

Horace G. Richards papers, 1928-1978

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Finding aid prepared by Laurie Rizzo

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September 17, 2010

Describing Archives: A Content Standard

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Summary Information

Repository	Academy of Natural Sciences, Philadelphia
Creator	Richards, Horace Gardiner, 1906-1984
Title	Horace G. Richards papers
Date [inclusive]	1928-1984
Extent	41.0 Linear feet
Language	English
Language of Materials note	A majority of the collection is in English. There are several letters of correspondence in Russian and French.
Abstract	Horace G. Richards (1906-1984) was a geologist at the Academy of Natural Sciences, Philadelphia and an authority on the geologic formations of the Atlantic coastal plain. His research specialty focused on geology and paleontology of the Quaternary Period (approximately the past 1.8 million years), but his research interests also included Cenozoic mollusca, and marine Pleistocene geology and paleontology of the Atlantic coastal plain. Additionally, he studied climate change and coastal shorelines, which required extensive fieldwork, taking him all over the world. Richards was also an adjunct professor at two universities and frequently guest lectured at various institutions. The Horace G. Richards papers document various aspects of his professional career, from his graduate education at the University of Pennsylvania to his retirement from the multiple positions he held. Materials in this collection include: general business correspondence; photographs and slides from his field work and expeditions; photographic catalog notebooks; scrapbooks of newspaper clippings and announcements; travel expenses and reports; and the records of the Atlantic Coastal Plains Project, the International

Union of Quaternary Research, the *Annotated Bibliography of Quaternary Shorelines* and various professional societies. Also in the collection are certificates, academic materials, student papers, radio scripts, audio reels, and manuscripts of Richards' writings and presentations. The majority of the collection is made up of Richards' correspondence and extensive slides from his travels all over the world. This collection is of special interest for those interested in the history of science, especially the Quaternary Period, geology, paleontology, mollusca, invertebrate fossils, climate change and changing shore lines.

Preferred Citation note

[Description and date of item], [Box/folder number], [Collection number], Horace G. Richards papers, 1928-1978, Academy of Natural Sciences of Philadelphia.

Biographical note

Horace G. Richards (1906-1984) was a geologist at the Academy of Natural Sciences, Philadelphia and an authority on the geologic formations of the Atlantic coastal plain. His research specialty focused on geology and paleontology of the Quaternary Period (approximately the past 1.8 million years), but his research interests also included marine Pleistocene geology and paleontology of the Atlantic coastal plain.

Horace Gardiner Richards was born on March 21, 1906 in Philadelphia to Horace Clark Richards and Annie Gardiner Richards. His interest in science was piqued early as his “family had a summer home at Cape May, New Jersey, where abundant fossil beds,” (Fairbridge, page 1) existed. He obtained his education at William Penn Charter School and the University of Pennsylvania, where he earned a Bachelor of Liberal Arts in 1927, a Master of Science in 1929, and a Doctorate of Philosophy in zoology and geology in 1932.

From 1929 to 1931, Richards worked with the United States Bureau of Fisheries, surveying marine life of the New Jersey coast. From 1931 to 1932, he served as the Associate Curator of Mollusks at the U.S. National Museum in Washington, DC. He then went on to serve as research associate at the New Jersey State Museum in Trenton, New Jersey from 1934 to 1940. He served as a geologist for the Groundwater Division of the United States Geological Survey, located in Trenton, New Jersey from 1949 to 1971.

In 1937, he began working at the Academy of Natural Sciences. He served the Academy in a number of different capacities for the rest of his life. He worked as a Research Associate from 1937 to 1942, as Associate Curator of Geology and Paleontology from 1942 to 1960, as Chairman of the Department of Geology and Paleontology from 1960 to 1972, and Curator Emeritus from 1972 until his death. According to Richards, “during [his] tenure at the Academy, [he did] field work on Quaternary deposits in most parts of the world (e.g. United States, Arctic, Canada, Caribbean Islands, Mexico, Central America, South America, Europe, Middle East, Africa, Union of Soviet Socialist Republics, Japan, Taiwan, Fiji Islands, Easter Island, New Zealand) collecting invertebrate fossils from a great many places and bringing them back to the Academy,” (Richards, page 1).

While working with the Academy of Natural Sciences, he organized, with its cooperation, a survey of the Coastal Plain of North Carolina and served as Associate in Paleontology at the North Carolina State Museum in Raleigh, North Carolina from 1941 to 1943. Several years later, Richards developed a similar project at the Academy. The Atlantic Coastal Plain Project began in 1947 and collected and studied fossils and well samples from the coastal plain between Long Island and Florida. The project involved intensive field work and study of deep water wells and oil tests, which resulted in the gathering of large collections of Cretaceous, Tertiary and Quaternary invertebrate fossils. The Atlantic Coastal Plain Project was supported by various oil companies, state geological surveys and other grant funding agencies, such as the Geological Society of America, the American Philosophical Society, the Office of Naval Research and the National Science Foundation. In exchange for a financial contribution towards the project, oil companies received a quarterly report of the findings. These reports provided the companies with valuable information that would have been more costly to obtain themselves. Richards' Atlantic Coastal Plains Project was so successful that in 1960, the Atlantic Coastal Plain Geological Association was formed,

which held Field Conferences once year. Richards retired as director of the Atlantic Coastal Plains Project in 1976, and for a short time, the work was continued by Earle A. Shapiro.

In addition to his work at the Academy, Richards lectured, part-time, on geology at the University of Pennsylvania from 1949 to 1971, following a family tradition as both his father and grandfather had taught there as well. In 1960, he was appointed Senior Research Associate at Lamont-Doherty Geological Observatory of Columbia University in Palisades, New York. He also guest lectured and gave presentations at various other institutions around the world. He earned the reputation of being highly devoted to his students, many of who worked with him and contributed to his geological field work. He worked with his sister, Marie A. Richards to raise money for a "Student Research Fund" to support his student assistants.

Richards was active in several professional organizations. He was elected fellow of the Geological Society of America in 1942 and served as a member of the Paleontological Society, the American Malacological Union, the Association Senegalaise pour Etude Quaternaire, and the Cape May Geographic Society. In 1953, he began working closely with the International Union for Quaternary Research (INQUA). INQUA was founded in 1928 as a society for scientists who study environmental and climate changes throughout the Quaternary period. He also served from 1961 to 1969, as president of INQUA and oversaw the subcommissions, the Shorelines Commission, and Recent Sea Level Changes.

Throughout his career, Richards published almost 300 articles and seven books. He devoted approximately fifty years of his life to the compilation and editing of the *Annotated Bibliography of Quaternary Shorelines*, which appeared in five volumes and supplements. The compiling of the *Annotated Bibliography of Quaternary Shorelines*, and the succeeding supplements, was supported by several grants issued by the National Science Foundation.

In 1945, Richards received the "President's Reward" from the American Association of Petroleum Geologists for his "work on the Cenozoic of the Atlantic Coastal Plain," (Fairbridge, page 1). He also received the "Distinguished Alumnus Award" from the William Penn Charter School in 1971 and was named honorary research associate in paleontology at the Delaware Museum of Natural History in 1974.

Horace G. Richards died on November 19, 1984 in Philadelphia. He is remembered as "a leading East Coast specialist in Cenozoic mollusca," (Fairbridge, page 1).

Bibliography:

Fairbridge, Rhodes W. "Memorial to Horace Gardiner Richards (1906-1984)." The Geological Society of America, 1984.

Richards, Horace G. Resume (located in Biographical File of the Archives of the Academy of Natural Sciences of Philadelphia), circa 1974.

Scope and Contents note

The Horace G. Richards papers document various aspects of his professional career, from his graduate education at the University of Pennsylvania to his retirement from the multiple positions he held. The bulk of the collection is made up of his correspondence and his 35-mm slides from expeditions and field work around the world. Of particular interest are the raw data materials produced by the "Atlantic Coastal Plain Project" related to deep well and oil well samples; the documentation of his work on the *Annotated Bibliography of Quaternary Shorelines*; his scrapbooks, which chronicle Richards' career, especially his activities at the Academy of Natural Sciences; and the extensive slides and photographs within the collection which could provide evidence of past shorelines and geologic formations in many parts of the world. This collection would be of special interest for those interested in the history of science and scientific research, especially the Quaternary Period, geology, paleontology, mollusca, invertebrate fossils, climate change and changing shore lines. Series in this collection include, "Correspondence," "Atlantic Coastal Plains Project (ACPP)," "International Union of Quaternary Research," " *Annotated Bibliography of Quaternary Shorelines*," "Professional Societies," "Travel," "Presentations," "Radio scripts," "Writings," "Academics," "Certificates," "Student papers," "Scrapbooks and newspaper clippings," "Notebooks," "Audio," and "Images." The series are arranged in descending order of apparent comprehensiveness of the textual materials, keeping related series together, followed by the series of various media.

Please refer to the series' scope and content notes and folder lists for additional information on the contents of the collection.

Administrative Information

Publication Information

Academy of Natural Sciences, Philadelphia

Conditions Governing Access note

This collection is open for research use.

Conditions Governing Use note

Copyright restrictions may apply. Please contact the Archives with requests for copying and for authorization to publish, quote or reproduce the material.

Immediate Source of Acquisition note

Much of the correspondence and materials related to the Geology and Paleontology Department at the Academy of Natural Sciences was transferred to the archives by Gay Vostreys in 1980. Iconographic materials from the Malacology Department, including the travel materials, the Atlantic Coastal Plains Project and the International Union of Quaternary Research were transferred by Elana Benamy. Writings,

slides, certificates, scrapbooks, photo albums, and lantern slides were donated by Marie A. Richards in 1985. Additional Quarterly Reports from the Atlantic Coastal Plains Project were deposited by John Sime in 2010.

Processing Information note

The processing of this collection was made possible through generous funding from The Andrew W. Mellon Foundation, administered through the Council on Library and Information Resources' "Cataloging Hidden Special Collections and Archives" Project.

This collection is minimally processed to the folder level.

Related Materials

Related Archival Materials note

Academy of Natural Sciences of Philadelphia: Academy of Natural Sciences of Philadelphia Geology and Paleontology Department records; Academy of Natural Sciences of Philadelphia Malacology Department records; H.G. Richards papers (Collection 697).

Separated Materials note

The following published works have been removed from the collection and are cataloged in the Academy of Natural Sciences of Philadelphia Ewell Sale Stewart Library.

Academy of Natural Sciences of Philadelphia. 1937. The International Symposium on Early Man. March 17, 18, 19 and 20, 1937. Academy of Natural Sciences. Philadelphia, PA.

Academy of Natural Sciences of Philadelphia. 1972. *Frontiers*. Vol. 36, No. 5. Summer 1972. The Academy of Natural Sciences, Philadelphia, PA.

Academy of Natural Sciences of Philadelphia. 1978. *Frontiers*. Vol. 42, No. 2. Winter 1978. The Academy of Natural Sciences, Philadelphia, PA.

Academy of Natural Sciences of the Armenian SSR. Institute of Geological Sciences. 1977. *Geology of the Quaternary Period (Pleistocene)*. For X Congress of INQUA, Birmingham, England.

Fairbridge, Rhodes W. (ed.). 1975. *The Encyclopedia of World Regional Geology. Part I. Western Hemisphere (Including Antarctica and Australia)*. Dowden, Hutchinson & Ross, Inc., Stroudsburg, PA.

Journal of Coastal Research: An International Forum for the Littoral Sciences. 1986. Special Issue No. 2. (pp. 1-88). Coastal Education and Research Foundation. Charlottesville, VA. Autumn 1986.

- MacCurdy, George Grant (ed.). 1937. *Early Man: As depicted by leading authorities at the International Symposium, The Academy of Natural Sciences, Philadelphia, March 1937*. J. B. Lippincott Company London. Philadelphia and New York.
- Oaks, Robert Q., Jr. and Jules R. DuBar. 1974. *Post-Miocene Stratigraphy Central and Southern Atlantic Coastal Plain*. Utah State University Press. Logan.
- Richards, Horace G. 1938. *Animals of the Seashore*. Bruce Humphries, Inc. Publishers. Boston.
- Richards, Horace G. and Anne Harbison. 1942. *Miocene Invertebrate Fauna of New Jersey*. Vol. XCIV. (pp. 167-250, plates 7-22). *Proceedings of The Academy of Natural Sciences of Philadelphia*.
- Richards, Horace G. 1947. *One Hundred South Jersey Novels. A bibliography of fiction with a Southern New Jersey Setting*. New Jersey Folklore Society, Trenton.
- Richards, Horace G. 1953. *Record of the Rocks: The Geological Story of Eastern North America*. The Ronald Press Company. New York.
- Richards, Horace G. 1956. *Geology of the Delaware Valley*. Mineralogical Society of Pennsylvania. Philadelphia.
- Richards, Horace G. 1959. *The Story of Earth Science*. J. B. Lippincott Company. Philadelphia and New York.
- Richards, Horace G. 1958. *The Cretaceous Fossils of New Jersey. Paleontology Series. Part I. Porifera, Coelenterata, Annelida, Echinoidea, Brachiopoda and Pelecypoda State of New Jersey*. Bureau of Geology and Topography. Trenton.
- Richards, Horace G. 1962. *The Cretaceous Fossils of New Jersey. Paleontology Series. Bulletin No. 61, part II. Gastropoda, Scaphopoda, Nautiloidea, Ammonoidea, Belemnitidae, Crustacea, Vertebrata and Miscellaneous Fossils*. Bureau of Geology and Topography.
- Richards, Horace G. 1962. *Studies on the Marine Pleistocene: Part I. The Marine Pleistocene of the Americas and Europe, Part II. The Marine Pleistocene Mollusks of Eastern North America*. *Transactions of the American Philosophical Society. New Series, Vol. 52, Part 3*. July, 1962. The American Philosophical Society, Philadelphia, PA.
- Richards, Horace G. and Rhodes W. Fairbridge. 1965. *Annotated Bibliography of Quaternary Shorelines (1945-1964)*. Prepared for the VII International Congress of International Union for Quaternary Research (INQUA). Special Publication 6. Academy of Natural Sciences. Philadelphia, PA. Copy 1. (hard cover)
- Richards, Horace G. and Rhodes W. Fairbridge. 1965. *Annotated Bibliography of Quaternary Shorelines (1945-1964)*. Prepared for the VII International Congress of International Union for Quaternary Research (INQUA). Special Publication 6. Academy of Natural Sciences. Philadelphia, PA. Copy 2. (paperback)
- Richards, Horace G. 1968. *Catalogue of Invertebrate Fossil Types at the Academy of Natural Sciences of Philadelphia*. Special Publication 8. Academy of Natural Sciences. Philadelphia, PA.
- Richards, Horace G. and Rhodes W. Fairbridge. 1970. *Annotated Bibliography of Quaternary Shorelines. Supplement (1965-1969)*. Prepared for the VIII International Congress of International Union for

Quaternary Research (INQUA). Special Publication 10. Academy of Natural Sciences. Philadelphia, PA. Copy 1. (hard cover)

Richards, Horace G. and Rhodes W. Fairbridge. 1970. Annotated Bibliography of Quaternary Shorelines. Supplement (1965-1969). Prepared for the VIII International Congress of International Union for Quaternary Research (INQUA). Special Publication 10. Academy of Natural Sciences. Philadelphia, PA. Copy 2. (paperback)

Richards, Horace G. 1974. Annotated Bibliography of Quaternary Shorelines. Second Supplement (1970-1973). Prepared for the IX Congress of International Union for Quaternary Research (INQUA), Christ Church, New Zealand, December 2-10, 1973. Fulton Press Incorporated, Lancaster, PA.

Richards, Horace G. and Earl A. Shapiro. 1979. Annotated Bibliography of Quaternary Shorelines. Third Supplement (1974-1977). Prepared for the X Congress of International Union for Quaternary Research (INQUA), Birmingham, England, August 1977. Geo Abstracts, Bibliography No. 5. Geo Abstracts Limited. Norwich, England.

Controlled Access Headings

Corporate Name(s)

- Academy of Natural Sciences of Philadelphia.
- American Association of Petroleum Geologists.
- American Geological Institute.
- Atlantic Coastal Plain Geological Association.
- Geological Society of America.
- Geological Society of New Jersey.
- International Union for Quaternary Research.
- Philadelphia Geological Society.
- Shorelines Commission of INQUA.
- Sun Oil Company.
- United States. Bureau of Fisheries.
- United States. Office of Naval Research. Geography Branch.
- University of Pennsylvania.

Genre(s)

- Articles
- Clippings

- Correspondence
- Financial records
- Interviews
- Lectures
- Photograph albums
- Photographs
- Radio scripts
- Reports
- Research notes
- Scrapbooks
- Slides (photographs)

Geographic Name(s)

- Cape May (N.J.)

Personal Name(s)

- Morton, Samuel George, 1799-1851
- Richards, Horace Gardiner, 1906-1984

Subject(s)

- Atlantic Coastal Plain Project
- Coastal plains
- Crustaceans
- Dredging
- Geology
- Mollusks
- Oil wells
- Paleontology

Other Finding Aids note

A preliminary inventory of the Horace G. Richards collection was compiled by Stephanie A. Morris, January 1992. A copy resides in the Box 1, in front of folder 1.

Correspondence

Collection Inventory

Correspondence 1928-1983

Scope and Contents note

The "Correspondence" series contains Richards' incoming and outgoing correspondence with colleagues, scientists and students. The series is arranged into seven subseries, each representing a span of time: "1928-1935," "1936-1949," "1950-1959," "1960-1964," "1965-1969," "1970-1976" and "1977-1983". Within each subseries, incoming and outgoing correspondence is intermingled and arranged alphabetically by personal or corporate name, with the exception of the "1928-1935" subseries, which is arranged chronologically due to its small size. Researchers should note that in all subseries, whether arranged alphabetically or chronologically, correspondence is arranged only to the folder level; papers within folders are not arranged. Because this collection was minimally processed, researchers should note that while correspondence has been arranged generally alphabetically, the contents of specific files are not in perfect alphabetical order. Incidences of ongoing correspondence with particular individuals or companies, unfortunately, may be separated from each other. Researchers are therefore advised to review the entire contents of a file or alphabetical letter group to ensure that they have found all pertinent correspondence. In addition, other groups of Richards' correspondence can be found in the following other series: "Atlantic Coastal Plains Project (ACPP)," "International Union of Quaternary Research (INQUA)," " *Annotated Bibliography of Quaternary Shorelines*," "Professional Societies," "Travel," "Writings," and "Academics." Other series containing correspondence are subject specific and were previously separated from the "Correspondence" series.

1928-1935

General correspondence 1928-1935

1936-1949

	Box	Folder
Text	1	1

General correspondence 1929, 1933-1935

	Box	Folder
Text	1	2

Antevs, Ernst 1929-1935

	Box	Folder
Text	1	3

1936-1949

"A" general 1937-1945

	Box	Folder
Text	1	4

"A" general 1945-1948

	Box	Folder
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1936-1949

Text	1	5
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Allison, Edwin O., Annette Island, Alaska 1947

Text	Box	Folder
	1	6

American Philosophical Society 1948-1949

Text	Box	Folder
	1	7

Army Engineers 1943

Text	Box	Folder
	1	8

"B" general 1940-1949

Text	Box	Folder
	1	9

"B" general 1947-1948

1936-1949

	Box	Folder
Text	1	10

"Ba"-"Bl" 1936-1949

	Box	Folder
Text	1	11

"Bo"-"Bu" 1938-1949

	Box	Folder
Text	1	12

"C" general 1937-1944

	Box	Folder
Text	2	1

"C" general 1943-1946

	Box	Folder
Text	2	2

1936-1949

"C" general 1945-1946

	Box	Folder
Text	2	3

"C" general 1945-1948

	Box	Folder
Text	2	4

"C" general 1949

	Box	Folder
Text	2	5

"Co"-"Cu" 1940-1941

	Box	Folder
Text	2	6

"D" general 1936-1949

1936-1949

	Box	Folder
Text	2	7

"D" general 1947-1948

	Box	Folder
Text	2	8

"D" general 1949

	Box	Folder
Text	2	9

"E" general 1939-1944

	Box	Folder
Text	3	1

"E" general 1945-1946

	Box	Folder
Text	3	2

1936-1949

"E" general 1947-1949

	Box	Folder
Text	3	3

"F" general 1937-1944

	Box	Folder
Text	3	4

"F" general 1945-1946

	Box	Folder
Text	3	5

"F" general 1947-1948

	Box	Folder
Text	3	6

"F" general 1949

1936-1949

	Box	Folder
Text	3	7

"G" general 1936-1938

	Box	Folder
Text	3	8

"G" general 1936-1939

	Box	Folder
Text	3	9

"G" general 1940-1944

	Box	Folder
Text	3	10

"G" general 1945-1946

	Box	Folder
Text	3	11

1936-1949

"G" general 1947-1948

	Box	Folder
Text	3	12

"G" general 1949

	Box	Folder
Text	3	13

Glass, Herbert 1948-1949

	Box	Folder
Text	3	14

"H" general 1936-1939

	Box	Folder
Text	4	1

"H" general 1940-1942

1936-1949

	Box	Folder
Text	4	2

"H" general 1945-1946

	Box	Folder
Text	4	3

"H" general 1947-1948

	Box	Folder
Text	4	4

"H" general 1949

	Box	Folder
Text	4	5

"Ha" 1936-1943

	Box	Folder
Text	4	6

1936-1949

"He" 1940-1944

	Box	Folder
Text	4	7

"Hi" 1936-1944

	Box	Folder
Text	4	8

"I" general 1936-1949

	Box	Folder
Text	4	9

"J" general 1937-1943

	Box	Folder
Text	4	10

"J" general 1945-1946

1936-1949

	Box	Folder
Text	4	11

"J" general 1948-1949

	Box	Folder
Text	4	12

Johnson, Meredith 1940-1948

	Box	Folder
Text	4	13

"K" general 1937-1946

	Box	Folder
Text	4	14

"K" general 1947-1948

	Box	Folder
Text	4	15

1936-1949

"K" general 1949

	Box	Folder
Text	4	16

"L" general 1936-1938

	Box	Folder
Text	5	1

"L" general 1942-1944

	Box	Folder
Text	5	2

"L" general 1945-1948

	Box	Folder
Text	5	3

"L" general 1949

1936-1949

	Box	Folder
Text	5	4

Layne-Atlantic Company 1942-1943

	Box	Folder
Text	5	5

"M" general 1936-1938

	Box	Folder
Text	5	6

"M" general 1937-1942

	Box	Folder
Text	5	7

"M" general 1943-1946

	Box	Folder
Text	5	8

1936-1949

"M" general 1947-1948

	Box	Folder
Text	5	9

"M" general 1949

	Box	Folder
Text	5	10

"Mc" 1936-1949

	Box	Folder
Text	5	11

"Mc" 1947-1948

	Box	Folder
Text	5	12

"Mer"-"My" 1937-1943

1936-1949

	Box	Folder
Text	5	13

"Mn"-"Mz" 1942-1946

	Box	Folder
Text	5	14

"N" general 1936-1938

	Box	Folder
Text	6	1

"N" general 1937-1945

	Box	Folder
Text	6	2

"N" general 1945-1948

	Box	Folder
Text	6	3

1936-1949

"N" general 1949

	Box	Folder
Text	6	4

Navy 1943

	Box	Folder
Text	6	5

"O" general 1936-1938

	Box	Folder
Text	6	6

"O" general 1937-1944

	Box	Folder
Text	6	7

"O" general 1945-1948

1936-1949

	Box	Folder
Text	6	8

"P"-"Q" general 1936-1938

	Box	Folder
Text	6	9

"P"-"Q" general 1938-1944

	Box	Folder
Text	6	10

"P"-"Q" general 1943-1945

	Box	Folder
Text	6	11

"P"-"Q" general 1945-1946

	Box	Folder
Text	6	12

1936-1949

"P"-"Q" general 1947-1948

	Box	Folder
Text	6	13

"P"-"Q" general 1949

	Box	Folder
Text	6	14

Paleobotany 1945-1947

	Box	Folder
Text	6	15

"R" general 1936-1938

	Box	Folder
Text	6	16

"R" general 1939-1944

1936-1949

	Box	Folder
Text	6	17

"R" general 1943-1945

	Box	Folder
Text	6	18

"S" general 1945-1946

	Box	Folder
Text	7	

"R" general 1947-1948

	Box	Folder
Text	6	19

"R" general 1949

	Box	Folder
Text	6	20

1936-1949

"S" general 1936-1941

	Box	Folder
Text	7	1

"S" general 1947-1948

	Box	Folder
Text	7	3

"S" general 1949

	Box	Folder
Text	7	4

"Sa"-"Se" 1940-1944

	Box	Folder
Text	7	5

"Sa"-"Sm" 1944-1947

1936-1949

	Box	Folder
Text	7	6

"Sh"-"Sy" 1937-1940

	Box	Folder
Text	7	7

"Sh"-"Sy" 1941-1944

	Box	Folder
Text	7	8

Shell Oil Company 1944-1945

	Box	Folder
Text	7	9

Shell Oil Company of Georgia 1944

	Box	Folder
Text	7	10

1936-1949

Slides 1939-1940

	Box	Folder
Text	7	11

"Sn"-"Sz" 1944-1945

	Box	Folder
Text	7	12

Standard Oil Company of New Jersey 1946-1947

	Box	Folder
Text	7	13

Sun Oil Company 1942-1944

	Box	Folder
Text	7	14

Sun Oil Company 1945-1947

1936-1949

	Box	Folder
Text	7	15

Sun Oil Company 1949

	Box	Folder
Text	7	16

"T" general 1936-1949

	Box	Folder
Text	8	1

"T" general 1937-1944

	Box	Folder
Text	8	2

"T" general 1947-1948

	Box	Folder
Text	8	3

1936-1949

"T" general 1949

	Box	Folder
Text	8	4

Texas Company, The 1944-1946

	Box	Folder
Text	8	5

Thompson, David G., United States Department of Interior, Geological Survey 1934-1935

	Box	Folder
Text	8	6

"U"-"V" general 1938-1944

	Box	Folder
Text	8	7

"U"-"V" general 1947-1948

1936-1949

	Box	Folder
Text	8	8

"U"-"V" general 1949

	Box	Folder
Text	8	9

"W" general 1936-1940

	Box	Folder
Text	8	10

"W" general 1941-1946

	Box	Folder
Text	8	11

"W" general 1947-1948

	Box	Folder
Text	8	12

1936-1949

"W" general 1949

	Box	Folder
Text	8	13

"X"-"Y"-"Z" general 1937-1945

	Box	Folder
Text	8	14

"X"-"Y"-"Z" general 1945-1946

	Box	Folder
Text	8	15

"X"-"Y"-"Z" general 1947-1948

	Box	Folder
Text	8	16

"X"-"Y"-"Z" general 1949

1950-1959

	Box	Folder
Text	8	17
1950-1959		
"A" general 1950-1959		
	Box	Folder
Text	9	1

Atlantic Refining Company 1950-1951

	Box	Folder
Text	9	2
"B" general 1950-1959		
	Box	Folder
Text	9	3

"B" general 1950-1959

	Box	Folder
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1950-1959

Text	9	4
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Bordes, F.H. 1947-1952

	Box	Folder
Text	9	5

"C" general 1950-1959

	Box	Folder
Text	9	6

"C" general 1950-1959

	Box	Folder
Text	9	7

"C" general 1953-1956

	Box	Folder
Text	9	8

"C" general 1957

1950-1959

	Box	Folder
Text	9	9

"D" general 1950-1952

	Box	Folder
Text	10	1

"D" general 1954-1956

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Atlantic Coastal Plains Project (ACPP) 1928-1976**Scope and Contents note**

The "Atlantic Coastal Plains Project (ACPP)" records, document Richards' work studying the Quaternary Period, and collecting fossils and well samples from the coastal plain of the eastern United States, between Long Island and Florida. These materials are arranged into eight subseries, "Correspondence," "Quarterly reports," "Regional data and correspondence," "Office of Naval Research," "Related articles," "Bibliography of the Geology of the Atlantic Coastal Plains," "Atlantic Coastal Plains Geological Association," and "Commissioned reports". The "Correspondence" subseries houses incoming and outgoing correspondence with various scientists, oil companies and other sponsoring agencies regarding financial contributions, work progress, both deep water well and oil well samples; and other business related to the ACPP. The next subseries, "Quarterly reports" is comprised of an incomplete set of official quarterly project reports dated from 1948 to 1976. "Regional fieldwork data and correspondence" consists of drill logs, well results, lists of fossils, sample data charts, lists of localities, maps, progress reports, notes and correspondence related to specific field work locations, such as places in New Jersey, New York, North Carolina, Virginia and others. The "Office of Naval Research" material consists of grant applications, progress reports, budgets and correspondence with Office of Naval Research geologists and other staff. In the "Related Articles" subseries, researchers will find manuscript versions of articles related to ACPP field work. It is not clear if all the articles were published. The "Bibliography of the Geology of the Atlantic Coastal Plains" was a publication compiled by Richards and the subseries maintains a manuscript copy of the work, as well as related correspondence. The "Atlantic Coastal Plains Geological Association" subseries contains correspondence related to the association's activities such as meetings, field conferences and published field guides. "Commissioned reports" are various

Correspondence

reports written for specific oil companies. The reports contain a significant amount of raw data about the geology of a specific area and its potential as an oil resource. The ACPP materials span from 1928 to 1976 and are arranged chronologically, with the "Regional data and correspondence" arranged alphabetically by region. There may be related material in the "Correspondence" and "Travel" series, as well as "Images".

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The next series, "International Union of Quaternary Research (INQUA)," consists of materials related to INQUA meetings and the meetings of INQUA's sub-commissions. This consists of mostly correspondence; as well as membership lists; trip reports and attendance rosters; some circulars; bulletins and official reports; and the constitution and by-laws for the Commission on Shorelines. The materials date from 1946 to 1981 and are arranged chronologically. Related material may be found in "Correspondence" and "Travel."

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Annotated Bibliography of Quaternary Shorelines (ABQS) 1963-1979

Scope and Contents note

The " *Annotated Bibliography of Quaternary Shorelines*" series includes lists of articles, and correspondence, mainly with the National Science Foundation, but also with various scientists to collect citations. This series also contains grant applications, project reports, budget and fiscal reports, research notes, a manuscript of the second supplement of the *Annotated Bibliography of Quaternary Shorelines* and index card research notes. The materials date from 1963 to 1979 and are arranged chronologically. Related materials may be found in "Correspondence."

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Professional Societies 1944-1980

Scope and Contents note

The "Professional Societies" series is made up of materials related to Richards' involvement with various professional associations such as: American Association of Petroleum Geologists, American Geological Institute, Association of Geology Teachers, Geological Society of America, Geological Society of New Jersey, and the Philadelphia Geological Society, among others. The files typically include correspondence, meeting programs, bulletins, newsletters, lecturer itinerary, preliminary reports, announcements, by-laws, membership lists, trip guides, grant applications, and distributed papers, which are research papers sent to members by the sponsoring organization. Materials date from 1944 to 1980

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and are arranged alphabetically by society. Although there is correspondence related to each of the professional groups represented in this series filed here, researchers are advised to peruse the general "Correspondence" series as well.

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State Geologists, membership list 1958

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Text	30	61

Virginia Academy of Science, Section of Geology, trip guide, Roanoke 1948 May

	Box	Folder
Text	30	62

Travel 1929-1977

Travel

Scope and Contents note

The documents housed in the "Travel" series, pertain to trips to various places around the world that Richards organized and/or participated in. A majority of the records are expense reports, however, there are also work reports, correspondence, itinerary, letters of introduction, a handwritten diary of his trip to Europe, and a few "Crossing the Line" certificates, issued on board airplanes when Richards crossed the equator. The materials date from 1929 to 1977 and are arranged chronologically. Additional materials may be found in "Correspondence," "Atlantic Coastal Plains Project (ACPP)" and "International Union of Quaternary Research (INQUA)."

Report, dredging cruise off New Jersey 1929-1930

	Box	Folder
Text	31	1

Correspondence, Wilmington, North Carolina trip 1930

	Box	Folder
Text	31	2

Correspondence, A. E. Parr, dredging in Delaware Bay 1930-1931

	Box	Folder
Text	31	3

Correspondence, survey of the marine invertebrate animals of New Jersey 1931

Travel

	Box	Folder
Text	31	4

Letters of introduction 1932, 1935

	Box	Folder
Text	31	5

Expenses, James Bay 1933

	Box	Folder
Text	31	6

Expenses, Cuba 1933

	Box	Folder
Text	31	7

Letters of Introduction 1933-1963

	Box	Folder
Text	31	8

Travel

Newspaper clipping, Mangarevan expedition 1934

	Box	Folder
Text	31	9

Correspondence, Texas, Louisiana and New Jersey 1935-1939

	Box	Folder
Text	31	10

Expenses, Cozumel Island, Mexico, British Honduras 1936

	Box	Folder
Text	31	11

Expenses, Honduras 1937

	Box	Folder
Text	31	12

Expenses, Nicaragua 1938

Travel

	Box	Folder
Text	31	13

Expenses, Margarita Island 1939

	Box	Folder
Text	31	14

Correspondence, Gaspé expedition 1939

	Box	Folder
Text	31	15

Work reports 1940

	Box	Folder
Text	31	16

Expenses, Hudson Bay 1940

	Box	Folder
Text	31	17

Travel

Preliminary report, Texas 1940

	Box	Folder
Text	31	18

Correspondence, summer expedition 1940

	Box	Folder
Text	31	19

Work reports 1941

	Box	Folder
Text	31	20

Expenses, Baja, California 1941

	Box	Folder
Text	31	21

Expenses and work report, American Philosophical Society grant 1942

Travel

	Box	Folder
Text	31	22

Work reports 1943

	Box	Folder
Text	31	23

Expenses, American Philosophical Society grant 1944

	Box	Folder
Text	31	24

Work report 1945

	Box	Folder
Text	31	25

Expenses, Mexico 1945

	Box	Folder
Text	31	26

Travel

Expenses, Geological Society of America grant 1946

	Box	Folder
Text	31	27

Certificates, souvenirs and mementos 1946-1972

	Box	Folder
Text	31	28

Expenses, general 1947

	Box	Folder
Text	31	29

Expenses, Arctic Canada 1948

	Box	Folder
Text	31	30

Expenses, Coastal Plain Project 1948

Travel

	Box	Folder
Text	31	31

License to enter Northwest Territories of Canada 1948 July 5

	Box	Folder
Text	31	32

Expenses, general 1949

	Box	Folder
Text	31	33

Expenses, Florida 1948-1952

	Box	Folder
Text	31	34

Expenses, Europe 1949

	Box	Folder
Text	31	35

Travel

Expenses, Nova Scotia 1950

	Box	Folder
Text	31	36

Expenses, Europe 1951

	Box	Folder
Text	31	37

Letter on visiting Yugoslavia 1951

	Box	Folder
Text	31	38

Expenses and correspondence, general 1951

	Box	Folder
Text	31	39

Diary, Europe 1951 June 20-1951 July 17

Travel

	Box	Folder
Text	31	40

Expenses, general 1952

	Box	Folder
Text	31	41

Expenses, International Congress, Algiers 1952

	Box	Folder
Text	31	42

Expenses, Cayman 1952

	Box	Folder
Text	31	43

Inventory of Quaternary locations 1952

	Box	Folder
Text	31	44

Travel

Correspondence, notes and log, Raitan Field Conference 1952, 1956

	Box	Folder
Text	31	45

Expenses, Ethiopia 1954

	Box	Folder
Text	31	46

Expenses, Delaware River Port Authority 1954-1955

	Box	Folder
Text	31	47

Certificates for crossing the Equator 1954, 1955

	Box	Folder
Text	31	48

Expenses, Northern Rhodesia 1955

Travel

	Box	Folder
Text	31	49

Expenses, International Geological Congress, Mexico 1956

	Box	Folder
Text	31	50

Expenses, Scandinavia 1956

	Box	Folder
Text	31	51

Expenses, Philadelphia Engineers 1956

	Box	Folder
Text	31	52

Correspondence and reports, Karnell property 1956-1958

	Box	Folder
Text	31	53

Travel

Expenses, Spain, Union of Soviet Socialist Republics 1957

	Box	Folder
Text	31	54

Expenses, East Germany 1958

	Box	Folder
Text	31	55

Expenses, Union of Soviet Socialist Republics 1958-1963

	Box	Folder
Text	31	56

Expenses and correspondence, general 1959

	Box	Folder
Text	31	57

Expenses, International Geological Congress 1960

Travel

	Box	Folder
Text	31	58

Expenses, general 1961

	Box	Folder
Text	31	59

Expenses, general 1962

	Box	Folder
Text	31	60

Reports, California, Oregon 1962

	Box	Folder
Text	31	61

Expenses, general 1963

	Box	Folder
Text	31	62

Travel

Expenses, Grand Canary, Frobisher Bay 1963

	Box	Folder
Text	31	63

Expenses, India 1964

	Box	Folder
Text	31	64

Expenses, general 1964

	Box	Folder
Text	31	65

List of fossil localities, California 1964

	Box	Folder
Text	31	66

Expenses, general 1965

Travel

	Box	Folder
Text	31	67

Expenses, California 1965

	Box	Folder
Text	31	68

Expenses, general 1966

	Box	Folder
Text	31	69

Expenses, Bahamas 1966

	Box	Folder
Text	31	70

Expenses and correspondence, Pacific Science Congress, Tokyo Japan 1966

	Box	Folder
Text	31	71

Travel

Expenses, general 1967

	Box	Folder
Text	31	72

Expenses, Pan African Congress 1967

	Box	Folder
Text	31	73

Expenses, general 1968

	Box	Folder
Text	31	74

Expenses, general 1969

	Box	Folder
Text	31	75

Correspondence and maps, Fiji 1969-1970

Travel

	Box	Folder
Text	31	76

Expenses, general 1970

	Box	Folder
Text	32	1

Expenses and correspondence, Africa 1970

	Box	Folder
Text	32	2

Expenses, general 1971

	Box	Folder
Text	32	3

Expenses, general 1972

	Box	Folder
Text	32	4

Travel

Reports, Easter Island expedition 1972

	Box	Folder
Text	32	5

Reports, Sonora, Mexico 1972

	Box	Folder
Text	32	6

Expenses, general 1973

	Box	Folder
Text	32	7

Expenses, Coastal Plain Project 1973

	Box	Folder
Text	32	8

Expenses, general 1974

Travel

	Box	Folder
Text	32	9

Correspondence, Spain 1975

	Box	Folder
Text	32	10

Expenses, Coastal Plains Project 1975, 1977

	Box	Folder
Text	32	11

List of foreign trips from 1932 to 1977 circa 1977

	Box	Folder
Text	32	12

Road log, field trip towards Harrisburg undated

	Box	Folder
Text	32	13

Presentations

Geological summary, Suffolk, Great Britain undated

	Box	Folder
Text	32	14

Presentations 1929-1973

Scope and Contents note

The "Presentations" series houses typescripts of lectures and presentations given for various occasions regarding mollusks, shorelines and climate change, as well as other geological and quaternary subjects. The series dates from 1929 to 1973 and is arranged chronologically.

"Fossils from the Pleistocene of New Jersey, Indicating a Warm Interglacial Period" 1929 December 27

	Box	Folder
Text	33	1

"Further Evidence of a Warm Interglacial Period on the Atlantic Coast" 1930 December 30

	Box	Folder
Text	33	2

"Mollusks as Climate Indicators of the Pleistocene" 1931 May 1

Presentations

	Box	Folder
Text	33	3

"The Parvin Park Boulder" 1935

	Box	Folder
Text	33	4

Draft, "Wandering Through Central America" 1937

	Box	Folder
Text	33	5

"Wandering Through Central America" 1937

	Box	Folder
Text	33	6

"Flying Down to Yucatan, a Visit to Cozumel, the Sacred Island of the Ancient Mayans" 1937

	Box	Folder
Text	33	7

Presentations

"The International Symposium on Early Man" 1937 March 17-1937 March 20

	Box	Folder
Text	33	8

"Marine Pleistocene Mollusks as Indicators of Time and Ecological Conditions" 1937

	Box	Folder
Text	33	9

"Marine Pleistocene Mollusks of the East Coast of North America" 1940

	Box	Folder
Text	33	10

"To Hudson Bay and the Barren Lands" 1941

	Box	Folder
Text	33	11

"To the Lost Beaches of Hudson Bay" 1941

Presentations

	Box	Folder
Text	33	12

Lists of lectures, 1947-1949 circa 1949

	Box	Folder
Text	33	13

"The Vincentown Formation of New Jersey" 1956 May

	Box	Folder
Text	33	14

"To Far Off Samarkand" 1958 March 13

	Box	Folder
Text	33	15

Certificate of appreciation for address before the Kiwanis Club of Cape May 1959 August 12

	Box	Folder
Text	33	16

Presentations

"Studies on the Marine Pleistocene Fauna of the Atlantic Coastal Plain" 1961

	Box	Folder
Text	33	17

Cape May Geographic Society lecture program 1963 August 9

	Box	Folder
Text	33	18

"Quaternary Shorelines" 1963

	Box	Folder
Text	33	19

Introduction of Dr. Lewis Leaky, Richard Hopper Day Medal recipient 1964

	Box	Folder
Text	33	20

"Fossils from Cores Taken Off the Coast of Chile" 1964

Presentations

	Box	Folder
Text	33	21

Shoreline erosion correspondence, regarding testimony

	Box	Folder
Text	33	22

"A Summary of the Marine Quaternary of the Pacific Coast of North and South America" 1966

	Box	Folder
Text	33	23

"Recent Activities in Geology and Paleontology of Interest to Pennsylvanians 1967 February 22

	Box	Folder
Text	33	24

Geology 100, list of speakers 1968

	Box	Folder
Text	33	25

Radio scripts

"A Quaternary Elevated Beach Along the Gulf of California in Sonora, Mexico" 1973

	Box	Folder
Text	33	26

Prehistoric Pennsylvania undated

	Box	Folder
Text	33	27

Radio scripts 1945-1962

Scope and Contents note

Following is the "Radio scripts" series, which consists of typescripts of several radio and television programs where Richards was a guest talking about various geological topics. The series dates from 1945 to 1962 and is arranged chronologically.

KYW, "Let's Visit the Zoo" 1945 November 10

	Box	Folder
Text	33	28

Radio Broadcast, "When Dinosaurs Roamed New Jersey" 1948 October 11

Radio scripts

	Box	Folder
Text	33	29

WFIL-TV, "Science is Fun" and "Volcanoes" 1949 October 28

	Box	Folder
Text	33	30

WFIL-TV, "Science is Fun: the Study of Fossils" 1950 March 10

	Box	Folder
Text	33	31

Radio Broadcast, "Along the Jersey Shore" 1950 June 4

	Box	Folder
Text	33	32

National Broadcasting Company, "We the People" 1950 November 30

	Box	Folder
Text	33	33

Writings

WFIL-TV "Science is Fun" and "Discovery of the Giant Sloth" 1951 January 3

	Box	Folder
Text	33	34

WRCV-TV, "Concept" 1962 May 1

	Box	Folder
Text	33	35

Writings 1928-1981

Scope and Contents note

Richards wrote and published numerous articles and books, and documents related to that work are housed in the "Writings" series. Researchers will find typescripts, reprints, correspondence, research notes, as well as a contract and some royalty reports. The materials in this series are fragmentary, and none of his written works are particularly well documented. These materials date from 1928 to 1981 and are arranged alphabetically by publication title or topic if exact title was not given.

"List of Publications," 1-292 circa 1980

	Box	Folder
Text	33	36

Writings

"List of Publications," 1-292 circa 1980

	Box	Folder
Text	33	37

"Additions to South Jersey Novels," publication 1981

	Box	Folder
Text	33	38

"Animals of the Seashore," correspondence 1928

	Box	Folder
Text	33	39

"Animals of the Seashore," correspondence 1929

	Box	Folder
Text	33	40

"Animals of the Seashore," correspondence 1930

Writings

	Box	Folder
Text	33	41

"Animals of the Seashore," correspondence 1931

	Box	Folder
Text	33	42

"Animals of the Seashore," correspondence 1932

	Box	Folder
Text	33	43

"Animals of the Seashore," correspondence 1933

	Box	Folder
Text	33	44

"Animals of the Seashore," correspondence 1934

	Box	Folder
Text	33	45

Writings

"Animals of the Seashore," correspondence 1935

	Box	Folder
Text	33	46

"Animals of the Seashore," correspondence with Bruce Humphries 1936-1966

	Box	Folder
Text	33	47

"A Book on Rocks," contract 1955

	Box	Folder
Text	33	48

"A Brief Summary of the Piney Point Formation and its Possible Use for Sewage Disposal in Cape May County, New Jersey," manuscript 1971 July 1

	Box	Folder
Text	33	49

"Camp Pendleton," manuscript fragment, page 2 circa 1963

Writings

	Box	Folder
Text	33	50

"Changes in Shoreline During the Past Million Years," publication 1970 June 18

	Box	Folder
Text	33	51

"Developments in Atlantic Coastal States Between New Jersey and South Carolina in 1953,"
reprint 1954 June

	Box	Folder
Text	33	52

"Developments in Atlantic Coastal States Between New Jersey and South Carolina in 1956,"
reprint 1957 June

	Box	Folder
Text	33	53

"Developments in Atlantic Coastal Plain Between New Jersey and North Carolina in 1973,"
photocopy 1974 August

	Box	Folder
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Writings

Text	33	54
------	----	----

"Fosiles en Testigos Tomados Fuera de la Costa de Chile," reprint 1968

	Box	Folder
Text	33	55

"Furry Animals," photograph of palm trees used in publication undated

	Box	Folder
Text	33	56

"Geological Field Trip to Florida and the Bahamas," manuscript 1937 January 22-1937 February 8

	Box	Folder
Text	34	1

"Geological Field Trip to Florida and the Bahamas," map of unfrequented islands 1937

	Box	Folder
Text	34	2

"Geophysical and Stratigraphic Investigations in the Atlantic Coastal Plain," publication 1953

Writings

	Box	Folder
Text	34	3

"Homo Sapiens after Linn.: Content and Earliest Representatives," manuscript 1969 February

	Box	Folder
Text	34	4

"Lapita Pottery and a Lower Sea Level in Western Samoa," reprint 1975

	Box	Folder
Text	34	5

"Late Cenozoic Stratigraphy of Southern Florida," book review circa 1968

	Box	Folder
Text	34	6

"The Marine Quaternary of North and South America," manuscript 1964

	Box	Folder
Text	34	7

Writings

Minerals, correspondence 1946-1948

	Box	Folder
Text	34	8

"Mollusks Collected by Captain R.A. Bartlett from Greenland and Adjacent Seas," manuscript 1932

	Box	Folder
Text	34	9

"New Evidence for Marine Phase of Raritan Formation (Cretaceous) in New Jersey Coastal Plain," photocopy circa 1961

	Box	Folder
Text	34	10

"Notes on the Geology and Paleontology of the Cape May Canal, New Jersey," correspondence and partial manuscript 1943

	Box	Folder
Text	34	11

"Note on the Submerged Meadows of New Jersey," correspondence 1931

Writings

	Box	Folder
Text	34	12

"One Hundred South Jersey Novels," publication 1947

	Box	Folder
Text	34	13

"An Outline of Previous Work on the Pennsauken Formation of New Jersey," manuscript 1949

	Box	Folder
Text	34	14

Pleistocene fossils studied, reports 1938-1942

	Box	Folder
Text	34	15

Pleistocene mollusks, correspondence 1956-1963

	Box	Folder
Text	34	16

Writings

Pleistocene mollusks, tables undated

	Box	Folder
Text	34	17

"Pleistocene Mollusks from Cores Taken from the Continental Shelf of Argentine and Chile," publication 1966

	Box	Folder
Text	34	18

"The Pocono Mountains," manuscript circa 1960

	Box	Folder
Text	34	19

"Post-Miocene Stratigraphy Central and Southern Atlantic Coastal Plain," publication 1974

	Box	Folder
Text	34	20

"Quaternary Mollusks from Fiji," reprints, 4 copies 1972

Writings

	Box	Folder
Text	34	21

"Recent and Pleistocene Marine Shells of James Bay," article fragment 1937

	Box	Folder
Text	34	22

"Record of the Rocks," correspondence and research notes 1951-1952

	Box	Folder
Text	34	23

"Record of the Rocks," correspondence 1953

	Box	Folder
Text	34	24

"Restoration of a Collection of Fossil Plants of the Academy of Natural Sciences of Philadelphia," manuscript and correspondence 1971-1973

	Box	Folder
Text	34	25

Writings

"Some Tertiary Fossils from the Goajira Peninsula of Colombia," reprint 1961

	Box	Folder
Text	34	26

"The Story of Earth Science," publication announcement 1959

	Box	Folder
Text	34	27

"The Story of Earth Science," royalty reports 1959-1969

	Box	Folder
Text	34	28

"Subway Tree," correspondence 1931-1932

	Box	Folder
Text	34	29

Untitled manuscript fragment undated

Academics

	Box	Folder
Text	34	30

Untitled manuscript undated

	Box	Folder
Text	34	31

"Wanderings Through Central America: the Diary of an Unusual Trip," photocopy of typescript 1937

	Box	Folder
Text	34	32

Academics 1927-1932

Scope and Contents note

Researchers will find records related to Richards' graduate work at the University of Pennsylvania in the "Academics" series. Of note, is a typescript copy of his Master's thesis as well as notes and correspondence related to his research for that project. There is also an examination, a draft of a commencement address and a letter to Richards' father from a professor about Richards' work performance and the high probability of his receiving a fellowship. The materials date from 1927 to 1932 and are arranged chronologically.

"A Discussion of the Evidence that the Sarcodina Have Evolved Independently from Various Groups of Mastigophora", manuscript 1927 May

Academics

	Box	Folder
Text	35	1

"Some Observations on the Marine Protozoa in the Tanks in the Vivarium at the University of Pennsylvania", manuscript 1928

	Box	Folder
Text	35	2

New Jersey weather records 1928-1929

	Box	Folder
Text	35	3

"Marine Insects", manuscript 1928 April

	Box	Folder
Text	35	4

"A Survey of the Invertebrates of New Jersey", manuscript fragment circa 1928

	Box	Folder
Text	35	5

Academics

List of specimens collected in New Jersey 1928-1932

	Box	Folder
Text	35	6

Dawson, J.A., letter with diconamous key on identifying Richards' collection of diconanmous 1929

	Box	Folder
Text	35	7

"Acclimatization from Fresh to Salt Water and Vice Versa", manuscript 1929 May

	Box	Folder
Text	35	8

"A Faunistic Survey of the Marine Invertebrates of New Jersey, with Especial Reference to the Cape May Region, master's thesis manuscript 1929

	Box	Folder
Text	35	9

"A Faunistic Survey of the Marine Invertebrates of New Jersey, with Especial Reference to the Cape May Region, master's thesis manuscript 1929

Academics

	Box	Folder
Text	35	10

Letter to Horace Clark Richards about his son receiving a fellowship 1929

	Box	Folder
Text	35	11

Examinations 1930

	Box	Folder
Text	35	12

Correspondence on manuscript on fauna of the Delaware Bay region 1930-1932

	Box	Folder
Text	35	13

Draft of commencement address undated

	Box	Folder
Text	35	14

Certificates

Certificates 1927-1971

Scope and Contents note

The "Certificates" series includes all three of his diplomas from the University of Pennsylvania, his appointments to various positions, honors and awards. Materials date from 1927 to 1971 and are arranged chronologically.

Bachelor of Liberal Arts, University of Pennsylvania 1927

	Oversize	Folder
Text	77	1

Master of Science, University of Pennsylvania 1929

	Oversize	Folder
Text	77	1

Doctorate of Philosophy, University of Pennsylvania 1932

	Oversize	Folder
Text	77	1

President's Award, American Association of Petroleum Geologists 1945 July

Certificates

	Oversize	Folder
Text	77	1

Appointment, Chairman of the Department of Geology and Paleontology, Academy of Natural Sciences of Philadelphia 1960 February 25

	Box	Folder
Text	35	15

Appointment, Research Associate in Geology, Columbia University 1964-1966

	Box	Folder
Text	35	16

Appointment, Senior Research Associate, Lamont Geological Observatory 1966

	Box	Folder
Text	35	17

Award of Merit, William Penn Charter School 1971

	Box	Folder
Text	35	18

Student papers

Lecturer Emeritus, Department of Geology, University of Pennsylvania 1971

	Box	Folder
Text	35	19

Student papers 1935-1973

Scope and Contents note

The "Student papers" series houses typescript copies of Richards' students' work on various topics related to geology. The students either attended the university at which Richards taught or studied part of the Academy's collection with Richards. The papers date from 1935 to 1973 and are arranged alphabetically by the student's last name.

Barwis, John H., "Sedimentology and Paleoenvironments of the Oriskany Group of Eastern Pennsylvania", thesis manuscript 1969

	Box	Folder
Text	36	1

Bennett, R.S., "The Geology of the Southern New Jersey Lagoon", manuscript 1935 May 1

	Box	Folder
Text	36	2

Student papers

Campbell, Lyle D., "Molluscan Paleontology of Nauakchottian (Holocene) Deposits of Mauritania and Senegal, West Africa", manuscript 1968 May 2

	Box	Folder
Text	36	3

Camperson, Joseph F., "Studies on the Cretaceous Deposits of Long Island", manuscript 1956

	Box	Folder
Text	36	4

Craig, "Studies and Interpretations of Pleistocene Molluscan Fossils from Peru and Argentina", manuscript 1962 May 1

	Box	Folder
Text	36	5

Kerrigan, J.F., "Plio-Pleistocene Mollusca of East Anglia England: a Report on the Sample of Geology, the Academy of Natural Sciences of Philadelphia", manuscript 1973 August 17

	Box	Folder
Text	36	6

Student papers

McCallum, John Stewart, "Heavy Minerals of the Pre-Matawan Cretaceous Sediments of the New Jersey Coastal Plain", bound thesis 1957 November

	Box	Folder
Text	36	7

Milburn, Pamela Burl, "Paleoecology of the Upper Pleistocene Mollusca of Southern and Baja California", manuscript circa 1961

	Box	Folder
Text	36	8

Reed, Juliet C., "The Sedimentary Petrology of Outcrops of the Upper Cretaceous English Town Formation of New Jersey", thesis manuscript 1956

	Box	Folder
Text	36	9

Sarma, Akkaraju V.N., "Holocene Paleoecology of South Coastal Ecuador", manuscript 1973

	Box	Folder
Text	36	10

Student papers

Schluger, Paul R., "Sedimentology of the Perry Formation, New Brunswick and Maine: Progress Report for 1968", manuscript 1968

	Box	Folder
Text	36	11

Weiss, Richard C., "The Mollusca and Brachiopoda of a Locality in Franklin Pennsylvania", manuscript 1960 June

	Box	Folder
Text	36	12

Wright, John C., "Summary of Literature on the Southern California Pleistocene", manuscript circa 1963

	Box	Folder
Text	36	13

Unknown author, "The Effects of Climate Changes on Population Movements in the North Sea Basin Area: 500B.C.-1500 A.D.", manuscript circa 1961

	Box	Folder
Text	36	14

Scrapbooks and newspaper clippings

Unknown author, "Pleasant Ridge Lake, Mississippi", manuscript circa 1941

	Box	Folder
Text	36	15

Scrapbooks and newspaper clippings 1931-1984

Scope and Contents note

The series "Scrapbooks and newspaper clippings," consists of four bound scrapbooks of newspaper clippings, announcements and some photographs, related to Richards' and his colleagues' work at the Academy. In addition to the scrapbooks, there are several folders containing loose newspaper clippings. The materials date from 1931 to 1984 and are arranged chronologically.

Newspaper clippings 1930-1950

	Box	Folder
Text	37	1

Newspaper, featuring article, "Caribbean Research Barred by Shadow of Swastika" 1940 August 4

	Box	Folder
Text	37	2

Scrapbooks and newspaper clippings

Newspaper, featuring photo in, "The Discovery of the Remains of a Duck-Billed Dinosaur in the United States" 1948 March 6

	Box	Folder
Text	37	3

Newspaper clipping, "Making Bones Live" 1948 October 16

	Box	Folder
Text	37	4

Newspaper clippings 1948-1968

	Box	Folder
Text	37	5

Newspaper clippings 1961

	Box	Folder
Text	37	6

Fairbridge, Rhodes W., "Memorial to Horace Gardiner Richards (1906-1984)" circa 1984

Notebooks

	Box	Folder
Text	37	7

Scrapbook, #1 1931-1943

	Box	Volume
Text	37	1

Scrapbook, #2 1943-1950

	Box	Volume
Text	37	2

Scrapbook, #3 1951-1953

	Box	Volume
Text	37	3

Box

38

Scrapbook, #4 1956-1964

Notebooks 1928-1962

Scope and Contents note

Notebooks

The "Notebooks" series houses 11 notebooks which contain vital descriptive and cataloging information about Richards' hundreds of photographs and negatives. These notebooks offer information regarding negative numbers one to 1,338, photograph numbers one to 1,266 and 1,501, and for his 35 millimeter film numbers one to 158. There are also two notebooks of research notes that are labeled, "Book 8" and "Book 9." There are two sets of 4"x6" index cards, one is a photograph record with numbers 100 through 447 and K-0 through M-99, the other has research notes related to scientist Samuel George Morton. These materials date from 1928 to 1962 and are arranged chronologically.

Photograph catalogue, negatives 1-195 1928

	Box	Volume
Text	39	1

Photograph catalogue, negatives 196-487 1929

	Box	Volume
Text	39	2

Photograph catalogue, negatives 488-522 1930

	Box	Volume
Text	39	3

Photograph catalogue, negatives 583-1113 1931

Notebooks

	Box	Volume
Text	39	4

Photograph catalogue, negatives 1114-1338 1931-1932

	Box	Volume
Text	39	5

Catalogue of photographs, 1-402 circa 1940

	Box	Volume
Text	39	6

Catalogue of photographs, 403-652 1941-1942

	Box	Volume
Text	39	7

Catalogue of photographs, 653-1117 1943-1949

	Box	Volume
Text	39	8

Notebooks

Catalogue of photographs, 1118-1266 and "35mm Film", 1-90 1950-1957

	Box	Volume
Text	39	9

"35mm Film", 90-158

	Box	Volume
Text	39	10

Catalogue of photographs, 1501-1811 1957-1962

	Box	Volume
Text	39	11

Research notes, "Book 8" undated

	Box	Volume
Text	39	12

Research notes, "Book 9" undated

Audio

	Box	Volume
Text	39	13

Box

50

Index cards, photograph record, 100-447, K-0-M-99 1960-1975

50

Index cards, research notes on Samuel Morton undated

Audio 1952-1953**Scope and Contents note**

In the "Audio" series are two reels of Richards' appearance on radio programs. One reel is a recording of a show titled "North Africa" and the second is titled "Trieste." The audio reels date from 1952 and 1953 respectively.

"North Africa" 1952 December 14

	Box	Reel
Audio	40	1

"Trieste, etc." 1953 October 25

	Box	Reel
Audio	40	2

Images

Images 1932-1974

Scope and Contents note

Finally, is the series "Images." The images housed here were primarily produced during Richards' field work and expeditions, in various formats including color and black and white slides, negatives, photographs and lantern slides. Materials have been organized into subseries by type: "Photographs," "Photo Albums," "Negatives," "Maps," "Lantern Slides," and "Slides." The subseries "Photographs" houses a variety of loose images from Richards' fieldwork and expeditions, dating from 1943 to 1960. Many of photographs are numbered and some are annotated from use in the Academy publication *Frontiers*. The photographs are arranged by size and are in numeric order. Researchers should consult the above mentioned series "Notebooks" for possible connections between the photographs in this series and the descriptive information found in that series. In the next subseries, "Photograph Albums," researchers will find twenty-two albums documenting Richards' travels around the world. The albums are arranged chronologically and date from 1932 to 1949. The "Negatives" subseries is arranged chronologically and dates from 1932 to 1955. The negatives also have evidence of a numerical numbering system, which presumably corresponds to the "Notebooks" series. The negatives' envelopes are well labeled with dates, locations and negative numbers. The "Maps" subseries contains three maps which were used in the publication *Frontiers*. Two maps are undated, the third is dated 1950. The "Lantern slides" subseries is made up of two boxes, one box contains images from Richards' publications "Furry Animals" and "Seashore Life." The second box is of expeditions at various locations, such as California, New Jersey, New York, North Carolina, Texas and Mexico, and dates 1944, 1947 and undated. The lantern slides are well labeled and there is an itemized list included in each box. The "Slides" subseries make up a majority of the collection. Dating from 1945 to 1974, the slides are arranged chronologically. "Slides" include a reference number which may correspond to the information maintained in the "Notebooks" series. The slides were often used to illustrate his lectures and presentations. Some slides are housed in long narrow containers or "bins" which have then been placed inside larger boxes for ease of storage and use.

Photographs 1943-1960, undated

Photographs

Expedition photographs, unidentified locations, 3"x4" and 4"x6" undated

	Box	Folder
Graphic materials	40	1-8

Graphs of diatoms (11), map showing sampling sites (2), diagram of microscope slide dryer (1), 3"x4" and photograph of microscope slide dryer (1), 4"x6" undated

	Box	Folder
Graphic materials	40	9

Water sampling device, 3"x4" undated

	Box	Folder
Graphic materials	40	10

Museum exhibit labels on photo paper undated

	Box	Folder
Graphic materials	40	11

Paricutin Volcano, Mexico, 4"x6" 1943

Photographs

	Box	Folder
Graphic materials	40	12

Cape May, New Jersey, mollusks, 4"x6", (#1048, 1049) undated

	Box	Folder
Graphic materials	40	13

Cozumel, Mexico, 4"x6", (#5313, 5315, 5328, 5354, 5393, 5397, 5407) undated

	Box	Folder
Graphic materials	40	14

Bahamas, 4"x6", (#5892) undated

	Box	Folder
Graphic materials	40	15

Guatemala, 4"x6", (#6216, 6237, 6254, 6254, 6263) undated

	Box	Folder
Graphic materials	40	16

Photographs

West End, Roatan, Honduras, 4"x6", (#6363, 6347, 6368, 6377, 6401, 6414) undated

	Box	Folder
Graphic materials	40	17

Panama Canal, 4"x6", (#6893, 6897, 6925, 6963, 6975, 7008 and unnumbered photograph) undated

	Box	Folder
Graphic materials	40	18

Curacao, Caribbean, 4"x6", (#7674, 7736, 7754, 7833, 7838, 7866, 7968) undated

	Box	Folder
Graphic materials	40	19

Eskimo Point, 4"x6", (#8426, 8493, 8497, 8534, 8593, 8631, 8648 and unnumbered photograph) undated

	Box	Folder
Graphic materials	40	20

Expedition, unidentified location, 4"x6", (#9108, 9118, 9171) undated

Photographs

	Box	Folder
Graphic materials	40	21

Cape Hatteras, North Carolina, 5"x7", (#30744, 30748) 1945 December

	Box	Folder
Graphic materials	40	22

Lofoten Islands and Bodo, Norway, 5"x7", (unnumbered) undated

	Box	Folder
Graphic materials	40	23

Expedition, unknown location, 8"x10", (#M-294) undated

	Box	Folder
Graphic materials	40	24

Expedition, unknown location, 8"x10", (#1085) undated

	Box	Folder
Graphic materials	40	25

Photographs

Eskimo Point, 8"x10",(#8493, 8545) undated

	Box	Folder
Graphic materials	40	26

Expedition, unidentified location, 8"x10", (#9118, 9172) undated

	Box	Folder
Graphic materials	40	27

Coastal shorelines, unidentified location, 8"x10", (#9208, 9293, 9294) undated

	Box	Folder
Graphic materials	40	28

Expedition, unidentified location, 8"x10", (#9802) undated

	Box	Folder
Graphic materials	40	29

Expedition, unidentified location, 8"x10", (#10194) undated

Photographs

	Box	Folder
Graphic materials	40	30

Mexico, 8"x10", (#10427) undated

	Box	Folder
Graphic materials	40	31

Expedition, unidentified location, 8"x10", (#10602, 10653, 10655, 10665) undated

	Box	Folder
Graphic materials	40	32

Expedition, unidentified location, 8"x10", (#10741, 10754, 10755) undated

	Box	Folder
Graphic materials	40	33

Expedition, Horace G. Richards with unidentified young man, unidentified location, 8"x10", (unnumbered) undated

	Box	Folder
Graphic materials	40	34

Photographs

Horace G. Richards, posing with mollusk fossils for the *Philadelphia Inquirer*, 8"x10",
(unnumbered) undated

	Box	Folder
Graphic materials	40	35

Unidentified group of people, 6"x9" and locusts in flight, Kenya, 8"x10" 1960

	Box	Folder
Graphic materials	40	36

Mounted photograph, "News of Harry Woodpecker" undated

	Box	Folder
Graphic materials	40	37

Oversized backed photographs, expeditions, unidentified location, (2) undated

	Oversize	Folder
Text	77	2

Oversized backed photographs, stibnite crystals undated

Photograph albums

	Oversize	Folder
Text	77	2

Photograph albums 1932-1949

Bermuda, New England and Nantucket 1931

	Box	Volume
Graphic materials	41	1

Cuba 1933

	Box	Volume
Graphic materials	41	2

James Bay 1933

	Box	Volume
Graphic materials	41	3

East Coast 1933-1934

	Box	Volume
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Photograph albums

Graphic materials	41	4
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Long Island and Nova Scotia 1934

	Box	Volume
Graphic materials	41	5

Loose album pages and photographs 1927-1934

	Box	Folder
Graphic materials	41	1

New England, North Carolina, South Carolina, Georgia, Florida, Texas and Louisiana 1935

	Box	Volume
Graphic materials	42	1

North Carolina, Cuba, and Cozumel, Mexico 1935-1936

	Box	Volume
Graphic materials	42	2

Southeastern states and Bahamas 1936-1937

Photograph albums

	Box	Volume
Graphic materials	42	3

Mexico, Guatemala, Honduras, Roatan and British Honduras 1937

	Box	Volume
Graphic materials	42	4

British Honduras, Corn Island, Costa Rica, Panama, Canal Zone, Jamaica and Cuba 1938

	Box	Volume
Graphic materials	43	1

North Carolina, Texas, Georgia, New England, and New Jersey 1938-1939

	Box	Volume
Graphic materials	43	2

West Indies and Venezuela 1939

	Box	Volume
Graphic materials	43	3

Photograph albums

Hudson Bay, Churchill, Chesterfield Inlet and Eskimo Point 1940

	Box	Volume
Graphic materials	43	4

Cross country (southern part) to Baja California 1941

	Box	Volume
Graphic materials	44	1

New Jersey, North Carolina, and Gaspé 1941-1942

	Box	Volume
Graphic materials	44	2

Mexico (Parícutin) 1944-1945

	Box	Volume
Graphic materials	44	3

Magdalen Island, Canada, Mexico, Guatemala and El Salvador 1945

Photograph albums

	Box	Volume
Graphic materials	44	4

Loose photographs 1944

	Box	Folder
Graphic materials	44	1

United States American Association Petroleum Geologists 1945-1946

	Box	Volume
Graphic materials	45	1

New Jersey, New England, and Louisiana 1946-1947

	Box	Volume
Graphic materials	45	2

Sonora Desert, Lac Frontiere, Quebec, New Jersey, Pennsylvania and Virginia 1947

	Box	Volume
Graphic materials	45	3

Negatives

Wisconsin, Minnesota, Pennsylvania, New Jersey, Canada, North Carolina, South Dakota, and Colorado 1947-1948

	Box	Volume
Graphic materials	45	4

Arctic Trip to Mackenzie Delta, and Tangier Island, Virginia 1948-1949

	Box	Volume
Graphic materials	45	5

Negatives 1932-1955

Orthoptera, two walking sticks, 8"x10" 1954 September 23

	Box	Folder
Graphic materials	40	39

Orthoptera, grasshoppers (8 negatives), 4"x6" 1958 February 4

	Box	Folder
Graphic materials	40	40

Negatives

Academy of Natural Sciences of Philadelphia diorama exhibits, mounted on glass 1948 April, 1953 November 1, 1954 April 20, undated

	Box	Folder
Graphic materials	40	41

#289-580 1932 August 31-1937 January 27

	Box	Folder
Graphic materials	46	1-291

#581-900 1937 January 27-1941 July 28

	Box	Folder
Graphic materials	47	1-319

#901-1148 1941 July 28-1946 July 15

	Box	Folder
Graphic materials	48	1-247

#1149-1383, 1813, unnumbered (3) 1946 July 20-1955 December 30, undated

Maps

	Box	Folder
Graphic materials	49	1-238
Maps 1950, undated		
Migration route of snails 1950 April		
	Box	Folder
Graphic materials	40	42

Alaska, Northern Asian and Europe undated

	Box	Folder
Graphic materials	40	43

Gulf of Saint Lawrence undated

	Box	Folder
Graphic materials	40	44

Lantern slides 1944, 1947, undated

Expeditions, various locations 1944, 1947, undated

Slides

	Box	Folder
Graphic materials	51	1-68

"Furry Animals" and "Seashore Life" undated

	Box	Folder
Graphic materials	52	1-72

Slides 1945-1974

Saint Pierre, Miquelan, Mogdalon Islands 1945, 1950

	Box	Bin
Graphic materials	70	1

Colorado Delta, Sonora 1947, 1965

	Box	Bin
Graphic materials	70	2

Alaska Yukon 1948

	Box	Bin
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Slides

Graphic materials	70	3
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Box

53

Mackenzie Delta 1948

Europe, Czechoslovakia, Poland 1949

	Box	Bin
Graphic materials	70	4

Box

54

Great Britain, Germany, Switzerland, Scandinavia 1949-1954

Italy 1951-1954

	Box	Bin
Graphic materials	70	5

North Africa 1952

	Box	Bin
Graphic materials	70	6

Grand Cayman 1952

Slides

	Box	Bin
Graphic materials	71	1

Balkans, Yugoslavia, Greece, Turkey 1953

	Box	Bin
Graphic materials	70	7

Lebanon, Syria, Egypt, Eritrea, Ethiopia, Djibouti, Aden 1954

	Box	Bin
Graphic materials	71	2

Ethiopia, Eritrea, Arden 1954

	Box	Bin
Graphic materials	71	3

Middle East, Jordan, Israel 1954, 1955

	Box	Bin
Graphic materials	71	4

Slides

Africa 1955

	Box	Bin
Graphic materials	71	5

Berlin 1956

	Box	Bin
Graphic materials	71	6

Mexico 1956

	Box	Bin
Graphic materials	71	7

Scandinavia, Europe 1956

	Box	Bin
Graphic materials	71	8

Azores, Spain 1957

Slides

	Box	Bin
Graphic materials	72	1

Union of Soviet Socialist Republics, Tashkent, Samarkand, Leningrad 1957, 1959

	Box	Bin
Graphic materials	72	2

East Germany, Ukraine, Romania 1958

	Box	Bin
Graphic materials	72	3

Saint Martin, Anguilla 1958

	Box	Bin
Graphic materials	72	4

Bulgaria 1959

	Box	Bin
Graphic materials	72	5

Slides

Moscow, Irkutsk, Union of Soviet Socialist Republics 1959

	Box	Bin
Graphic materials	72	6

Denmark, Bornholm, Ireland 1960

	Box	Bin
Graphic materials	72	7

Virgin Islands 1960

	Box	Bin
Graphic materials	73	1

Box

55

Geological localities circa 1960-1962

Peru, Ecuador 1961

	Box	Bin
Graphic materials	73	2

Slides

Poland, Hungry 1961

	Box	Bin
Graphic materials	73	3

Maine, Massachusetts, Long Island, New Jersey, Pennsylvania, Delaware, Maryland, Florida 1961-1962

	Box	Bin
Graphic materials	73	4

Bermuda 1962

	Box	Bin
Graphic materials	73	5

California, Oregon 1962

	Box	Bin
Graphic materials	73	6

Columbia 1962

Slides

	Box	Bin
Graphic materials	73	7

Arctic 1963

	Box	Bin
Graphic materials	73	8

Argent, Tierra del fury 1963

	Box	Bin
Graphic materials	74	1

Canada 1963

	Box	Bin
Graphic materials	74	2

Box

56

Great Britain, Ireland, East Germany, Canary Islands 1963-1964

Baja, California 1964

Slides

	Box	Bin	
Graphic materials	74	3	
			Box
			57
Russia, India, Taiwan, Tokyo, Hong Kong, Hawaii 1964-1965			
Grand Bahamas, Bimini, Turks, Caicos 1965			
	Box	Bin	
Graphic materials	74	4	
Bahamas 1965, 1966			
	Box	Bin	
Graphic materials	74	5	
			Box
			58
Carsicz 1965, 1975			
			59
Alaska, Japan, Cyprus, Czechoslovakia 1966, 1971			
			60
Margarita, Venezuela, Brazil, Baja California 1966, 1971			
			61
Norway, Sweden, Denmark, Faroe, Orkney, England 1967			

Slides

British Columbia, Washington state, Bermuda 1967-1968

	Box	Bin
Graphic materials	74	6

Box

62

Senegal, Mauritania, Union of Soviet Socialist Republics, Netherlands,
Belgium 1967, 1972, 1974-1975

63

Easter Island, Chile 1968

Mexico, (Pariratin) 1968

	Box	Bin
Graphic materials	74	7

Montana 1968

	Box	Bin
Graphic materials	74	8

Box

67

United States 1968-19[7?]

Slides

64

Fiji, Australia, Bali, Singapore, Ceylon, Greece, INQUA Meeting in Paris,
Normandy 1969

65

Portugal, South Africa 1970

Sonora 1972

	Box	Bin
Graphic materials	75	1

Sonora, Southern United States 1972

	Box	Bin
Graphic materials	75	2

Box

66

Union of Soviet Socialist Republics, Madeira, Portugal, Spain, Morocco 1972

Bimini, Sonora 1972, 1974

	Box	Bin
Graphic materials	75	3

Box

Slides

INQUA New Zealand 1973

68

Sicily, Italy, Yugoslavia 1973

	Box	Bin
Graphic materials	75	4

Union of Soviet Socialist Republics, Armenia, Azerbaijan 1973

	Box	Bin
Graphic materials	75	5

Union of Soviet Socialist Republics, Georgia, England 1973

	Box	Bin
Graphic materials	75	6

Box

Iran, Egypt 1974

69

"Quaint Corners" undated

	Box	Bin
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Slides

Graphic materials	74	9
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Mississippi Delta undated

	Box	Bin
Graphic materials	75	7

"Old Slides #1", Honduras, Roatan, Nicaragua, Corn Island, Costa Rica, Guatemala, Cozumel, Cuba, Tehuantehee undated

	Box	Bin
Graphic materials	76	1

"Old Slides #2", West Indies, Margarita, Venezuela undated

	Box	Bin
Graphic materials	76	2

"Old Slides #3", Baja California, Mexico undated

	Box	Bin
Graphic materials	76	3

Slides

"Old Slides #4", Paricutin, Salvador, Panama, Canada undated

	Box	Bin
Graphic materials	76	4

Yugoslavia, Greece, Turkey, North Africa, Lebanon undated

	Box	Bin
Graphic materials	76	5

Mexico, Central America undated

	Box	Bin
Graphic materials	76	6

France, Belgium, Luxembourg undated

	Box	Bin
Graphic materials	76	7