



Clyde Wahrhaftig Collection

GOGA 35329



Golden Gate National Recreation Area
ATTN: Park Archives and Records Center
Building 201, Fort Mason
San Francisco, CA 94123
[Mailing Address]

Park Archives and Records Center
Presidio of San Francisco
Building 667 McDowell Ave.
San Francisco, CA 94129
[Physical Address]

go.nps.gov/gogacollections

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Introduction

Golden Gate National Recreation Area

Park Description

Golden Gate National Recreation Area (GGNRA), a unit of the National Park Service, was established by an Act of Congress on October 27, 1972. The 80,000-acre park encompasses a great diversity of cultural and natural resources in and around the Bay Area of San Francisco, California. It includes Muir Woods National Monument and Fort Point National Historic Site.

The park holds almost five million three-dimensional and documentary artifacts dating from the time before European contact to the present. They are preserved and maintained for the public by the Division of Cultural Resources and Museum Management, which includes the Park Archives and Records Center (PARC).

Park Archives and Records Center (PARC)

Historical Note

GGNRA and the sites within it have been collecting records since their inception. The PARC was established in 1994 to receive records and archival collections from the U.S. Army and the Presidio Army Museum after the closure of the Presidio of San Francisco as an Army base. The collections continue to grow through the donation of materials by private individuals, transfer of inactive park records by staff, and acquisition of relevant documentary materials.

Scope of Collections

The archival collections in the custody of the GGNRA document the history and activity of the various sites and groups associated with the park, described in the park's Scope of Collection Statement (2009).

The PARC contains U.S. Army and National Park Service facility records for the Presidio of San Francisco, forts and coast defense sites in the area, and various GGNRA sites. Subjects and sites documented include the United States Army (Bear Flag Revolt, Civil War, Spanish-American War, Mexican War, World War I, Army Air Service, Coast Artillery, Army medical facilities and issues, World War II, Army support during natural disasters, Viet Nam War, and Operation Desert Storm); Alcatraz Island (Army fortress, Army Disciplinary Barracks, U.S. Penitentiary, and Indian Occupation); the natural resources conservation movement resulting in the establishment of Muir Woods National Monument; agriculture in the Marin Headlands; Point Reyes Peninsula and Bolinas Lagoon areas; U.S. Lifesaving/Coast Guard Services; San Francisco Earthquake and Fire of 1906; Panama Pacific International Exposition of 1915; natural resources and environmental issues; and preservation of open

space in the Bay Area. Also included in the PARC are many of the GGNRA administrative records that document the development and expansion of this park.

Visiting the PARC for Research

The PARC is located in an historic brick building, formerly a cavalry stable, on the Presidio of San Francisco. Collections and archives support services are available for walk-in research during open hours or by appointment. Please contact the PARC (see below) for the current schedule of reference hours.

Copy Services

Black and white photocopy services for standard and oversize materials are available on-site. Color photocopying, photographic duplication, and duplication of other media are available by special arrangement. Researchers are charged for all duplicates on a cost-recovery basis.

Rights and Publications

Copies are provided under the Fair Use provisions of the Copyright Law (Title 17, U.S.C.). Researchers must complete a Permission to Publish Contract form with the Park Archivist for any other intended use of these materials (such as publication or exhibit). Researchers should consult with staff regarding their needs for commercial or public use of materials.

Legal Status of Holdings

Many holdings of the PARC were acquired/transferred prior to the establishment of the archives program, and have little documentation on their provenance (source/chain of custody). All materials received after 1994 have been accessioned and documented. If provenance cannot be determined, the PARC assumes that it owns the property rights, but does not own the copyright. Staff will provide assistance, but it is the responsibility of the researcher to acquire permission from the copyright holder to cite, quote, or reproduce collection materials.

Collections developed by or for government organizations or operations are in the public domain and may be used, cited, and quoted without restriction, provided they are properly credited to the PARC. The archives contain no national security classified materials.

Donations to the Collections

The PARC welcomes donations of a variety of historic materials that meet the criteria in the Scope of Collections Statement and do not duplicate existing holdings. Collections are maintained for research use in perpetuity; there is no guarantee that items will be exhibited. If you own materials that may be relevant to the themes of GGNRA and would like to deposit them in the PARC, please consult with an archivist.

How to Use This Finding Aid

This document contains information on the contents and significance of an archival collection. It includes descriptive information; repository information; collection history; biographical or historical information on creators of the collection; and a container or folder list of everything in the collection. After reviewing the finding aid, please discuss your specific needs with the archivist who will locate and retrieve the relevant materials.

How to Use the Collections

Please follow all rules and regulations regarding research, the use of the research facility, and the handling of collection materials. This will protect the collections so they continue to be available and usable for generations to come. If anything appears to be out of order or damaged, please notify a staff member.

Contacts

For additional information on the use of archival collections at GGNRA, please contact the Park Archives and Records Center:

Mailing Address:

National Park Service
Golden Gate National Recreation Area
Attn: Park Archives and Records Center
Fort Mason, Bldg. 201
San Francisco, CA 94123

Physical Address:

Park Archives and Records Center
Presidio of San Francisco
Building 667 McDowell Avenue
San Francisco, CA 94129
Phone: (415) 561-2807
Fax: (415) 441-1618

Clyde Wahrhaftig Collection

Title

Clyde Wahrhaftig Collection
Alternate Title: Wahrhaftig Collection

Dates

Inclusive: 1954-1993

Collection Number

Catalog Number GOGA 35329 (Accession Number GOGA-3418)

Provenance

The collection was gathered at the home of Clyde Wahrhaftig after his death at his home in San Francisco in 1994 at the request of his sister.

Volume

60.6 LF

Description

The Clyde Wahrhaftig Collection is organized by three media types. The first is manuscripts & papers, second is photographs, and third is maps. Each type is further developed into series.

Included in the manuscripts and papers portion of this collection are papers he wrote, documents from his teaching, manuscripts and notes from *A Streetcar to Subduction and other Plate Tectonic Trips by Public Transport in San Francisco* (a book he wrote in 1979 and revised in 1984 about visiting geological sites in San Francisco using only public transportation), documents from professional organizations and clubs he was a member of, miscellaneous papers & documents, and books from his own personal collection. The manuscript materials can be found in series 1 – 7.

The photograph section of the Clyde Wahrhaftig collection consists of slides, photographs, and orthophotographs (an aerial photograph with distortions due to tilt, curvature, and ground relief removed that has the accuracy of a map and the clarity of a photograph) primarily of the San Francisco Bay Area. Photographic materials can be found in series 8 – 11.

The last portion of the Clyde Wahrhaftig collection consists of his maps. There are several different types of maps including geographic maps, topographic maps, quadrangle

maps, and street maps. Most of the maps are from California, but there are some from other states and other countries. Maps can be found in series 12 – 19.

History

Clyde Wahrhaftig was born in Fresno, California on December 1, 1919, and raised there, a member of a pioneer California family whose early members planted orchards in the Sacramento Valley. He earned a bachelor's degree in geology at Caltech in 1941, and a Ph.D. in geology at Harvard in 1953. He taught at Berkeley for 22 years, from 1960 to 1982 but the central institution of his professional life was with the Geological Survey (USGS) from 1941 till his death in 1994.

He spent most of his summers in the mountains—mainly in Alaska with the Geological Survey or in the Sierra Nevada. In the mid- 1980s heart problems slowed him down. When he was no longer able to work in the higher mountain ranges, he switched his attention to the lower coast ranges of California. He then became familiar with the hills and cliffs and rock outcrops from the Peninsula to the Marin Headlands. Wahrhaftig disliked automobiles and airplanes and used public transportation as much as possible. Traveling to his Geological Surveys in Alaska, he transported by sea while his colleagues took planes. He used horse-pack trains to support his field work in Alaska and Sierra Nevada.

Among his academic achievements and geological accomplishments, he also held many leadership roles and responsibilities with different associations and within the university system. He was on PhD. oral committees, Leader of applying geological science to environmental problems with the State Forest Practices Act, Chair member of the Geological Society of America (GSA), appointed to the California Board of Forestry, and Chair and Director of the Environmental Sciences major at UC Berkeley. He was an active member of the Technical Advisory Committee on Bolinas Lagoon, the Marin County Recreation Department, Mayor's Twin Peaks Committee, and on study committees for the Golden Gate National Recreation Area and the Bay Area Ridge Trail. Clyde also contributed to his local community holding summer camps, extra-curricular education programs and led groups of minority youth on geological field trips around the city of San Francisco using public transportation. One of his many field trip guides was published into a book by the American Geophysical Union, titled "A Streetcar to Subduction"; a guide to outcrops in the San Francisco Area using public transportation. Other field guides that were published include "A Walker's Guide to the Geology of San Francisco" and "The Hayward Fault in Hayward and Fremont, via BART".

Clyde Wahrhaftig worked diligently until his death on April 6, 1994. He died of heart failure at the age of 74 in San Francisco.

- Biographical information was used from <http://eps.berkeley.edu/alumni/wahrhaftig.php>

Preferred Citation

“Golden Gate NRA, Park Archives, Clyde Wahrhaftig Collection, GOGA 35329”

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Processing Information

Processed by Aja Sorensen
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Re-Cataloged by Terryn Liljedahl
Completed in October 2012

Collection and Series Description

Manuscripts & Papers

Series 1: Clyde Wahrhaftig

Volume: 4.7 LF [8 document boxes and 7 folders]

Formats: Black-and-White Photographs

Correspondence

Field Notes

Lecture Notes

Meeting Minutes

Professional Papers

Topographic Maps

Description: Documents that Clyde Wahrhaftig created. It includes his papers, correspondences, teaching documents, documents from field trips, and miscellaneous documents. Most of the documents are from his teaching career at the University of California, Berkeley, from the 1960s to the 1980s.

Sub-Series 1: Papers

Volume: 0.5 LF

Arrangement: Alphabetically by name

Formats: Professional Papers

Description: Papers that Clyde Wahrhaftig wrote covering a range of topics. Also included in this sub-series are speeches and statements made by Wahrhaftig.

Sub-Series 2: Correspondences

Volume: 0.5 LF

Arrangement: Chronologically

Formats: Correspondence

Description: Wahrhaftig's professional correspondences from 1959-1990. Letters and memos are addressed to and from him and cover a wide range of topics. Also included in this sub-series is a set of letters from a second grade class at Buena Vista Alternative Education School thanking Wahrhaftig for taking them on a field trip.

Sub-Series 3: Courses

Volume: 2 LF
Arrangement: Subject
Formats: Correspondence
Lecture Notes
Meeting Minutes
Professional Papers
Description: Documents from when Wahrhaftig was a professor at the University of California, Berkeley. This series contains lecture notes, handouts from his courses at UC Berkeley, documents from other courses he taught, lectures he gave, PhD dissertations for which he was an advisor, and other student papers and master's degree theses. Also in this series are correspondences and faculty meeting minutes from the Department of Geology, University of California, Berkeley, from the 1970s and 1980s.

Sub-Series 4: Field Trips

Volume: 1.5 LF
Arrangement: Subject
Formats: Black-and-White Photographs
Field Notes
Topographic Maps
Description: Field trips that Wahrhaftig led as a professor or as a professional geologist. This series includes field trips that he took with his classes and professional organizations. Also included in this series are notes from field trips to different areas containing maps and photographs from the INQUA [International Union for Quaternary Research/ International Association for Quaternary Research] trip in Clear Lake, Denver, Colorado, in 1961-1963.

Sub-Series 5: Miscellaneous Documents

Volume: 0.7 LF
Arrangement: Format
Formats: Color Photographs
Figures (Illustrations)
Maps
Notes

Professional Papers

Description: Documents that are directly from Wahrhaftig or written by him but did not fall into any of the above categories. Included in this sub-series are typed and handwritten notes by Wahrhaftig not associated with any other documents. Also included are miscellaneous photographs, maps, and figures that were found among the other documents in this series but are unrelated.

Sub-Series 6: Books

Volume: 1 LF [10 Boks]

Arrangement: Chronologically

Formats: hard and paper bound books

Description: The books in this sub-series are ones that Clyde Wahrhaftig used in his early years as a student or the subject of the books are related to the topic he studied throughout his life i.e., geology, math, science, etc. The books are located in the rare book cabinets.

Series 2: *Streetcar to Subduction*

Volume: 2.9 LF [4document boxes and 9 folders]

Formats: Clippings
Color Photographs
Correspondence
Figures (Illustrations)
Field Notes
Manuscripts
Notes
Professional Papers

Description: Documents related to the researching, writing, and publishing of Clyde Wahrhaftig's book *A Streetcar to Subduction and other Plate Tectonic Trips by Public Transport in San Francisco* in 1979 and the revised edition in 1984. This series contains manuscripts and figures in final and draft form as well as notes from the field trips he took while researching the book.

Sub-Series 1: Manuscripts

Volume: 0.59 LF

Arrangement: Chronologically

Formats: Manuscripts
Description: Manuscripts that Wahrhaftig wrote and worked on while finishing *A Streetcar to Subduction and other Plate Tectonic Trips by Public Transport in San Francisco*. There are a number of copies of manuscripts that are undated and unlabeled. This sub-series is organized by edition when that is known. Undated manuscripts are grouped together at the end.

Sub-Series 2: Figures

Volume: 0.5 LF
Arrangement: Chronologically
Formats: Figures (Illustrations)
Description: Figures and maps that are found in the book *A Streetcar to Subduction and other Plate Tectonic Trips by Public Transport in San Francisco*. There are copies of the figures, the line drawings, and the original photographs from which the figures were made. Most of the figures are unlabeled and undated so it is not possible to determine which version they are from.

Sub-Series 3: Trips

Volume: 0.5 LF
Arrangement: Geographically
Formats: Color Photographs
Field Notes
Description: Field notes and photographs taken during the field trips that Wahrhaftig took while researching the book. Also included in this sub-series are materials from the Sedentary Survey to accompany its field notes.

Sub-Series 4: Miscellaneous Documents

Volume: 3 folders
Arrangement: Format
Formats: Correspondence
Notes
Description: Documents related to *A Streetcar to Subduction and other Plate Tectonic Trips by Public Transport in San Francisco* that did not fit in the other sub-series. This sub-series contains correspondences and handwritten notes by Wahrhaftig regarding the book.

Sub-Series 5: Research Copies

Volume: 0.5 LF
Arrangement: Format
Formats: Clippings
Figures (Illustrations)
Manuscripts
Professional Papers
Description: This sub-series contains copies of research materials used during Wahrhaftig's research for the book. This includes figures, maps, manuscripts, newspaper clippings, reference copies, and papers not written by Wahrhaftig.

Series 3: Professional Organizations

Volume: 6 LF [12 document boxes]
Format: Brochures
Correspondences
Forms (Documents)
Maps
Manuscripts
Meeting Minutes
Newsletters
Press Releases
Professional Papers
Speeches
Description: Professional organizations and committees that Wahrhaftig belonged to as a professional geologist. This series also includes other organizations that he belonged to as a consultant or an interested citizen. The documents in this series are mostly meeting minutes and correspondences with some papers and reports relevant to each organization. The organizations represented here are the Bay Area Ridge Trail, American Geophysical Union, Assembly Committee on Natural Resources and Conservation, Bolinas Lagoon Technical Advisory Committee, California Coastal Zone Conservation Committee, Geological Society of America, Humboldt Bay, Land Use Institute, The Mayor's Twin Peaks Committee, Outer Continental Shelf (OCS) Review Committee, State Board of Forestry, Soil Erosion Study Advisory Committee, United States Environment and Resources Council, and San Francisco Hiking Club, and Government Agencies.

Sub-Series 1: Bay Area Ridge Trail

Volume: 0.5 LF

Arrangement: Format

Format: Brochures
Correspondences
Maps
Meeting Minutes
Newsletters
Professional Papers

Description: Documents relating to the Bay Area Ridge Trail. There are meeting minutes, correspondences, maps, reports, and other information. The Bay Area Ridge Trail council is a non-profit group that plans and oversees the care of the Bay Area Ridge Trail – a trail around the San Francisco Bay Area for hiking, biking, and other similar activities. As of 2005, it was 300 miles long and will eventually be 500 miles long.

Sub-Series 2: American Geophysical Union

Volume: 3 folders

Format: Correspondence
Professional Papers

Description: American Geophysical Union regarding its Increased Minority Participation in the Earth Sciences Program. There are correspondences and papers from the late 1970s regarding this program. The American Geophysical Union is a non-profit scientific organization with over 40,000 scientists in over 100 countries as members.

Sub-Series 3: Assembly Committee on Natural Resources and Conservation

Volume: 4 folders

Arrangement: Format

Format: Correspondences
Press Releases
Speeches

Description: Correspondences, statements, and press releases from the Assembly Committee on Natural Resources and Conservation from the 1970s. The Assembly Committee on Natural Resources and Conservation was a part of the California Legislature.

Sub-Series 4: Bolinas Lagoon Technical Advisory Committee

Volume: 5 folders
Arrangement: Format and Chronologically
Format: Correspondences
Meeting Minutes
Description: Correspondences and meeting minutes from the Bolinas Lagoon Technical Advisory Committee from the 1970s. The Bolinas Lagoon Technical Advisory Committee advises the Marin Open Space District on how to preserve and manage the Bolinas Lagoon Open Space Preserve.

Sub-Series 5: California Coastal Zone Conservation Committee

Volume: approximately 1 LF
Arrangement: Subject and Format
Format: Manuscripts
Newsletters
Professional Papers
Description: Plan elements, drafts of papers, and other documents from the California Coastal Zone Conservation Committee from the 1970s, a State of California agency whose mission is to monitor the use of land and water in the coastal zone areas following the Coastal Act. This series contains Plan Elements for various subjects which include recommendations by the State Commission for each topic, drafts of the Energy Element, volumes of Energy drafts and more on the energy element and also documents for the geology element.

Sub-Series 6: Geological Society of America

Volume: approximately 1 LF
Arrangement: Format
Format: Bulletins
Correspondences
Meeting Minutes
Newsletters
Professional Papers
Description: Materials from the Geological Society of America, mostly pertaining to the Committee on Environment and Public Policy. The Committee on Environment and Public Policy materials include correspondences, meeting minutes, and various documents regarding their 1972 Annual

Meeting. In this sub-series are documents about a 1973 conference on Earth-Sciences and Environmental Decision Making and their 1991 annual meeting. There also includes membership materials such as bulletins and newsletter due to Wahrhaftig being a member of the GSA. The Geological Society of America is a non-profit organization dedicated to the geosciences. There are thousands of members in many countries from different fields including academia, government, and business.

Sub-Series 7: Humboldt Bay

Volume: 2 folders
Arrangement: Format
Format: Correspondences
Meeting Minutes
Description: Correspondences and meeting minutes about Humboldt Bay from the 1970s. This group was researching the safety of the Humboldt Bay Plant site for earthquake hazards.

Sub-Series 8: International Union for Quaternary Research [INQUA]

Volume: 2 folders
Arrangement: Chronological
Format: Booklets
Description: INQUA, the International Union for Quaternary Research, was founded in 1928 by a group of scientists seeking to improve understanding of environmental change during the glacial ages through interdisciplinary research. Today, more than 35 member countries, spread throughout the world. Wahrhaftig led field trips with the INQUA and contributed some writings as well. In this sub-series, there is a field trip guidebook with INQUA and a review piece for congress from the INQUA.

Sub-Series 9: Land Use Institute

Volume: 5 folders
Arrangement: Format
Format: Correspondences
Forms (Documents)
Meeting Minutes
Newsletter
Description: Correspondences, meeting minutes, and other documents from the Land Use Institute from the 1970s. The Land Use Institute is a panel of people

from various scientific and professional fields who examine environmental problems and advise local groups or individuals on possible solutions.

Sub-Series 10: The Mayor's Twin Peaks Committee

Volume: 4 folders
Arrangement: Format
Format: Correspondences
Maps
Meeting Minutes
Description: Correspondences, meeting minutes, and maps from The Mayor's Twin Peaks Committee from the 1980s. The Mayor's Twin Peaks Committee was formed by former San Francisco Mayor Diane Feinstein to help the City of San Francisco develop plans to develop and improve Twin Peaks.

Sub-Series 11: OCS (Outer Continental Shelf) Review Committee

Volume: 0.5 LF
Arrangement: Format and Alphabetically
Format: Correspondences
Meeting Minutes
Professional Papers
Description: Correspondences, meeting minutes, papers, and other documents for the Review Committee on Environmental Impact of Oil and Gas Production on the Outer Continental Shelf (OCS Review Committee) from the 1970s. There are a variety of documents in this sub-series, but most of them are papers written for the OCS Review Committee. They focused on researching the impact of oil and gas production on the Pacific Coast, especially in Alaska.

Sub-Series 12: State Board of Forestry

Volume: 0.5 LF
Arrangement: Format
Format: Correspondences
Meeting Minutes
Professional Papers
Speeches
Description: Correspondences, meeting minutes, statements, papers, and reports for the State Board of Forestry from the 1970s and 1980s. There are a number of

documents and papers regarding logging in state forests. The State Board of Forestry is a State of California agency that works with policy and the public to protect that state's forests.

Sub-Series 13: Soil Erosion Study Advisory Committee

Volume: 7 folders
Arrangement: Format
Format: Correspondences
Meeting Minutes
Professional Papers
Description: Correspondences, meeting minutes, and papers from the Soil Erosion Study Advisory Committee from the 1980s. The Soil Erosion Study Advisory Committee was established by the State of California Department of Forestry to study soil erosion for the Department and to ensure that the studies by the Department are valid. Various studies and reports were prepared by the committee.

Sub-Series 14: United State Environment and Resources Council

Volume: 1 folder
Format: Meeting Minutes
Description: Meeting minutes from the United States Environment and Resources Council from the 1970s. The United States Environment and Resources Council does not seem to be a part of the government and was formed to assist in an exchange of ideas and developments between different organizations that focus on the environment and earth resources.

Sub-Series 15: San Francisco Hiking Club

Volume: 1 folder
Format: Maps
Description: Maps and other documents for the San Francisco Hiking Club. The San Francisco Hiking Club is a not-for-profit group that meets on weekends to go on hikes.

Sub-Series 16: Workshop on Environmental Problems in the Extractive Industries

Volume: 4 folders
Arrangement: Format

Format: Correspondences
Professional Papers
Speeches
Bulletins
Newsletters

Description: Correspondences, papers, and speeches for the Workshop on Environmental Problems in the Extractive Industries from 1972-1973. The workshop took place at Wright State University in Dayton, Ohio, and was co-sponsored by the Geological Society of America. The workshop was open to industry professionals and university professors who work on environmental issues. This sub-series is included in this series because the topic fits in with the other organizations, and it was co-sponsored by the Geological Society of America.

Sub-Series 17: Government Agencies

Volume: approximately 1.25 LF

Arrangement: Agency

Format: Brochures
Bulletins
Forms
Records

Description: Documents, brochures, forms, and committee and congressional records provided by various government agencies. Most of the agencies are at the federal level, but there are some at the state level. This sub-series is included because it contains agencies and committees that Wahrhaftig was or was not on.

Series 4: Geographic Areas

Volume: 6.5 LF [13 document boxes]

Format: Aerial Photographs
Black-and-White Photographs
Brochures
Bus Route Maps
Color Photographs
Correspondences
Maps
Professional Papers

Description: Materials from geographic areas. Most of the documents in this series are academic papers that were written about a specific area. There are also maps, brochures, and other documents about the areas. The geographic directions in this series are based on San Francisco as a center point and expanding outward. There are four main geographic areas in this series: San Francisco; areas south of San Francisco; areas east of San Francisco; and areas north of San Francisco, including up along the Pacific Coast to Alaska. Included at the end of this series is a sub-series of street maps, which are grouped by geographic areas, and a sub-series of transit guides for the San Francisco Bay Area and brochures. These have been included in this series because they are based on geographic areas, but have been separated because they are distinct from the materials in the other sub-series.

Sub-Series 1: Golden Gate National Recreation Area

Volume: 0.5 LF

Arrangement: Geographically

Format: Brochures

Maps

Professional Papers

Description: Documents relating to the Golden Gate National Recreation Area. The locations represented here are Alcatraz, Fort Funston, Marin Headlands, The Presidio of San Francisco, and Ocean Beach.

Sub-Series 2: San Francisco

Volume: 0.5 LF

Arrangement: Geographically

Format: Aerial Photographs

Maps

Professional Papers

Description: Maps and papers about San Francisco. There are maps and orthophotographs that document the city. There are also geology papers about the San Francisco area. The John McLaren Park document is included in this series because it is a city park.

Sub-Series 3: South of San Francisco

Volume: 0.5 LF
Arrangement: Geographically
Format: Maps
Professional Papers
Description: Papers and other documents about locations that are found south of San Francisco. The papers are mainly about geology and related scientific disciplines. The locations covered by these materials extend south through California to Mexico.

Sub-Series 4: East of San Francisco

Volume: 0.5 LF
Arrangement: Geographically
Format: Maps
Professional Papers
Description: Papers and maps of locations that are found to the east of San Francisco, including the general East Bay of the San Francisco Bay. The papers focus on geology, the environment, and other related disciplines. Most of the locations are found between San Francisco and the Sierra Nevada Mountains, with some papers about Nevada. At the end of this sub-series are documents on Texas and Greenland. Also included in this sub-series are papers about California in general and maps.

Sub-Series 5: North of San Francisco

Volume: 3.5 LF
Arrangement: Geographically and Format
Format: Aerial Photographs
Black-and-White Photographs
Brochures
Color Photographs
Correspondences
Maps
Professional Papers
Description: Maps, photographs, papers, and other documents about areas north of San Francisco including Oregon, Washington, and Alaska. The locations covered by these materials extend north through California and the Pacific Coast. In this sub-series are papers that discuss the Pacific Coast. Also included are Bolinas Lagoon, Tomales Bay, and Point Reyes materials that

are cross referenced with the Golden Gate National Recreation Area sub-series.

Sub-Series 6: Street Maps

Volume: 0.5 LF
Arrangement: Geographically
Format: Maps
Description: Street maps of the San Francisco Bay Area, California, and several other states, that range from the 1960s to the 1990s. The street maps are grouped by location and are in geographic order: San Francisco, North Bay, East Bay, California, other California cities, and other states. Also included in this sub-series are street maps of national forests in California.

Sub-Series 7: Transit Guides and Brochures

Volume: 0.5 LF
Arrangement: Geographically
Format: Brochures
Bus Route Maps
Description: Transit guides from systems in the San Francisco Bay Area and brochures. The transit guides include the Bay Area Rapid Transit (BART), MUNI in San Francisco County, SamTrans in San Mateo County, Golden Gate Transit in Marin County, and AC Transit in Alameda and Contra Costa Counties. Also included in this sub-series are brochures. While not all the brochures focus on a geographic area, the presentation is the same so they are included in this sub-series.

Series 5: Papers

Volume: 2.5 LF [5 document boxes]
Arrangement: Alphabetically and Subject
Format: Brochures
Clippings
Maps
Professional Papers
Description: Papers that were written on a variety of subjects but do not fall under one of the other series. Most are academic papers, but not all are published. If there is no author, then they are in alphabetical order by title. Most of the papers are about geology or a related scientific discipline. This

series contains student papers [not his own] and papers relating to earthquakes as well.

Series 6: Miscellaneous

Volume: 0.5 LF [1 document box]
Arrangement: Subject
Format: Brochures
Clippings
Newsletters
Professional Papers
Description: Materials that did not fit into another series. The documents are a miscellaneous collection of booklets, museum information, and other documents.

Series 7: Small Notebooks

Volume: approximately 1 LF [4 small boxes]
Format: Notes
Description: Small notebooks. These notebooks contain handwritten notes by Wahrhaftig and are very difficult to read.

Series 8: Slides

Photographs

Volume: 1 LF [2 document boxes]
Arrangement: Geographic order
Formats: Color Slides
Description: Slides from various locations, mostly in California. The slides are in geographic order starting with the Golden Gate National Recreation Area and then cover other National Parks followed by State Parks. After that the slides follows a geographic order starting in San Francisco then expand outward based on distance from San Francisco. There are also slides of graphs.

Series 9: Photographs

Volume: 0.5 LF [1 document box]
Arrangement: Geographic order

Formats: Black-and-White Negatives
Black-and-White Photographs
Color Negatives
Color Photographs

Description: Black and white and color photographs from various locations, primarily Golden Gate National Recreation Area. The photographs are grouped by location and ordered by geographic area. It starts with Golden Gate National Recreation Area, then other National Parks, and then other photographs.

Series 10: Orthophotographs

Volume: approximately 6.2 LF [2 document boxes, 1 oversize box]

Arrangement: Geographical and chronological order

Formats: Aerial Photographs
Black-and-White Negatives

Description: Orthophotographs of the San Francisco Bay Area and Marin County from the 1950s to the 1970s. They are grouped by area and date starting with San Francisco and moving north. Within each area they are arranged chronologically. See attached inventory of the oversized orthophotographs.

Series 11: Filmstrips

Volume: approximately .3 LF [1 flat box]

Formats: Filmstrip

Description: Two filmstrips: *Fire Under the Sea: The Origin of Pillow Lava* and "History of Pacific Basin" Pt 2.

Series 12: California

Maps

Volume: approximately 0.75 LF [1.5 document boxes]

Arrangement: Geographically

Formats: Geological Maps
Maps
Professional Papers

Quadrangle Maps
Topographic Maps

Description: Maps of California and large regions of California. The series begins with California and condenses to more specific areas of the state.

Series 13: San Francisco Bay Area Counties

Volume: approximately 6.75 LF [4.5 document boxes and 15 map rolls]

Arrangement: Geographically and Alphabetically

Formats: Geological Maps
Maps
Professional Papers
Quadrangle Maps
Topographic Maps

Description: Maps of the nine counties of the San Francisco Bay Area: Alameda County, Contra Costa County, Marin County, Napa County, San Mateo County, Santa Clara County, Solano County, and Sonoma County (there are no maps from San Francisco County). In each county, the titles are grouped alphabetically. The series begins with maps from the San Francisco Bay Region and condenses to more specific parts of the Bay Area, and then the counties are in alphabetical order.

Series 14: San Francisco Bay Area Cities

Volume: 1.5 LF [3 document boxes]

Arrangement: Alphabetically

Formats: Geological Maps
Maps
Quadrangle Maps
Topographic Maps

Description: Maps of cities from the nine counties of the San Francisco Bay Area. Some of the titles are of regions instead of cities.

Series 15: California Counties

Volume: 2 LF [4 document boxes]

Arrangement: Alphabetically

Formats: Geological Maps
Maps
Quadrangle Maps

Topographic Maps
Description: Maps from 35 of California's counties.

Series 16: California Cities

Volume: 4 LF [8 document boxes]
Arrangement: Alphabetically
Formats: Brochures
Geological Maps
Maps
Quadrangle Maps
Topographic Maps
Description: Maps of cities throughout California. Some of the titles are of regions instead of cities.

Series 17: Out of State

Volume: 3.1 LF [5 document boxes and 2 map rolls]
Arrangement: Geographically and Alphabetically
Formats: Geological Maps
Maps
Quadrangle Maps
Topographic Maps
Description: Maps of the United States and several states. The series begins with the United States and several regions followed by the states: Alaska, Arizona, Colorado, Hawaii, Montana, Nevada, New Mexico, North Dakota, Ohio, Oregon, Pennsylvania, Utah, Washington, and Wyoming.

Series 18: International

Volume: 1.5 LF [3 document boxes]
Arrangement: Alphabetically and Geographically
Formats: Geological Maps
Maps
Quadrangle Maps
Topographic Maps
Description: Maps from various countries around the world: Australia, Canada, Denmark, Finland, Great Britain, India, Indonesia, Mexico, New Zealand, Sweden, and Switzerland. Also included at the end of this series are maps from larger regions of the world, like oceans and sea floors, and maps from the Moon and Mars.

Series 19: Miscellaneous Maps, Charts, Brochures

Volume: approximately 0.5 LF [one doc box]

Arrangement: Alphabetical

Formats: Brochures

Charts

Figures (Illustrations)

Maps

Description: Miscellaneous maps and pieces of maps. This series contains maps that did not fit in other series or where the location is unknown. Also included in this series are map pieces, brochures of places with a map on it, charts of a map, and notes of or about maps.

Box and Folder List

Collection Title: Clyde Wahrhaftig Collection

Collection Number: GOGA 35329

Box #	Folder #	Description
1		Series 1: Clyde Wahrhaftig
		<i>Manuscripts and Papers</i>
		Sub-Series 1: Papers
	1	“Effects of Glaciation on Yosemite National Park”, talk by Clyde Wahrhaftig, 1990.
	2	“Explanation for the Map of the Quaternary Deposits of the San Francisco Bay 1:1,000,000 Sheet” by Scott Stine and Clyde Wahrhaftig, 1982
	3	“Note on the sources of Lobos Creek, San Francisco” by Clyde Wahrhaftig
	4	“Notes on the structural geology of the Delta River Canyon” by Clyde Wahrhaftig.
	5	“Outer Continental Shelf Oil and Gas—An evaluation of the resources and its impact” By Clyde Wahrhaftig.
	6	Discussion drafts
	7	Clyde Wahrhaftig’s papers
	8	Clyde Wahrhaftig’s published papers
	9	“Commencement talk at graduation ceremony: Department of Paleontology and Geology and Geophysics, University of California, Berkeley” by Clyde Wahrhaftig, June 18, 1982.
	10	Speeches by Clyde Wahrhaftig
	11	Statements by Clyde Wahrhaftig
	12	Statement on sabbatical leave by Clyde Wahrhaftig
	13	Emigrant basin documents—papers, statements
2		Sub-Series 2: Correspondences
	1	Professional Correspondences: No date, 1959, 1964, 1965, 1969
	2	Professional Correspondences: 1971-1974
	3	Professional Correspondences: 1975
	4	Professional Correspondences: 1976-1977
	5	Professional Correspondences: 1978-1979
	6	Professional Correspondences: 1980-1989
	7	Letters from second grade students at Buena Vista Alternative Education School, 1990.
	8	Letters regarding Lake Ranch to Marin County board of supervisors,

		Senator Cramston, April 1969.
3		Sub-Series 3: Courses
	1	Geology 1 handouts
	2	Geology 5 handouts
	3	Geology 101 handouts
	4	Geology 117 lecture notes, F1/2
	5	Geology 117 lecture notes, F2/2
	6	Geology 214 problem set Interdepartmental studies (IDS) 10B: Environmental issues/ selected readings Reader, F1/4
	7	Interdepartmental studies (IDS) 10B: Environmental issues/ selected readings Reader, F1/4
	8	Interdepartmental studies (IDS) 10B: Environmental issues/ selected readings Reader, F2/4
	9	Interdepartmental studies (IDS) 10B: Environmental issues/ selected readings Reader, F3/4
4	1	Interdepartmental studies (IDS) 10B: Environmental issues/ selected readings Reader, F4/4
	2	Yosemite course 802
	3	Course syllabus—High Sierra—Emigrant Basin
	4	“Land Use and Erosion in the Northern Coast Ranges of California—how to begin in geology and end up in politics” by Clyde Wahrhaftig, Hoots Lecture, Stanford, Ca., February 6, 1978.
	5	Quaternary stratigraphy—lecture 2
	6	Ice age lecture notes.
	7	Seminar: geology of the Marin Headlands
	8	Solar energy course, 1978
	9	Presidio docent training notes, 1993.
5	1	“A Study of Soil Development Using the Geochronology of Merced River Deposit, Ca.” PhD Thesis by Jennifer Willa Harden, 1982.
	2	“Sediment Mobilization and Production from a Small Mountain Catchment: Lone Tree Creek, Marin County, CA” by Andrea Kenneth Lehre (PhD Dissertation, February 1982) 1/3
	3	“Sediment Mobilization and Production from a Small Mountain Catchment: Lone Tree Creek, Marin County, CA” by Andrea Kenneth Lehre (PhD Dissertation, February 1982) 2/3
	4	“Sediment Mobilization and Production from a Small Mountain Catchment: Lone Tree Creek, Marin County, CA” by Andrea Kenneth Lehre (PhD Dissertation, February 1982) “Sediment Mobilization and Production from a Small Mountain Catchment: Lone Tree Creek, Marin County, CA” by

		Andrea Kenneth Lehre (PhD Dissertation, February 1982) 3/3
	5	“Sequence of Podzolic Soils along the Coast of Northern California” by Robert Alexander Gardner (Thesis) 1/2
	6	Sequence of Podzolic Soils along the Coast of Northern California” by Robert Alexander Gardner (Thesis) 2/2
6	1	“The Stratigraphy and Distribution of the Colma Formation San Francisco, CA” By Laurel Huggins Hochstetler (Master’s Thesis)
	2	“The Nature and Origin of a Chert-Rich Beach Sand, Rodeo Cove, Marin Peninsula, CA” by John R. Wakeley (Master’s Thesis, 1968)
	3	Student Papers
	4	Department of Geology, University of California Berkeley—Correspondences, 1979-1980
	5	Department of Geology, University of California Berkeley—Correspondences, 1981-1982
	6	Department of Geology, University of California Berkeley—Faculty Meeting Minutes and Recollections
	7	Department of Geology, University of California Berkeley—Miscellaneous University of California Berkeley
	8	University of California Berkeley
	9	A directory: Cooperative Extension expertise in renewable natural resources, University of California.
	10	Studies of Heterogeneous strain in experimentally deformed calcite, marble, and phyllite. University of California Press Berkeley and Los Angeles. University of California Publications in Geological Studies
	11	The Eocene Green River Flora of North Western Colorado and North Eastern Utah, by H.D. MacGinitie, University of California Press, Berkeley and Los Angeles, 1969.
		Sub-Series 4: Field Trips
	12	Geology 5 Field Trip
	13	Geology 101 Field Trips
7	1	Geology 117 Field Trips
	2	Geology 213 Field Trips
	3	American geophysical field trips
	4	Geological Society of America field trips, April 1977
	5	U.S.G.S. Field trip to Fort Funston—Thornton beach [2 copies]
	6	Field trip to Fort Funston [3 copies]
	7	Career—education program in earth sciences field trip 1: Telegraph Hill and Coit Tower.
	8	Excursion around San Francisco bay
	9	Trip 6. A boat-trip to the BLUECHIST FACIES: Angel Island and the

		metamorphosed Franciscan.
	10	Excursion to pan toll— Lone tree spring, January 18, 1975
	11	Kehoe beach field trip 1987
	12	Kirby cove hike
	13	Northern California Geological Society Hayward-Hollister Field Trip
	14	Alaska range field trip
	15	Field trip via train
	16	Field trip miscellaneous.
8		B/W Photographs w/negatives from INQUA Trip Clear Lake, Denver, CO 1961-1963 1/7
	2	B/W Photographs w/negatives from INQUA Trip Clear Lake, Denver, CO 1961-1963 2/7
	3	B/W Photographs w/negatives from INQUA Trip Clear Lake, Denver, CO 1961-1963 3/7
	4	B/W Photographs w/negatives from INQUA Trip Clear Lake, Denver, CO 1961-1963 4/7
	5	B/W Photographs w/negatives from INQUA Trip Clear Lake, Denver, CO 1961-1963 5/7
	6	B/W Photographs w/negatives from INQUA Trip Clear Lake, Denver, CO 1961-1963 6/7
	7	B/W Photographs w/negatives from INQUA Trip Clear Lake, Denver, CO 1961-1963 7/7
	8	Field Book from INQUA Trip Clear Lake, Denver, CO 1961-1963
	9	Maps from INQUA Trip Clear Lake, Denver, CO 1961-1963 1/4
	10	Maps from INQUA Trip Clear Lake, Denver, CO 1961-1963 2/4
	11	Maps from INQUA Trip Clear Lake, Denver, CO 1961-1963 3/4
	12	Maps from INQUA Trip Clear Lake, Denver, CO 1961-1963 4/4
9	1	Guidebook to field trips in Alameda and Contra Costa Counties, April 11, 1963 [2 copies]
	2	Glaciomarine environments and Fraser Glaciation in North West Washington, guidebook for field conference, September 24-25, 1966.
	3	State of Colorado Geological Survey road log for field trip 10 of the Geological Society of America, May 3-6, 1973
	4	Field Trip Guidebook for the Friends of Pleistocene, 1979. [2 copies; one with writings]
	5	Friends of the Pleistocene: field trip guidebook, August 5-8, 1982.
	6	Geology of San Francisco and vicinity, field trip guidebook T105, July 1-7, 1989. [2 copies]
	7	Field trip to the Cenozoic rocks of Calaveras county, n.d.

		Sub-Series 5: Miscellaneous
	8	“Presentation of the 1967 Kirk Bryan Award to Clyde A. Wahrhaftig”
	9	“High Sierra Hiking Guide #18, Sonora Pass” 1976. [includes correspondence to Clyde Wahrhaftig in booklet]
	10	Clyde Wahrhaftig’s Field Notes photocopies.
	11	Clyde Wahrhaftig’s Notes
	12	Clyde Wahrhaftig’s Handwritten Notes [1/2]
	13	Clyde Wahrhaftig’s Handwritten Notes [2/2]
10	1	Clyde Wahrhaftig’s Rock Storage List
	2	<i>Probable pre-neiglacial age of the type temple Lake Moraine, Wyoming: Discussion and additional relative-age data.</i> Arctic and Alpine Research, Vol. 6, No. 3, 1974.
	3	Miscellaneous
	4	Miscellaneous figures and tables
	5	Miscellaneous forms
	6	Miscellaneous maps
	7	Miscellaneous photographs
	8	Miscellaneous writings
Rare Book Cab		Sub-Series 6: Books <ul style="list-style-type: none"> • <i>Geological Observations: On the Volcanic Islands and Parts of South America visited during the Voyage of H.M.S. ‘Beagle’.</i> By Charles Darwin, M.A., F.R.S., Etc. 1900 • <i>High School Algebra</i> By J.H. Tanner, PhD. 1907 • <i>Forest Trees of the Pacific Slope</i> By George B. Studworth, Dendrologist. Issued 1908. • <i>Tertiary Faunas, Volume I,</i> By A.M. Davies, 1935 • <i>Handbook of Chemistry and Physics Twenty-Second, Edition,</i> Editor in Chief Charles D. Hodgman, M.S., 1937 • <i>San Francisco, the Bay and its Cities,</i> American Guide Series, 1937 • <i>The Quarenty of the United States, A review volume for the VII congress of the International Association for quarenty research,</i> H.E. Wright, Jr. and David G. Frey, Editors, 1965 • <i>The Earth, an introduction to physical geology,</i> By John Verhoogen, Francis J. Turner, Lionel E. Weiss, Clyde Wahrhaftig, 1970. • <i>Issues in Outdoor Recreation,</i> By Clayne R. Jensen and Clark T. Thorstenson, 1972 • <i>Ecology, Impact Assessment, and Environmental Planning,</i> By Walter E. Westman, 1985
		Series 2: Streetcar to Subduction (SS)

		Sub-Series 1: Manuscripts
	9	<i>A Streetcar to Subduction and other Plate Tectonic Trips by Public Transport in San Francisco</i> by Clyde Wahrhaftig, 1979
	10	<i>A Streetcar to Subduction and other Plate Tectonic Trips by Public Transport in San Francisco</i> (Revised Edition) by Clyde Wahrhaftig, 1984
	11	SS, Manuscript for 1 st edition
	12	SS, First Edition – Partial Text
	13	SS, 2 nd edition – Early drafts of text and illustrations
	14	SS – Copies of Trip 6 from Revised Edition
	15	SS – Original Outline
	16	SS: Clyde’s Marked Copy Manuscript
	17	SS – Manuscript
11	1	SS – Partial Manuscript
	2	SS: “Printout” – Partial Manuscript
	3	SS: “New” – Partial Manuscript
	4	SS: “New Text” – Partial Manuscript
	5	SS – Text Printout
	6	SS – Edited Text
	7	SS – Text Printout
	8	SS – Bibliography Notes
	9	SS – Appendices B, C, D
	10	SS – Word List
12		Sub-Series 2: Figures
	1	SS – Original Drafted Copy for Line Drawings for 1 st edition 1979
	2	SS – Misc. Illustrations, 1 st edition
	3	SS – 2 nd copy, annotated illustrations
	4	SS – Sketches of title page
	5	SS – Figures
	6	SS – Figures and Captions
	7	SS – Illustrations
	8	SS – Copies of Figures
	9	SS – Figures
	10	SS – Figures
	11	SS – Figures
	12	SS – Maps
	13	Streetcar to Subduction – Misc. Photographs and Maps
13		Sub-Series 3: Trips
	1	SS – Field Notes and Photographs for Trip 1
	2	SS – Field Notes and Photographs for Baker’s Beach/Fort Point

	3	SS – Field Notes, Photographs, Maps for Angel Island
	4	SS – Angel Island Trip Text
	5	SS – Field Notes for “Bart Trip to a Transform Fault”
	6	SS – Field Notes for “Sedentary Survey”
	7	SS – Photographs and Illustrations for “Sedentary Survey”
	8	SS – Sedentary Survey, 2 nd draft
		Sub-Series 4: Miscellaneous Documents
	9	SS – Correspondences
	10	SS – Handwritten Notes
	11	SS – Misc.
14		Sub-Series 5: Research copies
	1	SS – Copies of References 1/2
	2	SS – Copies of References 2/2
	3	SS – Papers
	4	SS – Figures and Transparencies
	5	SS – Large Figures
	6	SS – Newspaper Clippings
	7	SS – Photocopies of Various Maps
	8	SS – Stratigraphy Maps
	9	SS – Author Galleys
	10	SS – Revised Edition Manuscript
	11	SS – <i>The Golden Gate Bridge: A Technical Description in Ordinary Language</i>
		Series 3: Professional Organizations
15		Sub-Series 1: Bay Area Ridge Trail [BART]
	1	BART – Information (Trail, Volunteering, Events)
	2	BART – Newsletters and Reports
	3	BART – Clyde Wahrhaftig Writings
	4	BART – Papers
	5	BART – Correspondences
	6	BART – Maps and Orthophotographs
	7	BART – Committee Meeting Minutes
	8	BART – Technical Committee Memos
	9	BART – “Plans”
	10	BART – Signage
	11	BART – Presidio Section
	12	BART – Misc.
		Sub-Series 2: American Geophysical Union [AGU]
	13	AGU – Increased Minority Participation in the Earth Sciences Program

		(IMPES)
16	1	EOS transactions, American Geophysical Union, Vol. 61, No. 45, 1980.
	2	EOS Transactions, American Geophysical Union, Vol. 64, No. 9, 1983
		Sub-Series 3: Assembly Committee on Natural Resources and Conservation [NRC]
	3	NRC – Correspondences
	4	NRC – Statements
	5	NRC – Press Releases
	6	NRC – Misc.
		Sub-Series 4: Bolinas Lagoon Technical Advisory Committee [BLTAC]
	7	BLTAC – Correspondences, 1972-1975
	8	BLTAC – Correspondences, 1976-1977
	9	BLTAC – Correspondences, 1978-1979
	10	BLTAC – Meeting Minutes, 1974-1976
	11	BLTAC – Meeting Minutes, 1977-1979
		Sub-Series 5: California Coastal Zone Conservation Committee [CCZCC]
	12	CCZCC – The Coast Plan Bulletin
	13	CCZCC – Plan Element: Appearance and Design
	14	CCZCC – Plan Element: Coastal Land Environment
	15	CCZCC – Plan Element: Government, Powers, and Funding to Carry out the Coastal Plan
	16	CCZCC – Plan Element: Intensity of Development
17	1	CCZCC – Plan Element: Recreation
	2	CCZCC – Plan Element: Transportation
	3	CCZCC – Plan Element: Energy
	4	CCZCC – Draft: Energy Volume I: An Overview and the Potential for Conservation
	5	CCZCC – Draft: Energy Volume II: Petroleum and Natural Gas: Demand and Supply
	6	CCZCC – Draft: Energy Volume III: Alternative Energy Sources
	7	CCZCC – Draft: Energy Volume IV: Electrical Energy and Power Plants
	8	CCZCC – Draft: Energy Volume V: Petroleum Development
	9	CCZCC – Drafts: Energy Volume VI: Tanker Terminals, Refineries, LNG Facilities
	10	CCZCC – Drafts: Chapters of Energy Element
	11	CCZCC – Drafts: Chapters of Energy Element
	12	CCZCC – Final Drafts: Chapters of Energy Element
18	1	CCZCC – Drafts: Alternative Energy Sources

	2	CCZCC – Draft: Petroleum
	3	CCZCC – Revised Draft: Energy
	4	CCZCC – Energy
	5	CCZCC – The Coastal Land Environment
	6	CCZCC – Forestry
	7	CCZCC – Plan Element: Geology
	8	CCZCC – Geology
	9	CCZCC – Geology
	10	CCZCC – The Marine Environment
	11	CCZCC – Public Access to the Coast
	12	CCZCC – Misc.
19	1	CCZCC- Preliminary coastal plan, hearing draft, March 1975, pages 1-288. [1/2]
	2	CCZCC- Preliminary coastal plan, hearing draft, March 1975, pages 289-end. [2/2]
		Sub-Series 6: Geological Society of America [GSA]
	3	GSA – Committee on Environment and Public Policy – Correspondences, 1971
	4	GSA – Committee on Environment and Public Policy – Correspondences 1972
	5	GSA – Committee on Environment and Public Policy – Annual Meeting 1972
	6	GSA – Committee on Environment and Public Policy – Misc.
	7	GSA – 1973 Conference: Earth-Sciences and Environmental Decision Making
	8	GSA – Annual Meeting, 1991
	9	GSA – Rock Color Chart
	10	GSA- Stepped topography of the Northern Sierra Nevada, Ca. [2 copies]
	11	GSA- annual meeting, Fresno, Ca., 1965 [2 copies]
	12	GSA- Cordilleran Section, March, 1970. Principles of strontium isotope geology.
	13	GSA- bulletin, Vol. 61, No.12, Pt. 2
20	1	GSA- bulletin, Vol. 64, No. 12, Pt.2, December 1953
	2	GSA- bulletin, Vol. 65, No. 12, Pt.2, December 1954
	3	GSA- bulletin, Vol. 70, No.4, April 1959
	4	GSA- bulletin, Vol.76, No.10, October 1965
	5	GSA- bulletin, Vol. 87, No.8, August 1976
	6	GSA- News and information, monthly newsletter, Vol. 11, Nos. 2,3,6 [1989] and Vol. 12., Nos. 6,9 [1990]

	7	GSA Today, Newspaper, Vol.1 Nos.1,6, Vol. 2, Nos. 1, 6, Vol.3, Nos. 2,7, Vol.4, No.1
	8	GSA- directory 1984
	9	GSA- directory 1989
		Sub-Series 7: Humboldt Bay
	10	Humboldt Bay Correspondences
	11	Humboldt Bay Meeting Minutes
		Sub-Series 8: INQUA
	12	Guidebook for field conference I, Northern great basin and California. Aug-Sep 1965.
	13	A review volume for the VII congress of the INQUA, 1965
21		Sub-Series 9: Land Use Institute [LUI]
	1	LUI – Correspondences
	2	LUI – Meeting Minutes
	3	LUI – Requests for Technical Assistance
	4	LUI – People for Open Space
	5	LUI – Misc.
		Sub-Series 10: The Mayor’s Twin Peaks Committee [MTPC]
	6	MTPC – Correspondences
	7	MTPC – Meeting Minutes
	8	MTPC – Maps
	9	MTPC – Misc.
		Sub-Series 11: Outer Continental Shelf Review Committee [OCS]
	10	OCS – Correspondences
	11	OCS – Meeting Minutes
	12	OCS – Meetings
	13	OCS – CEQ Information
	14	OCS – “Atlantic and Alaskan OCS Petroleum Study”
	15	OCS – “Issues in the Assessment of Environmental Impacts of Oil and Gas Production on the Outer Continental Shelf”
	16	OCS – “The National Energy Scene”
	17	OCS – “Offshore Economic Model”
	18	OCS – Reports
22	1	OCS – Other Writings
	2	OCS – News Articles
	3	OCS – Misc.
	4	OCS- an environmental assessment, 1974
	5	OCS- issues in the environmental assessment impacts, 1974
		Sub-Series 12: State Board of Forestry [SBF]

	6	SBF – Correspondences
	7	SBF – Meeting Minutes
	8	SBF – Statements
	9	SBF – Papers
	10	SBF – Reports
	11	SBF – Logging
23	1	SBF – Timber and Logging Effects on Soil
	2	SBF- Factors influencing soil and erosion on timber
	3	SBF – Misc.
		Sub-Series 13: Soil Erosion Study Advisory Committee [SES]
	4	SES – Correspondences
	5	SES – Meeting Minutes
	6	SES – Studies
	7	SES – Reports
	8	SES – Writings
	9	SES – Papers
	10	SES – Misc.
		Sub-Series 14: United State Environment and Resources Council [ERC]
	11	ERC – Meeting Minutes
		Sub-Series 15: San Francisco Hiking Club
	12	San Francisco Hiking Club
		Sub-Series 16: Workshop on Environmental Problems in the Extractive Industries [workshop]
	13	Workshop – Correspondences
	14	Workshop – Speeches
24	1	Workshop – Papers
	2	Workshop – Misc.
		Sub-Series 17: Government Agencies
	3	Department of the Interior
	4	Department of the Interior- Geological Survey Bulletin, bibliography of North American Geology, 1940-1949 [1/7]
	5	Department of the Interior- Geological Survey Bulletin, bibliography of North American Geology, 1950-1959 [2/7]
25	1	Department of the Interior- Geological Survey Bulletin, geology and coal deposits, 1955 [3/7]
	2	Department of the Interior- Geological Survey Bulletin, bibliography of North American Geology, 1960 [4/7]
	3	Department of the Interior- Geological Survey Bulletin, changes in stratigraphic nomenclature by the U.S. Geological Survey, 1968 [5/7]

	4	Department of the Interior- Geological Survey Bulletin, schists of the central Alaska range, 1968 [6/7]
	5	Department of the Interior- Geological Survey Bulletin, the Coal-Bearing group in the Nena Coal Field, Alaska, 1969 [7/7]
	6	Department of the Interior- Geological Survey Professional Papers, 1958; 2 copies [1/2]
	7	Department of the Interior- Geological Survey Professional Papers, 1972 [2/2]
	8	Department of the Interior- Geological Circular 310
	9	Department of the Interior- U.S. Geological Survey—San Francisco Peninsula, extracted from the 15 th annual report of the survey, 1893-1894
	10	Department of the Interior- U.S. Geological Survey, San Francisco, Lake Merced, and Golden Gate Park areas, 1990.
	11	Department of the Interior- Geological Survey Brochures [1/2]
26	1	Department of the Interior- Geological Survey Brochures [2/2]
	2	Department of Agriculture- booklets
	3	Department of Defense- booklets
	4	State policy committee
	5	Congressional Records
	6	A Reappraisal of U.S. Energy Policy, Report of the Joint Economic Committee, Congress of the United States, March 1974
	7	California State Parks brochures
	8	Department of Real Estate of the State of California
	9	State of California Department of Parks and Recreation brochures
	10	California Legislature- Assembly Committee on natural resources, 1966
	11	California Legislature- Committee on open space land, 1970
	12	A report to the state water resources control board, August 1982
	13	Bay area regional planning program, regional geology, association of bay area governments, August 1968.
	14	Geologist and Geophysicist Act
	15	San Francisco Bay region environment and resources planning study, September 1974.
	16	“Suggested Criteria for Hydrologic Design of Storm-Drainage Facilities in the San Francisco Bay Region California” 1971
		Series 4: Geographic Areas
27		Sub-Series 1: Golden Gate National Recreation Area [GGNRA]
	1	GGNRA, Environmental Assessment, main trail designated issues.
	2	GGNRA, hydrology report
	3	“Paths of Gold, In and Around the Golden Gate National Recreation Area”

		by Margot Patterson Doss.
	4	Alcatraz- brochures
	5	Fort Funston: "Descriptions in beds exposed at Fort Funston"
	6	Ocean Beach- report
	7	Presidio of San Francisco- papers
	8	Addendum: Natural Resources Management plan, GGNRA
	9	Draft: Natural Resources Management plan, GGNRA.
	10	Marin Headlands, Portals of Time, GGNRA.
		Sub-Series 2: San Francisco
	11	San Francisco- maps
28	1	San Francisco- orthophotographs
	2	San Francisco- miscellaneous
	3	San Francisco's Fisherman's Wharf, by Henry Evans- booklet
	4	Golden Gate Park- maps and guides
	5	Use of USGS earth science products by city planning agencies in the San Francisco Bay Region, CA.
	6	The Lhersolite-Serpentine and Associated Rocks of the Potrero, San Francisco.
	7	The Development of Folds in layered chert of the Franciscan assemblage near san Francisco, CA. [1/3]
	8	The Development of Folds in layered chert of the Franciscan assemblage near san Francisco, CA. [2/3]
	9	The Development of Folds in layered chert of the Franciscan assemblage near san Francisco, CA. [3/3]
	10	Franciscan Geology of Northern California, 1984.
	11	Native shrubs of the San Francisco Bay region- book
29	1	<i>San Francisco the urbanized estuary</i> , by T.J. Conomos, editor.
	2	Beaches near San Francisco, Ca., 1957-1958
	3	Draft: Environmental impact report, San Francisco, May 1977.
	4	Draft: Environmental management plan for the San Francisco Bay region, summary, December 1977.
	5	John McLaren Park- master plan, draft, February 1989
	6	California Geology, March 1974, San Francisco Earthquake and Fire.
		Sub-Series 3: South of San Francisco
	7	"Pliocene and Lower Pleistocene of the Western Part of the San Francisco Peninsula" by William Glen, 1959
	8	"Paleocene turbidites and modern landslides of the Point San Pedro-Devil's Slide Area, San Mateo County, CA" by Tor H. Nilsen and James C. Yount, 1987

	9	“Cultural and Natural History of Alum Rock Park” by Dr. R.J. Hartesveldt and Dr. H.T. Harvey, December 1972
	10	Santa Cruz- field trip
	11	“Geology of Coastal California from Pescadero to Point Año” by George W. Moore, 1986
	12	“Hydrological and Erosional Analysis of the Upper Butano Creek Watershed” by Raymond M. Rice, June 1990
	13	“Geology of Observatory Site Harris Ranch, Hollister” by John Proffett, May 1965
	14	“The Quaternary Deltaic and Channel System in the Central Great Valley, CA” by Roy J. Shlemon, January 1971
	15	“Big Sure Excursion” by William R. Dickinson, December 1969
	16	Pinnacles- brochure
	17	“Correlation and Provenance of Upper Mesozoic Chert-rich Conglomerate of California” by Victor M. Seiders, July 1983
	18	Yosemite- brochures, maps, papers, and survey maps.
	19	Sequoia and Kings Canyon- map
	20	Santa Barbara Channel Offshore Tour, January 1974
	21	“Effects of Hydraulic Pumping Operations on the Fauna of Tijuana Slough” by James R. Bybee, 1969
30		Sub-Series 4: East of San Francisco
	1	Berkeley Hills Field Maps
	2	“San Pablo Bay: An Environmental Perspective” June 1980
	3	“Blackhawk: Environmental Impact of a large Suburban Development in Contra Costa County, CA” June 1975
	4	“An Evaluation of Improved Accessibility to the Livermore Valley and its Effects on Population Growth and Air Quality” November 1974
	5	“Attempts to Correlate Late Quaternary Climatic Records between San Francisco Bay, the Sacramento-San Joaquin delta, and the Mokelumne River, CA” by Brian H. Atwater (Dissertation, May 1980)
	6	Preliminary Draft: “The Geological Background of Calaveras County” by W.P. Fuller, Jr. 1979
	7	“The Lower American River Area, CA: A Model of Pleistocene Landscape Evolution” by Roy J. Shleman
	8	Sierra Nevada – Reports
	9	Sierra Nevada – Papers
	10	“Paleomagnetic results from the central Sierra Nevada: Constraints on reconstruction of the Western United States” by Leah S. Frei et. al.
	11	“Geotechnical Evaluation of Road Construction and Timber Harvest Plan –

		Henthorne Lakes Area” by Donald H. Gray, February 1978, with Correspondences
31	1	Squaw Valley- correspondence and condition reports
	2	“Tree Improvement Master Plan for the California Region”
	3	“The Status of the Concept of Quaternary Soil-Forming Intervals in the Western United States” by P.W. Birkeland and R.R. Shroba
	4	“Correlation of Soils of Stratigraphic Importance in Western Nevada and California” by Peter W. Birkeland, 1967
	5	Environmental Geological Atlas of the Texas Coastal Zone
	6	“On the Physiography and late-Glacial Deposits in Northern Lapland” by Erkki Mikkola, 1932
	7	“The General Geological Map of Finland: Explanation to the Map of Rocks” by Erkki Mikkola, 1941
	8	Finland: Brochures
	9	Finland: Papers and Figures
	10	“Facts about Finland”, 1960
	11	Finland: Newspaper
	12	Greenland- pamphlets on the country’s landscape
	13	“Stratigraphy and Volcanism of the Trondheimsfjord Area Norway” by Harold Carstens, 1960
	14	Maps [maps are mainly of California/Bay Area regions]
		Sub-Series 5: North of San Francisco
	15	Gulf of Farallones- brochure
	16	Marin County Papers
32	1	Western Marin County- geology for planning
	2	Marin Headlands – Maps
	3	Marin Headlands – Photographs
	4	Marin Headlands – Orthophotographs
	5	Marin Headlands – Misc.
	6	California Geology: Geology of the Marin Headlands, April 1974
	7	“Structure of the Marin Headlands Block, CA” by Clyde Wahrhaftig
	8	“Sedimentologic, Diagenetic, and Geochemical Analysis of Upper Mesozoic Ribbon Cherts from the Franciscan Assemblage at the Marin Headlands, CA” by Susan M. Karl
	9	Muir Woods- booklet, handouts, and brochures
	10	Stinson Beach- brochure handouts and sewage report
	11	“Geologic Report, and Selected Geotechnical Aspects of the City of Larkspur, CA” by James C. Bangert 1974
	12	Bolinas Lagoon – Rowntree Dissertation 1/2

	13	Bolinas Lagoon – Rowntree Dissertation 2/2
	14	Bolinas Lagoon – Studies
33	1	Bolinas Lagoon – Reports
	2	Recent sediments of Bolinas Bay, Part A, 1968.
	3	Recent sediments of Bolinas Bay, Part B, 1969.
	4	Preliminary studies of sedimentation and hydrology in Bolinas Lagoon, May 1967-June 1968.
	5	<i>Bolinas Lagoon</i> - book
	6	Biological considerations in Bolinas Lagoon Planning, January 1971
	7	Bolinas Lagoon plan- report
	8	Bolinas Lagoon foraminifera, student laboratory and field guide, 1975
	9	Bolinas Lagoon maps
	10	Bolinas Lagoon miscellaneous
	11	Point Reyes- booklets, maps, and reports
34	1	Point Reyes sewage disposal plant plans
	2	Point Reyes station sewer disposal project, 1976
	3	Guide to Point Reyes peninsula and the San Andreas fault zone [2 copies]
	4	Geologic guidebook to Point Reyes, Ca., 1989.
	5	Geologic guidebook to Point Reyes, Ca., Second Edition, 1990
	6	Marine Geology of Tomales Bay
	7	Summary of existing data on Tomales Bay
	8	Tomales Bay environment study, compendium of reports, 1972.
	9	Santa Rosa- maps
35	1	Medocino County- report for the Mendocino county board of supervisors.
	2	Irish Gulch Project – Correspondences
	3	Irish Gulch Project – “Revised Environmental Impact Report for Extension of Irish Beach” by James R. Barrett et. al.
	4	Irish Gulch Project – Reports
	5	Irish Gulch Project – Misc.
	6	Middle Fork Eel River- reports
	7	Proposal: Appropriate Rural Technology Middle Fork Eel River Watershed
	8	Drainage Reports of Garcia River Basin
	9	Trinidad, California- soil development and weathering of the marine terrace sequence
	10	“Permo-Triassic Accretionary Subduction Complex, Southwestern Klamath Mountains, Northern California” by James E. Wright
	11	Medicine Lake Volcano, CA- handouts, charts, maps, and informative papers.
	12	Douglas Fir Region – Papers

36	1	Douglas Fir Region- Statements
	2	“Water Management for Fishery Enhancement on North Coastal Streams” by Bill Brown, May 1974
	3	<i>Seashore plants of the Northern California</i> , by E. Yale Dawson.
	4	Technical Report on Cooperative Beach Erosion Study of Coast of Northern California.
	5	“Relative Motions Between Oceanic and Continental Plates in the Pacific Basin” by David Cal Engebretson (PhD Dissertation, December 1982)
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	3	“Cenozoic Tectonic Rotations of Oregon and Washington” by James Robert Magill (PhD Dissertation, June 1981)
	4	Alaska
	5	Alaska – Papers
	6	“Plate Kinematics of the Denali Fault System” by James H. Stout and Clement G. Chase, February 1980
	7	Draft Final Report: “Potential Onshore Effects of Oil and Gas Production on the Atlantic and Gulf of Alaska Outer Continental Shelf” December 1973
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	4	California – Street Maps, 1970, 1971, 1975, 1976
	5	Misc. California Cities – Street Maps, 1969, 1972, 1973
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	7	Out of State Street Maps, 1970, 1973, 1974
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	6	AC Transit Transit Guides
	7	Amtrak booklets
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	9	American Geological Institute – Brochures/Publications
	10	Foreign Brochures
	11	Electricity Brochures
	12	Misc. Booklets
40		Series 5: Papers
	1	“Formation of Spaced Cleavage and Folds in Brittle Limestone by Dissolution” by Walter Alvarez et. al., November 1976
	2	“Major Flood Effects on Subsequent Suspended Sediment Discharge” by Henry W. Anderson, 1968
	3	“Correlation of Soils of Stratigraphic Importance in Western Nevada and California and their Relative Rates of Profile Development” by Peter W. Birkeland
	4	“Conceptual Economic Issues in Conserving the California Condor” by Richard C. Bishop
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	9	“Construction of Sediment Budgets for Catchments” by William E. Dietrich et. al., Spring 1980
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	15	“A State Perspective on Mining Research Needs of the Forest Service” by Priscilla C. Grew, April 1982
	16	“The Relevance of Pure Science” by Priscilla C. Grew, June 13, 1980
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	18	“Soil Conservation” by Norman Hudson, 1971
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	20	“Hydrologic Research on Instrumented Watersheds” by Luna B. Leopold, October 1970
	21	“The California Department of Forestry’s Watershed Mapping Project under the Supervision of Robert Malain” November 1972
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	6	“General Two-Dimensional Stochastic Model for the Transport and Dispersion of Bed-Material Sediment Particles” by William W. Sayre and W. Jay Conover
	7	“Environmental Effects of the Production of Energy and Minerals in the United States” by S. Fred Singer, June 1971
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	10	“An Annotated Bibliography of the Effects of Off-Road Vehicles on the Environment” by Robert H. Webb and Howard G Wilshire
	11	“Impacts of Off-Road Vehicles on Vegetation” by Howard G. Wilshire et. al.
	12	“The Physiography of the Watershed and Relation to Redwood Preservation” by Paul J. Zinke, May 1966
	13	“Analyses of Soils in the Madera, Merced, and Eastern Stanislaus Areas, California” with other documents
	14	“Buffers Discussed by the Redwood National Park Study Team” Draft, April 1972
	15	“Carbon Dioxide Hydrate and Floods on Mars”

	16	“The Effects of Clearcut Harvesting on Forest Soils”
	17	“Endangered, Rare, and Threatened Animals of California” March 1982
	18	“Plutonic Rocks: Classification and Nomenclature recommended by the IUGS Subcommittee on the Systematics of Igneous Rocks” October 1973
	19	“Roadlog, Beginning at Le Grand”
	20	“Sea Shore and Coasts: Challenges in Shoreline Development and Conservation” August 1968
42	1	Joint Bureau of Mines – Geological Survey: Mineral Resource Classification
	2	Papers on Debris in Streams
	3	Papers on Grammar by Frank C. Calkins
	4	Primer on Environmental Law in California
	5	Excerpt from <i>Sewage Treatment Plant Design</i>
	6	Untitled Papers
	7	Robert Coats Folder
	8	Robert Curry Documents – Papers
	9	Robert Curry Documents – Statements
	10	Robert Curry Documents – Misc.
	11	Portions of Dave Rogers MSC Thesis
43	1	“Applications of Tailings Flow Analyses to Field Conditions” Sam Bryant’s PhD Thesis 1/3
	2	“Applications of Tailings Flow Analyses to Field Conditions” Sam Bryant’s PhD Thesis 2/3
	3	“Applications of Tailings Flow Analyses to Field Conditions” Sam Bryant’s PhD Thesis 3/3
	4	Other Student Papers
44	1	Earthquakes – Papers 1/2
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	3	Earthquakes – Maps and Diagrams
	4	Earthquakes – Brochures
	5	Earthquakes – Newspaper Clippings
	6	Earthquakes – Misc.
	7	The Plate Tectonics Game by Allan Cox, 1981 1/2
	8	The Plate Tectonics Game by Allan Cox, 1981 2/2
45		Series 6: Miscellaneous
	1	Adopt – A – Beach News
	2	“Flyer” Magazine, August 1951
	3	“The National Geographic Magazine” August, 1953
	4	Greenbelt Alliance

	5	“The S.F. Bay Area Directory of Environmental Activists” Fall 1976
	6	Amended Constitution and By-Laws of the California Academy of Sciences, October 1976
	7	Exploratorium
	8	“Three Dimensional Models of Simple Crystal Forms” Construction Kit, 1957
	9	Teacher’s Manual: Natural Regions of the United States and Canada
	10	“The Strands Walk”
	11	International Environmental Resources Network
	12	College of the Atlantic Catalog, 1977-1978
	13	Solar Heating Information
	14	Newspaper Clippings
	15	Miscellaneous Xerox Copies
	16	Miscellaneous Geological Survey Papers.
		Series 7: Small Notebooks
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47		Fourteen (14) small notebooks
48		Fourteen (14) small notebooks
49		<ul style="list-style-type: none"> • Three (3) small notebook • One (1) field book • One (1) small binder • One (1) small envelope
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	9	Tower Peak - 1962 (Set 3/3)
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	13	Virgin Narrows - 1967
	14	Bryce Canyon - 1967
	15	Yellowstone - 1967 (Grand Canyon, Tower Falls, Mammoth Hot Springs)

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	2	Marin - Dillon Beach 1970
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	4	Mammoth Mountain - Deadman Pass 1971
	5	Pt. Reyes National Seashore - Bolinas (1974-1987)
	6	Cinko L. - 1973
	7	Baker Beach (Set ½) - 1979
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	9	“Streetcar to Subduction” - Ft. Funston, Sutro Baths Angel Island, Legion of Honor (1979-1980)
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	11	Mudflows - First Valley, Inverness 1982
	12	Various Locations: Diablo Pt., Marin Headlands, Pajaro Valley, Sierra de Salinas, San Andreas Fault, Coyote Hills to San Jose - 1982
	13	Santa Lucia Mountains - 1982
	14	San Bruno Mountain - 1982
	15	Amtrak Return Trips: Ontario, Sacramento (Set ½) - (1982-1983)
	16	Amtrak Return Trips: Missouri, Oxnard, Pt. Arguello (Set 2/2) - (1989 - 1991)
52	1	Slides From Talks: AGU Marin Headlands, SEPM Talk on Subsidence at Golden Gate, AAAs Talks - (1983 - 1985)
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	3	GGNRA Series (1983 - 1988)
	4	Bryant and Army Housing Project - 1984
	5	Calera Valley - 1985
	6	Ft. Funston/Ocean Beach - (1985 - 1988)
	7	Yerba Buena Center - 1986
	8	Land’s End Beach - 1986
	9	Quarry, Beach Views, Landslide & Golden Gate Bridge - 1988
	10	Monticello Dam & Crissy Field Fireworks - (1988-1989)
	11	Earthquake Damage & Bay Bridge Walk - 1989
	12	Alcatraz, Redwood Regional Park Hike (1991 -1992)
	13	SFHC - Bay Area Hikes: Rockridge, Bay Area Ridge Trail, Indian Valley (Set ½) - (1991 - 1992)
	14	SFHC - Mt. Diablo Loop & Whale Watching (Set 2/2) - (1993 - 1994)
53	1	Marin Headlands - Bonita Cove, Tenn. Valley, Green Gulch, Geol. 118, - 1978
	2	Marin Headlands - Mt. Tamalpais, Baker’s Beach, Ft. Mason - 1979

	3	Marin Headlands - Geol. 118, Kirby Cove - 1979
	4	Marin Headlands - Geol. 101, Maguire Park, Bonita Cove, Sunol Valley Regional Park - 1982
	5	Marin Headlands - J Church line , Orinda, Sunol Park - 1982
	6	Marin Headlands - Tenn. Cove, Sunol Park, Mt. Tamalpais, Bonita Cove - 1982
	7	Marin Headlands - Bonita Cove & Yosemite Park - (1983 - 1984)
	8	Marin Headlands - 1985
	9	Marin Headlands - Twin Peaks, Ocean Beach, Ft. Funston, Golden Gate Bridge - 1985
	10	Marin Headlands - Merced trip, Bonita Cove - 1986
	11	Marin Headlands - Trip to Rainier, St. Helens, Tenn. Valley - 1986
	12	Marin Headlands - Golden Gate Bridge - 1993
54	1	W.C. Bradley Trip - Jackson Meadow, Mammoth Road - 1966
	2	Summer Field Camps - Yosemite, Wyman Canyon - 1966
	3	Friends of Pleistocene - Trip to Oregon, Geol. 117 - 1970
	4	Geol. Class 118 - Plant and Flower Species
	5	Geol. Class/Davis Students, Marin Headlands, Tenn. Valley, Livermore Valley, Ft. Funston, Boat Trip, Oyster Point - 1981
	6	Ben Smith's Class - Table Mountain Trip, Marin Headlands, Baker Beach, Golden Gate Bridge - 1982
	7	Geol. 119 and Geol. 101 - Maguire Park, Welch Creek, Wedge Valley - 1982
	8	Field Trips w/ Scott Stine in San Jose & Santa Cruz - 1982
	9	Geol. Class 119 & 110 - Little Yosemite Valley, Views from Grizzly Peak, Tenn. Cove, Sunol Valley Regional Park - 1982
	10	Field Trip w/ Ernie Rich - Rodeo Cove - 1983
	11	Angel Island Overnight Trip & Geol. Beach Walk, Pt. Reyes National Seashore - 1986
	12	IGC Field Trips - Marin Headlands, Angel Island, Kehoe Beach, Presidio, Pt. Reyes - (Set 1/2) (1988-1989)
	13	IGC Field Trips - Napa Valley, San Andreas Rift Valley, Olema, Larkspur Ferry, Berkeley Hills, Hayward Fault - (Set 2/2) 1989
	14	Ebbet's Pass - 1989
	15	BLTAC Field Trip - Lone Tree Creek, Rockaway Beach, Moss Beach - 1989
	16	Field Trip w/ Peter England - Marin Headlands, Point Lobos, Pt. Reyes - 1991
	17	Carmel (Point Lobos) & Point Reyes - 1991

	18	Meteoritical Assn. Trip - Henry Cowell Redwoods, Moss Landing - 1991
	19	Cal Tech Tour - Western Santa Monica Mountains - 1991
55		Series 9: Photographs
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	2	Thornton Beach/Mt. Tamalpais with negatives and notes (b/w) 2/2
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	4	GGNRA Roll 2 with negatives (color) – Marin Headlands
	5	GGNRA Roll 3 with negatives (color) – Marin Headlands
	6	GGNRA Roll 4 with negatives (color) – Marin Headlands
	7	GGNRA Roll 5 (color) – Marin Headlands
	8	GGNRA Roll 6 with negatives (color) – Lands End/Sutro Baths
	9	GGNRA Roll 8 with negatives (color) – Marin Headlands
	10	GGNRA Unmarked Prints and Negatives (b/w and color)
	11	Bolinas Lagoon with map (b/w)
	12	Unlabeled: Erosion Studies/Bolinas? (b/w)
	13	Five Mounted Photographs: Rock Formations/Geology Class in Field (b/w)
	14	Other California Geological Photographs with Caption Sheet and Letter (b/w)
	15	Submarine Lava (b/w)
	16	Europe – Greece/Salzburg with negatives (b/w)
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	3	Marin July 1965 3/3
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		<i>Maps</i>
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	9	Concord and Concord Fault, 1973, 1980
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	13	Franklin Point, 1955, 1968
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	23	Livermore, 1973
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2	1	California Cities (G-P), 1943-1969
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3	1	Geologic Atlas: Bidwell Bar, California, 1898
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Series 13: San Francisco-Bay Area Counties [continued]

Fifteen [15] Map Rolls

4.5 LF

Orthophotographs:

An orthophotograph is a uniformed scale version of an aerial photograph. Unlike aerial photos, orthophotographs can be used to measure true distances because it is an accurate representation of the earth's surface. Orthophotographs are commonly used for a system designed to capture, store, analyze, manage, and present all kinds of geographically referenced data, also known as GIS (Geographic Information System). On orthophotographs there is usually the date of when the photo was taken and an identification mark.

In this collection, the dates of the photographs were taken in the same month and year but on different days. Each map has its own identification mark based on when the orthophoto was taken and where it was taken. The orthophotographs of San Francisco are identified by an "SF" while the orthophotographs of the San Mateo county are identified by a "SM".

Orthophotographs of San Francisco

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1	SF 1-2, May 11, 1965

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2	SF 1-8, May 11, 1965
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4	SF 1-74, May 11, 1965
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11	SF 12-72, May 17, 1965

Orthophotographs of San Mateo County

Roll #	Description
12	SM 1-12, May 11, 1965
12	SM 1-14, May 11, 1965
12	SM 1-16, May 11, 1965
13	SM 1-53, May 11, 1965
13	SM 1-55, May 11, 1965
13	SM 1-57, May 11, 1965
14	SM 1-82, May 11, 1965
14	SM 1-84, May 11, 1965

14	SM 1-86, May 11, 1965
14	SM 10-16, May 16, 1965

Maps of San Francisco and Marin: No Dates

Roll #	Description
15	Map of San Francisco Area, includes: Alcatraz, Angel Island, Crissy Field, Fort Funston, Fort Mason, Fort Miley, Fort Point, Fort Scott, , Golden Gate Park, Harding Park, Lincoln Park, Marina District, Presidio, Ocean Beach, Richmond District, Sunset District, Sutro District.
15	Map of Marin Area, includes: Fort Baker, Fort Barry, Fort Cronkhite, Marin Peninsula, Mill Valley, Muir Woods, Mt. Tamalpais, Point Reyes, Sausalito.

Series 17: Out of State [continued]

Two [2] map rolls
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Out of State Topographs, Geological, and Chart Maps

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16	Topograph Map of Maui, Hawaii, 1957
16	Topograph Map of Zion National Park, Utah, 1977
16	Geological Map of Zion National Park, Utah, 1978
17	Geological Map of Eastern Grand Canyon National Park, Arizona, 1986
17	Mesozoic-Cenozoic Cycle Chart, 1986