

Accession No.: 87-13

**PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES**

Phleger, Fred B. 1909-1993

Fred B. Phleger Papers, 1939-1986

PHYSICAL DESCRIPTION: 24 mss, 6 Lmss, film

ARRANGEMENT: Arranged into the following series: Baja Data Series, Correspondence, Contracts and Grants, Films, Graphs Photographic Negatives, Photographs, Slides, and Subject Series. Only one series, the Subject Series, was maintained in its original order.

DESCRIPTION: The Fred B. Phleger papers include correspondence, photographs, slides, films, field observations, data, manuscripts of books and papers, teaching materials, lecture notes, research proposals and subject files documenting the scientific career of Fred B Phleger. Most of this material is dated 1949 to 1986 and documents the period when Phleger was working at the Scripps Institution of Oceanography, but the collection includes correspondence and a few other files documenting Phleger's early career.

The collection is particularly strong in field observations, data and other records documenting foraminifera. Foraminifera and the ecology of coastal lagoons in Southern California and Baja California, Mexico and the Gulf of California are particularly well represented, but the collection also includes marsh data on foraminifera of the east coast, including the Mississippi delta.. These records include foraminifera data and environmental data such as weather, wind, salinity, tide records, records of sedimentation and wave refraction gathered at stations established along the coasts of California, the peninsula of Baja and the west coast of the Mexican mainland and in coastal lagoons such as Scammons Lagoon, Laguna Guerrero Negro, Santo Domingo Lagoon, Topolobampo Lagoon. There is also some work on coastal lagoons on the east coast of Mexico particularly Laguna de Terminos and Compeche. These records include mechanical analyses of sediment, cores, and carbon 14 analyses. The collection includes both raw data and data products such as graphs.

The collection is rich in pictorial documentation. The collection includes thousands of original negatives and prints of foraminifera carefully identified and dated. It also includes photographs taken as textbook illustrations, images of marine life including sea lions, images of lagoons and marshes, photographs and slides taken on expeditions, and a small number of lantern slides. Phleger often accompanied Gifford Ewing on flights in his private aircraft. The two routinely flew along the coast of Southern California, Baja California, Mexico and the Gulf of California during the period 1954-1961. The flights had several purposes. Ewing transported Phleger and other scientists to remote lagoons to study foraminifera and the marine environment. Along the way, they enjoyed a holiday in Mexico and they viewed and filmed coastal environments of Mexico. The Phleger Papers include 62 16mm color films taken during this period. While the

films document marine life and the coastal environment, they also include footage documenting villages, storm damage, marine birds. They include some film of street scenes, walks in the desert, beaches, and local events. While almost all of the film depicts Baja California and the west coast of Mexico, there are three films of the South Carolina coast.

The collection includes correspondence dated 1946-1986 arranged chronologically. Correspondence documents every aspect of Phleger's scientific work and includes letters exchanged with Hans Pettersson, Guillermo P. Salas and Grant Bartlett. The correspondence exchanged with Hans Pettersson include many letters dated 1947-1948 which document the Swedish Deep Sea Expedition. Guillermo P. Salas was a professor and Director of the Instituto de Geologica Ciudad Universitaria in Mexico City during this period.

The collection includes research files documenting Phleger's research. These include draft and final proposals, contracts, and correspondence with funding agencies including the American Petroleum Institute, the Office of Naval Research and the National Science Foundation. Phleger's subject files include files on professional associations such as the AAAS, files on conferences, files on students, files detailing field and laboratory procedures, files on field locations, maps and other documentation of foraminifera stations, drafts of scientific papers, lectures and talks, teaching notes and bibliographies, progress reports and other documentation of the Scripps Marine Foraminifera Laboratory, and files on specific projects and expeditions. For instance, the subject files include folders documenting a 1964-1966 project to investigate the ecology of Santa Lucia Lake in South Africa.

Phleger's subject files include four folders dated 1957-1961 entitled, "Mexican Diplomacy." These files document the development of Phleger's relationship with scientists and government officials in Mexico. At first Phleger developed these contacts through his own field research and at international scientific meetings in order to foster his work in Mexico. He began to help other Scripps scientists, at first informally, in contacting Mexican officials in order to get the permits necessary to do research in Mexico. While SIO scientists had conducted research in Mexican waters and territory since the founding of the institution, the Mexican government at that time required few permits and relationships between American and Mexican scientists were largely informal. Beginning in the 1930s permits were required for activities such as oceanographic expeditions and the taking of specimens of marine life, and gradually the Mexican government developed policies, procedures and forms to monitor work by foreign scientists in their territory and waters. In 1957 SIO director Roger Revelle asked Phleger to undertake a new role as the official representative of the institution to Mexico. These files are the first comprehensive files that document the relationship between the Scripps Institution of Oceanography and the scientists and government of Mexico and which document research by Scripps scientists in Mexican waters and territories. To a lesser extent, these files reflect the development of official Mexican policies and procedures monitoring oceanographic research in their region, and the involvement of Mexican and American diplomats in discussions of issues of international scientific research.

Series Description

Correspondence Series, 1957 -1986

The Correspondence Series is arranged in chronological order and contain correspondence by Fred B. Phleger, Hans Petterson, Shepard Lowman, Guillermo P. Salas, and Grant Bartlett. This series also includes correspondence from university staff members at UCSD, UCLA, University of Chicago, Amherst College, Yale, Princeton, Harvard, Universidad Nacional Autonoma de Mexico, University of West Australia and many others. The series includes correspondence from foundations such as the Museum of Comparative Geology, U.S. Geological survey, W.H.O.I., Navy department, U.C. Regents, Smithsonian Institution, Naturhistorisches Museum Basel, and many more. Correspondence from companies such as Richfield Oil Corporation, Shell Oil Company, Jarrel Ash Company, Humble Oil & Refining Company, Saratoga Laboratories Inc., Tetra Tech Inc., Mobil Exploration Inc., Department of Energy Mines & Resources are included within the series.

Contracts and Grants Series, 1947 -1971

The Contracts and Grants Series is arranged in chronological order and contain research proposals for the Office of Naval Research, Gulf Research & Development Company, National Science Foundation, Geological Society of America, National Bulk Carriers, American Petroleum Institute, and the California Research Corporation. The files contain brief descriptions of proposals, budget charts and correspondence from companies or foundations. The series also includes correspondence regarding contract renewals with the Office of Naval Research.

Subject Series, 1948 -1978

The Subject Series contains material is arranged in chronological order. Included in this series are folders on the Benthonics Symposium, the Gulf of California, Matzatlan, and the Britol England Symposium. These files included a list of attendees and material on the corresponding symposium. Bibliographies on lagoons, estuaries, and on Phleger are also included in this series. This series contains data from chemical core samples, Copper River Delta, Bradwell Marsh, Gulf Coast Marsh, Jekyll Island, Little Bay, Mission Bay, Nova Scotia, Argentina, Sand Diego Uchio, and Santo Domingo Lagoon. Included in the series are data on station counts, foraminifera, and plankton.

The Subject Series contains foraminifera specimen cards, notes from Abraham Golik, Joseph W. Cobarrubio, Jekyll Island and Pomare Bay. Included are abstracts written by Phleger on coastal lagoons and characteristics of foraminifera population. The series includes a brief description, map and details of the Santa Lucia and Richard's Bay project. Lectures and talks given in Moscow, Bozeman, Montana, the University of Tulsa, and Bakersfield are included in this series. The series includes research proposals for studies of Mexican lagoons and correspondence on research between the National University of Mexico and Scripps Institution of Oceanography.

Baja Data Series, n.d., 1953 -1970

The Baja Data Series is arranged in chronological order starting with the non-dated material. The files within the non-dated material are arranged in alphabetical order. This series contains information taken from Baja California regions such as Laguna Guerrero Negro, Lagoon Terminos, Santo Domingo Lagoon, Caimarero Lagoons, Vizcaino Bay, and Topolobampo Bay. Files contain temperature, salinity & turbidity readings, sediment analysis, weather information, tide records and Carbon 14 dates of specimens collected from corresponding regions. Each file contains either a chart giving the information collected or a brief description of the findings.

Graphs Series, n.d., 1954 -1963

The non-dated material in this series is arranged in alphabetical order and the dated material is in chronological order. The items consist of graphs on the Pacific Ocean, Florida Marsh, Salvestion Bay Marsh, Mississippi Delta, Scammon and Topolo Lagoons, Mexico, and Mission Bay. The graphs were collected by Phleger, Moriarty Hormen, Walton, Bradshaw and the Scripps Institution of Oceanography

Photographs Series, n.d., 1939 -1959

The non-dated photographs are arranged in alphabetical order and the dated photographs are arranged in chronological order. Included are photographs of foraminifera, Guerrero Negro Marsh bugs, Gulf of California, Frazer River and Coos Bay.

Negatives Series, n.d., 1947 -1964

The Negatives Series contains material from n.d., 1947 -1964. The items are divided into 35 mm. photographic negatives and 2.5x4 in., 4x5 in., and 2.5x2.5 in. photographic negatives. The negatives in both categories are arranged in chronological order. This series contains negatives of figures, plates, tables, and charts on lagoons, oceans, foraminifera, marshes, ports, several bays, Gulf of California, Gulf of Mexico, Laguna Alvarado, Laguna De Terminos, Laguna Yavaros, the Mississippi Delta and Sedentary, and the North Atlantic. Also included are negatives of sea lions, the Mohole Project, Guerrero Negro marsh, Scammon Lagoon, and foraminifera.

Slides Series, n.d., 1956 -1966

The Slides Series is divided into lantern slides and 35 mm. photographic slides and are arranged in chronological order. This series contain slides from Laguna Alvarado, Lagoon Terminos, Pacific Coast Marshes, Mexico Lagoon Terminos, Northwest Mexico lagoon, Coastal lagoons, Guerrero Negro, Mexico shores, Santo Domingo, Manzanillo, Laguna Las Tres Pulas, Acapulco, and Topolobampo.

Films Series, n.d., 1950 -1964

The non-dated material is arranged in alphabetical order and the dated material is in chronological order. The series contains 16mm. color and black & white film of Manzanillo, Baja Loreta, Tehuantepec, Mexatitlan, Lagoon Santo Domingo, Louisiana Bay, Mazatlan, Puerto Vallarta, Guerrero Negro, Hermosillo, Gulf of Mexico, Scammons Lagoon, Black War Lagoon, and West Coast Lagoons. The films include aerial views and land views.

Provenance: The Phleger Papers were received in several accessions. Dr. Phleger visited SIO Archives on January 21, 1987, asking that 22 of his films be added to the SIO Archives. These films were accessioned as 87-10. Deborah Day visited Phleger at his office, 3219 Ritter Hall and packed up his remaining papers and films for transfer to the archives on March 5, 1987. This material which measured four record center cartons and a number of films was received in the archives as accession 87-13. Phleger signed a deed of gift on April 26, 1987 transferring this property and copyright in and to his papers to the SIO Archives. On February 17, 1989, Dr. Phleger's son gave several folders of correspondence to library staffperson Phyllis Lett for the archives. On March 14, 1989, Phleger left a photograph album to be added to his father's papers. These items were accessioned into the SIO Archives as accession 89-3. On August 13, 1996, archivist Deborah Day packed five record center cartons comprising the Phleger remaining in the Marine Foraminifera Laboratory (Ritter Hall 3219) with the help of Susan Burke and transferred these to the SIO Archives as accession 96-13.

Fred B. Phleger

Papers, 1939-1986

Accession Number 87-13

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FOLDER TITLE
CORRESPONDENCE SERIES

Correspondence, n.d.

Correspondence, Hans Pettersson, n.d.

1946

Correspondence, Hans Pettersson, 1946 – 1947

1947

January - October, 1948

November - December, 1948

Correspondence, Hans Pettersson, 1948

January - March 1949

April 1949

May 1949

June - July, 1949

August 1949

September - December, 1949

Correspondence, Hans Pettersson, 1949

January - September, 1950

October - December, 1950

January - March, 1951

April 1951

May 1951

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1

June - August, 1951

September - October, 1951

November - December, 1951

January - May, 1952

June - December, 1952

January - May, 1953

June - December, 1953

2

Book Correspondence [re Phleger, Ecology and Distribution of Recent Foraminifera, 1960], 1953, 1955-1957, 1958-1963

January - March, 1954

April - May, 1954

June - July, 1954

August - December, 1954

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1957

1958

Book Correspondence [re Phleger, Ecology and Distribution of Recent Foraminifera, 1960], 1958 – 1963

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1960

Universidad Nacional Autonoma de Mexico Correspondence, 1961

1961

Correspondence, Guillermo P. Salas, 1961 – 1962

BOX**FOLDER TITLE****CORRESPONDENCE SERIES continued**

2

January - April, 1962

May - December, 1962

Correspondence, Guillermo P. Salas, 1963

1963

January - July, 1964

August - December, 1964

January - March, 1965

April - December, 1965

1966

Correspondence, Grant Bartlett, 1967 – 1968

1968

3

1971 - 1979

1980 – 1986

[1983 - 1986]

CONTRACTS AND GRANTS SERIES

ONR [Foraminifera Study], 1947 – 1948

ONR [Foraminifera Study], 1949

ONR [Foraminifera Study], 1950

ONR Contract SIO, 1950

ONR Contract SIO, 1951

ONR Contract SIO, 1952 – 1953

Sediment Distribution, Tampa Bay, Gulf Research and Development
Company, March 6, 1953

Offshore Forams, A-A', Pascagoula, March 22, 1953

BOX**FOLDER TITLE****CONTRACTS AND GRANTS SERIES continued**

3

GSA [Geological Society of America], Grant 709-56, 1956 – 1957

GSA [Geological Society of America, Financial Records], Grant 709-56, 1956 - 1957

Research Proposal, NSF, 1957 – 1960

Research Proposal ONR, 1958

Research Proposal ONR, 1959 – 1960

Arctic Research Proposal, ONR, 1959 – 1961

API Proposal, 1960

N.B.C. [National Bulk Carriers], 1960

N.B.C., Work on Channel to Laguna Guerrero Negro, 1960 – 1961

N.B.C., Work on Channel to Laguna Guerrero Negro, 1960 – 1961

Universidad Mexico NSF [Proposal, "Oceanography and Sedimentology of Coastal Lagoons on the East Coast of Mexico,"] 1960 – 1962

API Proposal, 1961 – 1962

4

N.B.C., 1961

California Research Corporation Grant, 1962

N.B.C. [National Bulk Carriers], Work on Channel to Laguna Guerrero Negro, 1962

Research Proposal, NSF, 1962 – 1963

Petroleum Research Fund, ["Ecology of Marsh Foraminifera,"] 1962 – 1971

Mexico, NSF Proposal ["Advanced, Detailed and Specific Oceanographic And Sedimentologic Studies in the Laguna de Terminos, Campeche and Other Coastal Lagoons of East Coast of Mexico,"], 1963

N.B.C. [National Bulk Carriers], 1963

BOX**FOLDER TITLE****CONTRACTS AND GRANTS SERIES continued**

4

ONR Reports, 1963 – 1965

N.B.C., January - March, 1964

N.B.C., April - December, 1964

Research Proposal, NSF [National Science Foundation], 1965 – 1966

National Science Foundation, ";Planktonic Foraminifera, Marine Processes, and Marine History,"] 1967 – 1971

Petroleum Research Fund, American Chemical Society, 1971

SUBJECT SERIES

[No Title, n.d.]

AAAS, Conacyt Mexico, n.d.

Adegoke - Nigeria, [1975 - 1977]

American Cyanamid Company, [June 21, 1961 - June 27, 1961]

Arctic - USCG, [n.d. - December 19, 1949]

[Artifacts, n.d.]

Bailer Drilling Rig, [n.d.]

5

Bakersfield Lecture, March 6, 1961

Benthonic 1975 Lecture, n.d.

"Benthonics 1975", [1975 - 1976]

Benthonics, 1977 - 1979, [1976 - 1977]

Bibliography

Lagoon, [n.d.]

Lagoons and Estuaries, n.d.

Phleger, Fred B. [n.d. - June 30, 1967]

Bozeman, Mont. Talk, May 1968

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FOLDER TITLE**SUBJECT SERIES continued**

Bristol England Symposium [On Marine Geology and Geophysics],
1964 – 1965

Budgets, 1963 – 1964

Calgary Ph.D. Thesis, [Maureen T. Gallagher], 1978

Certificates and Awards, 1951 - 1973

Chemistry PAS Correspondence, 1953

5007F, 5011F, 5009F

5008F, 5014F

5012F, 5010F

Coast and Geodetic Survey, 1960

Coastal Lagoons for Mazatlan, 1974

Collecting Instructions, n.d.

Conference, Tohoku University, 1962

Conversion PHI Diameters- M.M. [n.d.]

"F-"C- Conversion, [n.d.]

Current Meter Calibration, [n.d.]

DATA

Copper River Delta, Alaska, [n.d.]

English Coast- Bradwell Marsh, [n.d.]

Gulf Coast Marsh Forams – 1963

Jekyll Island, [n.d.]

Little Bay- Rockport Area – 1963

Mission Bay Foraminifera – 1954

Monsoon Expedition - 1960

BOX**FOLDER TITLE****SUBJECT SERIES - DATA continued**

6

Mud Lake, LA – 1963

North West Gulf of Mexico, GSA - Memoir 46, [n.d.]

Nova Scotia, 1967 - 1968

Phillips Arm - British Columbia Marsh, [July 1963]

Plankton, 1964 - 1972

Pollensa - Mallorca Marsh, 1965

Port Bay, Copano Bay- Texas Marsh, 1963

Rio Ojo, Argentina, 1968

San Diego- Uchio, [n.d.]

San Quentin Bay, 1963

Santo Domingo Lagoon, [n.d.]

Scammons Brine Paus- June 17, 1965

Station Counts, [n.d.]

Dune Migration, 1965 - 1966

Fathoms to Meters, [n.d.]

Foram Bok- Barlett, 1976 [1976 - 1977]

[n.d.]

[n.d.]

Foraminifera Specimen Cards

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[n.d.]

[n.d.]

Foram Research - General, [1954 - 1966]

Forams Tampa Bay - Walton, GRDC, [n.d.]

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FOLDER TITLE**SUBJECT SERIES continued**

General Features Lagoons, [n.d.]

General Features of Coastal Lagoons, Mexico - November 1976

["Geology Club Talk," n.d.]

Gulf Coast Marsh Sampling, 1963

Hawaii Samples - FPS, [n.d.]

[Holocene Ecology in Santa Lucia Lagoon, Zululand Based on Foraminifera, December 4, 1975]

Horikoshi, Masuoki: Distribution of Benthic Organism and Their Remains at the Entrance of Tokyo Bay in Reaction to Submarine Topography, Sediments and Hydrography, [n.d.]

International Oceanographic Congress, Paper Given, 1959

Introduction to Gulf of California Symposium, c1980

Introduction to Mazatlan Symposium, Preliminary copy, 1979

Lagoon Talk, Mexico, November 1967

Lagoons - Gulf of California Paper, 1980

Land and Water Reserves Committee, [October 21, 1968 - November 4, 1968]

Lecture Notes, Scripps Institution of Oceanography 249, Fall 1970:
Sediment - Organism Interaction

[List of Illustrations, n.d.]

Louisiana State University Meeting, 1960

Marine Foraminifera Laboratory Progress Reports, 1950-1951, 1959,
1965

Marine Seal Library Gifts From Phleger, [1964- 1969]

Mexican Diplomacy, 1957 - July 1958

August - December, 1958

BOX**FOLDER TITLE****SUBJECT SERIES – Mexican Diplomacy continued**

8

1959

1960 – 1961

Mexico City Symposium [Simposio Sobre Estudios de Geologica Marina Y Oceanografia en Mexico, En colaboracion con La "Scripps Institution of Oceanography," Noviembre 27-29 de 1962]

Mexico - [Permission] Permit, n.d.

Mission Bay Marsh - Duplicate Illustrations, n.d.

MFL - Long Range Projects , January 1960

National Science Foundation, 1969 - 1972

9

Near Islands - Foraminifera, [n.d.]

North West Gulf of Mexico - GSA Memoir 46 - Station Location, [n.d.]

NOTES, n.d.

Golik, Abraham, [n.d.]

Joseph W. Cobarrubo, 1962

Jekyll Island, April 3, 1964

1964 – 1965

September 1965

October 29, 1967

Pomare Bay, 1968

1972

Oceanographic Field Tables, [n.d.]

ONR Geography Branch, 1961 – 1962

["Organization and Support of Marine Foraminifera Laboratory," n.d.]

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FOLDER TITLE**SUBJECT SERIES continued**

Permit - Import of Specimens into San Diego, [September 1976]

Persian Gulf, [n.d.]

PHLEGER, FRED, Foraminifera and Ecological Process in Santa Lucia Lagoon, Zululand, n.d.

"Some General Characteristics of Foraminiferal Populations", April 1, 1955

Bank [Undersea Feature Name Proposal], c1972

"The Study and Interpretation of coastal Lagoons", 1974

"The 1980 Joseph A. Cushman Award", 1980

Phosphate, Baja, California, n.d.

Photography - Forams Cobarrubias Technics, May 1964

Photos Sent to H.B. Stewart, [n.d.]

Predation, June 1975

Ranges of Some Foram Genera [n.d.]

Recursos Hydraulics, April - September 1971

References, n.d.

Research Papers, August 1965 - December 1967

A Review of Some General Features of Coastal Lagoons - UNESCO, 1978

Sabbatical, 1969

Santa Lucia, n.d.

Santa Lucia's Map, n.d.

Santa Lucia Project, Ghana Also, [1972 - 1975]

Santa Lucia's Results, n.d.

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FOLDER TITLE**SUBJECT SERIES continued**

S.A.M Trip, 1968

SCOR [Scientific Committee on Oceanographic Research] - Coastal Lagoon Mats. [January 1975 - March 1976]

Sebast, Nzcaino, [n.d.]

Sediment Grade Scale, n.d.

Sediment Parameters, n.d.

"Sedimentary Pats. Forams, Gulf of California" - Duplicate Illustration, n.d.

SEPM Talk, March 26-29, 1962- San Francisco

South Africa Project, [May 17, 1971 - August 1974]

South Africa, Santa Lucia - Richard's Bay, [n.d. - 1970]

[1972 - 1974]

Status of Foram Ecology and Problems for Research - Seminar 1963

Students, [January 1971 - December 1971]

Study Interpretation of Coastal Lagoons, n.d.

["Suggested Research in Foraminifera in pacific Boarder Region,"] n.d.

Talk, Moscow, 1966

Turbulent Zone Pictures, n.d.

University of Tulsa Lecture, 1963

Virus Reports, May 2, 1995

Yanez, Amando, "The Continental Shelf Off Carmen Island, Campeche, M.S. Thesis, Texas A&M, January 1968

BAJA DATA SERIES

11

Analysis of Composition of SC Sediments, n.d.

BT Cards, Scammon, n.d.

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C 14 Dates, n.d.

Foram Sheets, Scammon, n.d.

Laguna Terminos, Salinity, Temperature, Turbidity, n.d.

Mollusc Analyses of Beach Rocks, Cammon, by Parker, n.d.

Observations in Laguna Guerrero Negro, n.d.

Photographs of Sediments Along The Beach at Terminos Lagoon, n.d.

Sediment Parameters, n.d.

T & S Values, Nearshore Vizcaino Bay, 1953 – 1954

11 [Data, c1955]

Scammon Lagoon, Charts of Stations, [October 1955 - March 1956]

Salinity Determinations, Scammon Lagoon, 1955 - 1958

Wind Data, Guerrero Negro by Jean Josmer, 1956 - 1957

Weather Data, Guerrero Negro, 1956 - 1959

Tide Records, Santo Domingo Lagoon, 1957

JC Current Data, 1957 - 1962

Guerrero Negro Wind, 1957 - 1963

Wave Refractions, Topolobampo, 1960

Laguna Guerrero Negro, Current Data, 1960 - 1962

SC Cores, 1, 4, 5, 6 Logs of Spls., 1961

Guerrero Negro, Baja California Tidal Records, Summary of Dock & Inlet, 1961 - 1962

Report to Shanaman, [Guerrero Negro Ship channel], 1961 – 1962

Report, [Guerrero Negro Ship Channel], January 15, 1962

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	C 14 Dates Scammon Shell Oil Co., Bernard, 1962 - 1964
12	Sediment Parameters, Topolobampo, 1962, 1965
	Current Stations in Guerrero Negro taken by Joe Cobarubias, Report, January 15, 1963
	Weather Data Topolobampo, 1963
	Current Data, Topolobampo, October 1964
	"Estudios en las Barreras de Topolobampo, Sinaloa: Informe Sobre el Progreso Del Trabajo, Observaciones de Campo, 2-10 Noviembre de 1964"
	Laguna Terminos, 1964
	Laguna Terminos, 1964 - 1967
	Mechanical Analyses of Sediments at Topolobampo Lagoon, Pre-July 1965
	Live Foraminifera Populations, Topolobampo, July 1965
	Sediment Composition, Topolobampo, July 1965
	Data Topolobampo Marsh, 1965
	[Topolobampo Correspondence, 1965]
	Correspondence, Topolobampo, 1965 – 1966
	Field Notes, Topolobampo, May 1966
	Field Notes, Topolobampo, September 1966
	Field Notes, Topolobampo, November 1966
	Continental Shelf Project, 1966

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Northwest Lagoons, Climatic Data, Shafer Report, 1968

October 1969 meeting at UNAM Institute of Biology

Agiobampo & Yavaros Lagoons, Northwest Mexico, 1969

Foraminifera Stations, 1969

Huizache-Caimanero, 1969

North West Mexico Lagoons, Sample Locations, 1969

Sediment Analysis, Yavaros, Agiobamp Escuinapa, 1969

Yanez Core Information, Laguna Terminos, 1969

Yavaros Data SAO. & Weather, etc., 1969

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Foraminifera Counting Sheets, 1969 – 1970

Etchoropo Salinity Data, 1970

Northwest Mexico Maps, Yavaros & Huizache - Caimanero Lagoons,
1970**Graphs Series** – [No Titles, n.d.]

Bradshaw – [n.d.]

Mission Bay Jack, n.d.

Paper, (Phleger), n.d.

Depth Zonation in the Pacific, n.d.

3 Florida Marsh, [n.d.]

GRDC - Range Charts, n.d.

Gulf of California Book, n.d.

Hormen: Salvestion Bay Marsh, [n.d.]

Mississippi - Frankford: "Forams East Mississippi Delta", n.d.

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GRAPHS SERIES continued
Moriarty – [No Title, n.d.]

Scammon Lagoon, n.d.

Topolo Final, n.d.

Negro - Seasonal [Rapport] - Robert Lankford, [n.d.]

Parker - Medit Table and Figures, [n.d.]

Phleger - Blachman, n.d.

Gulf of Mexico and Pacific Coast Marsh Foram, n.d.

Lankford Paper, n.d.

Mission Bay - Second Set, n.d.

Ojo de Liebre Evaporites, n.d.

Salt Flat Ecology, n.d.

Topolo, n.d.

Turbulent, n.d.

Scripps Institution of Oceanography, [Bahamas], n.d.

Splitter - Fran, [n.d.]

Walton - [Figure and Table Negatives from Todos Santos Bay, n.d.]

Gulf of California Plates, n.d.

September Lecture of the Delta Area: Live-Dead Ratios, April 1954

H., Jean: Slides, September 1956

Phleger, AP15, October 13, 1956

Moriarty, Pacific Science Congress, 1961

Moriarty, Paper for "Marine Sealogy", 1963

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	Photographs – [No Title, n.d.]
	Photographs of Foraminifera, n.d.
	Guerrero Negro Marsh Bugs, n.d.
15	Gulf of California- v.s. 82, n.d.
	Gulf of California - v.s. 94 - v.s. 217, n.d.
	Keith MacDonald, in Frazer River and Coos Bay, n.d.
	Microscopic Slides, Growth of <i>Stabus Becarii</i> , n.d.
	Walton – Group B - Group N [n.d.]
	Walton - Group O - Group R [n.d.]
	Photos, n.d.
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17	NEGATIVES SERIES [35 mm. Photographic Negatives, n.d. - 1964] – [No Title, n.d] [35 mm. Photographic Negatives, n.d. - 1964] – [No Title, n.d] [35 mm. Photographic Negatives, n.d. - 1964] – [No Title, n.d] Frazer River Flora, n.d. Institution at San Quintin, n.d. Lagoon Negatives, n.d. Sea Lions, n.d. Foram Photos, May 1961 Foram Photos, September 1961 [No Title], October 1961 Foram Photos, October 1961 Gulf of California, May 1962 Mohole Project, May 1962 February 1963 - May 1963 Florida Bay & Mangrove, December 1963 Guerrero Negro, June 1964
18	SLIDES SERIES [35 mm. Photographic Slides] - [No Title, n.d.] [35 mm. Photographic Slides] - [No Title, n.d.] "Alvarado, Santa Lucia, South Africa", n.d. "Benthamis 75", n.d. "Distribution - Planktonic Forms", n.d.

BOX**FOLDER TITLE**
SLIDES SERIES continued

18

"Gemini Photos", n.d.

"Gulf of California Mexico Talk", n.d.

"Lagoon Terminas", n.d.

"Marsh", n.d.

"Marshes Pacific Coast", n.d.

"Mexico Lagoon Terminas", n.d.

"Mexico Mulage", n.d.

"Mexico Trip to Carmen", n.d.

"Northwest Mexico Lagoon", n.d.

"Scammon Special Set for Class", n.d.

"Talks Slides", n.d.

"Coastal Lagoons", [1956]

"Scammon Special Set for Class 2", [1956]

"Guerrero Negro", [1956 - 1958]

"Mexico Lagoons and Coasts", [1956 - 1958]

"Mexican Lagoons General Features of Lagoons" [1956 - 1959]

"Mexico Shores", [1956 - 1958]

19

"Santo Domingo, etc.", [1956 - 1958]

"Scammon", [1956 - 1958]

"Scammon Santo Domingo", [1956 - 1958]

"South of Mazatlan", [1956 - 1958]

"Diagrams of Gulf of Mexico Lagoons, etc.", [1958]

BOX

19

FOLDER TITLE**SLIDES SERIES continued**

"Manzanillo Cuyutlan", [1958]

"Mexico City Laguna Las Tres Pulas", [1958]

"Mexico - General Acapulco", [1958]

"Mexico Shoreline South of Mazatlan", [1958]

"Mexico Soaring on Mazatlan", [1958]

"Scammon Salt", [1958]

"Mexico Coast", [1958 - 1959]

"Topolobampo", 1965

"Rio Balsas 3. Huatenejo", 1966

20L

MISCELLANEOUS

Correspondence, 1949-1951

Correspondence, 1963-1965

Correspondence, 1968

Adegoke –Nigeria, [1975-1977]

Data Sabine Pass Area, 1963

S.A.M. Trip 1968

Selected Xerox Copies of: Report of the Commission of Enquiry into the alleged threat to animal and plant life in St. Lucia Lake, 1964-1966 – Secretary for water affairs (South Africa): Private Bag 313, Pretoria, South Africa, n.d.

South Africa, St Lucia --> Richards Bay, July 1948

[Yavaros Data, 1969-1970]

N.B.C. [National Bulk Carriers], Work on Channel & Laguna Guerrero Negro, 1960-1961

BOX

21L

FOLDER TITLE**FILMS**

Aerial Shots, Whales, Stacey, John Imbrie & Munoz - Lunch,
Scammon, n.d. [Baja Films]

Manzanillo Hurricane Damage, n.d. [Baja Films]

Miscellaneous Baja Loreta

Salas Torres at Hermosillo

Sealane, [Baja Films], n.d.

South and North of Mazatlan: Low Flying Orisk at Mazatlan

Acapulco, June 1950

Gulf of Mexico, [Corring], 1954

Gulf of Mexico, Dolphins, 1954

Gulf of Mexico, Good Fish Pictures, 1954

Gulf of Mexico, Van Veal and Carry, 1954

Baja, March 1956

Scammons Lagoon, July 18-20, 1956

Scammons Lagoon, July 20, 1956

Stewart Jewel Islands near Louisiana Bay December 6, 1956

Puerto Vallarta Lagoon, January 1957

Douglas Helicopter, March 22, 1957

South Carolina From Air, August 1957

Rachimeter Being Used at Plane, Fall 1957

Black War Lagoon Landing Salt Flats. [95], Pelican on Plane,
September 4, 1957

[No Title], September 6, 1957

BOX

22L

FOLDER TITLE**FILMS SERIES continued**

Landing Prob. Salt Flats.. September 6, 1957

Louisiana Bay to South Carolina and Head of South Carolina,
September 6, 1957

West Coast Lagoons, Miscellaneous Shots, October 28, 1957

Manzanillo Jungle Near Airport, 1958

Yellow Tide Streaks, 1958

(Cox, Eva), Landing on Santa Maria Bay, February 26, 1959

Guerrero Negro From the Air, Scammon Good Close Shots,
November 1959 [Baja Films]LA Bay, Midden and LA Bay from Midden [Baja Films], November
1959La Paz Airport Landing Station Maria Beach [Baja Films], November
1959Middens Santa Maria Bay La Paz Airport, Munoz Plane [Baja Films],
November 1959

Iguana - Taxco, Changing Tire at Salt Flats [Baja Films], 1960

Mexico City Pyramids, University [Baja Films], 1960

House in Poppies and at the Beach [Baja Films], Spring 1960

Rich and Dernie in Baja [Baja Films], Christmas 1960

LA Bay Turtles and Mulege [Baja Films], 1961

Mulege [Baja Films], February 1961

Scam Beach Plane, Wind Blown Sand on SC Dunes Invasion of Tides
[Baja Films], March 1961Beach House Cammon Beach, Japanese Ship in Guerrero Negro,
Shanamans Small Boat [Baja Films], April 1961

BOX	FOLDER TITLE
	FILMS SERIES continued
22L	Guerrero Negro Tug-Whales, Danguin Scammon Beach Camp [Baja Films], April 1961
	Danguin, Dredge, Japanese Ship, Guerrero Negro [Baja Films], May 1961
23L	Phleger/Ewing and Wives
	Fred Sampling, Louisiana Bay to South Carolina Thru Rubber boat
	Acapulco Lagoon Trip, Pierre Marquez
	Mexico, Jan. 1957, Ucatan-Guadalajara
	Marismas nacional to Mazatlan, South Mazatlan
	Coastal Lagoons, Pacific Coast Mexico Mazatlan, Puerto Vallarta
	Manzanillo Area, Cuyatlan
	Carmen 1959 with Joe Curray
24L	Oceanography from an Airplane
	Miscellaneous Scammon
	Palmilla, Hann Rach, Santa Maria
25L	University of Mexico, Taxco, Custer Hotel in Acapulco
	Tapachula, Tehuantepec, Merida
	Mexico West coast (Mexatitlan – Manzanillo to Oaxaco)
	NEGATIVES AND LANTERN SLIDES
26	35 mm. Photographic Negatives [n.d. – 1973]
27	Phleger Lantern Slides Box 1
28	Phleger Lantern Slides Box 2
29	Phleger Lantern Slides Box 3
30	Glass Photo Negatives