual meetings of the Pacific Tuna Conference were held at Scripps in 1954 and 1955. Correspondence about and programs of these conferences are included in the Subject Files. There are three folders entitled, "Descriptive Oceanography" and dated 1950-1953 in box 6 of the Subject Files. This material was originally drawn from a folder in the central files of the Office of the Director. It includes correspondence, memoranda and other papers concerning the Marine Life Research Program, meteorological research undertaken with the support of the U.S. Weather Bureau, and material concerning the California Cooperative Oceanic Fisheries Investigation.

INSTITUTE OF MARINE RESOURCES

There are four folders in the Subject Files which concern the Institute of Marine Resources (IMR), a University of California institute founded at the urging of Roger Revelle and other scientists in 1951 to foster research on fisheries and other marine resources. The "Research" section of the Subject Files includes several folders specifically concerning IMR projects. There is one folder entitled, "Studies of Marine Fisheries in Peru, 1954-1955" which documents research conducted under IMR auspices. There are six folders under "Research" on American Petroleum Institute Project 51 which was administered by IMR from 1954-1957. API Project 51 was initiated in 1951 and directed by Francis Parker Shepard to study the sedimentary formations of the coastal waters of the Gulf of Mexico. Five of the six API folders concern project personnel. Six folders under the heading "Scripps Tuna Oceanography Research (STOR)" document the STOR program which began in 1957 and was administered by IMR from 1963 until 1971. The STOR program was terminated in 1973. Additional information on the formation and work of the Institute of Marine Resources can be found among the papers of Roger Revelle and Carl Leavitt Hubbs at the SIO Archives. The SIO Archives also holds the official records of the IMR Office of the Director for the period 1950-1970. These records document the directorships of Milner Bailey Schaefer and John Dove Isaacs. The Milner Bailey Schaefer Papers, also housed at the SIO Archives, include material documenting his work at IMR.

RESEARCH during 1951-1955

The "Research" section of the Subject Files includes documentation of other projects undertaken at Scripps during the early 1950's. There are seven folders documenting research on the movement of nearshore material. This research was conducted by Francis Shepard, Douglas Inman and others with the support of the Beach Erosion Board. There are three folders of material on *Limnoria* and other woodboring organisms, seven folders on air-sea boundary research, one folder on surface water waves, and one folder on long period ocean wave research. There are six folders of material filed under "Waves and Currents." This material consists largely of correspondence dated July, 1950-1956 which was originally filed in the Central Files of the SIO Office of the Director. The correspondence is arranged chronologically and consists of carbon copies of letters from Scripps scientists, mainly Walter Heinrich Munk, and letters received by Scripps scientists concerning theories and research on the dynamics of waves and currents and the optical properties of the sea surface. The folders also include a few letters which discuss the University of California Institute of Geophysics and the International Geophysical Year.

CAPRICORN EXPEDITION

The "Expeditions" section of the Subject Files include folders describing expeditions undertaken in the early 1950's. These include Northern Holiday, Shellback, Capricorn, Transpac, Norpac and Eastropic. The Capricorn Expedition is significant in part because it was the first expedition that carried scuba divers. The "Expedition" files under Capricorn include Willard Bascom's essay, "Diving During Capricorn Expedition, 1953." Additional material on diving during this and other expeditions can be found under the general heading "Diving," which includes material dated 1947+.

MARINE BIOLOGY PROGRAM, ROCKEFELLER FOUNDATION

There are two folders in Subject Files on the Marine Biology Program dated 1952-1958. In 1953, SIO applied to the Rockefeller Foundation for funds to support the program and enlarge the marine biology faculty. Rockefeller granted SIO more than one million dollars the following year. These files include correspondence, a copy of the 1953 Scripps proposal, minutes of the Committee on Rockefeller Grant Faculty Appointments and other papers concerning the marine biology program, curriculum and faculty. Additional material concerning the Rockefeller Foundation grant and the marine biology program at Scripps can be found in the Carl Leavitt Hubbs Papers at the SIO Archives.

1956-1960

There are 2.5 linear feet in Subject Files which document the period 1956-1960. This material includes only three folders pertinent to the Scripps budget. Although the Subject Files include folders documenting Scripps budgets up to 1958, there is a gap in the files between 1958 and 1960. There is one folder of budgetary material dated 1961, but no material on Institution budgets from 1962-1971. The Subject Files include five folders on Conferences held at Scripps during this period. These include material on the Conference on Marine Corrosion and Fouling Problems, 1956, the Eastern Pacific Oceanic Conference of 1956-1957, the New Research Methods in Hydrology conference of 1957, and the Recent Research in Climatology conference held that same year. During the period 1956-1960, several important buildings were constructed on the Scripps campus including Sumner Auditorium, Sverdrup Hall, and a

new wing added to Ritter Hall. Unfortunately, the Subject Files do not include material documenting these buildings. There are, however, folders concerning a lunchroom planned but never constructed, and the Scripps Research Shop which was completed in 1960. The Subject Files include 28 folders of material on Scripps expeditions undertaken during the period 1956-1960 under "Expeditions." These include material on the Chinook, Acapulco Geological Expedition, Equapac, SCOPE (Scripps Cooperative Oceanic Productivity Expedition), SIGRE (Scripps Institute of Geophysics Revillagigedo Expedition), Mukluk, Downwind, and Vermillion Sea expeditions.

SCRIPPS ISLAND

The Subject Files include several folders of material under "Island Research Facility", which document an idea first proposed in the 1950's to construct an island-like port and laboratory facility offshore near the Scripps campus. The facility was variously referred to as Scripps Island, the Offshore Research Facility, and the Experimental Inshore Oceanographic Facility. Although several plans for the island were made and discussed during the 1970's, the facility was never built. Material in these folders includes correspondence, renderings, and budgetary material largely drawn from the records of the SIO Office of the Director generated by William Aaron Nierenberg and his staff.

INTERNATIONAL GEOPHYSICAL YEAR

The Non-S.I.O. series of the Subject Files include more than one hundred and twenty folders including material dated between 1955 and 1960. There are forty-four folders of material concerning the International Geophysical Year. These were drawn almost entirely from Roger Revelle's personal papers and his records as SIO Director. Like many of his colleagues, Revelle was extremely interested in plans for the IGY and was active on several committees which planned events for the year. He served as a member of the United States National Committee-International Geophysical Year Technical Panel on Oceanography and its Technical Panel on Geomagnetism. He also served as Chairman of the USNC-IGY Equatorial Committee. The IGY material in the Non-S.I.O. series includes sixteen general folders containing correspondence, meeting minutes, program plans and other documents dated 1955-1960. The files include sixteen additional folders documenting the work of the Comité Spécial du Conseil International des Unions Scientifique, Année Géophysique Internationale (CSAGI). These folders include correspondence, information on IGY program plans in many nations arranged alphabetically by the name of each country, and an annotated copy of the CSAGI Guide to IGY data centers dated 1957.

INTERNATIONAL OCEANOGRAPHIC CONGRESS

The Non-S.I.O. series also includes one folder of correspondence and a copy of the program for the first International Oceanographic Congress held at the United Nations in 1959. Again, material in this folder was drawn from material generated by Roger Revelle who helped organize and served as the president of the Congress. The SIO Archives also holds tape recordings of some of the Congress sessions.

INTERNATIONAL INDIAN OCEAN EXPEDITION & OTHER EXPEDITIONS

The Non-S.I.O. series includes twelve folders of material on the International Indian Ocean Expedition. This ambitious program was administered by a Special Committee on Oceanic

Research (SCOR) of the International Council of Scientific Unions, organized by Roger Revelle in 1957. SCOR recommended that ships from many countries study the Indian Ocean, which was described as the "largest unknown area on earth." The Subject Files include copies of programs and prospectus, planning summaries and reports including several recommendations, drafts and reports on United States participation in the Expedition. The Subject Files include four folders of correspondence concerning the Expedition dated 1960-1967. The correspondence consists largely of copies of letters exchanged by Expedition program planners and sent to Roger Revelle. There is also correspondence and memoranda concerning the participation of SIO in the Expedition. In addition to the material on the Expedition filed within the Non-S.I.O. series of the Subject Files, the "Expeditions" section of the Subject Files includes material on three Scripps expeditions which were part of the International Indian Ocean Expedition effort. There are seven folders relevant to the Monsoon Expedition of August, 1960 to March, 1961. There are nine folders of material relevant to Lusiad Expedition, conducted May, 1962 to August, 1963. There are three folders concerning Dodo Expedition, April-December, 1964.

1961-1965

There are 5 linear feet of material documenting the history of SIO during the period 1961-1965. These include nine folders on a major administrative reorganization of Scripps dated 1960-1966. A reorganization of SIO was first proposed by Roger Revelle in 1960. While certain functions of the Business Office were consolidated that year, the real reorganization of SIO did not begin until 1961. In September of that year, Assistant Director Jeffery Dean Frautschy announced that the Divisions of Marine Resources, Marine Geophysics and Marine Geology and Geochemistry would cease to exist and be replaced by a Division of Oceanography and a Division of Earth Sciences. The reorganization raised questions about the formal definitions of divisions, departments, research programs and laboratories at SIO and the relationship of these units to the newly formed University of California, San Diego.

ADMINISTRATIVE REORGANIZATION

From 1938 to 1961, graduate education was conducted at Scripps under the general supervision of the Graduate Dean at the University of California, Los Angeles. In July, 1961, the San Diego Division of the University Senate was formed with a Graduate Council established as one of its committees. A separate Graduate Division for San Diego with its own dean was established at the same time. From that date, general supervision of graduate education conducted at SIO passed from UCLA to UCSD. The transition raised questions about the relationship of SIO to graduate education at UC. The folders on the reorganization include memoranda, notes on budgetary and personnel matters, minutes of the Committee on Educational Policy, minutes of the Ad Hoc Committee on the Proper Relationship of SIO and Graduate Education, and correspondence exchanged by acting SIO Director Fred Noel Spiess, UCSD Chancellor Herbert Frank York and University Vice President Harry R. Wellman. Material dated 1965-1966 consists largely of correspondence and memoranda exchanged by newly appointed Director William Nierenberg and the chancellor of UCSD concerning efforts to strengthen and better coordinate graduate education at Scripps.

SIO STAFF COUNCIL

The SIO Staff Council was formed with the adoption of by-laws on January 12, 1960 to constitute a forum for its members, advise administration on the opinions of its members, and to aid the administration. The membership originally consisted of permanent academic appointees, but membership has been expanded over the years to include certain technical staff and others. The Director of the Scripps Institution serves as ex officio chair of the Staff Council. Other officers are elected by the membership. An executive committee is appointed by the Staff Council's Committee on Committees. The Committee on Committees, consisting of elected members and the Director ex officio, is empowered to create and dissolve standing committees and recommend the appointment of members of standing committees to the Director. The council has at least two regular meetings annually. Special meetings may be called by Council officers or upon request by ten members of Staff Council. The Subject Files include 15 folders of material dated 1960-1980 on Staff Council. This material includes minutes of Council and its standing committees, committee reports, memoranda and correspondence concerning Council and/or generated by the Executive Committee, Council agenda, bylaws, bylaw revisions, meeting announcements and letters of committee appointment. Unfortunately, the folders do not include full sets of minutes for the Council, nor do they include full sets of minutes for Council standing committees. In fact, the folders do not include any material pertinent to Council business in 1961 and include only by-laws documenting the work of the Council in 1960. Additional material concerning the Staff Council can be found filed under the names of individual Staff Council standing committees. For instance, the Subject Files include five folders of material filed directly under the heading "Marine Operations Committee," a Staff Council standing committee.

DC 3 AIRPLANE

The Subject Files include fourteen folders labelled, "Airplane DC3." These folders include correspondence, specifications, drafts of agreements and other papers dated 1962-1973 which document the gift of a DC 3 aircraft to the University for the use of SIO. During the 1970's, Scripps leased the aircraft to outside agencies. Correspondence and leases documenting the lease of the aircraft are also included among this material.

ALPHA HELIX PROGRAM

There are twenty-six folders of material documenting the Alpha Helix Program filed under "Alpha Helix." This program was supported by a grant from the National Science Foundation which allowed Scripps to operate a new vessel, the R/V Alpha Helix, and undertake a series of expeditions during the period 1961-1973. The folders include minutes of the Alpha Helix Program Advisory Board, correspondence, cruise reports, budgetary material, ship time requests and research proposals received from scientists who wished to participate in the Program. This material was largely drawn from the files of the SIO Office of the Director and records of James Lawrence Faughn in the Ship Scheduling Office. A few additional items relevant to the Alpha Helix Program are filed under "Physiological Research Laboratory," the unit which administered the Program. There are fourteen folders of material on expeditions undertaken as part of the Alpha Helix Program under "Expeditions" in the Subject Files. This material includes correspondence, ships logs, notes and other papers documenting the Billabong Expedition to the Great Barrier Reef in 1966, the Amazon Expedition of 1967, the Bering Sea expedition of 1968, the New Guinea Expedition of 1969, and the Antarctic

Expedition of 1970-1971. This material was largely drawn from the files of the SIO Ship Scheduling Office. There are only two folders under "Ships" concerning the R/V Alpha Helix. These consist mainly of correspondence dated 1960-1967. There is also one folder concerning the dedication of the R/V Alpha Helix filed under "Ceremonies." Additional information about the vessel, the Alpha Helix expeditions and the Alpha Helix Program can be found among the records of the SIO Alpha Helix Program Office, housed at the SIO Archives.

CARL ECKART BUILDING

There are fifteen folders under the heading "Buildings and Property," which document buildings planned and/or constructed during the period 1961-1965. Nine of these folders concern planning and construction of the Carl Eckart Building, which housed the SIO Library, which was completed in 1976. Folders include specifications and blue prints, as well as correspondence and memoranda. There is one folder of material on the Experimental Aquarium which contains material dated 1963-1964. This material actually concerns an addition to the Experimental Aquarium which was completed in 1965.

PHYSIOLOGICAL RESEARCH LABORATORY

There is one folder under "Buildings and Property" on the Physiological Research Laboratory. There are three folders under the heading "Physiological Research Laboratory" which concern the program and work of the Laboratory. One folder entitled "Neurobiology Facility, 1970" includes a report detailing the history of the Facility which was created in 1965 and was briefly a part of the Physiological Research Laboratory. Additional material on the Laboratory building and program can be found among the records of the SIO Office of the Director (Nierenberg) housed in the SIO Archives.

INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS

There is one folder under "Institute of Geophysics and Planetary Physics" which concerns the IGPP administrative program and one folder on the IGPP building under "Buildings and Property." Additional material on IGPP can be found among the Walter Heinrich Munk Papers, under Munk's name in the SIO Biographical Files, and under IGPP among the papers of the Office of the Director (Nierenberg). A large quantity of IGPP records, including Munk's files as Director and records generated by the IGPP Business Office remain in storage at IGPP. This material includes extensive files on support for, design, construction and dedication of the IGPP building, on IGPP grants and contracts, on research conducted by the Institute and its budget.

EXPEDITIONS during 1961-1965

Scripps undertook several large and important expeditions during the period 1961-1965. There are twenty-four folders of material under "Expeditions" which concern the Naga expedition dated 1959-1961. Naga explored the Gulf of Thailand and the South China Sea with the cooperation of the governments of Thailand and the Republic of Vietnam. The material includes correspondence, reports, tracks, charts and other material documenting this expedition. Much of the material under Naga was generated by James Faughn, the project officer for the expedition. The "Expeditions" section also includes documentation of three Scripps expeditions undertaken as part of the International Indian Ocean Expedition. These are Monsoon, Lusiad, and Dodo. There is also one folder of material on Japanyon, an

expedition undertaken by Francis Shepard and others in 1961 to explore submarine canyons off the coast of Japan. There is one folder of material on the Hilo Expedition to Hawaii in 1962, an expedition undertaken to find a site for Mohole drilling. Additional information on Project Mohole can be found in a folder entitled, "American Miscellaneous Society," in the Non-S.I.O. series.

SHIPS during 1961-1965

The Scripps fleet was expanded during the period 1961-1965. There are eight folders of material on the R/V Alexander Agassiz (II). This vessel was acquired as a surplus property by the Scripps Institution in 1962. The Agassiz folders include the vessel's specifications. There is one folder of material on the R/V Oconostota, an ocean tug acquired by Scripps that same year, mainly to tow the Floating Instrument Platform (FLIP). FLIP was designed by the Marine Physical Laboratory and constructed in 1962. The platform is documented in five folders of correspondence, memoranda, and other papers in the "Ships" section. From 1963 to the 1970's, Scripps leased several submersibles, which were used by Scripps scientists to explore and film the ocean bottom in the San Diego area. One submersible was the Westinghouse Denise saucer submersible, also used by Jacques Cousteau. There are four folders of material in the "Ships" section documenting the use of the saucer submersibles. This includes partial logs of diving saucer dives which list dive dates, locations and participants. Additional information on the use of the diving saucer can be found among the Francis Parker Shepard, the Edward William Fager Papers, and other papers at the SIO Archives. Scripps first leased and then purchased the R/V Ellen B. Scripps in 1965. There are five folders of material documenting this vessel in the "Ships" section. There are twenty-one folders of material under "Ships" documenting the R/V Thomas Washington which was acquired that same year. A folder on the dedication of the R/V Washington is filed under "Ceremonies." There is one folder under "Gifts" concerning the yacht Nereus, which was offered to Scripps in 1962 but was not added to the Scripps fleet.

1966-1970

There are over one hundred folders of material in the Subject Files documenting the period under the "Budget," "Contract" or "Research" sections. There are thirteen folders of material generated during this period filed under "Buildings and Property." Eight folders concern the Camp Elliot land on what is now the campus of UCSD.

CAMP ELLIOT LAND OF UCSD CAMPUS

In 1961, the University of California applied to the U.S. Department of Health, Education and Welfare for surplus property at Camp Elliot, an abandoned military facility located northeast of the Scripps campus. The University received a grant of 506 acres of Elliot land from the federal government in 1964. Material filed under "Buildings and Property, Elliot Campus (UCSD)" documents this transfer and University plans for the development of the site. Material under this heading dated 1968-1972 includes administrative memoranda, correspondence and reports, minutes and other papers collected or generated by the SIO Office of the Director. In 1968, the Department of Health, Education and Welfare requested the return of some of the Camp Elliot acreage as it had not been developed. This led to several meetings of the University's Committee for Camp Elliot and plans for the immediate development of the site. The 1968-1972 material documents these events and plans.

MOUNT SOLEDAD FACILITY

The "Buildings and Property" section includes one folder on a long range plan for the Scripps campus developed in 1967 and one folder on improvements made in 1966 to the road and entrance to the Scripps campus. There are also three folders pertinent to the Mount Soledad facility of SIO, located near the top of Via Capri Road. The Soledad material includes memoranda, correspondence and other material documenting plans for the use and development of land and a building on Mount Soledad which was acquired by the Scripps Institution in 1965. The material includes a copy of a proposal submitted by Scripps to the National Science Foundation in 1967 for funds to develop the property and use it as the site of the SIO Radiocarbon and Tritium Laboratory, directed by Hans Eduard Suess. The property also housed the Oceanic Environmental Laboratory directed by Theodore Robert Folsom. Material filed under "Buildings and Property, Mount Soledad" dated 1968 concerns an effort made by SIO to acquire the Navy owned signal station property on Mount Soledad.

CONFERENCES during 1966-1970

There are two folders of material under the heading "Conferences" dated 1966-1970. One consists of an invitation to "The Ocean, 1968: A New World," a conference held at SIO in February, 1968. The other consists of an invitation and program for "Man's Chemical Invasion of the Ocean: An Inquiry," a conference held at SIO in February, 1969. There is also a small amount of material concerning the celebration of the University's centennial under "Symposiums, Centennial Symposium, 1968."

DEEP SEA DRILLING PROJECT

There are three folders concerning the Deep Sea Drilling Project. DSDP was established in July, 1966 with a 12.6 million dollar contract from the National Science Foundation and quartered at Scripps. The contract was for eighteen months, but was extended with an additional award of \$22.2 million from NSF in 1969. The material in these folders includes brochures, press releases, reports, memoranda and a small amount of correspondence concerning the Project. The bulk of the records documenting the project are in other collections in SIO Archives.

EXPEDITIONS during 1966-1970

There are seventy-five folders of material under the heading "Expeditions" which document expeditions undertaken by the Scripps Institution during the period 1966-1970. There are eight folders of material on the Alpha Helix Program Billabong Expedition to the Great Barrier Reef.

ZETES EXPETION

Five of these folders concern Zetes Expedition, undertaken January-August, 1966, with the R/V Argo. The R/V Argo travelled to Alaska and Japan to conduct a wide range of oceanographic studies, including research on heat flow from the sea floor, biochemical activity of bacteria at great depths, structure of the water column and other topics. Material on this expedition includes correspondence, maps, radio cables and press releases. There is material documenting Claude ZoBell's work as chief scientist on Leg IV of Zetes, called Deepac X. During this leg, Zobell and his colleagues collected microbiological samples from great depths using new coring devices.

EASTROPAC EXPEDITION

There are two folders of material on Eastropac Expedition (January 1967 -April 1968) which investigated the oceanography of the eastern tropical Pacific Ocean as part of a cooperative program to study the region which was initiated by the Eastern Pacific Oceanic Congress (EPOC). Material on Eastropac includes expedition proposals and plans, memoranda and radio cables. Additional information on EPOC can be found among the Joseph Lee Reid Papers at the Scripps Archives.

NOVA EXPEDITION

There are seven folders of material on Nova Expedition (April-December, 1967) which undertook investigations of the geology, geophysics and geochemistry of the southwestern Pacific with support from the National Science Foundation and the Office of Naval Research. This material includes correspondence, memoranda, personnel lists, maps and radio cables pertinent to the expedition.

CIRCE EXPEDITION

There are five folders concerning Circe Expedition (March, 1968-March, 1969), a circumnavigation of the world which explored the western Pacific, Indian and southern Atlantic oceans with support from the National Science Foundation and the Office of Naval Research. During this expedition, participants studied bottom topography, magnetic patterns, heat flow, sediments and variations of the earth's magnetic field near the equator. Data pertinent to the sea floor spreading theory was collected. The expedition used a seagoing computer and a satellite navigation system, which was unique at that time. The material in these folders includes correspondence and memoranda, itineraries, maps, lists of personnel, radio cables, press releases and a brochure of the expedition.

SHIPS during 1966-1970

The Subject Files include thirteen folders of material dated 1966-1970 on ships. There is one folder of material which includes items relating to the design of a vessel to replace the R/V Horizon. Another folder concerns plans for a 65 foot research vessel. There are folders on the chartered vessels Defiance and Fisherette, one folder on the Oceaneer and Wando River, one folder on the Valkyrien and three folders on the Glomar Challenger. The material on the R/V Glomar Challenger is dated 1968-1969. This vessel was used for drilling operations of the Deep Sea Drilling Project.

VISITORS during 1966-1970

Several distinguished persons visited SIO during the late 1960's. Folders filed under "Visitors" document the September, 1966 visit of U.S. Vice President Hubert H. Humphrey, the November, 1967 visit of Crown Prince Vong Savang and Princess Manilay of Laos, the October, 1969 visit of U.S. Vice President Spiro Agnew, and the November, 1969 visit of Francois Ortol, French Minister of Industrial Development and Scientific Research.

1971-1981

There are approximately 120 folders of material in the Subject Files pertinent to the period 1971-1981. Only four folders concern the Scripps budget during this period and these

concentrate on the 1971/1972 budget. There are five folders pertinent to the period under "Buildings and Property." These include a copy of a report by Blaylock-Willis and Associated entitled, "Earthquake Resistance of Selected Structures of the University of California, San Diego." This report was written in 1972. There is one folder on the Marine Biology Research and Instruction Building completed in 1977. A folder including information on the dedication of this building and the Carl Eckart Building is filed under "Ceremonies, Building Dedications, Marine Biology." There are three folders of material concerning the George H. Scripps Memorial Marine Biological Laboratory building dated 1977-1981. This material largely concerns the renovation of the building. There is one folder under the heading "Ceremonies" which documents the dedication of the Scripps Satellite Oceanography Facility in 1979. Additional information on the Facility can be found under "Remote Sensing Facility" in the Subject Files. This folder contains a copy of the April, 1978 SIO proposal submitted to the National Science Foundation requesting funds to develop the Facility. The Subject Files include two documents prepared by Elizabeth Noble Shor during this period. One is a history of the Aquarium Museum filed under "Aquarium-Museum" which was written in 1981. The second document is an inventory of paintings, sculpture, and other art work prepared by Shor in July, 1980. The inventory lists the title, artist, location and other information for each work of art.

GEOSECS

In 1968, an advisory council composed of scientists at the Lamont-Doherty Geological Observatory, the Massachusetts Institute of Technology, the Oregon State University, the Rosenstiel School for Marine and Atmospheric Science at the University of Miami, SIO, and the Woods Hole Oceanographic Institution was convened to direct an international program to investigate the geochemistry of a large section of the ocean. This study became known as the Geochemical Ocean Sections Study (GEOSECS), and it was supported by funds from the National Science Foundation International Decade of Ocean Exploration program. Several large expeditions were planned by the advisory council, including an expedition to the Bering Sea and near Antarctica. This expedition became known as Pacific GEOSECS (August 1973 - April 1974). It utilized the Scripps vessel R/V Melville and was directed by Scripps scientists. There are two folders in the Subject Files which include material documenting the GEOSECS program and the Pacific GEOSECS expedition. One folder of material is filed under the heading "GEOSECS," the other folder of material is filed under "Expeditions, Pacific GEOSECS." Both of these folders are in box 10 and both include correspondence, memoranda, expedition planning documents, press releases and other material on the GEOSECS program and Pacific GEOSECS expedition.

GEOLOGICAL DATA CENTER

The Subject Files include one folder of material on the Geological Data Center under that heading. The Center was formed on July 1, 1970 to collect, process and index significant geological data collected by SIO vessels. The SIO Subject Files include two documents concerning the Center. The other reports on the status of the computer data processing and retrieval system at the Center. Both documents are dated 1971.

NORPAX

The Subject Files include two folders of material on the North Pacific experiment (NORPAX). This long-term cooperative program was created with funds from the Office of Naval Research and the National Science Foundation International Decade of Ocean Exploration program to investigate changes in the upper waters of the north Pacific Ocean, their interactions with the atmosphere and the effect of these on the weather and ocean environment. NORPAX participants includes SIO, the University of Hawaii, UCLA, Oregon State University, the University of Alaska, Texas A & M University, the U.S. Navy, and General Dynamics Corporation. NORPAX was an outgrowth of the Scripps North Pacific Study. Material on NORPAX includes a copy of L.R. Glostén & Associates technical specifications for an interim NORPAX support ship, memoranda, minutes of NORPAX ship technical discussions and other material concerning planning for a NORPAX ship which was never constructed. This material is filed under "North Pacific Experiment (NORPAX)" and concerns the period 1972 to 1973. Additional material on the planned NORPAX vessel can be found under "Ships, NORPAX."

MARINE OPERATIONS COMMITTEE

The Subject Files include five folders of material on the Marine Operations Committee (MOC) filed under the Committee's name. The MOC was established as a SIO Staff Council standing committee in 1960, when Staff Council was created. However, the Committee actually pre-dated the Staff Council. Unfortunately, the Subject Files do not include materials documenting the early work of the Committee. The "Marine Operations Committee" folders include minutes of meetings, memoranda, and a small amount of correspondence on ships, ship operations, and ship operating funds. The folders also include a copy of the June, 1976 SIO proposal to the National Science Foundation for ship operations support. Additional reports and minutes of meetings, memoranda, and a small amount of correspondence on ships, ship operations, and ship operating funds. The folders also include a copy of the June, 1976 SIO proposal to the National Science Foundation for ship operations support. Additional reports and minutes of the MOC can be found among "S.I.O. Staff Council, Minutes and Reports of Committees" folders of the Subject Files.

R/V NEW HORIZON & SHIPS during 1971-1981

Files under "Ships" during this period include material on the NORPAX vessel mentioned above, on the Utility Boat, and on the R/V New Horizon. In 1969, SIO sought funding from the National Science Foundation to build a 170 foot, 300 ton vessel. Funding was not obtained from NSF, but in 1977, Scripps received over three million dollars from the California State Public Works Board to finance the construction of a vessel to replace the R/V Alexander Agassiz (II). An SIO committee was appointed to oversee the design of the vessel which was based on a study made in the 1960's by Maxwell Silverman, an SIO research engineer. Rudolph F. Matzer and Associates of Jacksonville, Florida were named as the naval architects for the vessel. The ship was built by Atlantic Marine Inc. of Jacksonville and completed in 1978. It was named the R/V New Horizon and was dedicated on January 25, 1979 at Nimitz Marine Facility. The Subject Files include 15 folders of material on the New Horizon. Fourteen of these contain daily and weekly construction reports on the vessel dated 1977-1978. The remaining folder includes drawings, correspondence, committee reports and memoranda documenting the planning and construction of the vessel.

VISITORS during 1971-1981

The Subject Files include several folders under "Visitors" documenting distinguished visitors who came to the Scripps Institution during the 1970's. There are five folders of material documenting the 1975 visit of Emperor Hirohito of Japan. There is one folder of material documenting a visit from a group of scientists from the Peoples' Republic of China in 1975. One folder documents a 1978 visit of a marine science delegation from the People's Republic of China.

Provenance: Some original correspondence, photographs and other primary source material documenting the history of the SIO was collected from time to time by members of the Library staff and catalogued into the Library's special collections as early as the 1940's when Ruth Ragan served as Librarian. In 1961, Helen Hill Raitt, wife of Professor Russell Watson Raitt and long a member of the Scripps community, used this material as she prepared three lectures on the history of the Institution. Raitt "was alarmed to find that ... cartons of random letters and reports of unlabeled photographs and building specifications were giving way before a deluge of new acquisitions in the battle for library space." Raitt and several other members of the community tried to "impress some order" on this material, but unfortunately, no further description of the material or its arrangement remains. Raitt's lectures on the early history of Scripps were well received, and she decided to prepare a history of Scripps, which was published in 1967. During the course of Raitt's research for the book, a significant quantity of early files was found, and a number of persons associated with Scripps donated manuscript material documenting its early history. Unfortunately, no accession records or donor files were kept documenting what material was received and who donated it. Raitt's correspondence, however, does give us some information on the growth of the Archives during this period. Raitt conducted interviews with many people associated with Scripps during its formative years. These included Mrs. Francis B. Sumner, Ruth Ragan and Edna Watson Bailey, among many others. Bailey was William Emerson Ritter's literary executor and held Ritter's correspondence and other papers. After their interview, Bailey gave Raitt that portion of the Ritter Papers which concerned Ritter's directorship at Scripps. In a similar fashion, Raitt received some letters of Erik Gustav Moberg from his widow. These collections were added to the Archives, together with files documenting the directorships of Thomas Wayland Vaughan and Harald Ulrik Sverdrup which Raitt located in Ritter Hall. Raitt's work was continued by Elizabeth Noble Shor, who was asked to write a second volume of the history of the Institution by director William A. Nierenberg in 1972. Shor was the wife of George G. Shor, Associate Director of the Institution, and had assisted Carl Leavitt Hubbs and his wife Laura Hubbs in the care of the Hubbs Library and the Hubbs Papers from 1962 to 1976. Shor served as Archivist at Scripps from 1973 to 1981. During this period, she conducted research for her book and gathered archival and manuscript material documenting the history of SIO. Shor secured a number of collections for the Archives. She located thirty-three linear feet of material, the directorial files of Roger Revelle, and other early records, in Ritter Hall and added these to the Archives. The voluminous Carl Leavitt Hubbs Papers were added to the Archives in 1979. Walter Munk donated several folders of his papers concerning Carl Eckart to the Archives. In June, 1977, sixty-four folders of files documenting Scripps expeditions were sent to the Archives by the Ships Scheduling Office. Files documenting several buildings on the Scripps campus were donated by the UCSD Office of Architects and Engineers. Correspondence and a few account books of SIO Business Manager Wesley Clarence Crandall were found by Shor and added to the collection. The Conrad Limbaugh Papers were given to Carl Leavitt Hubbs by the Limbaugh Family. Hubbs transferred them to the Archives in 1979. Alison Raitt Guest brought her mother's papers to the Archives from Raitt's home after her death in 1976. When the Alpha Helix program was concluded in 1980, the files of the Program Office and files concerning the Program in the Ships Scheduling Office were sent to the Archives. Fred Noel Spiess gave his records as a member of the Special Committee on Non-Senate Academic Ranks to the Archives in 1979. The files of Winfred Emory Allen were transferred to the Archives from storage at the Institute of Marine Resources in 1981. The Sumner Family donated Francis Bertody Sumner's photographs, and Thomas Wayland Vaughan's daughter donated some of his papers and photographs to the Archives. Rather than transferring a complete series of files, several SIO offices transferred non-current files to the Archives in small units. The Director's Office, for instance, transferred several boxes of non-current files to the Archives during the period 1973-1981. Similarly, the non-current biographical files of the Academic Personnel Office were transferred to the Archives between 1973 and 1976. The Public Affairs Office transferred their noncurrent biographical and subject files to the Archives from time to time, often sending individual boxes. The Archives acquired unsolicited items or folders from a variety of persons and offices. Some of this material was received through the campus mail and did not include a note indicating where it had come from. Material was received in this manner from the Marine Physical Laboratory, the Physiological Research Laboratory, the Institute of Geophysics and Planetary Physics, the SIO Library, the Marine Life Research Program, Marine Facilities and even from several UCSD administrative offices. There is little information on how, when and from whom such files were received. As the original order of files received by the Archives had been disturbed, and as no information on provenance was recorded, Shor found the records of the Institution to be in poor order and devised a plan to organize the archival and manuscript material in the Archives into two large artificial files: the Biographical Files and the Subject Files. In addition to these files, photographs were placed in subject and chronological order in a set of loose-leaf notebooks. Shor began to construct the

biographical and subject files by sorting the earliest records of the Institution. The William Emerson Ritter Papers were sorted into incoming correspondence (alphabetical) and outgoing (chronological). File folders labeled with the names of "anyone who had been a staff member (or student) of Scripps" were established, and correspondence to, from or about an individual were filed into that folder, regardless of the provenance of the item. The remaining Ritter correspondence was filed in the biographical files under Ritter's name. In this manner, Shor sorted the records of directors Ritter, Vaughan and Sverdrup and additional material as it was received in the Archives. However, many items did not readily fit into the biographical files, so Shor established the subject files.

The subject files are divided into two units, the S.I.O. series and the Non-S.I.O. series under "U.S. Navy –Office of Naval Research" is largely drawn from the personal papers of Roger Revelle and his official correspondence as Director of Scripps. Within these two major units, Shor established broad subject headings, followed by sub-headings as needed. For instance, "Buildings and Property" and "Campus Development" were established as broad subject headings. Later, these two headings were combined and sub-headings, such as the names of individual buildings, were established. Subject folders were arranged alphabetically by heading, and the chronologically. There is one exception, folders under the broad heading "Ships" are arranged alphabetically by ship name. Items within folders are arranged chronologically. In 1977, Shor described her method of sorting material received by the Archives into subject folders: "[The Subject files] require preliminary sorting of the folders into subject category, establishing new subjects as required, considerable cross-referencing, rearranging sheets within each folder, and finally interleaving this material into already established files." Originally, the Subject Files included published material as well as manuscript and archival material. If a full citation was available for a published item, it was removed from the file and replaced with a separation sheet during processing. Many published items separated from the files were cataloged into the Archives reference collection. Oversize material, such as architectural plans, have been removed from the Subject Files, listed on a separation sheet, and placed in oversized storage. The collection was processed into acid-free folders, using rust-proof staples, and fragile items in mylar or photocopied. A preliminary folder list was then generated. A list of subject cross-references were generated from Shor's card file of the collection. As the Subject Files include archival records from many individuals associated with SIO, no biography or administrative history was written as these would necessarily encompass the entire history of the Institution.

SIO Subject Files, 1890-1981
Accession Number 81-16

BOX	FOLDER TITLE
	S.I.O SERIES
	Administration
1	S.I.O. Organization
	1924
	1946-1949
	1955-1957
	1962, 1964, 1965, 1968
	1974-1978
	Reorganization
	1960-October 1961
	November-December, 1961
	January-September, 1962
	October-December, 1962
	July-December, 1963
	March-July, 1964
	August-December, 1964
	January-June, 1965
	July, 1965-1966
	S.I.O. Relation to University of California, 1972
	Administrative Advisory Council
	1951, 1955-1956
	1957-1958
	1959

BOX**FOLDER TITLE****SIO (cont.)**

2 Airplane (cont.)
 DC3, Correspondence (cont.)
 1974-1975

 Specifications, c1971

 Use by
 General Dynamics, 1969-1972, 1974

 McDonnell-Douglas, 1970-1972

 Nova University, 1973

 University of Wisconsin, 1971-1973

Alpha Helix Program
 1961-1973

 Advisory Board, 1968

3 Correspondence
 January-March, 1969

 April-May, 1969

 June-September, 1969

 October-November 5, 1969

 November 8-December, 1969

 January-February, 1970

 March, 1970

 April-July, 1970

 August-December, 1970

 January 1-7, 1971

 January 11- November, 1971

 1972

 February-July, 1973

BOX**FOLDER TITLE****SIO (cont.)**

Alpha Helix Program (cont.)

3 Correspondence (cont.)
August-December, 1973

1974

1975

Cruise Reports, 1973

Field Report, R/V Alpha Helix Expedition to Guadalupe Island, Baja, California,
Mexico, February 25-March 23, 1970

86L Expenditures, September 1968-April 1969

4 Proposals for the Use of the R/V Alpha Helix
1968-January 7, 1969

January 15, 1969

January 16-April, 1969

September-December, 1969

1970

Annual Reports, Correspondence, 1955

Applied Oceanography Group
1961-1963

1964-1970

86L Newsletter, April 7, 1965

4 Aquarium-Museum, Correspondence
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1953

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- 4 Aquarium-Museum, Correspondence (cont.)
 January-June, 1954

 July-December, 1954

 January-February, 1955

 March-September, 1955

 October-November 10, 1955

 November 11, 1955

 1958-1962, 1966-1968, 1973-1975

 “History of the Scripps Aquarium Museum,” B. Shor, June, 1979
- 5 Art Objects at S.I.O., B. Shor, Inventory, July, 1980

 Automobiles, 1927-1929, 1940, 1942-1944

 Bathythermograph
 Administrative Correspondence
 1946-June 1948

 July-August, 1948

 September-December, 1948

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BOX**FOLDER TITLE****SIO (cont.)**

Bathythermograph (cont.)

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1955

1956-1958

1960-1961

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1963, 1965-1968

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September 1953-April 1955

May 1955-February 1956

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Summaries, 1924-1980

1906-1911

86L

"Scripps Donation for Biological Library at La Jolla, Statement of Account from December 1, 1912 to June 30, 1914"

86L

Statements of Account, 1916-1918

86L

1918/19-1919/20

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1919/20-1920/21

1923/24-1924/25

1925/26-1926/27

1927/28-1928/29

1929/30

BOX**FOLDER TITLE****SIO (cont.)**

6	Budget (cont.)
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	1932/33
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	1934/35
	Biennium, 1933-1935
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	1936/37
	Biennium, 1935-1937
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	1938/39
	Biennium, 1937-1939
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7	Biennium, 1939-1941
	1941/42, 1940
	1941/42, 1941
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BOX**FOLDER TITLE****SIO (cont.)**

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7	Biennium, 1941, 1943
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	Biennium, 1945-1947
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	1948/49, 1947-June 1948
	1948/49, July-December, 1948
8	1948/49, 1949
	1948/49, Local Expenditure Accounts
	Summary of the Fiscal structure of the Scripps Institution of Oceanography, July 28, 1949
	1949/50, March-December, 1948
	1949/50, January-June, 1949
	1949/50, July 1949-1950
	Master Table, S.I.O. Budgets, Local Accounts, 1949-1950 Memoranda
	May-September 15, 1949

BOX**FOLDER TITLE****SIO (cont.)**

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8 Master Table, S.I.O. Budgets, Local Accounts. 1949-1950 (cont.)
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 3-6

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 List of Scripps Institution Master Accounts, 1949-1950
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 Monthly Statements of Account Balances, September 1949-August 1950

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9 1950/51. January-May, 1950

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9	1953/54, S.I.O., n.d.
	1953/54, Marine Life Research and Institute of Marine Resources, n.d.
	1953/54, 1952/1954
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	La Jolla Campus Budget Request, 1956/1957
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	1957, 1961
	1971/72, January-February, 1971
86L	1971/72, February 18, 1971
9	1971/72, March-June, 1971
10	1974
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86L	1914-1915
10	1924-1929
	1930-1931
	1932
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	1936-1941
	January-June, 1942
	July 1942-1944
86L	March 15, 1943
10	1945-1946

BOX**FOLDER TITLE****SIO (cont.)**

Buildings and Property (cont.)
General (cont.)

10 1947-1948

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1960-1962

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Cottages, 1967-1977

Building Record Cards, c1910-1930

Collections Building, March 1963

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1926-1936

11 "Report on Residential Housing at Scripps Institution of Oceanography of the University of California," February 26, 1937

"Residential Housing of the Scripps Institution of Oceanography," W.P. Stephenson, Architect, August 9, 1937

1938-1939

1940-1942

1943-1961

Repairs, 1941-1946

Tenants' Association, 1940-1949

GRB-190, Campus Housing Reports, Monthly, 1953-1960

Occupancy, Rates and Water, 1954-1960

88L Deeds to Land, 1907-1916

BOX**FOLDER TITLE****SIO (cont.)**

	Buildings and Property (cont.)
11	"Earthquake Resistance of Selected structures of the University of California, San Diego," December 21, 1972, by Blaylock-Willis and Associates
	Carl Eckart Building, S.I.O Library, 1973-1978
	Elliot Campus [UCSD] 1964-1965
	March-May, 1968
	June, 1968
	July-December, 1968
	1969-1974
	"Project Planning Guide, Elliot Campus Utilities and site Development, 1968-1969, 1967-1972 MCIP"
	"Construction Specifications for Elliot Field Station, Access Road to Transmitter station University of California, San Diego," November, 1968
	Step 2, May 1970
	Experimental Aquarium, 1963-1964
	Hydraulics Laboratory, 1961-1962, 1972
12	Institute of Geophysics and Planetary Physics Building, 1963 .
86L	Laboratory at La Jolla Cove, 1905-1908
	Library-Museum
12	n.d.-1915
86L	1915, 1916
12	1916, 1920, 1922, 1927-1932

BOX**FOLDER TITLE****SIO (cont.)**

Buildings and Property (cont.)

12	Library-Museum (cont.) 1937, 1941-1942, 1949, 1952-1957 1959-1961 Library 1962-June 1963 July-August, 1963 September 1963-June 1964 June 1964-July 1965 August 1965-1968 1969-1970 1971 1972-1976 "Documents and specifications for Remodeling the Library Building, Project 906502, at the Scripps Institution of Oceanography..., 1963- 1964"
	S.I.O. Long Range Plan, 1967-1968
86L	April 17, 1967
12	Lunchroom, 1953, 1955 Machine Shop Facilities, 1937
86L	Maps n.d.
12	1931-1976 Marine Biology Research and Instruction Building, 1974-1977 Master Plans, 1930, 1945, 1948, 1958
13	Mount Soledad 1965-1967

BOX**FOLDER TITLE****SIO (cont.)**

	Buildings and Property (cont.)
	Mount Soledad (cont.)
13	1968
	1969-1970
	Nimitz Marine Facility
	1959, 1966-1967, 1969
86L	March 31, 1964
13	Pacific Experimental Facilities (NORPAX), 1972
	Physiological Research Laboratory, 1962-1965, 1980
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13	August-September, 1925
	October 1925-1926, 1930, 1932, 1935, 1937, 1943, 1946, 1950-1952, 1954
	Research Shop, 1950, 1952, 1954-1956, 1962-1963, 1967, 1971
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BOX**FOLDER TITLE****SIO (cont.)**

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13	Road Closing, 1925, 1928, 1941-1946
	Road/Entrance Improvements, 1966
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86L	1909-1910
86L	1931
14	1931
	1932
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86L	1978-1981
14	1978-1981
	Seawall 1927-1929, 1932
	1939-1942
86L	1941
14	Seawater System, 1910, 1926, 1931-1932, 1934, 1964, 1970
	Seawater Test Facility [i.e., Shore Processes Laboratory] 1961-1965
	1968-1972
	Seaweed Canyon, 1964-1965
	Southwest Fisheries Center, 1958-1960
	Space Inventory, 1954
	Telephone System, 1932-1933

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- 14 Buildings and Property (cont.)
 Temporary Building North of Ritter Hall, 1945

 Tennis Courts, 1934, 1950, 1952-1955

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 1953-1960

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15 1957-1958, 1960-1961, 1972

 Dedication of Marine Facilities, R/V Alpha Helix and R/V Thomas Washington,
 1966

 Building Dedications, Marine Biology, Eckart Building, 1977

 Dedication of the Satellite-Oceanography Facility, October 12, 1979

 Service Day, 1960-1961

 Scripps Institution of Oceanography, 75th Anniversary, 1978

 University of California 75th Anniversary, (March 1943), 1941

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15

Chief Scientists Manual, spring, 1977

Conferences

Sardine Conferences, CalCOFI
1949-1951

1952-1953

The Position of the Scripps Institution of Oceanography in the University,
State and NationCharter Day, 1951
1950-February 1951

March 1951

Transcript of Tape Recordings of Conference, March 1951

April-September, 1951

Pacific Tuna Conference, 5th Annual Meeting, November 3-5, 1954, 6th
Annual Meeting, November 15-17, 1955 and the 7th Annual Meeting,
October 22-24, 1956

1956-1957

Conference on Marine Corrosion and Fouling Problems, April 1956

Eastern Pacific Oceanic Conference, 1956, 1957

New Research Methods in Hydrology, February 2-3, 1957

Recent Research in Climatology, March 25-26, 1957

"The Ocean, 1968 - A New World," February 1-2, 1968

"Man's Chemical Invasion of the Ocean: an Inquiry," February 24, 1969

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15	Summaries and General 1945-1946 1947-1953
16	1954-1956, 1961 Beach Erosion Board, 1949, 1952 National Defense Research Committee, 1941-1942
86L	NObs-2074, 1947
16	1945-June 1947 July-December, 1947 1947 1948 January-May, 1949 June 1949-1950 N6-0RI-III 1946-1947 1948 January-May, 1949 May-December, 1949 1950-1953 Course Outlines, 1936-1937, 1948-1952, 1962 Curriculum Committee, 1949, 1960 Data Collection and Processing Group, 1960-1970 Deep Sea Drilling Project n.d. 1966-1970

BOX**FOLDER TITLE****SIO (cont.)**

17	Deep Sea Drilling Project (cont.) 1971-1978
	Descriptive Oceanography, Paul L. Horrer July 1950-May 1951
	July-December, 1951
	1952-1953
	Diving 1947-1952
	1953
	1956, 1958-1959, 1961
	"Outline of a Training Film on the Use of Self contained Diving Apparatus," c1951
	Diving Accident Reports 1955
	1956-1957
	1958-1960
	1961-1970
	Equipment 1948-1949, 1961, 1978
	Deep Sea Winch, 1952-1954
	Radar on Ships, 1955-1956
	Off Campus Inquiries, 1969-1971
	Expeditions Tracks and Lists, 1950-1974
86L	Gulf of California, January-February, 1939, R/V E.W. Scripps n.d.
17	1939-1940

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	Gulf of California, January-February, 1939, R/V E.W. Scripps (cont.)
	October 5-December 24, 1940, R/V E.W. Scripps
17	1940
	1941-1943
	Operation Crossroads, March-July, 1946, USS Bowditch, USS John Gilliss, USS John Blish, USS Sumner, USS Dutton, etc.
	n.d.
	n.d.
18	Operation Plan, n.d.
	1945 January 1946
	February 1946
86L	February 13, 1946
18	March-April, 1946
	May-December, 1946
	1947-1953
	Bikini Resurvey, 1947, USS Chilton, LCI(L)615, USS Coucal
	April-June 28, 1947
	June 30, 1947
	July 1947-1948
86L	1947
18	1949
	Midpac, July 27-October 28, 1950, R/V Horizon, USS Marysville
	October-December, 1949
	January-April, 1950

BOX**FOLDER TITLE****SIO (cont.)**

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	Midpac, July 27-October 28, 1959, R/V Horizon, USS Marysville (cont.)
86L	January 1950
18	May-June, 1950
	July-August, 1950
	September 1950
	October 1950
	November 1950
	December 1950
	January-February, 1951
19	March-July, 1951
	August 1951-1952
	Log Book
	July 27-August 31, 1950
	September 1-30, 1950
	October 1-28, 1950
	Midpac/Capricorn Reunion
	July-August, 1975
	August 17, 1975
	"Midpac, the First Big Step," from the 1950 Diary of Edward S. Barr, August 17, 1975
	Northern Holiday, July 27-September 26, 1951, R/V Horizon
	May-July, 1951
	August 1951
	September 1951

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SIO (cont.)

Expeditions (cont.)

19	Northern Holiday, July 27-September 26, 1951, R/V Horizon (cont.) October 1951-1953
	"Excerpts from Log Book of Horizon, Operation Northern Holiday," July 28-September 26, 1951
	Shellback, May 17-August 28, 1952, R/V Horizon, USS Marysville, M/V Gilbert, M/V Hugh M. Smith, M/V Cavalieri May 1951, January-March, 1952
	April 1952
	May 1952
	June 1952
	July 1952-1953
20	Capricorn, September 26, 1952-February 20, 1953, R/V Spencer F. Baird, R/V Horizon 1952
86L	1952
20	February-May, 1952
	June-July, 1952
	August 1-14, 1952
	August 15-23, 1952
	August 25-30, 1952
	September 1-15, 1952
	September 16-19, 1952
	September 22-24, 1952
	September 25-30, 1952
	October 1-10, 1952

BOX**FOLDER TITLE****SIO (cont.)**

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	Capricorn, September 26, 1952-February 20, 1953, R/V Spencer F. Baird, R/V Horizon (cont.)
20	October 12-20, 1952
	October 21-31, 1952
	November 1-12, 1952
21	November 13-30, 1952
	December, 1952
	January-February, 1953
	March-April, 1953
	May 1953-1957
	Helen Raitt's Journal, Aboard the R/V Spencer F. Baird, December 27, 1952- January 1, 1953
86L	Notes by John Dove Isaacs 1952
21	1952
	Ship's Log November 28, 1952-January 15, 1953
	January 16-February 4, 1953
	Willard N. Bascom, et. al., "Diving During Capricorn Expedition," 1953
	Transpac, July 17-December 1, 1953, R/V Spencer F. Baird n.d.
	February 1952, September 1952-February 1953
	March-April, 1953
	May 1953

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

- 21 Transpac, July 17-December 1, 1953, R/V Spencer F. Baird (cont.)
 June 1953
- July 1953
- August 1953
- September 1953
- 22 October 1953-1954
- Pelagic Area Studies Survey, May-August, 1954, R/V Paolina T, R/V Spencer F. Baird
 February-May, 1954
- July 1954-May 1955
- Acapulco Trench (Chubasco), October 19-December 20, 1954, R/V Horizon,
 R/V Spencer F. Baird, 1954-1955
- 1955
- Wigwam, R/V Spencer F. Baird, R/V Horizon, R/V Paolina T, R/V T-441, 1955
- Norpac, July-September, 1955, R/V Stranger, R/V Hugh M. Smith, R/V Paolina
 T, R/V Horizon, "Biological Results of the Portion of CalCOFI," n.d.
- 86L 1954-1956
- 22 April 1954-March 1955
- April-August, 1955
- September-December, 1955
- January-February, 1956
- March 1956-1958

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

- 22 Eastropic October 1-December 15, 1955, R/V Spencer F. Baird, R/V Horizon
 1954-August 1955
- September-October, 1955
- November 1955-1956
- Chinook, June-August, 1956, R/V Spencer F. Baird, R/V stranger
 May-June, 1956
- July-November, 1956
- Acapulco Geological Expedition, September 19-October 1, 1956, R/V Spencer F.
 Baird
- Equapac, August 5-October 1956, R/V Stranger, R/V Horizon
 October 1955-June 1956
- 23 July 1956
- August-December, 1956
- 1956
- 1957
- SCOPE (Scripps Cooperative Oceanic Productivity Expedition), November 7-
 December 20, 1956, R/V Stranger
 1956
- 1957
- SIGRE (Scripps Institute of Geophysics Revillagigedo Expedition), February a-
 March 22, 1957, R/V Stranger
 1956
- 1957
- Mukluk, July a-August 26, 1957, R/V Spencer F. Baird, R/V Horizon, 1957

BOX**FOLDER TITLE****SIO (cont.)**

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23	Downwind, October 1957-February 1958, R/V Horizon, R/V Spencer F. Baird July-September, 1957
	October 1957
	November-December, 1957
	January-April, 1957
86L	January 10, 1958
23	May 1958-1959, 1976
	1958
	Dolphin, March 27-June 9, 1958, R/V Horizon and R/V Hugh M. Smith, 1958
	Scot, April 28-July 7, 1958, R/V Spencer F. Baird, 1958
	Doldrums, August 1-September 30, 1958, R/V Horizon, R/V Spencer F. Baird, R/V Stranger
	1957-July 1958
	August 1958
	September 1958-1959
86L	1958
23	Vermilion Sea, February 25-May 29, 1959, R/V Spencer F. Baird, R/V Horizon, 1959
	Naga, June 15, 1959-June 26, 1961, R/V Stranger, M/B Mao Tien Preliminary Reports, n.d.
	1956-1957
	1958
86L	1958-1972
24	1959

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

24	Naga, June IS, 1959-June 26, 1961, R/V Stranger, M/B Mao Tien (cont.) January-March, 1960 April-June, 1960 July-September, 1960 October-November, 1960 December 1960 January-February, 1961 March-April, 1961 May-September, 1961 1962-1975 "[James] Faughn's Last Bangkok Notes," January 3, 1960 "Preliminary Report, Marine Research Cruise S4 and Summary Status Report of First Year's Operations," April, 1960 "Progress Report and Preliminary Report of Cruise S5 in Gulf of Thailand," May, 1960
86L	"Progress Report and Preliminary Report of Cruise S6 in South China Sea," July, 1960
86L	"Report on Use of FAO 45.cm-Plankton Net by Naga Expedition," July 27, 1960, by Doctor Edward Brinton, et. Al.
86L	"Progress Report and Preliminary Report of Cruise S7 in the Gulf of Thailand," August, 1960
86L	"Progress Report and Preliminary Report of cruise S8 in South China Sea, September-October, 1960

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

- 86L Naga, June 15, 1959-June 26, 1961, R/V Stranger, M/B Mao Tien (cont.)
"Progress Reports and Preliminary Reports of Cruise S9 and S9A
in the Gulf of Thailand," December 1960-January 1961
- 86L "Preliminary Report and Progress Report of Cruise SIO, South
China Sea," March, 1961
- 24 Fanfare, July 1959, R/V Hugh M. Smith, R/V Spencer F. Baird, USS
Saluda, 1959
- Dorado, July-August, 1959, R/V Horizon, 1959
- Limbo, May 16-July 1, 1960, R/V Horizon, 1960
- Tethys, June 15-August 23, 1960, R/V Spencer F. Baird, 1960.
- Monsoon, August 23, 1960-March 1961, R/V Argo, M/V Malita
1958-1959
- January-July, 1960
- August 1960
- September 1960
- 25 October-December, 1960
- January-June, 1961
- 86L 1960-1961
- 25 Step I, September 15-December 16, 1960, R/V Horizon, 1960-1961
- Carib, October-December, 1960, R/V Spencer F. Baird, 1960-1961
- Japanyon, May 27-September 18, 1961, R.V. Spencer F. Baird, 1961

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

25	Leapfrog, July 21-September 17, 1961, R/V Stranger, R/V Hugh M. Smith, 1961
	Swan Song, August 14-December 1, 1961, R/V Argo, 1961
	Risepac, October 27, 1961-January 30, 1962, R/V Spencer F. Baird, 1961
	Bacanyon, January-February, 1962, R/V Argo, 1961-1962
	Hilo (Mohole site Selection Studies), March-May, 1962, R/V Stranger, R/V Hugh M. Smith, R/V Spencer F. Baird, 1962
	Proa, March 15-September 22, 1962, R/V Spencer F. Baird, 1962
	Lusiad, May 15, 1962-August 15, 1963, R/V Argo, R/V Horizon 1961-February 1962
	March-May, 1962
	June-July, 1962
	August-September, 1962
	October-November, 1962
	December 1962
86L	1962
25	January-February, 1963
	March-December, 1963
	Zephyrus, June 13-October 1962, R/V Horizon, 1962
	Tempo (STOR Cruise TO-62-1), August 1-September 15, 1962, R/V Hugh M. Smith, 1962

BOX**FOLDER TITLE****SIO (cont.)**

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- 25 Criss-Cross, February 21-April 19, 1963, R/V Spencer F. Baird, 1962
- Bonacca, June 5-September 22, 1963, R/V Spencer F. Baird, 1963
- Amphitrite, December 3, 1963-February 11, 1964, R/V Argo, 1963-1964
- Ursa Major, August 1-October 2, 1964, R/V Alexander Agassiz, 1964
- 1965
- Wahine, April-May, 1965, R/V Spencer F. Baird, 1965
- Dodo, April a-December 23, 1964, R/V Argo, RRS Discovery
 March 1963-March 1964
- 26 April-June, 1964
- July 1964-1965
- Kayak, July 10-September 25, 1964, R/V Oconostota, 1964
- Quartet, January 21-February 1965, R/V Spencer F. Baird, R/V Horizon,
 R/V Oconostota~ R/P FLIP, 1965
- La Pared, April 28-May 21, 1965, R/V Argo, 1964-1965
- Gorda, May 1965, R/V Horizon, 1965
- Muddauber, October 27-December 17, 1965, R/V Alexander Agassiz,
 1965-1966
- 1966
- Spheres, 1966, R/V Horizon, 1966

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

26 Zetes, January 3-August 7, 1966, R/V Argo
 1965-February 1966

 March-May 10, 1966

 May 11-31, 1966

 June-August, 1966

 1967-1968

 Kani, January-September, 1966, R/V Horizon and R/V FLIP, 1965-1966

 Show (Mohole Site Selection Studies), January 29-October 1, 1966, R/V Horizon,
 R/V Argo, 1966

 Six-Pac, March 30-April 19, 1966, R/V Horizon, R/V Yaquina, 1966

 Billabong, Great Barrier Reef, April 15- October 15, 1966, R/V Alpha Helix
 December 1965-April 1966

 May 1966

 June-July, 1966

 August-December, 1966

 1967

 James Faughn's Shipboard Journal
 March-April, 1966

27 May-June, 1966

 July-August, 1966

 Exjibia, June 28-August 27, 1966, R/V Thomas Washington, 1965-1966

 Tow One, September 17-October 5, 1966, R/V Thomas Washington, 1966

BOX**FOLDER TITLE****SIO (cont.)**

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Tripod, October 15-December 22, 1966, R/V Argo, 1966

Tow Two, December 12, 1966-January 16,--1967, R/V Thomas
Washington, 1966-1967

1967

Eastropac, January 24, 1967-April 15, 1968, R/V Argo, USC&GS
Rockaway, R/V Thomas Washington
1965-1967

1968

Carmarsel (Carolina-Marshall Islands Sea Level Expedition), February 7-
April 7, 1967, R/V Horizon, 1966-1967Amazon, February 15-October 8, 1967, R/V Alpha Helix
1966-1968

86L

March 16-17, 1968

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Bob Livingston's Log, February-April, 1967

Nova, April 8-December 18, 1967, R/V Horizon, R/V Argo
1966-February 1967

March-April, 1967

May-June, 1967

July 1967

August-September, 1967

October-November, 1967

1968

Marine Vertebrates Cruise MV67-III, June 8-9, 1967, R/V Thomas
Washington, 1967

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

- 27 Wildcat, August 17-September 26, 1967, R/V Oconostota, 1967
- 28 Gam, October 30-November 22, 1967, R/V Ellen B. Scripps, 1967
- Tow Mas, November 8-December 17, 1967, R/V Thomas Washington, 1967
- 1968
- Aphrodite, 1968, R/V Ellen B. Scripps, 1968
- Marine Vertebrates Cruise MV68-I, January 1968, R/V Thomas Washington, December 1967-February 1968
- Bering Sea, March 1-September 30, 1968, R/V Alpha Helix, 1968
- Circe, March 7, 1968-March 13, 1969, R/V Argo
1966-January 1968
- February-March, 1968
- April-August, 1968
- September-December, 1968
- January-April, 1969
- Tip Tow, April 24-May 15, 1968, R/V Thomas Washington, 1968
- Styx, June 18-August 5, 1968, R/V Alexander Agassiz
1967-May 1968
- July-December, 1968
- Climax I, September 15-October 22, 1968, R/V Argo, 1968
- Piquero, December 9, 1968-September 8, 1969, R/V Thomas Washington
March-November, 1968

BOX**FOLDER TITLE****SIO (cont.)**

Expeditions (cont.)

- 28 Piquero, December 9, 1968-September 8, 1969, R/V Thomas Washington
 (cont.)
 December 1968-February 1969

 March 1969-1970

 1969
- Scan, March 4, 1969-January 26, 1970, R/V Argo
 July 1968-February 1969
- 29 March-May, 1969

 June-September, 1969

 October 1969-February 1970
- Marine Vertebrates Cruise MV69-IV, April 7-11, 1969, R/V Ellen B.
 Scripps, 1969
- New Guinea, May 1-December 1, 1969, R/V-- Alpha Helix, 1969
- Dragon, R/V Alexander Agassiz, May 6-June 11, 1969
- Climax II, August 12-October 12, 1969,-R/V Argo, 1969
- Parka Tow, October 6-December 11, 1969, R/V Thomas Washington, R/P
 FLIP, September 1969
- Equatow, October 10-30, 1969, R/V Thomas Washington, 1969
- Carnivora II, November 3-7, 1969, R/V Oconostota, 1969
- Quebrada, November 6-December 21, 1969, R/V Thomas Washington,
 1969
- 1970

BOX**FOLDER TITLE****SIO (cont.)**

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Catalina Cruises, 1970-1972, R/V Oconostota, R/V Alexander Agassiz,
R/V Ellen B. Scripps, 1970-1972

Seven Tow, January 22-September 18, 1970, R/V Thomas Washington,
1969-January 1970

Bongo I, February 16-21, 1970, R/V Ellen B. Scripps, 1970

Antipode, June 15, 1970-August, 1971, R/V Melville, 1970-1971

Antarctic, August 27, 1970-July 26, 1971, R/V Alpha Helix, 1970-1971

Aries, November 14, 1970-October 3, 1971, R/V Thomas Washington,
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Iguana, August-October, 1971 and March-May, 1972, R/V Ellen B.
Scripps, R/V Kana Kaoki, 1971-1972

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Hypogene, 1972, R/V Melville, 1972

South Tow, January 5, 1972-February 21, 1973, R/V Thomas Washington
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Cato, April 1972-March 1973, R/V Melville, 1971-1972

Aztec II, January 2, 1973, R/V Oconostota, 1973

Tasaday, June 4, 1973-March 3, 1974, R/V Thomas Washington, 1973-
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Pacific GEOSECS, August 22, 1973-April 21, 1974, R/V Melville, 1973-
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Dit-Tow, May 13-31, 1974, R/V Thomas Washington, n.d.

Krill (Panope), May 27-September 19, 1974, R/V Alexander Agassiz, R/V Melville, 1973-1974

Cocotow, August 12-December 11, 1974, R/V Melville, 1974

Eurydice, August 29, 1974-July 14, 1975, R/V Thomas Washington, R/V Ellen B. Scripps, 1974

Indopac, March 24-September 30, 1976 and January 11-July 26, 1977, R/V Thomas Washington, R/V Atlantis II, R/V Chiu-Lien, 1976-1977

Mariana, July 24, 1978-March 11, 1979, R/V Thomas Washington, 1978-1979

Rama, March 13-December 22, 1980, R/V Thomas Washington, 1980

Vulcan, August 18, 1980-August 1, 1981, R/V Melville, 1980-1981

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30 Gifts (cont.)
 Yacht Nereus, 110.2, 1962-1963

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31 1961-1965

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 1930-1936

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31	Inventory [of Equipment and Property] (cont.) 1940-1942 1943-1944 1945-1947 [Scripps] Island [Research Facility] 1959, January-July, 1964 August-December, 1964 1965-1966 1967
32	January-February, 1968
87L	[Scripps] Island [Research Facility] Agreement between City of San Diego and Foundation for Ocean Research January 22, 1968
32	March-April 8, 1968 April 9-30, 1968 May-June, 1968 July-August, 1968 September 1968 October 1-15, 1968 October 16-November 14, 1968 November 15-30, 1968 December 1968 July-September, 1969
33	October 1969-1970 1971-1975

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33 [Scripps] Island [Research Facility]; Agreement between City of San Diego and
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John Murray Expedition, 1933-1934, July 3, 1963

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1958-1960, 1966, 1972, 1974

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[Acquisitions], Philip M. Douglas, 1955-1956
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34 Desiderata, Dealers

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	[Acquisitions], Philip M. Douglas, 1955-1956 (cont.)
34	Institutions
	S.I.O. Library Committee, 1936-1937, 1942, 1947, 1949-1952, 1956, 1968-1970
	Loyalty Oath
	March 1-14, 1950
	March 15-31, 1950
	April 2-16, 1950
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	Notes by Roger Revelle, c1950
	Machine Shop, 1948, 1956-1957, 1960-1963
	Marine Biochemistry
	1948-1949
	1950-1951
	1952-1953
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	1956-1958
	Marine Biological Association of San Diego
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87L	1906, 1912
34	Record of Incorporation, May 3, 1904
87L	By-laws, 1903-1912
	Minutes of Meetings
87L	1904, 1914

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	Minutes of Meetings (cont.)
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34	1904
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35	1905-1909
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36	Marine Facilities (cont.)
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37	January-July, 1964
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37	Ships, Accounting Data for Costs, Summary Operations and Memos to Accounting, Ships Operations July 1951-June 1955
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38	January-June, 1966
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BOX**FOLDER TITLE****SIO (cont.)**

Marine Facilities (cont.)

38 Ships, Accounting Data for Costs, Summary Operations and Memos to
 Accounting, Ships Operations (cont.)
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87L July 1-November 30, 1969

39 1970

87L July 1969-December 1970

39 1971

87L July 1970-December 1971

39 Marine Invertebrates Division, correspondence
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39	Marine Life Research Program (cont.) January-March, 1947 April-June, 1947 July-August, 1947 September 1947 October-December, 1947 January-May, 1948 June-July, 1948 August 1948 September-October, 1948 November 1948
87L	November 19, 1948
39	December 1948 January 1949 February-March, 1949 April-May, 1949
40	June-July, 1949 August-September, 1949 October, 1949 November-December, 1949
87L	December 24, 1949
40	January-March, 1950 April-June, 1950 July-October, 1950

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40	Marine Life Research Program (cont.) November-December, 1950 January 1951 February 1951 March 1951 April-June, 1951 July-August, 1951 September-October, 1951 November-December, 1951 January-February, 1952 March-April, 1952 May-June, 1952
41	July-December, 1952 1953-1954 1955, 1958, 1960 1963-1964, 1968-1969 Marine Microbiology 1948 1949-1950 1951 1952 Marine Operations Committee 1961-1962, 1964 1975-April 1976 May 1976

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41	Marine Operations Committee (cont.) June 1976 July-December, 1976
	Marine Physical Laboratory January-June, 1946 July-December, 1946 1947-1948 1949-1951 January-July, 1952 August-December, 1952 1953
42	1954 1955-1957 1960-1967, 1970, 1975-1976 Magnetometer, 301 1952-1954 1955-May 1957 June 1957-1959 Staff Lists, 1951-1952, 1958-1965
	Marine Sediments Division [Sediments Laboratory] 1932-1937 1938-1942
	Marine Technicians 1948-1949, 1951 1965 August 15, 1965

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42	Marine Technicians (cont.) 1966-1967, 1969, 1972-1974
	Marine Vertebrates Division January-July, 1948
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43	November-December, 1949
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	April 2-13, 1951
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44	May 1-14, 1951
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	June 1951

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44	Marine Vertebrates Division (cont.) July 1951 August 1951 September 1951 October 1951 November 1951 December 1951 January 1952 February 1952 March 1952 April 1952 May 1952 June-July, 1952 August-December, 1952 January-June, 1953 July-December, 1953
45	January-May, 1954 June-December, 1954 January-June, 1955 July-December, 1955 January-November, 1956 1957 1958 Neurobiology Facility, 1970

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45	North Pacific Experiment (NORPAX) October 1972 November 1972-1973 Oceanids 1969 "Flip: An Original Musical Review by Madeleine Miller," April 30-May 1, 1969 Patents 1948-June 1950 July-December, 1950 Photographic Laboratory, 1949 Physical Oceanography January-July, 1948 August-October, 1948 November-December, 1948 January-June, 1949 July-December, 1949 1950-1952
46	1954-1958 Physiological Research Laboratory 1961-1962 1963 1964, 1968-1969 [S.I.O.] Pier 1924, 1926, 1933-1934, 1937-1939 1940, 1943, 1949, 1954, 1965-1967, 1969 General Pier Log, 1919-1941

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46 [S.I.O.] Pier (cont.)
History, 1933, 1976

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August, 1958

Poetry, 1951-1970

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"University Explorer," [Radio Broadcasts], 1934, 1943, 1945,
1947, 1952, 1954, 1957, 1959, 1960, 1969

87L [Radio Station KHJ, Los Angeles], n.d.

46 CBS Broadcast
"21st century," December 1966-March 1967

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"Lassie," [Television Program Filmed at S.I.O.], 1968

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46	1948-1954
47	1955-1969
	"Around the World After Whales," 110.5, 1969-1970
	"OOP," (Oceanic Observations of the Pacific), 110.5 1957-1961
	1963, 1966, 1972
	Radio station WWD
	1946-1948
	January-July, 1949
	August-December, 1949
	1950-1952
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48	1966
	January-June, 1967
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48	Radio station WWD (cont.) January-July, 1968
	August-December, 1968
	January-August, 1969
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	1970
	1971-1972
	Research
	1932-1949
	[W. Forest] Whedon, Fouling Organisms
	1936-1937
	January-June, 1938
	July-December, 1938
87L	1937-1938
48	January-June, 1939
	July 1939-1941
	[U.S. Bureau of Commercial Fisheries, South Pacific Fisheries Investigations]
	1938-1939
	1940
	U.S. Fish and wildlife Service, Pilchard Fisheries
	1940-February 1941
49	March 1941-1943
	American Petroleum Institute, Projects 43 and 43a
	1941-1943
	1944

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- 49 American Petroleum Institute, Projects 43 and 43a (cont.)
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- July-December, 1948
- 1949-1950
- 1951-1952, 1954, 1956
- Kelp, [Kelco Company]
1941-1944
- 87L 1941
- 49 [Extraction of Gums from Pacific Coast Seaweed as Source of Substitute
for Agar], Contract with U.S. Fish and Wildlife Service, 1942-1944
- [Correspondence Regarding, and] Receipts for Classified Material, World
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- 1943-1944
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- May-July, 1943
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- July-December, 1944
- January-March, 1945
- 50 May-October, 1945

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50	Surface Currents, Drift, Salinity, and Temperature [studies], World War II (cont.) November 1945-1946
	[Memorandum on the] Afternoon Effect, [based on a study carried out by Lt. Armstrong], 1944
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87L	1946
50	Woods Hole Oceanographic Institution, U.S. Navy Bureau of Ships, Waves in Shallow Water, 1944 American Society for Testing Metals, U.C., Atmospheric Corrosion [Research], 1945-1949 War Department, Beach Erosion Board, [study of] Tidal Flats, 1945 Deep Scattering Layer, 1945-1946, 1949, 1966-1967, 1969, 1979 U.S. Navy Bureau of Ships, Project SOFAR, [Tracking of Guided Missiles and Pilotless Aircraft] 1946-1947
87L	November 19, 1947
50	1948-1952 Contract N6ori-211, Office of Naval Research, U.C., [Fog Forecasting] 1946 1947 1948 1949

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- 50 [Cooperative Program for Meteorological Upper Air Observations by the Department of Meteorology, UCLA and S.I.O.], 1948-1950
- [U.S. Air Force] Weather Service, [U.S. Navy Office of Naval Research, Study of the Meteorologic and Oceanographic Conditions off California], 1949
- Contract Nonr-233, [Office of Naval Research, U.C.], Foraminifera Research
- 1949-1950
- 1951-1952
- 1953-1954
- [U.S. War Department], Beach Erosion Board, [Contract W-49-055-eng-3, Investigations of Fundamental Principles Governing the Movement of Beach and Near Shore Materials]
- 1948-April 1949
- 51 May-December, 1949
- 1950
- 87L 1949-1950
- 51 1951-April 1952
- May 1952-1954
- 1955-1956
- Contract Nonr-233 (13), [Office of Naval Research, Research on Limnoria and other Marine Wood-boring Organisms]
- 1950-1951
- 1952
- 1953-1955

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51

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[Papers, Air Research and Development Command, U.C. Air Sea Boundary Research]

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[Foreign Operations Administration], Studies of the Marine Fisheries of Peru, 1954-1955

52

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52	Contract AF 19 (604)-1163, Air Force Cambridge Research Center-U.C., study of Long Period Ocean Waves, 1954-1956
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	Personnel, [Neil Marshall File] 1953-1956 Austead Curtis
	Demond-Moore
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	[S.I.O.] Research Advisory Council, 1960-1961
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	Scripps Industrial Associates, 1972, 1975
	Scripps Tuna Oceanography Research (STOR) Program April 1955, 1957
87L	1957
52	1958
	1959-1962
	1963-1967
	1968-1973
53	Sea Grant, 1973-1975

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53 [Proposal for] Sea Grant Institutional Support, Education, Research and Advisory Services in Applied Ocean sciences, S.I.O, UCSD-3514, July 1, 1970
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Sealab II
1964-March 1965

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June 1-9, 1965

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54 August 12-20, 1965

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Sealab III, 1966-1969

Seawater Test Facility
1959, 1961-1963

January-April, 1964

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Seismograph, 1927, 1951

Shipboard Computer, 1966-1968

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54

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1910, 1923, 1927-1928

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"Suggestions Regarding Boat Work," by E. G. Moberg, December 1929

["Work at Sea of the Scripps Institution, 1929-1933"]

1930-1932

"Boat and Program for Oceanographic Investigations," by E.G. Moberg, recopied September, 1931

1938

1945-1947

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1951

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March 7, December, 1951

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1956-1959

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55	"Marine Facilities Division, Shore Fleet Support Activity, Data on Ships and Shore Facility," November 1960
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	1963
	January-May, 1964
	July-December, 1964
	January-March, 1965
	April-June, 1965
	July-December, 1965
56	1966
	Design of a Vessel to Replace R/V Horizon, 1966-1970
	1967-1968
	Sixty-Five Foot Lab Vessel (Scholander), 1967-1968
	1969
	January-July, 1970
	August-December, 1970
	January-May, 1971
	June-July, 1971
	August-December, 1971
	NORPAX Ship (not built), 1971
	1972
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56	Ships (cont.) 1974 1975 February-September, 1976 October-December, 1976, 1978
57	Ship Schedule Requests, approved 1958-1959 1960-1962 1963-1964 1965-1966 1967 R/V Alexander Agassiz 1966-1969 1970-1972 1973-1976 R/V Dolphin, 1974-1976 R/V Gianna, 1974-1976
58	R/V Horizon, 1965-1968 R/V Oconostota 1965-1971 1972-1973 R/V stranger, 1956-1957 T-441, 1967 AGOR n.d. 1964-April 1965

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58	AGOR (cont.) May-December, 1965
87L	Blueprints, n.d.-1965
58	AGOR-300, 1968-1969
	Alexander Agassiz I 1908-1910, 1916-1920
87L	Bill of Sale, July 12, 1912
58	Notes by Helen Raitt
	Alexander Agassiz II 1961-May 1962
	June-December, 1962
	1963-1965
	1966, 1968, 1971, 1973
	1975-1978
59	"Specifications for Conversion of the Vessel Alexander Agassiz (FS-208) for Scripps Institution of Oceanography," c1962
	"Specifications for Conversion and Overhaul of the Research Vessel Alexander Agassiz [II] for Deep Ocean Coring for Scripps Institution of Oceanography," prepared by Ocean Science and Engineering, Inc., 1966
	Part I-Part II, sec, 10
	Part II, sections 11-22
	Part II, Section 23, Part IV
	Alpha Helix 1960-1961
	1964-1967

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59

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January-May, 1959

"Report of Material Inspection of USS Snatch (ARS 27) held May 19, 1959 by Sub-Board of Inspection and Survey, San Diego Group, Pacific Reserve Fleet," May 1959

June-July, 1959

August-October, 1959

November-December, 1959

January-April, 1960

May-June, 1960

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September-December, 1960

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60	Buoy Boats 1946-1949
	1950-1951, 1953-1954, 1956, 1965
	Charley Bear, 1968-1969
	Crest 1947
	1948
87L	1947-1948
60	1949-1950
	Todd Shipyards Corporation, Los Angeles Division, Inclining Experiment Data, M.S. Crest (Ex-YMS-292) January 19, 1949
61	Deep Jeep, 1966, 1969
	Defiance (Charter), 1968
	Diving Saucer 1963-April 1964
	May 1964
	August-December, 1964
	1965-1966
	Dolphin 1971, 1973-1977
87L	1971
61	Duchess 1965-1970
87L	February 5, 1965
	Duke, 1953-1954

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61	E.W. Scripps 1936-1937
	1938-1939, 1941-1942
	1943-1946
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	1954-1955, 1961, 1975
	Field Notes on Bottom Samples Collected on E.W. Scripps, May-September, 1938
87L	Report of Survey by Walker, Potts, and Wyatt, Marine Surveyors, July 17, 1947
61	Ellen B. Scripps 1963-1964
62	1965
	1966
	1968, 1970
87L	Bareboat Charter and Option to Purchase, December 15, 1964
62	Ellen Browning, 1977
87L	Elsie, Contract between M. Duffy of San Pedro and William E. Ritter, acting for the University of California, for hire of the gasoline launch Elsie, May 15-August 15, 1901
62	FSS 227 Conversion, 1960-1962
	Falcon, 1964

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62	Fisherette (Charter), 1967-1970
	Floating Instrument Platform (FLIP)
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	1966, 1968-1970
	Gianna, 1973-1977
	Glomar Challenger, 1968-1969
	Golden One, 1963
	Horizon
	1947
	January-July, 1948
	August-December, 1948
	1949-1951
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	1957-1963
	1964-1966
63	1968-1969
	Summaries of Operations, July 1, 1950-October 1968
87L	Specifications for Conversion and Repair of ATA 180 for Scripps Institution of Oceanography, and "Instructions to Bidders," 1948

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87L	Specifications for Reconversion and Repair of the TSMV 'YMS-292', to Oceanographic Survey Vessel for the Scripps Institution of Oceanography, August 10, 1948
63	Hugh M. Smith, 1956, 1959-1963
	Instrument Mobile Platform (IMO), 1968-1969
	Lorna
	1902, 1906, 1962
	Log of the Lorna for the San Clemente Trip, July 1905
	National Bank of Commerce, San Diego, Check Book, Account with Fred Baker for the Boat Fund of 1500 Dollars by E.W. Scripps for Repairing Schooner Lorna, 1904
87L	Papers Relating Original Cost of Refitting the Lorna Prior to its Gift to the Marine Biological Association of San Diego by E.W. Scripps, 1904-1905
	Melville
63	1964-April 1965
	May-December, 1965
	January-April, 1966
	May-September, 1966
	October-December, 1966
	January-July, 1967
	August-December, 1967
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63	January-May, 1969
64	July-August, 1969
	September-December, 1969
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	June 1971-1972
87L	Fleet-wide Priorities for Marine Facilities Improvements, Fiscal 1971-1972, May 19, 1972
	New Horizon
64	1969, 1973, 1975-1979
	Daily and Weekly Construction Progress Reports
	August 29-October 3, 1977
	October 4-28, 1977
	November 1977
	December 1977
	January 1978
65	February 1978
	March 1978
	April 1978
	May 1978
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65 Daily and Weekly Construction Progress Reports (cont.)
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66 Oconostota, 1961-1975

Orca, 1956-1962

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July-December, 1948

87L 1946, 1948

66 1949-1953

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Summary of Paolina T Operations, 1949-1952

Excerpts from the Log of the Paolina T, from June 28, 1948 thru April 8,
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1929-1934

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66	Boat Reports 1924-1929
	1930-1936
	Severiana (Charter), 1975-1977
	Spencer F. Baird 1951-1952, 1954-1959
67	1960-1966
	ST908, 1961, 1964, 1971, 1973-1976
	Star III, [Submarine], 1969
	Stranger 1955
	1956
	1957
	1958-1959
	1960-1965, 1974
87L	"Survey and Evaluation," April 21, 1975
67	T-441 1954-1958
	1959, 1961-1969
	Thomas Washington n.d.
	1962-April 1963
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69	1977-1979 Running Log, January-April, 1971 Valkyrien, 1966-1967
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69	Special Developments (cont.) 1950 January-June, 1951 July-December, 1951
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69	January-June, 1952 July-December, 1952 1953 1954 1961-1968
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70	1966 1967 1968-1969 1970-1971 1972 1973 1975-1977

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73 Symposiums
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74 July 3, 1957-1960

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Francois Ortolli, Minister of Industrial Development and Scientific
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- 74 Visitors (cont.)
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- 75 Waves and Currents [Division], S.I.O.
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- 88L [U.S.] Works Progress Administration
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- 75 1936-1941

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- Barbados Oceanographic and Meteorological Experiment, 1968-1969
- Bathyscaphe, Trieste
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- 87L 1958-1962
- 75 Bathythermograph, 1941
- Carnegie [Research Vessel of the Carnegie Institution of Washington], 1928
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75	Galathea 1949-1951 1952, 1954 Inter-American Tropical Tuna commission, 1954, 1957 International Geophysical Year 1955-1956 1957 1958 1959-1964 Statements to Senate and House of Representatives Appropriations Committees n.d. 1956-1957 S.I.O Programs, 1956-1958
76	Texas A&M Research Foundation Proposals, August 26, 1957 United States National Committee 1953, 1955 1956 1957
87L	July 10, 1957, January-February 5, 1958
76	February 14-April 1958 May-July, 1958 August-December, 1958 1959, 1960

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78	Program Part II
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78	1960-1961
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78	1962-February 1964
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- 79 [First] International Oceanographic Congress, 1959
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80	1965
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81	July 1953-1956 1957-March 1961 April 1961-1962
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82	January-May, 1962 June-December, 1962 January-March, 1963 April-August 1, 1963 August 8-December, 1963
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