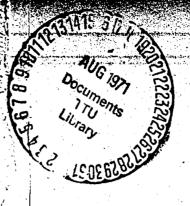
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THE

EXECUTIVE DOCUMENTS

OF THE

HOUSE OF REPRESENTATIVES

FOR THE

SECOND SESSION OF THE FORTY-NINTH CONGRESS.

1886-'87.

VOLUME 22.-No. 40

WASHINGTON:
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1887

ARCHIVES AND LIBRARY, COAST AND GEODETIC SURVEY OFFICE. REPORT FOR THE FISCAL YEAR ENDING JUNE 30, 1886.

COAST AND GEODETIC SURVEY OFFICE, Washington, D. C., October 16, 1886.

DEAR SIR: I have the honor to submit the annual report of the receipt and registry in the Archives of original and duplicate records and computations, original topographic and hydrographic sheets, and specimens of sea-bottom, turned in to the office during the fiscal year ending June 30, 1886, as herein enumerated; and of the number of books and pamphlets received in the library during the same time.

I .- Records and Computations.

GEODETIC WORK.

	Number of volumes.		Number	
	Original.	Duplicate.	of cahiers.	Total.
Observations of horizontal angles	185	163		348
Observations of vertical angles	21	23		44
Descriptions of stations	21	20_		41
Measurement of bases	2	0		. 2
Spirit leveling	. 19	16	[·	35
Geodetic miscellany	17	6		- 23
Computations			145	145
Total	265	228	145	638

ASTRONOMICAL WORK.

				
Observations for latitude	• 11	9		20
Observations for longitude	5	11		16
Observations for time		פ		21
Observations for azimuth		5		10
Computations			28	42
· · · · · · · · · · · · · · · · · · ·]		
Total	37	34	88	109
•		1		

MAGNETIC WORK.

	Number of volumes.		Number o	of cahiers.	Number		
	Original.	Duplicate.	Original.	Duplicate.	Original.	Duplicate.	Total.
Observations for terrestrial magnetism Magnetic traces	4	3	34 .	29	66 553	547	136
Computations			3		71		74
, Total	4	3	37	29	690	547	1,310

HYDROGRAPHIC WORK.

		f volumes.	Number bottles of specimens.	Total.
	Original.	Duplicate.		
Observations for soundings	411	269		680
Observations of angles:	53	31		84
Descriptions of hydrographic signals	8		 	8
Specimens of sea bottom		 	252	252
Specimen books				. 3
Tidal observations	142	80		222
Current observations and data	27	10		37
Hydrographic miscellany		: 5		11
Total	650	395	252	1, 297

Besides the records enumerated in the preceding table, the following which could not be conveniently entered therein were received and registered:

Tide rolls, 27; specimens of sea-bottom, 1 box; original current observations and data, 15 sheets, 1 package, and 5 cahiers; original hydrographic miscellany, 3 packages and 9 sheets; original chronograph sheets, 2 rolls.

The following-named records were turned into the Office by Assistant C. S. Peirce. They had not been in the Archives before, but are now duly registered. Only a small part of the work to which these records relate was done within the past fiscal year, some of it dating as far back as 1872.

Records turned in by Assistant C. S. Peirce.

	Number o	f volumes.	Number of sheets, original.	Total.
	Original.	Duplicate.		
Pendulum experiments and observations	181	12		193
Observations for time	28			28
Time computations and reductions	4			4
Comparisons of chronometers and corrections of		· .		-
sidereal clocks	4			4
Barometer observations	1	·		1
Micrometrical measures of scales	1	1		2
Thermometer book	1	· · · · · · · · · · · · · · · · · · ·		. 1
Instrument corrections, &c	1			1
Spectrum meter				. 13
Leveling observations				3
Longitude observations				1
Latitude observations	-			3
Personal equation observations			11	11
Chronograph sheets			121	121
Total:	241	13	132	386

Also the following, not included in the above table, were turned in by Assistant Peirce: 1 envelope, 9 rolls, 1 package, and 64 sheets of pendulum work; 2 large envelopes, containing circles, diagrams, and blanks; 1 envelope Time observations; 1 bundle of Time and Pendulum Transits; 1 sheet stars for Latitude observations; 24 sheets pendulum and Star observations; 7 boxes and 3 rolls of Chronograph sheets; 1 box fillets.

II.—Topographic and Hydrographic Surveys.

TOPOGRAPHIC WORK.

TOT GULLT IIIO WOLK.							
•	No. of sheets.		No. of sheets.				
Delaware River from Mayne's Ditch to New Castle, Del Chandler's Bay and Chandler's River, including village of Jonesboro, Me North shore of Long Island Sound, Frost Point to Norwalk River and the Norwalk Islands, Conn Shore of Hempstead Bay, Long Island, N. Y. East Hempstead and South Oyster Bay, N. Y. East part South Oyster Bay, western partGreat South Bay, &c., N. Y. Great South Bay and Oak Island Beach, N. Y. Machiasport and vicinity, Me. Bar Harbor Village, Mount Desert Island (resurvey), Me Columbia River, Vicinity of Bachelor's Island, Oreg Machias Bay Entrance, Me. Shores of Indian River, Fla., Passage, Sebastian Creek to Narrows, Fla. Shores of Willamette River, Swan Island to Ross Island, including Portland, East Portland, and Albina, Oreg Shore of Delaware River, Saint George's Creek to Bombay Hook Light, Del. West shore Delaware River, Bombay Hook Light to Mahon's River Light, Del.	1 1 1 1 1 1	West Shore Delaware Bay, Mahon's River Light to triangulation station Clark, Del. West Shore Delaware Bay, from triangulation station Clark, to triangulation station Plum, Del. Now Jersey Shore, Delaware Bay: 'rom the Hummocks to Egg Island Light-house, N. J. From near the Hummocks to New England Creek, N. J. Elsingbore Point to below Jacob's Creek, N. J. North Shore Long Island Sound, Chapman's to Hammonasset Point, Conn. Hammonasset Point to Guilford, Conn. Possession Sound, Muckiltee to Preston's Point, Hawk to Randall triangulation station, Wash. Ter. West Coast of Florida: Big Marce Pass to Cape Romane, Fla. John's Pass to Big Marce Pass, Fla. Wiggins Pass to John's Pass, Fla. Bowditch Point to Wiggins Pass, Fla. Vicinity Arroyo Hondo to Lompoc Landing, north of Point Concepcion, Cal. From Lompoc Landing to Shuman's Canon, Cal. Hood's Canal, Wash. Tor.	. 1				

Topographic and Hydrographic Surveys-Continued.

TOPOGRAPHIC WORK-Continued.

9	No. of sheets.		No. of sheets
Hood's Canal: Port Gamble to Hazel Point, Wash, Ter. Dabop and Quilcine Bays, Wash, Ter. Dabop Bay, Wash, Ter. Annas Bay, Wash, Ter. Columbia River: From Willow Bay to foot of Hayden's Island, and the Willamette River from the mouth to the head of Swan Island, Orag. Columbia City to Bachelor's Island, Oreg. Saint John's River: From Racey Point to Cedar Point, Fla. From Coder Point to San Mateo, Fla. The New Jetsey Shore of Delaware Bay from Jacob's Creek to Sea Breeze, N. J. North Shore Leng Island Sound: Four Mile River to Oyster River, including mouth of Connectical River, Conn. From John on's Point to South End, Conn. Gardiner's Island, Leng Island Sound, N. Y. Plum Island and Gull Island, Long Island Sound, N. Y. South Shore Long Island Sound: Oyster Pond Voint to Inlet Point, including the villages of Oright and Greenpert, N. Y. Southold and Horton's Point, N. Y. Eastern part of League Island, Pa.		East front of New York and Brooklyn from Red Hook Battery to Blackwell's Island, N. Y. Feach of the Gulf of Mexico from East Pass eastward, Fla. Part of Hoosae Mountain, Mass P. T. triangulation of Nansemond River, Va. Coney Island, Long Island, N. Y. Rockaway Beach, Long Island, N. Y. Rockaway Beach and Barren Island, Long Island, N. Y. Santa Maria River, northwest to Arroyo Grando, north of Point Concepcion, Cal. Coast of New Jersey southward from Corson's Inlet, N. J. Point Sur, Cal. Yolo Base Line, Cal. Santa Catalina Island, Santa Barbara Channel, Cal. Shores of Laguna Madre: From triangulation point Peat Island to Crane Islands, Tex. From triangulation point Griffins to triangulation Camp No. 2, Tex Port Orchard, Puget Sound, Wash. Ter Part of coast between Newport Bay and San Juan Capistrano, Cal Moro Eay to Toro Point, Cal Rosario Strajd, Deception Pass to Ship Harbor, Wash. Ter Blackwell's, Ward's, and Randall's Islands, N. Y. Little Kenneber Bay and River, Mo.	اد

Eastern part of League Island, Pa	2 .
HYDROG	RAPHIC WORK.
Pleasant Bay from entrance to Guard Point, Mo. Narraguagus River, Me. Harrington Bay and River, including Black Bay and Flat Bay, Me Pico triangulation station to Castro triangulation station, Cal. Castro triangulation station to Breaker Point, Cal. Breaker Point rorthward, Cal. Dredged channel, Mobile Bay, Ala. Portland Canal to Cape Fox, Southeast Alaska. Tamgas Hathor, Southeast Alaska. Port Chester, Southeast Alaska. Wrangell Straits, Southeast Alaska. Vicinity of Port Simpson and northern part of Chatham Sound, Southeast Alaska. Portland Canal to Cape Fox and Revilla Gigedo Channel, Southeast Alaska. Revilla Gigedo Channel from Duke Point to Bold Island, Southeast Alaska. Mary Island Anchorage, Southeast Alaska Revilla Gigedo Channel, Pennock Island to Hog Rocks, Southeast Alaska Hassler Harbor, Southeast Alaska Tongass Narrows, Pennock Island to Guard Island, South- cast Alaska Ward Cove, Southeast Alaska Bevilla Gigedo Channel, Mary Island to Point Higgins, Southeast Alaska Etolin Harbor, Wrangell Island, Southeast Alaska Portage Bay, Frederick Sound, Southeast Alaska	Deep-sea soundings—Continued. Straits of Florida and New Providence Channel, Fla Reconnaissance of inland passage between Peril Strait and Sitka Harbor, including Saint John Eaptist Bay, Alaska. Reconnaissance of Peril Strait from Point Suloia to Nismeni Point, Alaska San Francisco Bar, Gal Straits of Juan de Fuca, Wash. Ter Schuykill River, Gray's Ferry to Rambo Point, Pa Delaware Bay: Mispillion Creek to Murder Kill Creek, Del. Southeastern end, N. J. Entrance, N. J. Saco Bay, Me, from Spurwink River to Scathoro' River, Me Entrance to Saco River and vicinity, Me Humboldt Bay and Bad Cal Saint John's River from Racey Point to San Mateo, Fla Along north shore of Long Island Sound from Southwest Ledge Light-house to Welch's Point, Conn. Wadmelaw and Stono Rivers, S ₃ C Upper Hood's Canal, Wash, Ter Hood's Canal and Daboy Bay, Wash, Ter Waccasassa Bay, Fla West coast of Florida north of Cape Romano, Fla Pacific coast: From Brushy Point triangulation point to Ussal Rock triangulation point, Cal Pleasant River, Me.
D. ep-sex soundings: Strains of Florida, Fla	Gulf of Mexico off coast of Louisiana, La

Topographic and Hydrographic Surveys, &c .- Continued.

HYDROGRAPHIC WORK-Continued.

•	No. of sheets.		No of sheets.
Entrance to Sabine Pass, showing location of jetties, Tex	1 1 1	Twelve-Mile Arm, called "Eighteen-Mile Arm," Alaska Karta Bay, Alaska Tolstoi Bay, Alaska Union Bay, Alaska Off Chandeleur Islands, La Delaware Bay off Cape May Point Charleston Harbor Bar, S. C Tôtal	1 1 1 1

The preceding statement shows that there have been registered in the Archives during the past fiscal year, 493 volumes of geodetic observations; 145 cahiers of geodetic computations; 71 volumes of astronomical observations and computations; 38 cahiers of astronomical computations; 7 volumes and 63 cashiers of magnetic observations; 1,100 sheets of magnetic traces; 3 cahiers and 71 sheets of magnetic computations; 1,045 volumes of hydrographic observations; 37 volumes, 5 cahiers, 1 package, and 15 sheets of current observations; 11 volumes, 3 packages, and 9 sheets of hydrographic miscellany; 252 bottles and 1 box specimens of sea-bottom; 27 tide rolls; 75 original topographic sheets; 65 original hydrographic sheets; also, 254 volumes, 221 sheets, 2 packages, 4 envelopes, 12 rolls, and 8 boxes of records relating to gravity research.

There have been received and registered during the past fiscal year 633 volumes, bound and unbound, besides periodicals and scientific publications to be bound hereafter. Of these, 213 volumes were turned into the Library by Assistant Peirce; they had not been in the Library before, and therefore appear on the register as recent acquisitions. The binding of many of these books has been badly damaged by fire and they need rebinding.

During the past fiscal year 25 volumes were bound substantially in library style at the Government bindery.

There are a number of books in the Library that need rebinding, and also many unbound works and periodicals that ought to be bound.

I was appointed Librarian November 14, 1885, the appointment taking effect November 17, 1885. Mr. T. D. Reed was in charge of Archives and Library from the beginning of the past fiscal year up to that date. He was then employed in the Archives and Library as a clerk till April 1, 1886, with the exception of a short time while he was otherwise employed in the Office and when he was absent on leave. While Mr. Reed was occupied elsewhere in the Office, Mr. William B. Mapes, since deceased, was with me a few days.

, Mr. J. M. Duesberry was appointed to be a clerk in the Office on April 1, 1886, and assigned to the Archives and Library.

On June 6, 1886, I was taken sick with malaria, and with the exception of a few days, was absent during the remainder of the fiscal year. M... Duesberry was in charge during my absence.

Respectfully submitted.

ARTEMAS MARTIN,
Librarian and Custodian of Archives.

Mr. B. A. COLONNA,

Assistant in charge of Office.

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