

Guide to the J.D. Graham Papers

WA MSS S-1403



by Susie R. Bock

October 1992

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Collection Overview

REPOSITORY: Beinecke Rare Book and Manuscript Library
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New Haven, CT 06520-8330
(203) 432-2977
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CALL NUMBER: WA MSS S-1403

CREATOR: Graham, J. D. (James Duncan), 1799-1865

TITLE: J. D. Graham papers

DATES: 1804-1896

BULK DATES: 1848-1865

PHYSICAL DESCRIPTION: 26.5 linear feet (50 boxes)

LANGUAGE: English

SUMMARY: The papers document the military career of a topographical engineer in the nineteenth century. The collection contains correspondence, reports, maps, and data from astronomical observations created during the surveys of the Northeastern and Mexican boundaries, a review of the Mason-Dixon Line, a project to improve the Great Lakes's harbors, and a survey of the North and North West Lakes. The papers also have information on Graham's personal life as well as family members such as his son, William Montrose Graham.

ONLINE FINDING AID: To cite or bookmark this finding aid, please use the following link: <https://hdl.handle.net/10079/fa/beinecke.graham>

Requesting Instructions

To request items from this collection for use in the Beinecke Library reading room, please use the request links in the HTML version of this finding aid, available at <https://hdl.handle.net/10079/fa/beinecke.graham>.

To order reproductions from this collection, please send an email with the call number, box number(s), and folder number(s) to beinecke.images@yale.edu.

Key to the container abbreviations used in the PDF finding aid:

b. box
f. folder

Administrative Information

Immediate Source of Acquisition

The J. D. Graham Papers were donated in 1964 and 1965 by Carroll S. Alden, the husband of Graham's granddaughter Meeta Campbell Graham. An inventory of household furniture, 1857, was donated by William Reese in 1995.

Conditions Governing Access

The materials are open for research.

Conditions Governing Use

The J. D. Graham Papers are the physical property of the Beinecke Rare Book and Manuscript Library, Yale University. Literary rights, including copyright, belong to the authors or their legal heirs and assigns. For further information, consult the appropriate curator.

Preferred Citation

J. D. Graham Papers. Yale Collection of Western Americana, Beinecke Rare Book and Manuscript Library.

J. D. GRAHAM (1799-1865)

James Duncan Graham, son of William and Mary Campbell Graham, was born into a Virginian family with a tradition of military service. Graham attended West Point from 1813-17 with his brother William Montrose Graham. In fact all of Graham's brothers attended West Point and some of his stepbrothers and half brothers chose military careers. Not surprisingly, Graham married into another southern military family when he wed Charlotte Hustler Meade, the sister of General George G. Meade in 1828. Their son, William Montrose Graham, followed family tradition and distinguished himself in the artillery.

On graduating from West Point, J. D. Graham entered the artillery corps and assisted Major Stephen Long on his 1819-21 expedition to explore the Great Plains. Graham dates this as the beginning of his career as a topographical engineer (see Box 6, folder 198, letterpress copybook, p. 163), although he was not promoted into the Topographical Bureau until 1829. When the army reorganized in 1838, Graham became a member of the Corps of Topographical Engineers and served the corps until his death in 1865 (eventually rising to the rank of major).

During the 1820s and 1830s Graham worked on a variety of military surveys including the Winchester and Potomac Rail Road in Virginia in 1831-32 and the Alabama, Florida, and Georgia Rail Road in 1836. He served under Major General Thomas S. Jesup in the 1836-37 Seminole Indian campaign. Graham became astronomer for the survey of the Texas-United States boundary of 1838 and later commissioner of the 1840-43 North Eastern Boundary Survey, which settled the border between Maine and British North American. He went on to surveying the Mason-Dixon line and worked for a short period on the Mexican-American border demarcation in 1851. In all of these projects Graham acted as astronomer or supervisor of scientific work. When he took charge of the Great Lakes harbor improvements in 1854 he used his position to gather astronomical data for establishing accurate latitude and longitude readings for the Midwest. While officially supervising the construction of piers and channel dredging, Graham studied Lake Michigan's tides and was able to prove scientifically the existence of a lunar tide. In 1861, he was put in charge of the survey of the north and northwestern lakes and their lighthouses.

During the Civil War Graham's loyalty to the Union was questioned and he was removed from his post. Exactly what happened is not clear from the collection, but in 1864, J. M. Howard wrote to the secretary of war after investigating Graham. He proclaimed Graham loyal, requested he be returned to active service, and suggested he be assigned to New York Harbor (see Box 6, folder 192). Graham was ordered to Boston to serve on the Atlantic Coast Survey. He died there on December 28, 1865.

Scope and Contents

The J. D. Graham Papers document the military career of a topographical engineer in the nineteenth century. The collection spans the dates 1804-96, but the bulk of the material falls in the period 1848-65. Along with the papers of Graham and his family are documents of Cornelius E. Clifford. The relationship of

the Clifford documents to the collection is unclear; the only apparent connection is that in 1864, Graham's son, William Montrose Graham served in Concord, New Hampshire, where Clifford lived and practiced law.

The collection is arranged in eight series with oversize material housed in a ninth series. Series I, *Correspondence*, contains letters to Graham arranged chronologically with a letterpress copybook of outgoing letters at the end of the series. Series II, *General Military Papers*, consists of documents from Graham's career which do not belong to any one project or can not be identified with a specific project. The material is arranged by type, of document and within type chronologically. Series III, IV, V, and VI represent Graham's military assignments: North Eastern Boundary Survey, Mason-Dixon Line Survey, Mexican Boundary Survey, and Great Lakes Harbor Improvements and Survey of the North and North West Lakes. In each of these series reports, maps, and plans are grouped together, followed by data from observations and administrative records. Series VII, *Personal and Family Papers*, consists of papers related to various family members filed under their names. Series VIII, *Cornelius E. Clifford Papers*, contains correspondence and a speech.

[Series I, Correspondence](#) (Boxes 1-6), consists of letters to Graham as well as some copies of Graham's outgoing letters and copies of letters by third parties regarding Graham's work. Other letters by Graham from 1859-65 can be found in a letterpress copybook (Box 6, folders 96-101). Graham's correspondence chronicles his military career, astronomical interests, and, to a lesser extent, his personal life. Most letters are to fellow topographical engineers, directors of learned societies, and other academics, both American and European.

Letters of 1839 and 1841 focused on the Texas boundary survey and include copies of letters by others to Commissioner John H. Overton concerning the establishment of the United States and Texas teams. In 1841 Graham wrote about calculating the latitude and longitude for maps of the Texas border and Sabine River (see also the maps created from this work, Box 43, folders 753-54). The correspondence turned to the North Eastern Boundary Survey with Graham, who was appointed commissioner, writing to Lt. Thomas J. Lee about equipment, provisions, and surveying the Aroostook River basin. Letters to and from Graham also documented boundary disputes with the British team. There are a few letters to Graham from his superiors. Throughout 1842-43 the northern border is the major topic. From 1844-47 Graham's correspondence mixed the border commissioner's routine business with personal matters. There were several friendly letters from F. Schroeder about Graham's house in Washington, D.C., which had burned.

The year 1848 marked the beginning Graham's correspondence with Lt. Amiel W. Whipple, a topographical engineer with whom Graham would work on the Mexican survey. It also marked the end of his association with the North Eastern survey as James Buchanan ordered him to collect the astronomical instruments, and later in 1849, to turn them over to W. H. Emory for use in the Mexican survey. (Graham would continue submitting expense accounts and paper work concerning the northeastern survey into the 1850s.) Graham received notification from J. J. Abert that he was to take over the Mason-Dixon line survey. Letters from the Maryland, Delaware, and Pennsylvania commissioners discussed the survey with Graham while letters from George Read Riddle, an engineer, described the actual work. A copy of an 1848 letter from the Secretary of War to General R. Jones states that Graham and Emory should not be tried, but for what is not clear. Graham corresponded with both Emory and Whipple on business and pleasure during this period.

Graham's correspondence in 1850 touched on three different survey projects. There are copies of documents exchanged by the United States and England regarding North Eastern Survey material lost in a fire and a request for British copies. Other letters discussed Graham's fee for the Mason-Dixon survey and the production of maps. C. Radzimirski wrote Graham regularly about the survey work and Graham received copies of the commissioners' letters to their governors reporting progress. Starting in February, letters documented Graham's assignment to and work on the Mexican Boundary Survey. Letters from Whipple, John R. Bartlett, John McClellan, Asa B. Gray, J. J. Abert, as well as copies of their letters to others, discussed how the survey would be run, scientific operations, staff, supplies, and equipment, particularly astronomical instruments.

In 1851 the correspondence continued to focus on the Mexican survey; in January Graham was officially appointed principal astronomer. Bartlett, Whipple, Abert, and Gray continued as main correspondents while John Bull and D. E. Goddard began communicating with Graham. By August the letters documented a growing tension among survey personnel, in particular between Bartlett and Graham. Another

correspondent was William Würdeman, whom Graham commissioned to make instruments. Letters dated in September relieved Graham of duty and appointed Emory, but later correspondence proved Graham did not receive these orders until December.

Although Graham returned to Washington, D.C., in 1852 his letters continued to discuss the Mexican border survey. Through 1853, Whipple and T. F. White kept Graham informed of the survey and events on the border. Correspondence with Asa Gray, Louis Agassiz, and Spencer F. Baird documented Graham's involvement with the scientific operations attached to the survey, such as collecting specimens. Graham's letters proved that he widely disseminated his report on the Mexican survey to learned societies. As always, Graham wrote to many colleagues, such as topographical engineer William F. Reynolds and J. M. Wampler of the U.S. coastal survey.

In mid-1853 the focus of the correspondence changed, reflecting Graham's new assignment as supervising engineer for the Great Lakes Harbor Improvements. During August and September Graham's correspondence concerned the issue of private versus public interests as played out by railroads that sought access to rivers and harbors by means of public piers. Graham and Stephen H. Long exchanged information on tide gauges, and a few letters harked back to earlier business, such as North Eastern Boundary survey finances. Baird wrote concerning the natural history report for the Mexican boundary commission; Lt. George Thom wrote on finances; T. F. White sent news from Texas, and John Watkins brought up the Gadsden Treaty and enquired if Graham would like to return to the Mexican survey. There was some correspondence regarding the estate of R. W. Meade, Graham's father-in-law, and letters from John W. Gunnison about finding a house and harbor business.

The correspondence for 1855-59 documented Graham's work on the harbors as well as how he disseminated information about that work. Correspondence with his staff, James Green, John Wilson, John O'Donoghue, R. M. Millar, J. F. Vogel, J. R. Mayer, Gunnison, and Whipple, focused on the actual work of the harbor project including dredging, building new piers and lighthouses, calculating longitude, and charting the tides and harbor depths. Letters from Joseph D. Webster, G. K. Warren, William R. Palmer, General Cass, John N. Macomb, George Meade, and A. A. Humphries thanked Graham for the maps and reports he provided, noted the importance of Graham's astronomical work, and generally exchanged information. Graham was also in contact with the Royal Observatory in London and the National Observatory in Washington, as well as many learned societies, journals, and libraries. In all of his reports on the harbors, longitude, and the lunar tides, Graham followed a pattern: collect information, publish, personally distribute his work to colleagues, and donate copies to libraries. He also kept in touch with Abert, who as chief of the topographical engineers represented Graham's work to Congress and passed appropriations and instructions back to him.

Starting in 1860 Graham's correspondence reflected the growing tension between North and South. Letters from his brother-in-law William F. Wickham described reactions in Virginia to the Harper's Ferry affair. Graham continued to correspond with learned societies and his colleagues. The correspondence for 1861-1865 was more eclectic and it is hard to follow Graham's movements. In 1861 he began work on a survey of the north and northwestern lakes and lighthouses and in 1864 he was ordered to Boston. Several letters documented Graham's interest in genealogy.

The letterpress copybook (Box 6, folders 96-101) contains copies of Graham's business and personal letters from 1859-65. Generally they concerned the same topics discussed above, but they documented more clearly Graham's personal concerns. In 1859 Graham wrote to representatives in Florida and Alabama about family real estate. His letters for this year clearly showed his habit of ordering 100 extra copies of his works and sending them to select colleagues and institutions. In his correspondence for the late 1850s, Graham often exchanged information with local professionals in order to calculate longitude and latitude for places not related to his official work. Letters of 1860 showed his keen interest in genealogy and contained detailed biographies of his brothers, sisters, and parents. His excitement over his discovery of lunar tides was evident in the letters for 1860. In 1861 Graham revealed his political feelings and his loyalty to his home state. The letterpress copybook includes an alphabetical index of recipients.

[Series II, General Military Papers](#) (Boxes 7-8), contains documents of Graham's military career which either do not relate to Graham's posts, documented in Series III-VI, or have information on more than one of his assignments. This series is subdivided into *Financial Papers*, *General Orders*, *Maps*, and *Other Papers*.

An account book (Box 7, folder 102) is a rough recording of financial transactions for the surveys of Maine and Mexico as well as the lakes survey. Receipts and agreements (Box 7, folders 103-06) relate to the food and supplies of units with which Graham was involved as well as services rendered those units. There is a collection of general orders (Boxes 7-8, folders 107-31), the printed circulars issued to all military officers, which is extensive for 1862-64, although not complete. The series also contains printed maps probably produced by military engineers and may represent projects with which Graham was involved. Several of the maps have annotations by Graham, such as the map of Texas and New Mexico on which Graham cited his contributions that had been neglected in the printed version (Box 43, folder 754). *General Military Papers* also contains Graham's diary from the Texas border survey and a description of the United States attack on Mexico which may be by Graham (Box 8, folder 133-33.1). Series II contains various other papers related to the military.

[Series III, North Eastern Boundary Survey](#) (Boxes 9-10), consists of three subseries: *Reports, Plans, Letters, Maps; Data from Observations and Calculations; and Administrative Records*. Graham was appointed a commissioner under the Treaty of Washington to explore and survey the boundary between the United States (specifically Maine and New Hampshire) and British North America. Series III contains copies of the communications among the State Department, Graham, and his fellow commissioners, and Graham's instructions to A. W. Longfellow on how to construct boundary monuments (Box 9, folders 141-46). There are reports on surveys of the Aroostook River Basin and St. John River, some sketches of the boundary line, and a copy of a plan to settle the boundary dispute.

Series III also contains the records of astronomical observations made with a chronometer and used to calculate latitude and longitude (Box 9, folders 151-56). Observations for 1840 were made by Graham, but later he was assisted by Lt. Thomas J. Lee, Lt. George Thom, Freeman Franklin, and Capt. Johnston. There are also financial receipts documenting the expenses of the American survey party for 1842-51, as well as inventories of instruments and staff records (Boxes 9-10, folders 158-164, and Oversize, Box 44, folders 760-70).

[Series IV, Mason-Dixon Line Survey](#) (Boxes 11-14), consists of two sections, *Reports and Maps* produced by Graham in the course of his work and *Copies from the Maryland and Pennsylvania Archives* which Graham used for background information. The War Department loaned Graham to Maryland, Delaware, and Pennsylvania to examine their common border. The collection contains both a draft and a printed version of Graham's report to the commissioners (Box 11, folders 166-67). Two manuscript maps and a triangulation sketch illustrate Graham's work (Box 44, folder 771). The report, which describes Graham's assignment and findings, records that the original documents of the Mason-Dixon survey from the Maryland archives were placed at Graham's disposal in order to complete the task (see *Report*, p. 4). Graham had copies made and these reference tools are in the collections (See Boxes 11-15, folders 169-207).

[Series V, Mexican Boundary Survey](#) (Boxes 15-16), is organized like Series III. *Reports, Plans, Letters, Maps* contains the substantive work of the Mexican-American border survey. *Data from Observations and Calculations* consists of the astronomical readings used to calculate geographic location. *Administrative Records* contains records on equipment and personnel as well as astronomical instruments. Series V begins with documents establishing the survey process and reporting on its progress (Box 15, folders 206-19). Items include copies of the articles of the Treaty of Guadalupe Hidalgo noting the course of the boundary line, the journal of the boundary commission for 1849-50, and instructions. Printed speeches by Congressional leaders and manuscript reports are also filed in this section, as well as a manuscript document stating the "Facts" of the dispute between Graham and Bartlett over their respective positions on the survey (Box 15, folder 215). This dispute is further documented in a manuscript letter by Graham to the *New York Herald* (Box 15, folder 223). Graham's diary (Box 15, folder 220) consists of a series of rough notes, not all in the same format, covering May and July-October 1851. The series contains a copy of J. J. Abert's notes explaining the purpose of the survey team and thus the responsibilities of the men assigned to the survey. Several other reports, maps, and newspaper clippings document the survey of the Mexican-American border. There are a few astronomical readings and calculations, all dating from 1851 when Graham was responsible for the work (Box 15, folder 226-227; Box 44, folder 775). *Administrative Records* consist of papers regarding equipment and personnel for 1851-53 and papers regarding astronomical instruments for 1850-53 (Boxes 15-16, folders 228-40).

[Series VI, Great Lakes Improvements & Lakes Survey](#) (Boxes 17-30), documents two of Graham's military posts: Supervising Engineer of the Great Lakes Harbor Improvements and head of the North and North West Lakes Survey. Because the projects shared common subject matter it is difficult to distinguish their records: both projects are presented in Series VI. The records from the Lakes projects are the most voluminous and comprehensive in the collection, partly because it was Graham's longest assignment (from 1854 until his death in 1865) and because it was his last post. Most of Graham's papers from his early life were probably destroyed in a fire at his home in Washington, D.C. in the late 1840s. Series VI is arranged in four sections. *Reports, Plans, Maps* consists of reports and maps by which Graham and his staff documented the harbor improvements and lake surveys. *Data from Observations and Calculations* contains the information gathered during the course of these projects. *Administrative Records* and *Financial Records* contains the routine office paperwork.

Reports, Plans, Maps (Boxes 17-19) of Series VI is arranged chronologically. It consists chiefly of the annual reports Graham submitted to the Corps of Topographical Engineers along with drafts and errata, as well as reports his staff submitted to Graham. These reports focus on improvements made to harbors, rivers, and flats, meteorological conditions of the lakes, commerce on the lakes, longitude values, and surveys of the lakes. Charts, maps, and sketches illustrate these projects. Included with the work by Graham's staff is an 1859 report by George G. Meade, supervisor of the North and North West Lake Survey before Graham (Box 17, folder 250). At the end of the series are several reports or documents related to Graham's work but not produced by his staff. These reports refer to the railroad's access to public piers, transfer of government lands, lighthouses, and commerce (Box 19, folders 265-66, and oversize e folder 2 and b 11).

Data from Observations and Calculations (Boxes 19-21) of Series VI documents three major activities: determining longitude for towns in the region; proving the existence of a lunar tide; and documenting commerce on the Great Lakes. Graham determined the longitude of places by astronomical observations and by comparing times of telegraph signals. His annual report for 1859 (Box 17, folder 249) explains his method and instructions for using signals (Box 42, folder 724). By using the tide gauges to observe the height of the lake and comparing figures with lunar readings, Graham proved that the Great Lakes have a lunar tide. There are several sets of tide registers in the collection showing the change in lake surface over time. The last set of data, statistics on the exports and imports for various Great Lakes harbors, were culled from data on the value and quantity of merchandise transported by rail or sea to the ports maintained by the collector's offices at various ports.

Administrative Records (Boxes 24-25) of Series VI consists chiefly of property returns recording equipment attached to various harbors, lighthouses, and steam dredges. These documents are simple lists of goods and property on hand at the beginning or end of a month, but the collection does not contain reports for every month. Property returns are organized by place. There are also a few legal papers regarding the construction of lighthouses and the loan of government steam dredges to private concerns.

Financial Records (Boxes 25-30) of Series VI are arranged in "General," "Light House Establishment," and "Great Brewster Island Sea Wall Project." The first section of records, spanning 1851-1865, documents Graham's financial transactions as supervisor of the Great Lakes Harbor Improvements, and, to a lesser extent, as supervisor of the North and North West Lakes Survey. These records show equipment and staffing costs as well as outside service expenses (Boxes 25-27, folders 371-420). The finances of the lakes survey are documented in the account books (Box 27, folders 421-423) and in the following two sections. "Light House Establishment," organized chiefly by lighthouse, contains accounts of staff, equipment, and service expenses for specific lighthouses (Box 28, folders 431-46). There are also receipts for taxes paid on the salaries of the staff of the lakes survey (Box 27, folders 427-28). "Great Brewster Island Sea Wall Project" is organized by type of material and chronologically. It consists of the financial records for this single project of the survey carried out in 1864-66 (Boxes 28-30, folders 447-71).

[Series VII, Personal and Family Papers](#) (Boxes 31-40), contains personal papers of J. D. Graham and papers related to members of his immediate family. The collection contains a manuscript, "Refutation," by Graham's brother Campbell, which responds to a report by J. J. Abert (Box 31, folder 372). The document reviews Campbell Graham's military career in the Corps of Topographical Engineers. A letter by J. D. Graham's first wife, Charlotte Meade, to her cousin Miss Parker describes her happy marriage and passes on family news (folder 373).

The bulk of Series VII consists of the personal papers of J. D. Graham, which are arranged alphabetically by title. "Deeds, leases, mortgages, and other property documents" refers to goods, real estate, and land owned or rented by Graham (Box 31, folder 374-77). There is also an inventory of household furniture, dated 1857. Information on Graham's property can also be found in his insurance documents, legal papers, R. W. Meade's estate papers, and the folder on taxable property in Chicago (Box 39, folders 585-590, 591, 595). Graham's diary contains daily notes on expenses and his activities for 1854-56 (Box 31, folder 378). The financial papers (Boxes 31-38) provide the most comprehensive documentation of Graham's personal life. The papers, spanning 1847-65, consist of receipts, cancelled checks, and account books recording goods and services purchased by J. D. Graham for his family. There are notes on historical and scientific societies indicating Graham's interests (Box 39, folder 584). There is also a reproduction of a photographic portrait of Graham; the original image dates from around 1855 (Box, folder 592).

The papers contain a letter to a young James Duncan Graham Jr. from his Aunt Margaret Meade (Box 39, folder 597) and orders to Brevet Major Lawrence Pike Graham, serving in Kansas in January 1858, to escort General Calhoun, president of Kansas's Constitutional Convention, to Lecompton (folder 598). The letter containing the order alludes to the general unrest in Kansas and commands L. P. Graham to put his troops at the disposal of General Denver, Acting Territorial Governor, when he reaches Lecompton. The only other item concerning Lawrence Graham is a manuscript map of a military march from Monterey, Mexico to California in 1848-49, accompanied by a list of places with notes on the road and the availability of wood, water, and grass (Box 50, folder 827). A printed pamphlet of rules for the Lyceum Society of West Chester, Pennsylvania probably belonged to Graham's son R. W. Meade Graham (folder 599). William Montrose Graham, who attended West Point with his brother J. D., is represented by letters and supply receipts that document his military career, particularly the campaign against the Seminole Indians in Florida (Box 39, folders 600-04). Graham's son, also named William Montrose Graham, became a general in the artillery. The collection contains fourteen mounted paper print photographs of his posts at the Presido, California and Fort Riley, Kansas. The images depict officers and troops posed at the forts. There are several photographs of nineteenth century cannons.

[Series VIII, *Cornelius E. Clifford Papers*](#) (Box 41), contains business correspondence of Clifford, a lawyer practicing in Concord, New Hampshire. Most of the letters are from clients and colleagues concerning local civil suits in 1895-96. There are a few letters by Clifford in 1896. A speech, in Clifford's handwriting, concerns the Irish rebel Robert Emmet.

[Oversize](#) (Boxes 42-50) contains material from Series II-VII. The arrangement, based on the size of the material, parallels the order of the collection.

Collection Contents

Series I: Correspondence, 1838-65

3 linear feet (6 boxes + 1 bound volume)

Correspondence contains letters to and from J. D. Graham spanning his professional and personal life. The series is arranged chronologically with Graham's letterpress copybook (copies of letters sent by Graham) for 1859-61 placed at the end.

b. 1, f. 1	Correspondence	1838 May 20
b. 1, f. 2	Correspondence	1839 Jul 8
b. 1, f. 3-4	Correspondence	1841
b. 1, f. 5	Correspondence	1842
b. 1, f. 6	Correspondence	1843
b. 1, f. 7	Correspondence	1844-47
b. 1, f. 8	Correspondence	1848
b. 1, f. 9-11	Correspondence	1849
b. 1, f. 12-14	Correspondence	1850 Jan-Jun
b. 2, f. 15-18	Correspondence	1850 Jul-Dec
b. 2, f. 19-30	Correspondence	1851
b. 3, f. 31-36	Correspondence	1852
b. 3, f. 37-43	Correspondence	1853
b. 3, f. 44	Correspondence	1854 Jan-May
b. 4, f. 45-48	Correspondence	1854 Jun-Dec
b. 4, f. 49-53	Correspondence	1855
b. 4, f. 54-59	Correspondence	1856
b. 4, f. 60-64	Correspondence	1857
b. 5, f. 65-75	Correspondence	1858
b. 5, f. 76-80	Correspondence See also Letterpress copybook at the end of the Series	1859
b. 6, f. 81-86	Correspondence See also Letterpress copybook at the end of the Series	1860
b. 6, f. 87-88	Correspondence See also Letterpress copybook at the end of the Series	1861

b. 6, f. 89-90	Correspondence See also Letterpress copybook at the end of the Series	1862
b. 6, f. 91	Correspondence See also Letterpress copybook at the end of the Series	1863 Feb 3
b. 6, f. 92	Correspondence See also Letterpress copybook at the end of the Series	1864
b. 6, f. 93	Correspondence See also Letterpress copybook at the end of the Series	1865
b. 6, f. 94-95	Correspondence	n.d.
b. 6, f. 96	Letterpress copybook (with index) Pages 641-52, 706-07 missing	1859-65
b. 6, f. 97	Letterpress copybook: loose material found inside front cover	1863-64, n.d.
b. 6, f. 98	Letterpress copybook: pages 368-75	1860
b. 6, f. 99	Letterpress copybook: loose material found between pages 622-23	n.d.
b. 6, f. 100	Letterpress copybook: business card found between p. 639-40	n.d.
b. 6, f. 101	Letterpress copybook: loose material found inside back cover	1864, n.d.

Series II: General Military Papers, 1827-68*0.75 linear feet (2 boxes)*

General Military Papers contains documents from Graham's military career that do not belong to any one project or can not be identified with a specific project. This series is subdivided into *Financial Papers*, *General Orders*, *Maps*, and *Other Papers*, and most of the material is arranged chronologically.

FINANCIAL PAPERS

b. 7, f. 102	Account book	1848-57
b. 7, f. 103	Receipts and agreements	1833-40
b. 7, f. 104	Receipts and agreements	1845-48
b. 7, f. 105	Receipts and agreements	1849-51
b. 7, f. 106	Receipts and agreements	1858

GENERAL ORDERS

b. 7, f. 107	General orders	1848
b. 7, f. 108	General orders	1852
b. 7, f. 109	General orders	1861
b. 7, f. 110-15	General orders Accompanied by an annual index	1862
b. 7, f. 116-19	General orders	1863 Jan-Apr
b. 8, f. 120-26	General orders	1863 May-Dec
b. 8, f. 127-30	General orders	1864
b. 8, f. 131	General orders	n.d.

MAPS

	<i>Sketch of the Public Surveys in Iowa Territory</i> See: Oversize, Box 43, folder 734	[1827-28]
	<i>Sketch of the Public Surveys in Wisconsin Territory</i> See: Oversize, Box 43, folder 735	[1827-28]
	<i>A diagram of the triangulation for the survey of the coast of the United States ...Connecticut and Long Island</i> See: Oversize, Box 43, folder 736	1834
	<i>Map exhibiting the position of the several lines connected with the settlement of the Ohio boundary question (accompanied by 3 related maps)</i> See: Oversize, Box 43, folder 737	1835
	<i>Survey of a ship canal around the falls of Niagara</i> See: Oversize, Box 43, folder 738	ca. 1835-36

MAPS (continued)

<i>Map of the seat of war in east Florida</i> See: Oversize, Box 43, folder 739	1837
<i>Map of the Cherokee cession in Alabama</i> See: Oversize, Box 43, folder 740	1837-38
<i>Arkansas. Map of Arkansas surveying district shewing the extent of the public surveys (two versions)</i> See: Oversize, Box 43, folder 741	1837, 1839
<i>A plat exhibiting the surveys as they are in the Territory of Florida (two versions)</i> See: Oversize, Box 43, folder 742	1837, 1839
<i>Map of...various routes surveyed for the Western & Atlantic Rail Road of Georgia</i> See: Oversize, Box 43, folder 743	1837
<i>Diagram of the state of Illinois (two versions)</i> See: Oversize, Box 43, folder 744	1837, 1839
<i>Map of the south western district Louisiana (three copies, two versions)</i> See: Oversize, Box 43, folder 745	[1837-40]
<i>St. Helena district La. (two versions)</i> See: Oversize, Box 43, folder 746	[1837-40]
<i>Southeastern district Louisiana (two versions)</i> See: Oversize, Box 43, folder 747	[1837-40]
<i>Map of the District North of Red River La. (two versions)</i> See: Oversize, Box 43, folder 748	[1837-40]
<i>Diagram of the state of Missouri (two versions)</i> See: Oversize, Box 43, folder 749	1837, 1839
<i>Core Sound North Carolina (accompanied by four related maps)</i> See: Oversize, Box 43, folder 750	1837
<i>Sketch of the public lands in the north part of Michigan</i> See: Oversize, Box 43, folder 751	[1839-40]
<i>Diagram of the surveying district South Tennessee</i> See: Oversize, Box 43, folder 752	[1839-40]
<i>Map of Texas and the countries adjacent: compiled... for the State Department (two copies each with annotations by Graham)</i> See: Oversize, Box 43, folder 753	1844
<i>Map of Texas and part of New Mexico compiled in the Bureau...chiefly for military purposes (four copies each with annotations by Graham)</i> See: Oversize, Box 43, folder 754	1857

MAPS (continued)

	<i>Kansas with parts of the neighboring states and territories</i> See: Oversize, Box 43, folder 755	1868 Oct
	[Map of the Mississippi River from Chuteau's Island to St. Louis] See: Oversize, Box 43, folder 756	n.d.
	"Chart of the Tamasi River, surveyed and drawn by Capt. W. Cole for Col. Gates" See: Oversize, Box 43, folder 757	n.d.
OTHER PAPERS		
b. 8, f. 132	Design of belt buckle, spurs, and decorations on the uniform	1829-39
	<i>A Report upon the Military and Hydrographical Chart of the Extremity of Cape Cod including the townships of Provincetown and Truro with their seacoasts and ship harbor</i> See: Oversize, Box 42, folder 721	
b. 8, f. 133	Description of the U.S. attack on Mexico City, unsigned narrative and papers dated from Mexico city	[1847-48]
b. 8, f. 133.1	Graham's diary from survey of Texas border	1848
b. 8, f. 134	Data on sidereal chronometer	1848
b. 8, f. 135	Inventory	1848
b. 8, f. 136	Miscellaneous astronomical and meteorological papers	1851-59, n.d.
b. 8, f. 137	<i>Annual Report of the Secretary of the Interior, to the President</i> (reporting on the survey of public lands)	1853 Dec 9
b. 8, f. 138	<i>Official Report to the United States Engineer Dept, of the Siege and Reduction of Fort Pulaski, Georgia</i>	1862
	<i>Army and Navy Official Gazette</i> See: Oversize, Box 42, folder 722	1862-63
b. 8, f. 139	"Explosion of Steam Boilers," unsigned report	n.d.
b. 8, f. 140	"Medicines authorized by the Med. Dept. U.S. Army extracted from the Army Regulations"	n.d.

Series III: North Eastern Boundary Survey, 1840-52*0.75 linear feet (2 boxes)*

North Eastern Boundary Survey is subdivided into *Reports, Letters, Maps; Data from Observations and Calculations;* and *Administrative Records*. These sections are arranged chronologically.

REPORTS, LETTERS, MAPS

b. 9, f. 141-46	Draft letters and copies of correspondence	1840-49, n.d.
b. 9, f. 147	Report on the survey of the Aroostook River Basin	1841
b. 9, f. 148	Report on the survey of St. John River and its Islands by Thomas J. Lee	[1843]
b. 9, f. 149	Sketches and notes on survey line	1845 Aug
b. 9, f. 150	Copy of the plan for settling the boundaries accompanied by maps	1852 Jul 30
	Map showing Portage Lake, Maine See: Oversize, Box 44, folder 758	n.d.

DATA FROM OBSERVATIONS AND CALCULATIONS

b. 9, f. 151-55	"Determination of the time, by observed equal altitudes of the Sun's limbs" See also: Oversize, Box 42, folder 723	1840-55
b. 9, f. 156	Lists of latitude and longitude of various places See also: Oversize, Box 44, folder 759	1841-45, n.d.
b. 9, f. 157	Miscellaneous astronomical observations and calculations	1840-43

ADMINISTRATIVE RECORDS

b. 9, f. 158-59	Financial papers	1842-48
b. 10, f. 160-63	Financial papers	1849-51
b. 10, f. 164	Inventories and other documents concerning instruments	1843, 1849
	Muster rolls See: Oversize, Box 44, folder 760-68	1844-52
	Clothing accounts See: Oversize, Box 44, folders 769-70	1848, 1850
b. 10, f. 165	List of North Eastern Boundary documents	1851 Jan

Series IV: Mason-Dixon Line Survey, 1848-62*1.5 linear feet (4 boxes)**Mason-Dixon Line Survey* is subdivided into *Reports and Maps* and *Copies from the Maryland and Pennsylvania Archives*. These sections are arranged chronologically.

REPORTS AND MAPS

b. 11, f. 166	Draft report of Lieut. Col. J. Graham, U.S. Topographical Engineers, on Mason and Dixon's Line	1850 Feb 27
b. 11, f. 167	<i>Report of Lieut. Col. J. D. Graham, U.S. Topographical Engineers, on Mason and Dixon's Line</i>	1862
	Maps of the Mason-Dixon line near Delaware Bay and head of the Chesapeake Bay and triangulation figure (three sketches) See: Oversize, Box 44, folder 771	n.d.
b. 11, f. 168	Miscellaneous notes, observations, and calculations	1848-51, n.d.

COPIES FROM THE MARYLAND AND PENNSYLVANIA ARCHIVES

This subseries contains copies of documents from the original Mason-Dixon survey which Graham had made for his use. The material is arranged chronologically by the date of the originals.

b. 11, f. 169	List of documents in bundles A and B	[1849]
b. 11, f. 170	Commission from Cæcilius Lord Baltimore to Leonard Calvert for granting land, 1636 Aug 8	[1849]
b. 11, f. 171	Commission from Charles Lord Baltimore to Colonel Talbot to demand of William Penn land on the west side of the Skookill River, and Talbot's formal demand, 1683 Sep 17, 24	[1849]
b. 11, f. 172-73	Articles of agreement between Maryland and Pennsylvania touching on boundaries and commission appointing executors, 1732 May (two copies)	[1849]
b. 11, f. 174	Commission to run the lines between Maryland and Pennsylvania, 1732 May 12	[1849]
b. 11, f. 175	Testimonies regarding a land dispute in Cecil County, Maryland, 1734	[1849]
b. 11, f. 176	Commission from Lt. Gov. of Pennsylvania to Lawrence Growden and Robert Peters for running temporary lines, 1738-39	[1849]
b. 11, f. 177	Testimonies regarding a land dispute in Cecil County, Maryland, 1739	[1849]
b. 11, f. 178	Letters regarding relations between various colonies, the French and the Indians, 1748-49	[1849]
b. 11, f. 179	Letter from French commander at an old Shawnee village on the Ohio River to Gov. Hamilton of Pennsylvania, 1749 Aug 6 (three copies)	[1849]
b. 11, f. 180	Letter from French commander at an old Shawnee village on the Ohio River, 1749 Aug 10	[1849]
b. 11, f. 181	Indenture between Lord Baltimore and Thomas and Richard Penn, 1760 Jul 4 (first of two copies)	[1849]

COPIES FROM THE MARYLAND AND PENNSYLVANIA ARCHIVES (continued)

b. 12, f. 182	Indenture between Lord Baltimore and Thomas and Richard Penn, 1760 Jul 4 (second copy)	[1849]
b. 12, f. 183-84	Commission for running the boundary lines, 1760 Jul 5 (two copies)	[1849]
b. 12, f. 185-86	Commissioner's journal, Nov 1760 - Nov 1768 (two copies)	[1849]
b. 13, f. 187-88	Field notes and journal of the surveyors, Dec 1760 - Dec 1761 (two copies)	[1849]
b. 13, f. 189	Field notes and journal of the surveyors, Nov 1763 - Oct 1767	[1849]
b. 13, f. 190-91	Commission to allow more time to settle the boundaries, 1764 Jun 2 (two copies)	[1849]
b. 13, f. 192	Commission to allow more time to settle the boundaries, 1765 Dec 14 (two copies)	[1849]
b. 14, f. 193-94	Commission to allow more time to settle the boundaries, 1766 Nov 1 (two copies)	[1849]
b. 14, f. 195-96	Commission to allow more time to settle the boundaries, 1767 Nov 2 (two copies)	[1849]
b. 14, f. 197	Memorandum regarding the settling of the stone at the middle point of the line across the peninsula, 1768 Sep 10	[1849]
b. 14, f. 198	Instructions by Mason and Dixon for determining latitude, 1769	[1849]
b. 14, f. 199	Instructions for determining latitude of Philadelphia, n.d.	[1849]
b. 14, f. 200-01	Instructions on questions raised by the Commissioners, n.d. (two copies)	[1849]
b. 14, f. 202	Three drafts of proposed minutes of the Commissioners' proceedings, n.d.	[1849]
b. 14, f. 203	Fragment of an agreement for running the temporary lines	[1849]
b. 14, f. 204	Reasons for a superficial measure, n.d.	[1869]
b. 14, f. 205	Memorandum and letter regarding the taking of an Indian baby, n.d.	[1849]

Series V: Mexican Boundary Survey, 1848-53*0.75 linear feet (2 boxes)*

Mexican Boundary Survey is subdivided into *Reports, Plans, Letters, Maps; Data from Observations and Calculations;* and *Administrative Records*. These sections are arranged chronologically.

REPORTS, PLANS, LETTERS, MAPS

b. 15, f. 206-19	Background information, instructions, reports, and notes for surveying the Mexican-American border	1848-52, n.d.
b. 15, f. 220	Graham's diary	1851
b. 15, f. 221	Notes by Col. Abert regarding the survey	1851 Oct 30
	<i>Barometric profile of the route from San Antonio ... to the Copper Mines of Santa Rita in New Mexico, in 1851... by...Graham, accompanied by his notes</i> See: Oversize, Box 44 folder 772	1851
b. 15, f. 222	"Doctor Asa Gray's 1st Report to Lt. Col. Graham...on the Botanical Collections made...in Texas, New Mexico, and Sonora"	1851
	Three maps referred to in Graham's report to the Secretary of the Interior, Senate Ex. Doc. 121, 32nd Congress, 1st session See: Oversize, Box 44, folder 773	1851
	Newspaper clippings See: Oversize, Box 44, folder 774	1852, 1855
b. 15, f. 223	Letter to <i>The New York Herald</i> by Graham in reply to J. R. Bartlett	1853 Apr 11
b. 15, f. 224	Notes on the various lines considered by the Mexican Boundary Commission	n.d.
b. 15, f. 225	Miscellaneous	n.d.
DATA FROM OBSERVATIONS AND CALCULATIONS		
b. 15, f. 226	Astronomical notes	1851, n.d.
b. 15, f. 227	Determination of longitude	1851
	"Determination of the line and latitude of Indianola, Texas" See: Oversize Box 44, folder 775	1851 Apr 25
ADMINISTRATIVE RECORDS		
b. 15, f. 228-33	Receipts, invoices, and other documents regarding equipment and personnel	1851-53, n.d.
b. 16, f. 234-40	Returns, invoices, and other documents regarding instruments	1850-53, n.d.

Series VI: Great Lakes Improvements & Lakes Survey, 1854-64

6 linear feet (14 boxes)

Great Lakes Improvements & Lakes Survey is subdivided into *Reports, Plans, Maps; Data from Observations and Calculations; Administrative Records; and Financial Records*. The general arrangement is chronological.

REPORTS, PLANS, MAPS

Reports of Graham's Work

b. 17, f. 241	Annual reports on the work done at Racine Harbor, Manitowoc Harbor, and Milwaukee Harbor	1854 Oct
b. 17, f. 242	<i>Message for the President... transmitting copies of contracts, &tc., for the Improvement of harbors and rivers on Lake Michigan</i> (H. Ex. Doc. 71 33 Cong. 1st Sess.)	1854
	<i>Chart of Chicago Harbor Illinois shewing the main entrance for ships, and the state of the bar after completing the dredging...</i> See: Oversize, Box 45, folder 776	1854
b. 17, f. 243	Annual reports on the work done at Kenosha Harbor, Michigan City Harbor, and St. Joseph Harbor	1855 Jan
	Sketch of unknown harbor, with soundings See: Oversize, Box 46, folder 785	1855 Sep 30
b. 17, f. 244	<i>Report of the Secretary of War, communicating...the report of Lieut. Col. Graham, respecting the improvement of the navigation over the Flats of St. Clair River</i> (Printed at the office of the <i>Nautical Magazine and Naval Journal</i>)	1856 May 19
b. 17, f. 245	Annual report of the progress of works on Lake Champlain, Lake Ontario, and Lake Erie	1856 Sep 1
b. 17, f. 246	"Errata [for S. Ex. Doc. 16, 34 Cong. 3d Sess]....Graham's Reports on the Commerce and improvement of the Lake Harbors....for the years 1855 & 1856"	[1856]
b. 17, f. 247	"Maps sent by Lt. Col. Graham to the Bureau of Topl. Engrs. since his superintendence of Lake Harbors"	[1857]
b. 17, f. 248	Extracts of letters regarding government timber at Erie Harbor	[1857-59]
b. 17, f. 249	<i>Annual Report of...Graham,...on the Improvement of the Harbors of Lakes Michigan, St. Clair, Erie, Ontario, and Champain...</i> (for 1858)	1859
b. 17, f. 250	<i>Directions for Water-level and Meteorological Observations, and the registry of Periodical Phenomena</i> by Supt. Survey N. and N.W. Lakes Geo. G. Meade	1859
b. 17, f. 251	<i>Annual Report of...Graham,...on the Improvement of the Harbors of Lakes Michigan, St. Clair, Erie, Ontario, and Champain...</i> (for 1860)	1860
b. 17, f. 252	"Errata. A complete list of corrections to be made in...Graham's annual report for the year 1860 to the Topographical Bureau..."	[1860]

REPORTS, PLANS, MAPS > Reports of Graham's Work (continued)

b. 17, f. 253	"Errata. Additional corrections to be made in the annual report of the Topographical Bureau...for the year 1860" and "documents accompanying the President's Message of December 1860"	[1860]
b. 18, f. 254	<i>Report of the Topographical Bureau for the Year 1861</i>	1861
b. 18, f. 255	"Corrections to be made in the annual report of the Topographical Bureau...for the year 1861" and "documents accompanying the President's Message of December 1861" (S. Ex. Doc. 1, 37 Congr. 2d Sess)	[1861-63]
b. 18, f. 256	"To be attached to the Detroit copy of Col. Graham's annual report for the year 1861. Fluctuations in the elevation of the surface of Lake Michigan"	[1861]
b. 18, f. 257	Report to Graham "upon the progression of the waves of the barometer, from West to East, as developed by the accompanying tri-daily observations made at several cities on the Great Lakes"	1862 Oct 13
b. 18, f. 258	"...annual report for the year 1862 upon the public works on the lake frontier... for the improvement of the lake harbors, and the Survey of the Northern and North western lakes"	1862 Oct 31
	"Instructions for determining differences of Longitude by the aid of signals produced by flashing small charges of gun powder at night" See: Oversize, Box 42, folder 724	1863 Jun 11
	Map of the seafloor off Racine Light House by J. R. Mayer See: Oversize, Box 45, folder 777	1863 Jun 27
	"Report of Assistant J. M. Bigelow to Col. Graham...upon the...relation of winds and clouds to barometric pressure at Sacketts Harbor, Thunder Bay, and Superior City" See: Oversize, Box 42, folder 725	1863 Oct 1
	"Survey of the Northern and Northwestern Lakes. Annual Report of...Graham...for the year 1863" See: Oversize, Box 42, folder 726	1863 Oct
b. 18, f. 259-60	"The lunar tide in lake Michigan" [corrections to report published in annual report to Topographical Engineers, Oct 31 1860, including tables] See also: Oversize, Box 42, folder 727	[1863]
	"Description of the large diagrams exhibiting the actual state of the barometer, winds, rains and clouds at Superior City, Thunder Bay and Sacketts Harbor" See: Oversize, Box 42, folder 728	[1863]
	Comparison of water level of several lakes from 1859 to 1863 See: Oversize, Box 42, folder 729	[1863]
	"Monthly Meteorological registers at the fourteen (14) stations" See: Oversize, Box 42, folder 730	[1863]
b. 18, f. 261	"Sketch of the Main Triangulation Green Bay"	1863

REPORTS, PLANS, MAPS > Reports of Graham's Work (continued)

b. 18, f. 262	"Explanations of Tables B2 to B12. Tables of General Meteorological Abstracts"	[1863]
	"Sketch showing the progress made in the survey of Green Bay, its entrances and the adjacent coast of Lake Michigan" See: Oversize, Box 45, folder 778	1863
	Map of Green Bay See: Oversize, Box 45, folder 779	n.d.
	Map of Washington Island and Surrounding Bays See: Oversize, Box 45, folder 780	n.d.
b. 19, f. 263	Street map of the Milwaukee waterfront	n.d.
b. 19, f. 264	Map of Huron Harbor, Ohio	n.d.

Other Reports and Papers

	"Bond of the Illinois Central Rail Road Company and Conditions in reference to the opening in the U.S. South pier at Chicago for said company's benefit" See: Oversize, Box 42, folder 731	1855
	<i>Iron Pile light house to be erected on Coffins Patches, Florida Coast, U.S.</i> See: Oversize, Box 46, folder 786	1856
b. 19, f. 265	<i>The Commercial Times' Third Annual Statement of the Trade and Commerce of Oswego, for 1859...</i>	1860
b. 19, f. 266	Petition of Jean Bapteste Beaubien regarding the transfer of government lands, Fort Dearborn site	n.d.

DATA FROM OBSERVATIONS AND CALCULATIONS

This subseries is arranged under the following headings: General, Determining Longitude, Lunar Tides, Statistics on Harbors - Exports and Imports. Within these groups material is arranged chronologically, except in the last section where papers are sorted alphabetically under harbor name.

General

b. 19, f. 267	Graham's notebook, "Chicago Harbor"	1854
b. 19, f. 268	Graham's notebook, comparison of chronometer readings	1857-58
b. 19, f. 269	Altitude of mounds in Albany, Whiteside County (Illinois)	1858 Mar 25
b. 19, f. 270	"Rates of chronometer No. 2557 Sideral & No. 141 Mean Solar From March 1858 to July 31 1859"	1859
b. 19, f. 271	Graham's journal aboard Steamer Search	1859-61
b. 19, f. 272	Miscellaneous	1858

Determining Longitude

This data was used in the 1859 annual report on improvements to the harbors. It is arranged by type, and then chronologically.

DATA FROM OBSERVATIONS AND CALCULATIONS > Determining Longitude (continued)

b. 19, f. 273	Telegraph signals between Chicago and Quebec	1857 May
b. 19, f. 274	Telegraph signals between Chicago and Racine	1858 Sep
b. 19, f. 275	Telegraph signals between Chicago and Toledo, Columbus	1859 Jan
b. 19, f. 276	Telegraph signals between Chicago and Dunlieth, Rock Island	1859 Feb-Mar
b. 19, f. 277	Telegraph signals between Chicago and Rock Island, New Buffalo, Michigan	1859 Mar-Apr
b. 19, f. 278	Telegraph signals between Chicago and Michigan City, New Buffalo, Fulton, Madison, Niles	1859 May-Jun
b. 19, f. 279	Telegraph signals between Chicago and Rock Island	1859 Jun 29
b. 19, f. 280	Telegraph signals between Chicago and Toledo, Cleveland, Pittsburgh	1860 Mar
b. 19, f. 281	Telegraph signals sent from Chicago	1860
b. 20, f. 282-93	Time at Chicago	1858-59
b. 20, f. 294	Time at Conneaut	1858 Aug 7
b. 20, f. 295	Time at Toledo	1859
b. 20, f. 296	First computations for time at Chicago, Fulton, Albany, and Lyons	1858
	Final computations for time at Chicago, Fulton, Albany, and Lyons See: Oversize, Box 46, folder 787	1858
	Original computations of the latitudes of Fulton, Ills., Albany, Ill., and Lyons, Iowa See: Oversize, Box 46, folder 788	1858
b. 20, f. 297	Difference in longitude between Chicago and Ashtubula, Ohio	1858 Aug 6
b. 20, f. 298-99	Difference in longitude between Chicago and Cleveland, Ohio	1858-59
b. 20, f. 300	Difference in longitude between Toledo and Columbus, Ohio	1859 Jan 25
b. 21, f. 301	Difference in longitude between Chicago and Dunlieth, Illinois	1859 Feb 21
b. 21, f. 302	Difference in longitude between Toledo and Elyria, Ohio	1859 Jan 19
b. 21, f. 303-04	Difference in longitude between Chicago and Erie, Pennsylvania	1858 Aug
b. 21, f. 305	Difference in longitude between Chicago and Fulton, Illinois	1859 Jun 23
b. 21, f. 306	Difference in longitude between Chicago and Madison, Wisconsin	1858
b. 21, f. 307	Difference in longitude between Chicago and Madison, Wisconsin	1859-60
b. 21, f. 308-09	Difference in longitude between Chicago and Michigan City, Indiana	1858-59
b. 21, f. 310	Difference in longitude between Chicago and Milwaukee, Wisconsin	1858
b. 21, f. 311	Difference in longitude between Chicago and New Buffalo, Michigan	1859

DATA FROM OBSERVATIONS AND CALCULATIONS > Determining Longitude (continued)

b. 21, f. 312	Difference in longitude between Chicago and Niles, Michigan	1859 Jun 8
b. 21, f. 313	Difference in longitude between Chicago and Prairie du Chien, Wisconsin	1858 Jul 13
b. 21, f. 314	Notes on Racine, Wisconsin	1858 Sep 6
b. 21, f. 315	Difference in longitude between Chicago and Rock Island, Illinois	1859
b. 21, f. 316	Difference in longitude between Chicago and Toledo, Ohio	1858 Aug 13
b. 21, f. 317	Difference in longitude between Chicago and Waukegan, Illinois	1858 Jun 29
b. 21, f. 318	Miscellaneous See also: Oversize, Box 46, folder 789	1858, n.d.
Lunar Tides		
b. 22, f. 319-20	"Tide register at Chicago"	1854-55
b. 22, f. 321	"Ferry gauge from July 1856 to Augt 17 1857" (measuring height of lake surface)	1856-57
b. 22, f. 322	"A register of the relative heights and fluctuations of the surface of Lake Michigan, from observations...on a permanent tide-gauge fixed at the east extremity of the United States North Pier of Chicago Harbor..."	1856-57
b. 22, f. 323	Observations of the river gauge on the Chicago River	1857-58
b. 22, f. 324-28	"Original Table A: A Lunar Tide on Lake Michigan"	1857-59 Mar
b. 23, f. 329-329.3	"Original Table A: A Lunar Tide on Lake Michigan"	1859 Apr-Jul
b. 23, f. 330-33	[Table of Lunar tide on Lake Michigan: half-hourly observations of lake gauge on North Pier, Chicago Harbor] (Table 5 from the 1862 annual report, same as H5 of the 1863 report)	1857-59 Apr
b. 24, f. 334	[Table of Lunar tide on Lake Michigan: half-hourly observations of lake gauge on North Pier, Chicago Harbor] (Table 5 from the 1862 annual report, same as H5 of the 1863 report)	1859 May-Jun
	"A Lunar Tide on Lake Michigan. Table A Continued" See: Oversize, Box 45, folder 781	1857-58
	"Office Copy. Table A5 of the Annual Report of 1862 (Same as A12 of the Report of 1860 corrected)" See: Oversize, Box 45, folder 782	[1858-63]
	"For the Topl. Bureau. Table A5 of the Annual Report of 1862 (Same as A12 of the Report of 1860 corrected) and the same as H5 of the Report of 1863" See: Oversize, Box 45, folder 783	[1858-63]
	"Investigation of the problem of a Lunar Tide on Lake Michigan" and [Tables of times of moon's meridian transit] See: Oversize, Box 45, folder 784	1858-59

DATA FROM OBSERVATIONS AND CALCULATIONS > Lunar Tides (continued)

	"A lunar tide on Lake Michigan. Table B" See: Oversize, Box 47, folder 795	1858-59
	Diagrams of lunar tide on Lake Michigan See: Oversize, Box 47, folder 796	[1858-63]
	"Rough copy, in pencil of the Lake Michigan tide register" See: Oversize, Box 47, folder 797	[1859]
	"Table A13. Investigation of the Problem of a lunar tide on Lake Michigan. Showing the quarter-hourly coordinates of altitude of the surface of Lake Michigan observed during the twenty-six spring tides..." See: Oversize, Box 46, folder 790	1859
	"A Lunar tide on Lake Michigan. Table D. Quarter hourly observations made at and near the several periods of the conjunction and opposition of the sun and moon between January 3d and June 2d shewing the character of the spring tidal wave on Lake Michigan" See: Oversize, Box 46, folder 791	1859
b. 24, f. 335	"Duplicate Tables of the Neap Tides on Lake Michigan from Jan'y 1st to June 30 1859"	1859
b. 24, f. 336	"Original (in pencil) of the averaged observations of the elevation of the surface of Lake Michigan from January 1 1859 to June 30 1859, inclusive"	1859
b. 24, f. 337	"A table shewing the elevation of the surface of Lake Michigan at Chicago in feet and decimals of a foot, at the periods of the Lunar high and low tides,...January 1, 1859 to April 4 1859"	1859
	"Tabulation of Spring Tides (not used in this form)" See: Oversize, Box 46, folder 792	n.d.
Statistics on Harbors - Exports and Imports		
	Chicago Harbor See: Oversize, Box 46, folder 793	1854-56
b. 24, f. 338	Detroit Harbor, Michigan	1853-55
b. 24, f. 339	Grand Haven Harbor, Michigan	1851, 1855
b. 24, f. 340	Kenosha Harbor, Wisconsin	1855 Dec 31
b. 24, f. 341	Manitowoc Harbor, Wisconsin	1855 Dec 31
b. 24, f. 342	Michigan City Harbor, Indiana	1855 Dec 31
b. 24, f. 343	Milwaukee Harbor, Wisconsin	1855
b. 24, f. 344	Mount Clemens Harbor, Michigan	1855 Dec 31
b. 24, f. 345	New Buffalo Harbor, Michigan	1855 Dec 31
b. 24, f. 346	Racine Harbor, Wisconsin	1855 Dec 31

DATA FROM OBSERVATIONS AND CALCULATIONS > Statistics on Harbors - Exports and Imports
(continued)

b. 24, f. 347	St. Joseph Harbor, Michigan	1855 Dec 31
b. 24, f. 348	Sheboygan Harbor, Wisconsin	1855 Dec 31
b. 24, f. 349	Waukegan Harbor, Wisconsin	1855 Dec 31
b. 24, f. 350	Miscellaneous	1854
ADMINISTRATIVE RECORDS		
This subseries is arranged under the following headings: General, Property Returns - Harbors, Other Property Returns, and Other Reports, Inventories, Etc. The first section is arranged chronologically and the last three alphabetically.		
General		
b. 24, f. 351	Legal papers regarding Chicago Harbor construction	1849-55
b. 25, f. 352-54	Telegraph receipts	1850-64
b. 25, f. 355	Agreement for Lieut. J. D. Webster to occupy a government building at Fort Dearborn	1852 May 6
b. 25, f. 356	Legal papers regarding Milwaukee Harbor construction	1853-54
b. 25, f. 357	Copy of a senate resolution ordering Secretary of War to report on the survey of harbors	[1858 Jan 5]
b. 25, f. 358	Legal papers regarding a Wisconsin lighthouse	[1860]
b. 25, f. 359	"Copies of correspondence relating to the loan of Dredges by the Engineer Department to Mess. Winams & Co. of Baltimore," 1860-64	[1864]
Property Returns - Harbors		
b. 25, f. 360	Ashtubula Harbor, Ohio	1855-58
	Black Lake Harbor, Michigan See: Oversize, Box 47, folder 798	1855
b. 25, f. 361	Black River Harbor, Ohio	1855, 1857
	Chicago Harbor, Illinois See: Oversize, Box 47, folders 799-801	1854-63
	Cleveland Harbor, Ohio See: Oversize, Box 47, folder 802	1857, 1861
b. 25, f. 362	Conneaut Harbor, Ohio	1854, 1857
	Dunkirk Harbor, New York See: Oversize, Box 47, folders 803-04	1857-60
	Erie Harbor, Pennsylvania See: Oversize, Box 48, folders 805-06	1857-61
b. 25, f. 363	Fairport Harbor, Ohio	1857

ADMINISTRATIVE RECORDS > Property Returns - Harbors (continued)

b. 25, f. 364	Grand River Harbor, Illinois	1854 Aug 10
b. 25, f. 365	Huron, Harbor, Ohio	1854, 1857
	Kenosha Harbor, Wisconsin See: Oversize, Box 48, folder 807	1855
	Manitowoc Harbor, Wisconsin See: Oversize, Box 48, folder 808	1854-60
	Michigan City Harbor, Indiana See: Oversize, Box 48, folders 809-10	1855-56
	Milwaukee Harbor, Wisconsin See: Oversize, Box 48, folder 811-13	1855-57
b. 25, f. 366	Monroe Harbor, Ohio	1857
	New Buffalo Harbor, Michigan See: Oversize, Box 49, folder 814-15	1855-56, n.d.
	Oswego Harbor, New York See: Oversize, Box 49, folder 816-17	1857-62
	St. Joseph, Michigan See: Oversize, Box 49, folder 818	1856-60
b. 25, f. 367	Sandusky Harbor, Ohio	1857, n.d.
	Sheboygan Harbor, Wisconsin See: Oversize, Box 49, folder 819	1855-56
	Waukegan Harbor, Illinois See: Oversize, Box 49, folder 820-21	1855-57
	Other Property Returns	
	Chicago light house See: Oversize, Box 50, folder 822	1857, 1859
b. 25, f. 368	Erie light house	1859
b. 25, f. 369	Inventories, sale statements	1856, n.d.
	Steam dredge See: Oversize, Box 50, folder 823-26	1855-61, n.d.
	Other Reports, Inventories, Etc.	
b. 25, f. 370	Account of timber and stone needed to build cribs for Chicago North Pier	n.d.

FINANCIAL RECORDS

This subseries is arranged under the following headings: General, Light House Establishment, and Great Brewster Island Sea Wall Project. The first and third sections are arranged chronologically and the middle one alphabetically.

General

b. 25, f. 371-76	Receipts, invoices, accounts, etc.	1851-59
b. 26, f. 377-82	Receipts, invoices, accounts, etc.	1860-65, n.d.
b. 26, f. 383	Account book, with U.S. Depository at Chicago	1854-55
b. 26, f. 384-403	Checks	1854-55
b. 27, f. 404-18	Checks	1856-59
b. 27, f. 419-20	Checkbooks with Asst. Treasurer at New York	1857-60
b. 27, f. 421-22	Account books, with U.S. Depository at Detroit	1861-64
b. 27, f. 423	Account book, with U.S. Depository at St. Louis	1862-63
b. 27, f. 424	Miscellaneous	1855

Light House Establishment

b. 27, f. 425-26	General appropriation for light house repair	1863-64
b. 27, f. 427-28	IRS receipt for salary tax	1863-64
b. 27, f. 429	Boston Light House	1865 May 25
b. 27, f. 430	Chicago Light House	1859, 1863
b. 27, f. 431	Detroit, White Fish Point, and Manitou Island Light Houses	1863
b. 28, f. 432	Green Island Light House	1863
b. 28, f. 433	Kenosha Light House	1863
b. 28, f. 434	Milwaukee Light House	1860
b. 28, f. 435	Porte des Morts Light House	1863
b. 28, f. 436-37	Racine Light House	1863-64
b. 28, f. 438	Raspberry Island Light House	1859

Great Brewster Island Sea Wall Project

b. 28, f. 439-45	Financial papers	1864-65 Apr
b. 29, f. 446-54	Financial papers	1865 May-Dec
b. 29, f. 455	Account book, with U.S. Asst. Treasurer at Boston	1864-65
b. 29, f. 456	Account book, with Blackstone National Bank of Boston	1865-66

FINANCIAL RECORDS > Great Brewster Island Sea Wall Project (continued)

b. 29, f. 457	Checkbook	1865
b. 30, f. 458-64	Checks	1865

Series VII: Personal and Family Papers, 1804-89*4 linear feet (10 boxes)*

Personal and Family Papers are arranged by person. Each person's relationship to Graham is noted next to his or her name.

CAMPBELL GRAHAM (Brother)		
b. 31, f. 465	"Refutation by Maj. Campbell Graham of Col. J. J. Abert's Report to the War Department on the services of the said Maj. Campbell Graham"	1858 Dec
CHARLOTTE MEADE GRAHAM (Wife)		
b. 31, f. 466	Letter to her cousin, Miss Sarah C. L. Parker	1838 Oct 24
J. D. GRAHAM		
b. 31, f. 467-70	Deeds, leases, mortgages, household inventory and other property documents See also: Oversize, Box 42, folder 732	1836-64, n.d.
b. 31, f. 471	Diary	1854-56
b. 31, f. 472	Financial papers	1847 Jul
b. 31, f. 473-85	Financial papers	1848
b. 31, f. 486-90	Financial papers	1849 Jan-May
b. 32, f. 491-98	Financial papers	1849 Jun-Dec
b. 32, f. 499-511	Financial papers	1850
b. 32, f. 512-13	Financial papers	1851 Jan-Feb
b. 33, f. 514-23	Financial papers	1851 Mar-Dec
b. 33, f. 524-32	Financial papers	1852
b. 33, f. 533-35	Financial papers	1853
b. 33, f. 536-47	Financial papers	1854
b. 34, f. 548-60	Financial papers	1855
b. 34, f. 561-73	Financial papers	1856
b. 35, f. 574-85	Financial papers	1857
b. 35, f. 586-91	Financial papers	1858 Jan-Jun
b. 36, f. 592-98	Financial papers	1858 Jul-Dec
b. 36, f. 599-610	Financial papers	1859
b. 36, f. 611-15	Financial papers	1860 Jan-May
b. 37, f. 616-22	Financial papers	1860 Jun-Dec

J. D. GRAHAM (continued)

b. 37, f. 623-34	Financial papers	1861
b. 37, f. 635-46	Financial papers	1862
b. 38, f. 647-58	Financial papers	1863
b. 38, f. 659-71	Financial papers	1864
b. 38, f. 672	Financial papers	1865
b. 38, f. 673	Financial papers	n.d.
	Financial papers	
b. 38, f. 674	Account book, with Bank of Metropolis	1851
b. 38, f. 675	Account book, with Pennsylvania Bank	1855
b. 38, f. 676	Account book, with John Brennan	1861
b. 38, f. 677	Account book, with Barney McNellis	1862-63
b. 39, f. 678	Historical and scientific societies, notes and lists	1853, 1860, n.d.
b. 39, f. 679-83	Insurance documents See also: Oversize, Box 42, folder 733	1848-68
b. 39, f. 684	Legal papers	1836-59
	<i>National Intelligencer</i> (Washington newspaper, two issues, July 23, 28) See: Oversize, Box 46, folder 794	1864
b. 39, f. 685	Papers regarding R. W. Meade's estate (Graham's father-in-law)	1821-55
b. 39, f. 686	Photographic portrait of Graham	n.d.
b. 39, f. 687	Portraits of J. J. Abert and V. V. [McGown]	n.d.
b. 39, f. 688	Printed pamphlets and advertisements	1850-58
b. 39, f. 689	Taxable property in Chicago, notes and evaluations	1860-63
b. 39, f. 690-91	Miscellaneous papers	1804-63, n.d.
	JAMES DUNCAN GRAHAM JR. (Son)	
b. 39, f. 692	Letter from his aunt, Margaret Meade	n.d.
	LAWRENCE PIKE GRAHAM (Half-brother)	
b. 39, f. 693	Letter from Cpt. S. Pleasonton	1855 Jan 8
	"Sketch of the march of Bvt. Maj. L. P. Graham, 2d Drag. from Monterey, Mex., to Pueblo de los Angeles, California.... July 25, 1848...[to] January 9, 1849" accompanied by a list of places and distances See: Oversize, Box 50, folder 827	1849
	R. W. MEADE GRAHAM (Son)	

R. W. MEADE GRAHAM (Son) (continued)

b. 39, f. 694	<i>Rules and Regulations of the "Lyceum Society" (West Chester, Pa.)</i>	1852
WILLIAM MONTROSE GRAHAM (Brother)		
b. 39, f. 695	Letters to W. M. Graham	1840, 1847
b. 39, f. 696-97	Receipts and invoices for supplies for Companies D and K of the 4th Infantry, in Florida (two sets)	1837-38
b. 39, f. 698-99	Receipts and invoices for supplies for Company K of the 4th Infantry, in Florida (two sets)	1837-38
b. 39, f. 700-01	Receipts and invoices for supplies for Company K of the 4th Infantry, in Florida (two sets)	1838
b. 39, f. 702	Receipts and invoices for supplies for Company K of the 4th Infantry, in Florida	1838
WILLIAM MONTROSE GRAHAM (Son)		
b. 40, f. 703	"Fort Riley, Kansas, Light Batteries, Genrl. Wm. Montrose Graham's command"	1870
b. 40, f. 704	Presidio officers, Genl. Graham's command	1888 Jul 8
b. 40, f. 705	Presidio officers, Genl. Graham's command	1889 Apr
b. 40, f. 706	"Views of Santa Cruz, Cal., and vicinity," by Geo. Webb [artillery unit posed]	1889 Sep 3
b. 40, f. 707	Presidio, Light Battery K, Graham's command	1889
b. 40, f. 708	Presidio officers, Graham's command	ca. 1889
b. 40, f. 709	"Our Chapel. Presidio, San Francisco, California"	n.d.
b. 40, f. 710	[Presidio, Light Battery K ?]	n.d.
b. 40, f. 711	Military unit moving on a beach	n.d.
b. 40, f. 712	Artillery	[19th century]
b. 40, f. 713	Four officers posing with a mounted gun	[19th century]

Series VIII: Cornelius E. Clifford Papers, 1893-96*0.25 linear feet (1 box)**Cornelius E. Clifford Papers* consists of correspondence and a handwritten speech.

b. 41, f. 714-17	Correspondence	1895
b. 41, f. 718-19	Correspondence	1896
b. 41, f. 720	Speech on Robert Emmet, Irish rebel	ca. 1893

Oversize*9.5 linear feet (9 boxes)*

Oversize contains oversize material from Series II-VIII. The arrangement, which is based on size, parallels that of the collection.

SERIES II. GENERAL MILITARY PAPERS

Other Papers

b. 42, f. 721	<i>A Report upon the Military and Hydrographical Chart of the Extremity of Cape Cod including the townships of Provincetown and Truro with their seacoasts and ship harbor</i>	1838
b. 42, f. 722	<i>Army and Navy Official Gazette</i>	1862-63

SERIES III. NORTH EASTERN BOUNDARY SURVEY

Data from Observations and Calculations

b. 42, f. 723	"Determination of the time, by observed equal altitudes of the Sun's limbs"	1840-55
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SERIES VI. GREAT LAKES IMPROVEMENTS & LAKES SURVEY

Reports, Plans, Maps

Reports of Graham's Work

b. 42, f. 724	"Instructions for determining differences of Longitude by the aid of signals produced by flashing small charges of gun powder at night"	1863 Jun 11
b. 42, f. 725	"Report of Assistant J. M. Bigelow to Col. Graham...upon the...relation of winds and clouds to barometric pressure at Sacketts Harbor, Thunder Bay, and Superior City"	1863 Oct 1
b. 42, f. 726	"Survey of the Northern and Northwestern Lakes. Annual Report of ...Graham...for the year 1863"	1863 Oct
b. 42, f. 727	"The lunar tide in lake Michigan" [corrections to report published in annual report to Topographical Engineers, Oct 31 1860, including tables]	[1863]
b. 42, f. 728	"Description of the large diagrams exhibiting the actual state of the barometer, winds, rains and clouds at Superior City, Thunder Bay and Sacketts Harbor"	[1863]
b. 42, f. 729	Comparison of water level of several lakes from 1859 to 1863	[1863]
b. 42, f. 730	"Monthly Meteorological registers at the fourteen (14) stations"	[1863]

Other Reports and Papers

b. 42, f. 731	"Bond of the Illinois Central Rail Road Company and Conditions in reference to the opening in the U.S. South pier at Chicago for said company's benefit"	1855
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SERIES VII. PERSONAL AND FAMILY PAPERS

SERIES VII. PERSONAL AND FAMILY PAPERS (continued)

James Duncan Graham

b. 42, f. 732	Deeds, leases, mortgages and other property documents	1836-64, n.d.
b. 42, f. 733	Insurance documents	1855-68

SERIES II. GENERAL MILITARY PAPERS

Maps

b. 43, f. 734	<i>Sketch of the Public Surveys in Iowa Territory</i>	[1827-28]
b. 43, f. 735	<i>Sketch of the Public Surveys in Wisconsin Territory</i>	[1827-28]
b. 43, f. 736	<i>A diagram of the triangulation for the survey of the coast of the United States ...Connecticut and Long Island</i>	1834
b. 43, f. 737	<i>Map exhibiting the position of the several lines connected with the settlement of the Ohio boundary question (accompanied by 3 related maps)</i>	1835
b. 43, f. 738	<i>Survey of a ship canal around the falls of Niagara</i>	ca. 1835-36
b. 43, f. 739	Map of the seat of war in east Florida	1837
b. 43, f. 740	<i>Map of the Cherokee cession in Alabama</i>	1837-38
b. 43, f. 741	Arkansas. Map of Arkansas surveying district shewing the extent of the public surveys (two versions)	1837, 1839
b. 43, f. 742	<i>A plat exhibiting the surveys as they are in the Territory of Florida (two versions)</i>	1837, 1839
b. 43, f. 743	<i>Map of...various routes surveyed for the Western & Atlantic Rail Road of Georgia</i>	1837
b. 43, f. 744	<i>Diagram of the state of Illinois (two versions)</i>	1837, 1839
b. 43, f. 745	<i>Map of the south western district Louisiana (three copies, two versions)</i>	[1837-40]
b. 43, f. 746	<i>St. Helena district La. (two versions)</i>	[1837-40]
b. 43, f. 747	<i>Southeastern district Louisiana (two versions)</i>	[1837-40]
b. 43, f. 748	<i>Map of the District North of Red River La. (two versions)</i>	[1837-40]
b. 43, f. 749	<i>Diagram of the state of Missouri (two versions)</i>	1837, 1839
b. 43, f. 750	<i>Core Sound North Carolina (accompanied by four related maps)</i>	1837
b. 43, f. 751	<i>Sketch of the public lands in the north part of Michigan</i>	[1839-40]
b. 43, f. 752	<i>Diagram of the surveying district South Tennessee</i>	[1839-40]
b. 43, f. 753	Map of Texas and the countries adjacent: compiled... for the State Department (two copies each with annotations by Graham)	1844
b. 43, f. 754	Map of Texas and part of New Mexico compiled in the Bureau...chiefly for military purposes (four copies each with annotations by Graham)	1857

SERIES II. GENERAL MILITARY PAPERS > Maps (continued)

b. 43, f. 755	<i>Kansas with parts of the neighboring states and territories</i>	1868 Oct
b. 43, f. 756	[Map of the Mississippi River from Chuteau's Island to St. Louis]	n.d.
b. 43, f. 757	"Chart of the Tamasi River, surveyed and drawn by Capt. W. Cole for Col. Gates"	n.d.

SERIES III. NORTH EASTERN BOUNDARY SURVEY

Reports, Plans, Letters, Maps

b. 44, f. 758	Map showing Portage Lake, Maine	n.d.
Data from Observations and Calculations		
b. 44, f. 759	Lists of latitude and longitude of various places	1841-45, n.d.
Administrative Records		
b. 44, f. 760-68	Muster rolls	1844-52
b. 44, f. 769-70	Clothing accounts	1848, 1850

SERIES IV. MASON-DIXON LINE SURVEY

Reports and Maps

b. 44, f. 771	Maps of the Mason-Dixon line near Delaware Bay and head of the Chesapeake Bay and triangulation figure (three sketches)	n.d.
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SERIES V. MEXICAN BOUNDARY SURVEY

Reports, Plans, Letters, Maps

b. 44, f. 772	<i>Barometric profile of the route from San Antonio ... to the Copper Mines of Santa Rita in New Mexico, in 1851... by...Graham, accompanied by his notes</i>	1851
b. 44, f. 773	Three maps referred to in Graham's report to the Secretary of the Interior, Senate Ex. Doc. 121, 32nd Congress, 1st session	1851
b. 44, f. 774	Newspaper clippings	1852, 1855
Data from Observations and Calculations		
b. 44, f. 775	"Determination of the line and latitude of Indianola, Texas"	1851 Apr 25

SERIES VI. GREAT LAKES IMPROVEMENTS & LAKES SURVEY

Reports, Plans, Maps

Reports of Graham's Work

b. 45, f. 776	<i>Chart of Chicago Harbor Illinois shewing the main entrance for ships, and the state of the bar after completing the dredging...</i>	1854
b. 45, f. 777	Map of the seafloor off Racine Light House by J. R. Mayer	1863 Jun 27
b. 45, f. 778	"Sketch showing the progress made in the survey of Green Bay, its entrances and the adjacent coast of Lake Michigan"	1863

SERIES VI. GREAT LAKES IMPROVEMENTS & LAKES SURVEY > Reports, Plans, Maps > Reports of
Graham's Work (continued)

b. 45, f. 779	Map of Green Bay	n.d.
b. 45, f. 780	Map of Washington Island and Surrounding Bays	n.d.
Data from Observations and Calculations		
Lunar Tides		
b. 45, f. 781	"A Lunar Tide on Lake Michigan. Table A Continued"	1857-58
b. 45, f. 782	"Office Copy. Table A5 of the Annual Report of 1862 (Same as A12 [1858-63] of the Report of 1860 corrected)"	
b. 45, f. 783	"For the Topl. Bureau. Table A5 of the Annual Report of 1862 (Same as A12 of the Report of 1860 corrected) and the same as H5 of the Report of 1863"	[1858-63]
b. 45, f. 784	"Investigation of the problem of a Lunar Tide on Lake Michigan" and [Tables of times of moon's meridian transit]	1858-59
SERIES VI. GREAT LAKES IMPROVEMENTS & LAKES SURVEY		
Reports, Plans, Maps		
Reports of Graham's Work		
b. 46, f. 785	Sketch of unknown harbor, with soundings	1855 Sep 30
Other Reports and Papers		
b. 46, f. 786	<i>Iron Pile light house to be erected on Coffins Patches, Florida Coast, U.S.</i>	1856
Data from Observations and Calculations		
Determining Longitude		
b. 46, f. 787	Final computations for time at Chicago, Fulton, Albany, and Lyons	1858
b. 46, f. 788	Original computations of the latitudes of Fulton, Ills., Albany, Ill., and Lyons, Iowa	1858
b. 46, f. 789	Miscellaneous	1858, n.d.
Lunar Tide		
b. 46, f. 790	"Table A13. Investigation of the Problem of a lunar tide on Lake Michigan. Showing the quarter-hourly coordinates of altitude of the surface of Lake Michigan observed during the twenty-six spring tides..."	1859
b. 46, f. 791	"A Lunar tide on Lake Michigan. Table D. Quarter hourly observations made at and near the several periods of the conjunction and opposition of the sun and moon between January 3d and June 2d shewing the character of the spring tidal wave on Lake Michigan"	1859
b. 46, f. 792	"Tabulation of Spring Tides (not used in this form)"	n.d.
Statistics on Harbors - Exports and Imports		

SERIES VI. GREAT LAKES IMPROVEMENTS & LAKES SURVEY > Data from Observations and Calculations > Statistics on Harbors - Exports and Imports (continued)

b. 46, f. 793	Chicago Harbor	1854-56
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SERIES VII. PERSONAL AND FAMILY PAPERS

JAMES DUNCAN GRAHAM

b. 46, f. 794	<i>National Intelligencer</i> (Washington newspaper, two issues, July 23, 28)	1864
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SERIES VI. GREAT LAKES IMPROVEMENTS & LAKES SURVEY

Data from Observations and Calculations

Lunar Tide

b. 47, f. 795	"A lunar tide on Lake Michigan. Table B"	1858-59
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b. 47, f. 796	Diagrams of lunar tide on Lake Michigan	[1858-63]
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b. 47, f. 797	"Rough copy, in pencil of the Lake Michigan tide register"	[1859]
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Administrative Records

Property Returns - Harbors

b. 47, f. 798	Black Lake Harbor, Michigan	1855
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b. 47, f. 799-801	Chicago Harbor, Illinois	1854-63
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b. 47, f. 802	Cleveland Harbor, Ohio	1857, 1861
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b. 47, f. 803-04	Dunkirk Harbor, New York	1857-60
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b. 48, f. 805-06	Erie Harbor, Pennsylvania	1857-61
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b. 48, f. 807	Kenosha Harbor, Wisconsin	1855
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b. 48, f. 808	Manitowoc Harbor, Wisconsin	1854-60
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b. 48, f. 809-10	Michigan City Harbor, Indiana	1855-56
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b. 48, f. 811-13	Milwaukee Harbor, Wisconsin	1855-57
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b. 49, f. 814-15	New Buffalo Harbor, Michigan	1855-56, n.d.
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b. 49, f. 816-17	Oswego Harbor, New York	1857-62
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b. 49, f. 818	St. Joseph, Michigan	1856-60
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b. 49, f. 819	Sheboygan Harbor, Wisconsin	1855-56
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b. 49, f. 820-21	Waukegan Harbor, Illinois	1855-57
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Other Property Returns

b. 50, f. 822	Chicago light house	1857, 1859
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b. 50, f. 823-26	Steam dredge	1855-61, n.d.
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SERIES VII. PERSONAL AND FAMILY PAPERS

SERIES VII. PERSONAL AND FAMILY PAPERS (continued)

Lawrence Pike Graham (Half-Brother)

b. 50, f. 827

"Sketch of the march of Bvt. Maj. L. P. Graham, 2d Drag. from Monterey, 1849
Mexico to San Diego, California" accompanied by a list of places and
distances

Selected Search Terms

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

Subjects

Surveying -- United States
Tides -- Great Lakes (North America)

Geographic Names

Canada -- Boundaries -- United States
Fort Riley (Kan.) -- Pictorial works
Great Lakes (North America) -- Commerce
Great Lakes (North America) -- Maps
Great Lakes (North America) -- Surveys
Mason-Dixon Line
Mexico -- Boundaries -- United States
Mexico -- Maps
Mexico -- Surveys
Northeast boundary of the United States -- Surveys
Presidio of San Francisco (Calif.)
Southern boundary of the United States -- Surveys
Texas -- Boundaries -- United States
Texas -- Maps
Texas -- Surveys
United States -- Boundaries -- Canada
United States -- Boundaries -- Mexico
United States -- Boundaries -- Texas
United States -- Surveys

Genres / Formats

Maps -- United States
Photographs -- United States

Occupations

Astronomers -- United States
Engineers -- United States
Military engineers -- United States
Surveyors -- United States

Names

Abert, John James, 1788-1863
Agassiz, Louis, 1807-1873
Baird, Spencer Fullerton, 1823-1887
Bartlett, John Russell, 1805-1886

Bull, John, -1851
Cass, Lewis, 1782-1866
Clifford, Cornelius E.
Emory, William H. (William Hemsley), 1811-1887
Goddard, D. E.
Graham, Campbell, 1798 or 1799-1866
Graham, J. D. (James Duncan), 1799-1865
Graham, William Montrose, 1798-1847
Graham, William Montrose, Jr., 1834-1916
Gray, Asa, 1810-1888
Gunnison, J. W. (John Williams), 1812-1853
Humphries, Andrew A.
Lee, Thomas Jefferson, 1808-1891
Long, Stephen H. (Stephen Harriman), 1784-1864
Longfellow, A. W. (Alexander Wadsworth), 1814-1901
Macomb, J. N. (John N.), 1810 or 1811-1889
Mayer, J. R. (John R.)
McClellan, John, 1805-1854
Meade, George Gordon, 1815-1872
O'Donoghue, John, 1946-
Palmer, W. R. (William R.), -1862
Raynolds, W. F. (William Franklin), 1820-1894
Schroeder, F.
Thom, George
Wampler, John Morris, 1830-1863
Warren, G. K. (Gouverneur Kemble), 1830-1882
Webster, J. D. (Joseph Dana), 1811-1876
Whipple, Amiel Weeks, 1817?-1863
White, T. F.
Wickham, William F.

Families

Graham family

Corporate Bodies

U.S. Lake Survey
United States. Army. Corps of Topographical Engineers
United States. Army -- Artillery -- Photograph collections