

EXPENSES OF COAST SURVEY.

LETTER

FROM

THE SECRETARY OF THE TREASURY,

TRANSMITTING

Statement of expenses of the coast survey for the year ending June 30, 1867.

MAY 13, 1868.—Referred to the Committee on Commerce and ordered to be printed.

TREASURY DEPARTMENT,
May 8, 1868.

SIR: I have the honor to transmit, in accordance with an act of Congress, approved March 3, 1853, a report from the disbursing agent of the Coast Survey, Samuel Hein, esq., forwarded to this department by the superintendent of that work, showing the number and names of persons employed in the survey during the last fiscal year, the compensations paid, occupation, and length of time during which the persons were employed, together with a statement of all the expenditures for field and office work.

Your obedient servant,

H. McCULLOCH,
Secretary of the Treasury.

Hon. SCHUYLER COLFAX,
Speaker of the House of Representatives.

List showing the number and names of the persons employed in the coast survey during the fiscal year ending June 30, 1867, with the amounts of compensation and time of employment.

Names and offices.	Am't of comp'n.	Time employed.	Remarks.
<i>Superintendent.</i>			
A. D. Bache.....	\$3,860 00	7 mos. and 17 days..	Died February 17, 1867.
Benjamin Peirce.....	2,066 67	4 mos. and 3 days ..	Feb. 26 to June 30, 1867.
<i>Hydrographic inspector.</i>			
C. P. Patterson.....	2,825 00	1 year.....	
<i>Assistants.</i>			
Edmund Blunt.....	602 77	2 mos. and 2 days ..	Died September 2, 1866
J. E. Hilgard.....	3,500 00	1 year.....	
F. H. Gerdes.....	2,500 00	do.....	
C. O. Bontelle.....	2,500 00	do.....	
Richard D. Cutts.....	2,500 00	do.....	
H. L. Whiting.....	2,100 00	do.....	
John Farley.....	2,000 00	do.....	
Samuel A. Gilbert.....	2,000 00	do.....	
Henry Mitchell.....	2,000 00	do.....	
George Davidson.....	1,738 83	10 mos. and 10 days..	
W. E. Greenwell.....	1,700 00	1 year.....	
George W. Dean.....	1,700 00	do.....	
A. F. Rodgers.....	1,700 00	do.....	
James S. Lawson.....	1,400 00	do.....	
George A. Fairfield.....	1,300 00	do.....	
A. W. Longfellow.....	1,200 00	do.....	
A. M. Harrison.....	1,200 00	do.....	
Hull Adams.....	1,200 00	do.....	
R. M. Bache.....	1,200 00	do.....	
Edward Goodfellow.....	1,200 00	do.....	
Charles M. Bache.....	1,200 00	do.....	
S. C. McCorkle.....	1,200 00	do.....	
J. G. Oltmanns.....	1,200 00	do.....	
P. C. F. West.....	1,200 00	do.....	
Edward Cordell.....	1,200 00	do.....	
W. S. Edwards.....	1,200 00	do.....	
F. P. Webber.....	1,200 00	do.....	
F. W. Dorr.....	1,200 00	do.....	
W. H. Dennis.....	1,200 00	do.....	
<i>Sub-assistants.</i>			
C. T. Iardella.....	1,000 00	do.....	
Clarence Fendall.....	1,000 00	do.....	
J. S. Bradford.....	1,000 00	do.....	
C. Rockwell.....	1,050 00	do.....	
C. H. Boyd.....	1,000 00	do.....	
J. A. Sullivan.....	1,000 00	do.....	
R. E. Halter.....	837 63	10 months.....	
Julius Kincheloe.....	886 98	10 mos. and 20 days..	Died May 20, 1867.
Charles Hosmer.....	1,000 00	1 year.....	
A. T. Mosman.....	1,000 00	do.....	
John M. Donn.....	1,000 00	do.....	
Charles Junken.....	1,000 00	do.....	
Charles Ferguson.....	900 00	do.....	
Fred. F. Nes.....	800 00	do.....	
Thomas C. Bowie.....	400 00	6 months.....	To December 31, 1866.
W. W. Harding.....	400 00	do.....	To December 31, 1866.
Horace Anderson.....	800 00	1 year.....	
H. Wood Bache.....	266 68	4 months.....	From March 1, 1867.
G. Farquhar.....	500 00	6 months.....	From January 1, 1867.

List showing the number and names of persons employed, &c.—Continued.

Names and offices.	Am't of comp'n.	Time employed.	Remarks.
<i>Artificer.</i>			
Thomas McDonnell	\$1,200 00	1 year	
<i>Hydrographic draughtsmen.</i>			
E. Willenbacher	1,400 00	..do	
A. Balbach	1,200 00	..do	
W. B. McMurtrie	340 00	4½ months	
H. Hammerschlag	350 00	.....	Contract.
<i>Computers.</i>			
Charles A. Schött	2,200 00	1 year	
Theo. W. Werner	1,565 00	..do	
Eugenius Nulty	1,200 00	..do	
G. Rumpf	1,400 00	..do	
R. S. Avery	1,200 00	..do	
E. H. Courtenay	900 00	..do	
D. Schooley	294 00	4 months	To November 17, 1866.
J. Sprandel	924 00	11 mos. and 22 days	
James Main	966 00	8 months	
David Murray	60 00	1 month	
Cleveland Abbe	106 50	2 months	
<i>Tide computers.</i>			
L. F. Pourtales	1,200 00	9 months	From October 1, 1866.
John Downes	720 00	1 year	
M. Thomas	720 00	..do	
F. R. Pendleton	250 00	10 months	To April 30, 1867.
A. Gotthiel	334 84	5 mos. and 18 days	From January 14, 1867.
<i>Draughtsmen.</i>			
M. J. McClery	566 13	3 mos. and 24 days	Died October 24, 1866.
E. Hergesheimer	1,800 00	1 year	
A. Lindenköhl	1,600 00	..do	
F. Fairfax	936 00	..do	
W. Fairfax	780 00	..do	
B. Hoee, jr	780 00	..do	
F. Blake, jr	300 00	6 months	July 1 to Dec. 31, 1866.
E. Molkow	858 00	1 year	
L. Karcher	1,002 00	..do	Part on contract.
Jos. Hergesheimer	100 00	2 months	May and June, 1867.
Charles McDermot	15 00	1 month	May, 1867.
James Welch	80 00	..do	Dec., 1866—contract.
W. T. Bright, (clerk)	1,200 00	1 year	
<i>Engravers.</i>			
John Knight	1,800 00	..do	
A. Rolle	1,800 00	..do	
A. Sengteller	1,589 00	..do	Part on contract.
A. M. Maedel	1,326 00	..do	
H. S. Barnard	1,471 27	..do	Do.
J. C. Kendrup	1,648 75	..do	Do.
A. Petersen	1,226 00	..do	
E. A. Maedel	1,248 00	..do	
R. F. Bartle	1,176 25	..do	Do.
W. A. Thompson	998 40	..do	
T. W. Benner	858 00	..do	
J. G. Thompson	936 00	..do	
A. Buckle	858 00	..do	

List showing the number and names of persons employed, &c.—Continued.

Names and offices.	Am't of comp'n.	Time employed	Remarks.
Edward H. Sipe	\$858 00	1 year.....	
W. H. Davis	624 00	do.....	
H. Lindenkohl.....	1,837 50	do.....	Contract.
H. C. Evans.....	1,696 95	do.....	Do.
J. Enthoffer	2,069 10	do.....	Do.
C. T. Klakring.....	126 33	2 months	Do.
George McCoy.....	256 00	do.....	Do.
Edward Wharton, (clerk)....	1,400 00	1 year	
<i>Copyists.</i>			
George C. Schaeffer.....	215 00	3 months	Part on contract.
T. H. Rich.....	165 00	do.....	From Dec. 1, 1866, to Feb. 23, 1867.
<i>Copperplate printers.</i>			
T. V. Durham.....	1,092 00	1 year.....	
J. Fries.....	624 00	do.....	
<i>Lithographic printers.</i>			
Charles G. Krebs	981 50	11 mos. and 14 days.	
A. Brown	874 25	10 mos. and 8 days..	
Wm. Young, (laborer).....	598 00	11 mos. and 13 days.	
<i>Map room.</i>			
H. Nissen, (bookbinder).....	858 00	11 months.....	From August 1, 1866.
<i>Electrotype division.</i>			
George Mathiot.....	2,000 00	1 year	
A. F. Pearle.....	275 00	5 months	To November 30, 1866.
Frank Ober, (laborer)	720 00	1 year.....	
<i>Carpenters.</i>			
A. Yeatmann.....	994 50	1 year	
H. Thine.....	690 25	9 mos. and 18 days..	To April 30, 1867.
George Plimley	236 50	3 mos. and 10 days..	Contract.
<i>Instrument makers.</i>			
Wm. Wurdermann.....	300 00	6 months	From January 1, 1867.
Thomas J. Hunt.....	510 25	do.....	July 1 to Dec. 31, 1866.
John Foller.....	780 00	1 year	
C. W. Black.....	740 75	do.....	
Wm. Jacobi.....	816 75	11 mos. and 12 days.	
M. F. Keys.....	312 00	1 year.....	
<i>Archives library.</i>			
A. Zumbrock	720 00	do.....	
<i>Clerks.</i>			
W. W. Cooper.....	2,000 00	do.....	
John T. Hoover.....	1,400 00	do.....	
V. E. King.....	1,400 00	do.....	
<i>Messengers and Watchmen.</i>			
Daniel Flynn	840 00	do.....	
Thomas Kenney	730 00	do.....	

List showing the number and names of persons employed, &c.—Continued.

Names and offices.	Am't of comp'n.	Time employed.	Remarks.
W. B. Ingram.....	\$602 25	1 year.....	
Sampson Nutter.....	602 25	do.....	
John H. Diggs.....	602 25	do.....	
Dennis Orme.....	602 25	do.....	
Samuel Orme.....	117 42	2 mos. and 29 days..	March 1 to May 31, 1867.
W. H. Butler.....	80 00	2 months.....	May 1 to June 30, 1867.
B. Neff.....	730 00	1 month.....	
<i>Disbursing agent.</i>			
Samuel Hein.....	3,000 00	1 year.....	
<i>Clerks.</i>			
R. L. Hawkins.....	1,800 00	do.....	
W. I. Parsons.....	583 33	8 months.....	Aug. 1, 1866, to Mar. 31, 1867.
W. A. Herbert.....	492 00	11 mos. 20 and days.	July 10, 1866, to June 30, 1867.
<i>Tide observers.</i>			
R. T. Bassett.....	876 25	1 year.....	
T. E. Ready.....	150 00	3 months.....	To September 30, 1866.
E. F. Krebs.....	255 00	1 year.....	
W. R. Wood.....	80 00	4 months.....	July 1 to Oct. 31, 1866.
<i>Publication.</i>			
F. Hudson.....	900 00	11 mos. and 14 days.	
A. Davies.....	600 00	1 year.....	
George M. Kraft, (watchman).	102 30	2 months.....	July and August, 1866.
M. Lanmann, (watchman)...	530 25	10 months.....	Sept. 1, 1866, to June 30, 1867.
<i>Extra observers.</i>			
Benjamin Peirce.....	983 33	7 mos. and 25 days..	July 1, 1866, to Feb. 25, 1867.
B. A. Gould.....	1,375 00	11 months.....	To May 31, 1867.
Charles S. Peirce.....	720 00	1 year.....	
Joseph Winlock.....	80 00	1 month.....	From June 1, 1867.
<i>Copyists.</i>			
Daniel Leech, jr.....	138 00	1 mo. and 19 days..	To May 31, 1867.
E. Nicholson.....	131 87	3 months.....	To January 31, 1867.
(All assistants, sub-assistants, and office employes have received an allowance of 20 per cent on their salaries, for the fiscal year 1866-'67.)			
<i>Engineers.</i>			
W. H. Mapes.....	1,433 00	1 year.....	
James Smith.....	1,415 00	do.....	
P. F. Callahan.....	1,036 75	do.....	
Andrew Blass.....	326 33	2½ months.....	To September 22, 1866.
George E. Lee.....	289 00	2½ months.....	To September 22, 1866.
James Bopp.....	135 00	1½ month.....	To October 15, 1866.
Samuel Fowler.....	948 00	9 months.....	From October 1, 1866.
T. L. Churchill.....	737 00	7 months.....	From December 1, 1866.
A. Bayles.....	446 00	5 months.....	From February 1, 1867.
H. L. Oliver.....	413 00	5 months.....	From February 1, 1867.
Isaac Freeburger.....	54 00	½ month.....	From June 15, 1867.

Statement of expenditures for survey of the Atlantic and Gulf coast in fiscal year 1866 and 1867, in order of sections of the coast and of operations in each section.

	1866.		1867.			
	3d quarter—July, August, Septem- ber.	4th quarter—Octo- ber, November, December.	1st quarter—Jan- uary, February, March.	2d quarter—April, May, June.	Total, year.	Total, section.
Section I.						
Triangulation	\$3,795 84	\$3,528 99	\$2,522 90	\$3,550 66	\$13,398 39	
Topographical	13,040 88	9,401 28	1,986 00	3,500 20	27,928 36	
Hydrography	9,849 22	6,123 61	682 33	1,462 06	18,117 22	\$59,443 97
Section II.						
Triangulation	1,755 44	842 91	600 00	1,282 33	4,480 68	
Topographical	1,655 18	954 54	27 94	421 60	3,059 26	
Hydrography	253 13	254 07	257 11	255 10	1,019 41	8,559 35
Section III.						
Triangulation and As- tronomical	2,914 16	1,967 63	1,313 00	2,850 44	9,045 23	
Topographical	360 00	360 00	1,832 47	1,793 92	4,346 39	
Hydrography	742 34	1,952 23	310 00	513 33	3,517 90	16,904 52
Section IV.						
Triangulation	2,107 06	2,143 68	1,981 43	1,682 27	7,914 44	
Topographical	1,808 62	1,610 00	5,462 94	3,190 18	12,071 74	
Hydrography	2,016 22	3,560 03	2,259 73	2,460 55	10,296 53	30,282 71
Section V.						
Triangulation	1,931 20	10 00	.....	.....	1,941 20	
Topographical	959 31	2,267 71	6,548 11	5,377 79	15,152 92	
Hydrography .....	.....	1,112 50	3,134 79	2,367 68	6,614 97	23,709 09
Section VII.						
Triangulation	1,619 55	2,505 57	4,004 01	4,415 58	12,544 71	
Topographical .....	.....	.....	730 60	90 10	820 70	13,365 41
Section VIII.						
Topographical	923 83	.....	2,184 84	2,308 74	5,417 41	
Triangulation and Hydrography	2,396 32	1,986 63	4,345 50	3,657 90	12,416 35	17,833 76
Section IX.						
Triangulation .....	.....	1,267 12	3,254 72	1,486 70	6,008 54	
Topographical	1,330 12	1,051 86	1,893 52	1,796 22	5,971 72	
Hydrography	2,133 34	905 48	2,133 18	2,050 85	7,222 85	19,203 11

RECAPITULATION OF FIELD EXPENDITURES.

Section I	\$59,443 97
Section II	8,559 35
Section III	16,909 52
Section IV	30,282 71
Section V	23,709 09
Section VII	13,365 41
Section VIII	17,833 76
Section IX	19,203 11
Longitude and telegraphic operations	5,187 68
Longitude across Atlantic telegraph cable	9,330 28
Purchase of steamer Endeavor	20,467 47
Instruments	956 93
	<u>\$225,249 28</u>

Work of reducing observations, drawing, engraving, printing maps, electrotyping, materials, and general office work.

Assistant in charge of office	\$4,100 00
Computation, tidal and other	8,282 50
Drawing and materials	7,024 72
Engraving and materials	14,135 40
Electrotyping and materials	3,370 13
Copperplate printing and materials	1,322 24
Lithographic printing and materials	1,687 95
Instrument makers and materials	2,779 65
Carpentry and materials	1,359 07
Archives and library	817 30
Recording	1,930 00
Messengers and watchmen	1,782 25
Map room	1,200 00
Disbursing	3,000 00
Rent of offices	2,000 00
Fuel, wood, coal, oil, and candles	855 38
Stationery and drawing materials	2,028 69
Express transportation and telegraphing	1,019 59
Travelling expenses	873 23
Contingent repairs of offices, water pipes, cleaning chimneys, and all others not above enumerated	2,414 18
	<u>\$61,982 28</u>

GENERAL RECAPITULATION SURVEY OF ATLANTIC AND GULF COAST.

Field expenditures	\$225,249 28
Office expenditures	61,982 28
Total expenditures	<u>\$287,231 56</u>

Expenditures for continuing the survey of the western coast in fiscal year 1866-'67.

SECTIONS X AND XI.

Field expenditures.

One astronomical party part of season	\$3,453 30
One triangulation party	15,682 44
One triangulation topographical party	25,585 87
One topographical party	15,115 28
One hydrographical party	20,559 23
One hydrographical party part of season	8,716 15
Tidal operations	5,721 64
New instruments	2,193 81
Total field expenditures	<u>\$97,067 92</u>

Office expenditures.

Computing, tidal and other.....	\$7,041 83
Drawing and materials.....	7,342 54
Engraving and materials.....	10,571 88
Electrotyping and materials.....	2,497 09
Copperplate printing and materials.....	1,052 96
Lithographic printing and materials.....	2,019 91
Instrument makers and materials.....	2,160 24
Carpentry and materials.....	1,618 81
Archives and library.....	786 19
Messengers and watchmen.....	1,924 17
Map room.....	858 00
Disbursing.....	1,800 00
Rent of offices.....	1,350 00
Fuel, wood, coal, oil, and candles.....	334 00
Stationery and drawing materials.....	1,291 15
Express transportation and telegraphing.....	785 82
Travelling expenses.....	501 86
Contingent repairs of office, water pipes, cleaning chimneys, and all others not above enumerated.....	1,382 91
Total office expenditures.....	45,319 36
Total expenditures.....	142,327 25

*Expenditures for continuing the survey of the Florida reefs and keys in the
fiscal year 1866-'67.*

SECTION VI.

Field expenditures.

Two topographical parties.....	\$10,206 45
Two hydrographical parties.....	13,304 81
Total field expenditures.....	23,511 26

Office expenditures.

Computations.....	\$2,970 00
Drawing.....	1,105 00
Engraving.....	1,448 00
Disbursing.....	733 33
Rent of office.....	300 00
Express transportation.....	83 40
Contingencies.....	81 58
Total office expenses.....	6,721 31
Total expenditures.....	30,232 57

*For repairs of steamers and sailing schooners used in the coast survey for the
fiscal year 1866-'67.*

Expenditures.

Schooner Varina.....	\$8,878 71
Schooner Stevens.....	4,990 41
Schooner Dana.....	4,323 89
Schooner Arago.....	3,781 67
Schooner Agassiz.....	3,481 07
Schooner Jos. Henry.....	2,647 38

EXPENSES OF COAST SURVEY.

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Schooner B. Peirce.....	\$1,519 60
Schooner Caswell.....	958 62
Schooner Hassler.....	790 78
Schooner Bailey.....	657 79
Schooner Torrey.....	474 42
Schooner Bowditch.....	348 50
Schooner Meredith.....	209 72
Steamer Bibb.....	114 07
Transportation expenditures, supervision, &c.....	307 13
Total expenditures.....	<u>33,483 96</u>

The following expenditures for special survey, &c., have been made under the direction of the Superintendent of the Coast Survey in the fiscal year 1866-'67.

For publishing the observations made in the progress of the survey of the coast.....	\$5,357 42
For pay and rations of engineers used in the hydrography of the coast survey no longer supplied by the Navy Department.....	<u>7,136 42</u>

SAM'L HINE,

General Disbursing Agent, Coast Survey.

UNITED STATES COAST SURVEY OFFICE, October 1, 1867.

H. Ex. Doc. 286—2

