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**U.S. GEOLOGICAL SURVEY LIBRARY  
FIELD RECORDS COLLECTION  
DENVER, COLORADO**

**HOWARD ROSS GOULD**  
(1921 - )

NOTES, CORRESPONDENCE, PAPERS

1948 - 1955

(4.9 linear ft. and 8 map folders)

Howard R. Gould was born in Adrian, West Virginia, in 1921. He earned a B.A. from the University of Minnesota in 1943 and a PhD. from the University of California in 1953. During his long professional career Gould studied sedimentation processes and petroleum geology for the University of California (1943-1946), the Scripps Oceanographic Institution (1946-1947), the U.S. Geological Survey (1947-1954), the University of Washington (1953-1956), and Humble (later Exxon) Oil and Refining Company from 1956 until his 1986 retirement. Gould is a fellow of the American Association for the Advancement of Science and the Geological Society of America. In 1999 he established the Gould Student Research Grand Fund at the GSA.

INVENTORY

By

Carol A. Edwards and Clay M. Martin  
U.S. Geological Survey Field Records Collection  
MS 914, Box 25046, Federal Center  
Denver, CO 80225-0046  
July 2000/July 2009

Location of Field Notebooks: CS 12-7 through 9

**LAKE MEAD SEDIMENTATION STUDIES, ARIZONA AND NEVADA.  
1948-1949.**

<u>Item Number</u>	<u>Description</u>
NO-02280	Field notebook with data related to sediment sampling in the intake towers area at Hoover Dam. 1948-1949.
NO-02281	Field notebook with data related to sediment sampling at various points across Lake Mead. 1948-1949.
NO-02282	Field notebook with data related to sediment sampling at various points across Lake Mead. 1948-1949.
NO-02283	Field notebook with lake elevation and inflow and outflow data for Lake Mead. 1948-1949.
NO-02284	Field notebook with observations on sedimentation in the Colorado River delta, California and Sonora, Mexico. 1949.
NO-02285	Document box with two drafts of a manuscript on Lake Mead sedimentation, with backup data and calculations.
NO-02286	Document box with 15 folders: <ul style="list-style-type: none"><li>- Folder 1. Abstracts: compaction and water discharge.</li><li>- Folder 2. Base data report (rough draft) and narrative report (original).</li><li>- Folder 3. Base data report (typed copy).</li><li>- Folder 4. Draft report entitled "Characteristics of the sediment accumulated in Lake Mead" by Howard R. Gould, with reviewer's comments.</li><li>- Folder 5. Coast and Geodetic Survey leveling data.</li><li>- Folder 6. Tables of sediment core data and miscellaneous notes on sedimentation at Lake Mead.</li><li>- Folder 7. Conversion tables and other data related to sediment sampling at Lake Mead.</li><li>- Folder 8. Notes on turbidity currents and miscellaneous sediment sample data from Lake Mead.</li><li>- Folder 9. Grand Canyon sediment discharge density calculations.</li><li>- Folder 10. Notes on growth and structure of river deltas.</li><li>- Folder 11. Miscellaneous notes and reprints of memoranda associated with the Lake Mead sedimentation project.</li><li>- Folder 12. Notes and data associated with calculations of the lifespan of the Lake Mead Reservoir.</li><li>- Folder 13. Lake elevation graph and U.S. Bureau of Reclamation data for</li></ul>

- Lake Mead (1947).
  - Folder 14. Draft text and miscellaneous notes and memoranda related to Lake Mead Turbidity Currents. Circa 1951.
  - Folder 15. Miscellaneous notes, copies of reports, and memoranda related to Lake Mead sedimentation.
  
- NO-02287 Document box with 19 folders of sediment sampling, sounding, river terrace, and useful life calculation data used in the Lake Mead sedimentation project.
  
- NO-02288 Two card file boxes with approximately 1,000 sediment sample data cards for Lake Mead, analyzed by the Scripps Institution of Oceanography. 1948-1949.
  
- NO-02289 Document box with three folders of sediment sample data sheets, core data sheets, graphs, and a laboratory index of sediment samples for the Lake Mead study. 1948-1949.
  
- NO-02290 Document box with two folders of mechanical analysis data sheets for sediment samples from Lake Mead. 1948.
  
- NO-02291 Document box with three folders of mechanical analysis data sheets for sediment samples from Lake Mead. 1948-1949.
  
- NO-02292 Document box with three folders of mechanical analysis data sheets for sediment samples from Lake Mead. 1948-1949.
  
- NO-02293 Document box with three folders of mechanical analysis data sheets for sediment samples from Lake Mead. 1948-1949.
  
- NO-02295 Document box with 124 sheets of Foerst, grab, gravity core, and piston core data for Lake Mead sediment samples. 1948-1949.
  
- MA-02878 Map folder with 62 items:
  - 21 unidentified work sheets for the Lake Mead sedimentation project.
  - 13 maps showing sediment data, in percentages, for Lake Mead.
  - map showing Lake Mead at its estimated terminal stage.
  - topographic map of the Pierce Basin, Lake Mead.
  - area map showing Lake Mead.
  - five versions of an index map of the Lake Mead area.
  - two versions of a map showing sediment sampling sites at Lake Mead.
  - two maps of the Lake Mead area, with miscellaneous annotations.
  - 16 maps of the Lake Mead area, showing sample locations, limnologic survey data, and density current data.

- MA-00479 Map folder with 24 items:
- outline map of Lower Granite Gorge, Lake Mead.
  - longitudinal profile of Lower Granite Gorge, Lake Mead.
  - diagram showing cross sections of Lower Granite Gorge, Lake Mead.
  - diagram showing cross sections of Lake Mead at Separation Canyon, Spencer Canyon, Salt Creek, and Helldiver Rapids.
  - map showing distribution of sediments at Lake Mead.
  - three versions of an outline map of Lake Mead, with corresponding cross section and profile diagrams.
  - miscellaneous outline map of Lake Mead.
  - map entitled "Planning Sheet #2", with annotated outline of Lake Mead.
  - map showing core and section locations, Lake Mead.
  - diagram showing profiles of sediment distribution at Lake Mead.
  - four unidentified profile diagrams.
  - two unidentified cross-section diagrams.
  - four diagrams showing sampling stations and density and water-sedimentation interface data for Lake Mead.
  - map showing construction details of Hoover Dam and layout of appurtenant works. 1942.
  - map entitled "The Hoover Dam Level Net".
- MA-00480 Map folder with 27 items:
- index map showing location of U.S. Department of Agriculture mapping in the Lake Mead area.
  - 26 U.S. Department of Agriculture topographic maps of the western part of Lake Mead, with annotations. Scale 1:12,000.
- MA-00481 Map folder with 26 U.S. Department of Agriculture topographic maps of the eastern part of Lake Mead, with annotations. Scale 1:12,000.
- MA-00482 Map folder with four large-scale diagrams showing cross sections of Lower Granite Gorge area, Lake Mead, identified as Range Numbers A1, 1-74.
- MA-00483 Map folder with three large-scale diagrams showing cross sections of Lower Granite Gorge area, Lake Mead, identified as Range Numbers 75-122.
- MA-00484 Map folder with three large-scale diagrams showing cross sections of Lower Granite Gorge area, Lake Mead, identified as Range Numbers 123-175.

Published as: Society of Economic Paleontologists and Mineralogists. Special Publication Number 2. 1951.

Published as: U.S. Geological Survey. Professional paper 295. 1960.

## OFFSHORE PHOSPHATES STUDIES, WEST COAST OF FLORIDA. 1949-1955.

- NO-08943 Three document boxes with 46 folders:
- Folder 1. General samples index. Includes summaries for surface samples, seawater samples, beach samples.
  - Folder 2. Samples index. Book 1. Includes Fish and Wildlife Service bottom samples as well as other samples.
  - Folder 3. Samples index book 2.
  - Folder 4. Biological samples index, for eastern Gulf of Mexico; also included is data on dredge specimens.
  - Folder 5. Sea water samples.
  - Folder 6. Mechanical analyses data sheets for samples 2-1163. Some numbers are missing.
  - Folder 7. Mechanical analyses data sheets for samples 1166-3059. Some numbers are missing.
  - Folder 8. Field sheets – field copy. 3 sheets of data.
  - Folder 9. Field sheets – office copy, Book 1. August 11 – November 13, 1951. Data include date, vessel, area, observers' names, sample number, depth, sample description.
  - Folder 10. Field sheets – office copy, book 2. December 3, 1951 – April 4, 1952. Data topics included are the same as book 1.
  - Folder 11. Field sheets – office copy, book 3. April 28 – May 22, 1952. Data topics included are the same as book 1.
  - Folder 12. Report, "Corals in the Eastern Part of the Gulf of Mexico" by Robert H. Stewart and Howard R. Gould. Includes one map.
  - Folder 13. Draft report on rock dredged from the Gulf of Mexico, probably by Robert H. Stewart, plus notes on assignment of rock types to specimens.
  - Folder 14. Phosphate and uranium data. Typed copies of log data covering cruises by the research vessel *Alaska* for August 15, 1951 through June 1, 1952, and the research vessel *Pompano* from May 10, 1949, through September 22, 1950.
  - Folder 15. Correspondence. Tucker Abbott, 1952-1953. Correspondence regarding samples. Tucker Abbott was in the Division of Mollusks, U.S. National Museum.
  - Folder 16. Correspondence. U.S. Fish and Wildlife Service. 1951-1953. Correspondence regarding sample analyses, loan of office and laboratory equipment, and cooperative activities.
  - Folder 17. Correspondence. Vincent E. McKelvey, USGS. 1951-1953. Correspondence regarding various aspects of this project.
  - Folder 18. Correspondence. O.L. Bandy. 1952-1955. Orville L. Bandy was in the Department of Geology, University of Southern California, and apparently specialized in microfauna, including Foraminifera. Correspondence reflects

Brandy's work with this project.

- Folder 19. Analyses – USGS Sediment Samples. Geochemical analysis reports; reports on microfaunal content of samples; related correspondence.
- Folder 20. Analyses – Galveston sediment samples. Geochemical analyses for samples collected by *R/V Alaska* of the Fish and Wildlife Service in the Gulf of Mexico. The Gulf Fishery Investigations Unit of the Fish and Wildlife Service had offices at Galveston, Texas.
- Folder 21. Analyses – Galveston Water Samples. Analytical data on Gulf of Mexico water samples collected by *R/V Alaska*.
- Folder 22. Analyses – USGS Water samples. Analytical data on water samples from rivers in southwestern Florida, from the Indian River estuary on the east coast of Florida, and seawater samples from the west coast.
- Folder 23. Mechanical analyses – notes. Data and several diagrams relating to analysis of various samples.
- Folder 24. Organic carbon analyses. Data arranged by sample number, plus summary of organic matter by sediment types.
- Folder 25. Insoluble Residue – CaCO<sub>3</sub>. Data arranged by sample number, plus summary by sediment types.
- Folder 26. Chemical data plus letter on difficulties of analysis.
- Folder 27. Uranium-phosphate ratio. Two charts.
- Folder 28. Florida paper. Copy of typed internal report: “Results to Date on Some Bottom Samples from the Gulf of Mexico” by Z.S. Altschuler and Harry Levine for John C. Rabbitt, Branch of Geochemistry and Petrology, USGS, July and September 1951; draft of a paper on the rocks and their distribution, by Robert H. Stewart; analytical data for various samples.
- Folder 29. Paleontology. Report on algae submitted for examination to the Paleontology and Stratigraphy Branch, USGS and related correspondence.
- Folder 30. Florida – notes – topography. Notes from publications on Florida's offshore topography; diagrams.
- Folder 31. Florida – samples – distribution. Listing of plotted samples.
- Folder 32. Sedimentary sections – Florida. Data relating to various samples.
- Folder 33. P<sub>2</sub>O<sub>5</sub> – Visual determination. For various samples, phosphate content estimated from microscopic examination.
- Folder 34. P<sub>2</sub>O<sub>5</sub> and U – final tabulation. Phosphate and uranium content given by sample number, with averages outside phosphate areas and in phosphate areas.
- Folder 35. Fathograms (recorded soundings) taken in deep water off Tarpon Springs and St. Petersburg, June 3-6, 1952. Water samples 1-33a.
- Folder 36. Fathograms (recorded soundings) taken in deep water off Boca Grande and Venice, June 11-13, 1952. Water samples 34-86.
- Folder 37. Fathograms (recorded soundings) taken in deep water off Tampa, June 16-17, 1952. Water samples 89-112.
- Folder 38. Fathograms (recorded soundings) taken in Tampa Bay, October 1-5, 1951. Samples 386-582.

- Folder 39. Fathograms (recorded soundings) taken in Charlotte Harbor, Pine Island Sound, Caloosahatchee River, Inshore Gulf – Fort Myers to Sarasota Seabuoy. November 6-13, 1951. Samples 594-1008.
- Folder 40. Fathograms (recorded soundings) taken in Gulf inshore waters– Sarasota to Tarpon Springs; Deep Water off Tarpon Springs, St. Petersburg, and Sarasota. December 3-12, 1951. Samples 1009-1257.
- Folder 41. Fathograms (recorded soundings) taken in deep water off Venice, Boca Grande, and Sanabel Island. January 3-10, 1952. Samples 1258-1437.
- Folder 42. Fathograms (recorded soundings) taken in Gulf inshore waters – Venice to Englewood, and Englewood to Sarasota Bay. April 3-4 and April 23-25, 1952. Samples 1504-2002.
- Folder 43. Fathograms (recorded soundings) taken in Gulf inshore waters – Sarasota to Tampa. April 29, 1952. Samples 2003-2113.
- Folder 44. Fathograms (recorded soundings) taken in deep water off Boca Grande and Sanabel Islands. May 7-8, 1952. Samples 2114-2172.
- Folder 45. Fathograms (recorded soundings) taken from Passe Grille to Tarpon Springs. May 19-22, 1952. Samples 2173-2680.
- Folder 46. Fathograms (recorded soundings) taken in Gulf inshore waters– Venice to Englewood. June 18, 1952. Dredges 22-25.

MA-01913 Map folder with 17 items:

- Eastern Gulf of Mexico, Position Plot, U.S. Fish and Wildlife Service Research Vessel *Alaska*, August 1951. 1 sheet.
- Position Plan. Cruise, November 5-13, 1951: Charlotte Harbor, Pine Island Sound, Myakka, Peace, and Caloosahatchee Rivers, Sarasota to San Carlos Bay. 1 sheet labeled Caloosahatchee, 1 sheet labeled Charlotte Harbor, 1 sheet labeled Boca Grande to Sarasota, November 13, 1951. Photocopy in 4 pieces of Map 7. Charlotte Harbor, Sarasota to San Carlos Bay.
- Tampa Bay. Position Plot. October 1-5, 1951. 4 sheets.
- Sarasota to Tarpon Springs – Inshore and offshore. Position Plot. December 3-12, 1951. 4 sheets.
- Position Plot. Deep Water. Sarasota to Sananabel Island, January 3-10, 1952. 1 sheet – Lower Manatee River, February 12; 1 sheet – Line off Englewood, Florida; 1 sheet – Line off Englewood and Sanabel Island.

Published as: U.S. Geological Survey. Trace elements investigations report 270. 1953.

Published as: U.S. Geological Survey. Trace elements investigations report 330. 1953.