

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Schaefer, Milner Baily 1912-1970

Milner Baily Schaefer Papers, 1929 - 1973

Physical Description: 5 record center cartons

Arrangement of Collection: Arranged in 5 series: Research notes; Lectures, papers and speeches; Conferences, symposia, committees and professional organizations; Papers as science advisor to the Secretary of the Department of the Interior; Other papers.

Description: Includes research notes, computations, drafts of scientific papers, lecture notes and correspondence documenting Schaefer's work as Science Advisor to the Secretary of the U.S. Department of the Interior, 1967-1969, and his work as Director of Investigations for the Inter-American Tropical Tuna Commission. Includes teaching material for courses in oceanography taught at Scripps Institution of Oceanography, including lectures on population dynamics. MC2

Provenance and Arrangement: When Milner Baily Schaefer became Director of the University of California Institute of Marine Resources, he transferred his personal papers from the Point Loma office of the Inter-American Tropical Tuna Commission to IMR headquarters at the Scripps Institution of Oceanography. Schaefer maintained the Papers personally. Many original folder headings were in his hand. Apparently, the Papers were loosely classed by subject. Two subject dividers were found among the papers. One was headed "Spawning," the other "Models."

In 1967, as Schaefer prepared to move to Washington to undertake his new assignment as Science Advisor, he directed his secretary to prepare folder lists of his records as Director of the IMR. The lists were annotated by Schaefer to indicate which folders were to be discarded. It is not known whether Schaefer weeded his personal papers at the same time. The distinction between Schaefer's records as IMR Director and his personal papers is often vague. While he filed his research notes among his personal papers, both collections include material documenting his committee work for such professional organizations as the National Academy of Sciences and the Latin American Science Board. Several folders among the Schaefer Papers originally had color coded labels. This suggests that they may once have been included among the records of the Office of the Director, IMR. Since Schaefer himself considered the folders in this collection his personal papers and the other his papers as IMR Director, folders have not been shifted between the collections.

After Schaefer's death in July, 1970, Center for Marine Affairs Director Warren Wooster and a member of his staff, Judith Kildow, examined Schaefer's library and his papers. Material considered pertinent to CMA was moved to the CMA files. The remaining Schaefer Papers were given to Drucilla Binney, Secretary to John Isaacs who succeeded Schaefer as IMR Director. Binney found the papers in poor condition and in no discernible order. She placed them in filing cabinets in a Ritter Hall storage area. When the Center for Marine Affairs was closed, Binney added their files to the same filing cabinet. The Schaefer Papers were boxed and transferred to the Archives after fumigation on October 31, 1981. At the time of transfer, they consisted of six record center cartons. Mrs. Milner Baily Schaefer formally gave the collection and literary property rights to the UC Regents on February 4, 1982. During processing, the Archivist discovered that the material contained in Box 6 of the Schaefer Papers as transferred to the Archives actually contained archival files of the Center for Marine Affairs. This material was subsequently removed from the Schaefer Papers and added to other CMA records transferred to the Archives from Ritter Hall.

The Schaefer Papers originally included many reprints, published proceedings, magazines and other printed material filed under subject heading. Following archival policy, the Archivist prepared separation sheets for this printed material noting the author, title, and source of each reprint or article. When full bibliographical information was available for an item, the item was then separated and given to the Institute of Marine Resources. If full bibliographical information was not available on an item, the item remains in place in the collection. Original folders have been discarded, and replaced with acid-free folders. Original folder titles were transcribed. In many cases, the original folder headings were incomplete or abbreviated. Abbreviations were eliminated during title transcription, and phrases added to original folder headings by the Archivist have been bracketed. If the original folder heading was color coded, the color was written on the lower flap of the acid-free folder. The original arrangement of the papers had been lost together with the original file dividers labeled with subject headings. It was therefore necessary to impose an arrangement on the collection.

The Papers have been divided into five series: Research Notes; Lectures, Papers and Speeches; Conferences, Symposia, Committees and Professional Organizations; Papers of Milner Baily Schaefer as Science Advisor to the Secretary of the United States Department of the Interior; and Other Papers. Folders containing research notes have been arranged chronologically. Folders containing lectures, papers, and speeches have been arranged chronologically. Material concerning conferences, symposia, committees, and professional organizations has been arranged first alphabetically by the name of the conference or organization, then chronologically. Schaefer's folders generated during his years as Science Advisor have been arranged chronologically.

Scope and Content Note: The Milner Baily Schaefer Papers consist of material in subject folders. Although folder titles are original, the original order of the folders was lost. The folders have therefore been arranged into five artificial series (see Provenance and Arrangement, p. 11). The Schaefer Papers include research notes, computations, bibliographies, drafts of scientific papers, lecture notes, and correspondence documenting Schaefer's professional activities and career. Schaefer's records as Director, University of California Institute of Marine Resources are maintained separate from his personal papers as S.I.O. Archival Collection AC 3. There are, however, a few folders in the Schaefer Papers reflecting the interests and programs of the Institute of Marine Resources. For example, there are several folders of information on fish protein concentrate, a subject of interest to the IMR. The Schaefer Papers also include twenty-three folders of material which Schaefer generated as Science Advisor to the Secretary of the U.S. Department of the Interior, 1967-1969.

Approximately two linear feet of the Schaefer Papers consist of research notes. These include handwritten notes and computations, bibliographic references, and some correspondence dated 1929 to 1970. Research notes dated before 1963 largely concern Schaefer's work as Director of Investigations, Inter-American Tropical Tuna Commission.

The Inter-American Tropical Tuna Commission was established in May, 1949, through a Convention between the United States and Costa Rica. The Convention entered into force in 1950. The purpose of the IATTC is to study and gather information "to facilitate maintaining the populations of [tuna and tuna-bait fish in the Eastern Pacific] at a level which will permit maximum sustained catches year after year" and to act cooperatively with other nations to preserve valuable international relationships -- relationships jeopardized by a number of international disagreements about tuna fishing which occurred before the Commission was established.

While serving as Director of Investigations, Schaefer directed field research, collected statistics, participated in expeditions, and directed his scientific staff in investigations of fishing operations, the biology, ecology and population dynamics of tunas, tuna-bait species, tuna feeding, schooling and spawning habits. Schaefer accumulated statistics on tuna fleet operations, analyzed data on past fishing operations and on the oceanography of the Eastern Tropical Pacific. He also oversaw tagging operations and routine biological examinations of tuna landings. The IATTC conducted extensive research on yellowfin (*Neothunnus*) and skipjack (*Katsuwonus*) tuna. The Commission also initiated extensive studies of the anchoveta and other bait species for tuna fishermen in Latin American waters.

During the course of his work for the Commission, Schaefer concentrated upon the development of theory of fishery dynamics and applied theory to the tropical tuna fishery. Schaefer's research notes include information on tuna and population dynamics, models, systems analysis simulation, aquaculture, and sea temperature studies.

Schaefer's research notes dated after 1962 reflect his continuing interest in tuna fishery and population dynamics, but also include material documenting his work at the University of California and for the United Nations Food and Agriculture Organization. There are research notes on the Indian Ocean Productivity Comparison conducted by the FAO, seabed policies, jurisdiction and law of the sea, oceanography, fish protein concentrate, and nutrition and resource economics.

Schaefer used the research notes in the preparation of his scientific papers, lectures, and speeches. The Schaefer Papers include lecture notes prepared for Schaefer's courses in Population Dynamics, Dynamics of Exploited Fish Populations, and Interspecific Competition in Fish Populations offered at the Scripps Institution of

Oceanography. Drafts of speeches on law of the sea and the freedom of scientific investigation of the ocean are also found among the Papers.

Schaefer presented innumerable papers before professional organizations and attended many symposia and conferences. The Papers also reflect Schaefer's committee activities. They include material dated 1961-1970 on the Inter-American Tropical Tuna Commission, material dated 1969 to 1971 on the California Advisory Commission on Marine and Coastal Resources, and material dated 1964-66 on the United States National Commission on UNESCO. There are approximately sixteen folders documenting United Nations Special Fund Projects in Argentina, Brazil, Chile and Central America in the early 1960's. There are nineteen folders documenting studies of engraulid fishes, which included the Peruvian Anchovy ("anchoveta" in Spanish), and the anchoveta (*Cetengraulis mysticetus*). These are filed under the United Nations Food and Agriculture Organization. Actually, the study of the engraulid fishes was begun by the Inter-American Tropical Tuna Commission in 1951 and was continued largely under the auspices of the United Nations FAO from 1954 on.

The Schaefer Papers include six folders of material concerning the National Academy of Sciences/National Research Council Committee on Oceanography from 1957 to 1970. Schaefer was an active member of the Committee from 1957 to 1968. Unfortunately, he discarded most of his Committee files in 1967. It is also disappointing to find only one folder on the National Academy of Sciences Latin American Science Board among the Schaefer Papers. Three additional folders concerning the Board were destroyed in 1967.

There are many other disappointing gaps in the collection. The Papers do not include any information on Schaefer's activities as a member of the S.I.O. scientific party on Operation Wigwam. His career as a member of the U.S. Fish and Wildlife Service is virtually undocumented. The Schaefer Papers do not include material documenting his work as a representative of the National Academy of Sciences on the Advisory Board of the National Oceanographic Data Center from 1960-1963. The collection does not include material concerning Schaefer's family or personal life.

The Schaefer Papers include 24 folders of material related to his appointment and work as Science Advisor to the Secretary of United States Department of the Interior, Stewart Udall. This material includes three folders of correspondence, but consists mainly of memoranda, reports, and bibliographies. The material includes four folders concerning the supersonic transport controversy in 1968, four folders containing information on oceanography in Taiwan, and six folders concerning the Working Party of Tuna Stock Assessment. Schaefer was a member of the Working Party. This small amount of material clearly does not represent all of Schaefer's papers as Science Advisor to the Secretary. Additional material remains in the hands of the Interior Department in Washington.

Related Collections

Additional material concerning Milner Baily Schaefer can be found among the **Records of the University of California Institute of Marine Resources Office of the Director, 1951-1970**. Schaefer correspondence can also be found among the papers of Roger Randall Dougan Revelle and Carl Leavitt Hubbs at the SIO Archives. The SIO Biographical Files include a folder on Schaefer.

Schaefer corresponded frequently with Wilbert McLeod Chapman, whose papers are at the Archives of the University of Washington. *The Guide to the Wilbert McLeod Chapman Papers* (Seattle: University of Washington Libraries, 1977) includes several references to Schaefer.

The U.S. Department of the Interior retains Schaefer's official files as Science Advisor to Secretary Udall.

Milner Baily Schaefer Papers, 1929 - 1973
Scripps Institution of Oceanography Archives
Accession Number: 81-151

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**PAPERS OF MILNER BAILY SCHAEFER AS SCIENCE ADVISOR TO THE SECRETARY
OF THE UNITED STATES DEPARTMENT OF THE INTERIOR**

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