



1831

See Crosby's Report on No. 1776 & 1831.

U. S. COAST AND GEODETIC SURVEY.

*A. M. Thorn*, Superintendent.

State: *Louisiana.*

DESCRIPTIVE REPORT.

*Hydrographic* Sheets Nos. *1776*  
& *1777.*

LOCALITY:

*Coast of*  
*Louisiana.*

1857.

CHIEF OF PARTY:

*Lt. D. D. V. Stuart, U. S. N.*

Report:  
Steamer Endeavor.  
Season 1887.

Lieut D. D. V. Stuart U.S.N. Asst-  
Commanding.

Ensigns R O Butler U.S.N. }  
" W B Fletcher " } Subst. Lt.  
" E L Johnston " }

Location: -  
Vermilion Bay, Louisiana  
Louisiana Coast - Gulf of Mexico

# Report A

- 2: — Statements derived from personal observation and from mariners of 20 years experience in vicinity regarding fogs and gales.
- 3:— There is only one channel with bar having about seven feet at mean low water. At entrance to pass as much as 25 fms: generally about from 3 to 5 feet. Every man his own pilot.
- 4:— Channel permanent; not to my knowledge.
- 5:— None.
- 6:— Best anchorage where S W Pass enters Vermilion Bay at N.E extremity. Deep water, good holding bottom, and protected from all winds. Small crafts generally anchor to E of St House Pt, in hook.
- 7:— Shoal water on either edge of channel, generally hard bottom.

- 8:- The current run fair with channel, and its velocity is entirely governed by the wind prevailing at the time
- 9:- No ranges used.
- 10:- The bottom in channel and at anchor-  
age soft and sticky. In shoal water  
oyster beds.
- 11:- The local name for clump of woods at  
Signal Outer known as Chenier le Croix.
- 12:- — —
-

Report B removed & filed  
in Coast Pilot Division.

July. 7. 1887.

G. H. Peters  
Lieut. U. S. N., in charge.  
Coast Pilot Div.

Projection A

19

Date	Letter	Number of -			Name of Vessel	Observers	
		Sounding Book	Soundings	Angles			Miles
March 26	A	1	1116	<del>81</del> 55	46.3	Enderavor	(Lieut. D. D. Stuart. Ensign R. O. Bitler. " W. B. Fletcher " M. Johnston)
April 8	B	1	1181	<del>96</del> 7	88.15	"	"
" 13	C	2	1092	<del>91</del> 7	80.	"	"
" 14	D	2	62	<del>10</del> 4	2.7	"	"
" 15	E	3	587	<del>55</del> 16	43.57	"	"
" 18	F	2	611	<del>60</del> 28	47.1	"	"
" 20	G	{ 2 4	1224	<del>100</del> 47	65.57	"	"
May 20	H	3	1107	<del>107</del> 3	82.18	"	"
" 21	I	3	764	<del>110</del> 6	35.53	"	"
" 24	K	5	830	<del>70</del> 24	52.99	"	"
" 25	L	5	439	<del>27</del> 4	17.98	"	"
" 28	M	5	1072	<del>62</del> 15	53.54	"	"
" 30	N	6	1676	<del>81</del> 25	63.85	"	"
Total			11725	347	679.46		
April 14	a	1	1232	75	18.2	Whale boat	{ Ensign R. O. Bitler. M. Johnston.
" 15	b	1	842	48	11.5	"	{ Ensign R. O. Bitler. W. B. Fletcher.
May 20	c	2	321	24	7.5	"	{ Ensign R. O. Bitler M. Johnston
Total	16		2396	147	37.2		

Soundings - Angles - Miles

12 73  
25 20  
81 96

Grand Total  
Proj. A

14121 - 494 - 716.66

Projection #3

Date.	Letter.	Number of -				Name of Vessel.	Observers.
		Sounding Book.	Soundings.	Angles.	miles.		
March 7	a	1	683	126	11.3	Whale Boat	Ensign R. O. Bitler. " M. Johnston.
" 8	b	1	604	95	10.4	"	"
" 9	c	1	380	75	7.2	"	"
" 12	d	2	304	12	4.7	"	"
" 14	e	2	955	123	13.2	"	"
" 15	f	2	961	123	13.	"	"
" 18	g	3	432	49	6.1	"	"
" 21	h	3	118	18	2.2	"	"
" 23	i	3	1175	146	17.2	"	"
" 24	k	3	657	76	10.	"	"
April 25	l	4	1571	166	21.	"	"
" 26	m	4	1068	116	14.	"	"
" 26	n	5	363	44	5.7	"	"
May 31	r	6	259	28	3.5	"	"
June 2	o	6	715	60	7.	"	"
Total	15	6	10245	1257	146.5		

Sq. Miles 26 — naut

# Atchafalaya Bay

Date	Letter	Number of -				Name of Vessel	Observers.
		Sounding Book	Soundings	Angles	Miles		
May 13	A	1	459	57	11.1	Endeavour	{ Lieut. D. D. V. Stuart Ensign R. O. Bitler. " W. B. Fletcher. " M. Johnston
" 14	B	1	402	43	10.9	"	
Total			861	100	22.0		
May 10	a	1	1643	179	16.3	Whale Boat	{ Ensign R. O. Bitler. " M. Johnston. { Ensign R. O. Bitler " W. B. Fletcher " M. Johnston " " { Ensign R. O. Bitler " M. Johnston
" 11	b	1	816	122	8.8	"	
" 13	c	2	1158	106	9.8	"	
" 14	d	2	429	25	6.1	"	
Total			4046	432	41.0		

## Recapitulation

Steammen.	861 - 100 - 22.0
Whale Boat.	4046 - 432 - 41.0
Total	<u>4907 - 532 - 63.0</u>



Recapitulation -

Locality	Projection	Number of -			Name of Vessel	Remarks
		Soundings	Angles	Miles		
{ Coast of La. in vicinity of Entrance to Vermilion Bay }	A	14121	494	716.7	Endeavor	
Vermilion Bay	B	10245	1287	146.5	Whale boat	
Achafalaya Bay	<sup>Dredged</sup> Channel	4907	582	63.0	{ Endeavor Whale boat }	
		29273	2283	926.2		

Table Showing Data in Reference  
to Signals.

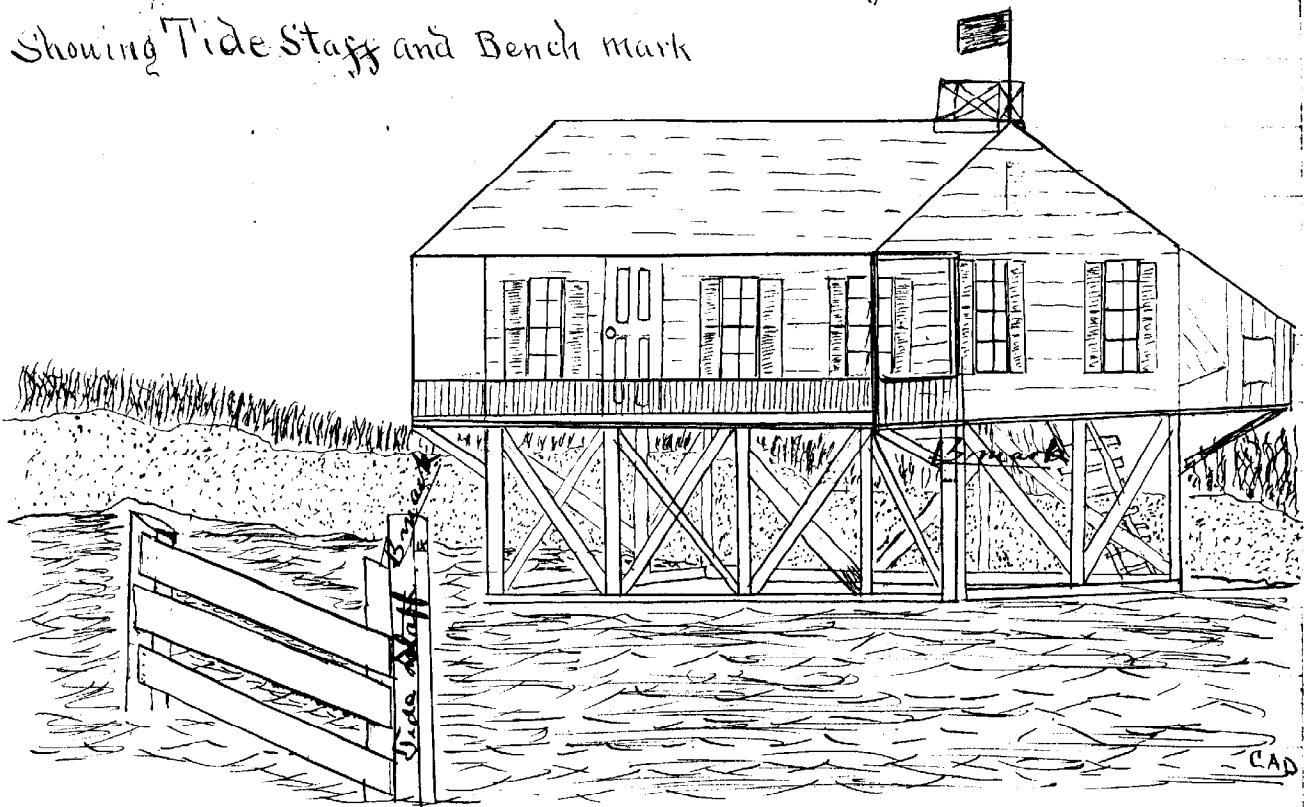
Vessel	Whole no. signals on Sheet	Whole no. Trian- gulation points.	No. Signals built and cut in by party.	Triangulation points rebuilt.	Water signals built by party.	Remarks.
Endeavor						
Projection A	39	13	21	13	18	
3	24	10	12	9	1	
Atchafalaya Bay	14	3	11	2	9	
Total	77	26	44	24	28	

The water signals built by party are included in No. sig-  
nals built and cut in by party. Five (5) signals on "A" proj.  
and two (2) on #3 proj. were given us on sheets but were  
not triangulation points.

Table Showing Occupation of Time.

Vessel	No days on Station.	No days on which surveying was done.	No days building and cutting in signals.	No days prevented from working by weather and other circumstances.	Remarks.
Enderbor	93	37	17	39	In the 39 days, were included the days spent in going to Morgan City for water and coal and returning to working ground.

Custom House Vermilion Bay La.  
Showing Tide Staff and Bench mark



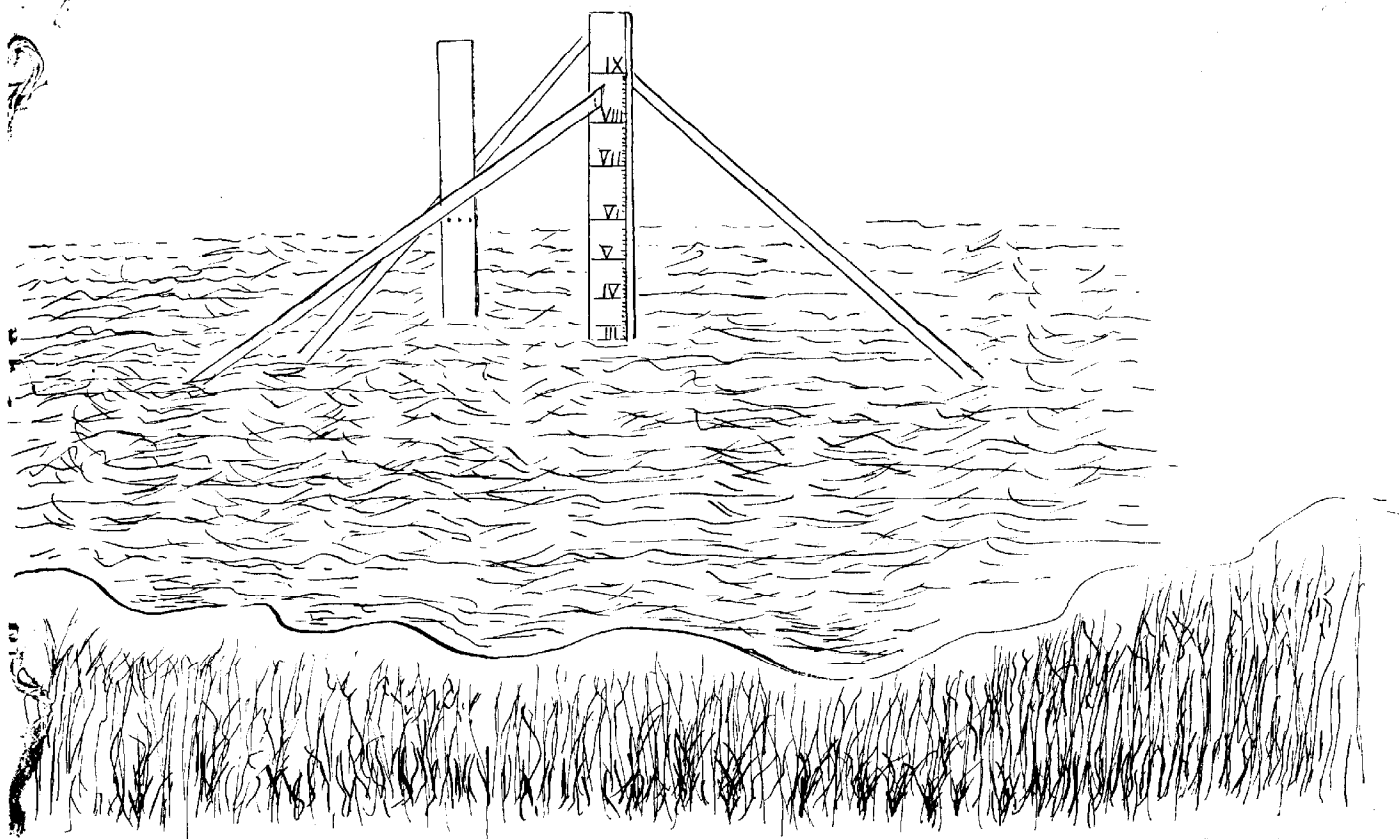
Description of Bench mark.

The line made by upper two spikes of triangle on NW side of custom Ho, on level with 9 feet mark on gauge, also same kind mark on pile near gauge opposite 4 ft gauge.

Diff of level of bench mark: -

V opposite 9 ft. of bench mark

V opposite 4 " " " "




---

Description of Tide Staff + Bench mark

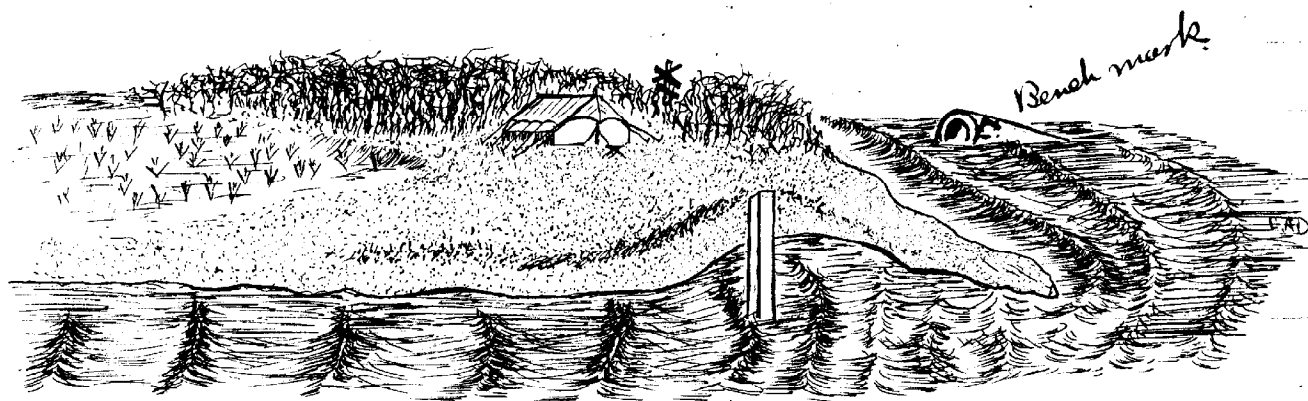
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Locality Western shore of S.W. Pass Vermilion Bay La about 220 yds N.E. of Bush ©. and about 40 feet from shore.

Tide staff. An upright scantling 10 ft in length held in position by three braces.

Bench Mark. Three nails in an even line with the VI foot mark on the Tide staff, driven into a scantling, which is sunk one ft into the mud 16 inches N.E. of Tide Staff.

" Old Light House Point. Marsh Island. La.  
 Showing locality of Tide Staff and Bench mark.



Bench mark:— Line cut in Old Light Ho (fallen down)  
 on Northern side on level with 4.2 mark of range,  
 Another line cut in 1 foot above.

Diff of level of bench:— On level with ~~4.2~~ 4.2 mark of  
 range

# 1831

Diag. Cht. Nos. 1276 & 1277

<p>Form 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR</p> <h2>DESCRIPTIVE REPORT</h2> <p>Topographic } Hydrographic } Sheet No. 1831</p>	
<p>U. S. COAST &amp; GEODETIC SURVEY LIBRARY AND ARCHIVES</p> <p>SEP 1 1936</p> <p>Acc. No.</p>	
<p>State <u>Louisiana</u></p>	
<p>LOCALITY</p>	
<p><u>Louisiana Coast</u></p>	
<p><u>Ship sheet Lt. to Marsh Island</u></p>	
<p><del>193</del> <u>1888-9</u></p>	
<p>CHIEF OF PARTY</p>	
<p><u>Lt. Crosby &amp; Ensign Garrett</u></p>	

See original report in bound volume <sup>pac</sup>

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

H 1831

AND REFER TO No. 34-MT

June 29, 1936.

To: The Chief,  
Division of Charts.

From: The Chief,  
Division of Tides and Currents.

Subject: Memorandum regarding tide reducers for H. S. 1831

The work on this sheet was done by Lieutenant F. H. Crosby in 1888 and Ensign L. M. Garrett in 1889.

The soundings by Lieutenant Crosby in 1888 were reduced to a plane designated as mean low water which appears to be an average of the lower low water readings observed at S. W. Reef Light, May 14 - 24, 1888, and is about 0.5 foot below the average of all the low water readings made during that period.

An examination of the records in the original tide book indicates that two gages were used, a box gage and a plain staff gage. The zero of the staff gage appears to have been set 1 foot lower than that of the box gage, and there is some indication that readings from the two gages may be intermingled in the record, causing an error to be made in the determination of the datum plane.

The soundings by Ensign L. M. Garrett in 1889 were also reduced to a plane designated as mean low water which is approximately the average of all the low water readings taken at S. W. Reef Light, February 13 - May 31, 1889. This plane is based on a longer and better tidal series than that of 1888, and is therefore much more reliable.

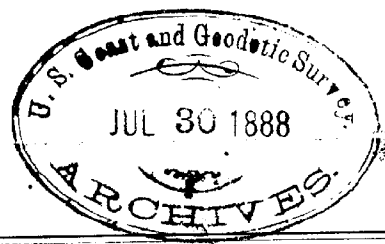
In the original tide book is a statement that the zero of tide staff in 1889 was 5.3 feet below a bench mark, also that this bench mark is the same as was used by Lieutenant Crosby in 1888 with an elevation of 5.3 feet above zero of gage.

If from the above statement it can be assumed that both gages were set at the same elevation, the plane of reference used in 1888 would be 0.7 foot lower than that of 1889. A comparison of soundings from both years' work in the same locality would probably give some indication as to whether this is true or not.

*Hammann*

Acting Chief,  
Division of Tides and Currents.





See St. Stuart's Report on Nos. 1776 & 1777.

U. S. COAST AND GEODETIC SURVEY.

*F. M. Thorn*, Superintendent.

State: *Louisiana.*

DESCRIPTIVE REPORTS.\*

*Hydrographic* Sheets Nos. *1776,*  
*& 1831.*

LOCALITY:

*Coast of*  
*Louisiana.*

1888.

CHIEF OF PARTY:

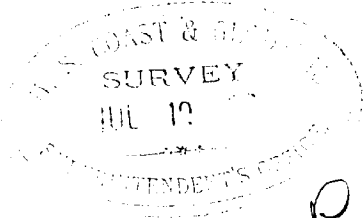
*Lieut. J. H. Crosby, U. S. N.*

\* *A and B.*

Give here full address to which reply should be sent:

Eastport Maine

U. S. Coast and Geodetic Survey.



Steamer Gedney

July 10<sup>th</sup> 1888

Report "A" Coast of Louisiana

Mr F. M. Thorne  
Superintendent of Survey  
Washington D. C.

Sir

I have the honor to submit the following report "A" on the off shore work Coast of Louisiana last season. As near as I could learn there are no perceptible changes taking place in the channels or other features along this coast. The currents set to the westward as a rule, but are very sensitive to the wind. After a wind has been blowing steadily for several hours in one direction, a current will be found setting in the same direction. This current rarely exceeds one knot. With the exception of Trinity Shoal, which is gray sand, and the numerous shell reefs

Give here full address to which reply should be sent:

U. S. Coast and Geodetic Survey,

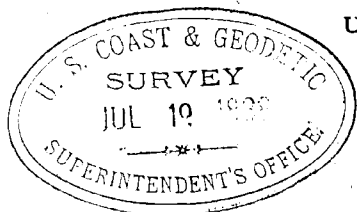
....., 1881

nearer shore, the bottom is very soft mud. I found that Trinity Shoal instead of being confined to the limits shown on the old charts is practically continuous as far eastward as I worked; that is, the same sand ridge is continuous and it shoals up again near the eastern limit of my work. This ridge is so hard and thick that some maple trees I pumped down about 8 feet on Trinity Shoal for signals, I was unable to pull up with the kedney at the closing of work. They are not stiff enough however to endanger vessels striking them.

Very Respectfully  
J. A. Crosby  
Lieut. U. S. N. Asst. Col. S.

Give here full address to which reply should be sent:

Eastport Maine



U. S. Coast and Geodetic Survey,

Steamer Fedney

July 10<sup>th</sup>, 1888

Report "B" Off Shore Mark Coast Louisiana

Mr F. M. Sherman

Superintendent of Survey  
Washington D. C.

Sir

The coast in this vicinity is very low, with here and there a clump of live oak trees, and at rare intervals a building. The only authentic information obtainable as to the number of vessels in these waters is the number sighted - during daylight in one year from the Trinity Shoal Lightship. Viz - From May 1<sup>st</sup> 1887 to April 20<sup>th</sup> 1888  
Steamers 142 - Barks 1 - Schooners 169 -  
Tugs 25 - Sloops 5 - There are no railroads or Post Offices on the sheets. There is a small fishing settlement at Chiniere-le-Ligre. The prevailing winds during summer are south east. The heaviest gales

Give here full address to which reply should be sent:

U. S. Coast and Geodetic Survey,

2

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coming from that direction, except hurricanes which come from South West and only in September and October.

In the winter the heaviest gales come from North West in "hurthers" which last from a few hours to one or two days. During the winter months there are frequent fogs, they come with Southerly wind and are cleared away by Northerly winds. Fog do not occur after February.

This information on the weather was furnished by Captain J. H. Ware of the Trinity Shoal Lightship.

Wrecks are almost unknown on this coast.

Very Respectfully  
 J. A. Crosby  
 Lieut. U.S.N. and Col. S.

Gedney  
1888

Sheet A. No. 1776.

Scale 33,  
8000

# Coast of Louisiana

Lieut F. H. Crosby U.S.N  
In charge of Party

Began Feby 18: 1888  
Ended May 10-1888

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in Charge	Observers
			Sdg	Tide					
Feby 18	Gedney	A	1	1	25.0	816	18	Lt. F. H. Crosby	Lt. F. H. Crosby Ensn R. O. Bidler " Jos Strauss D. S. Nes Pay'ee W. S. Crosby
Mch 22	"	B	1	1	75	281	24	"	
" 23	"	C	1-2	1	48.5	1633	54	"	
Apr 11	"	D	2	1	22.0	707	64	"	
" 13	"	E	2	1	62.25	1286	24	"	
" 17	"	F	3	1	47.0	1483	145	"	
" 18	"	G	3-4	1	59.0	2180	208	"	
" 19	"	H	4	1	50.0	1187	81	"	
" 20	"	J	5	1	65.0	2122	195	"	
" 23	"	K	6	1	44.1	1233	42	"	
" 24	"	L	6-7	1	65.3	1563	43	"	
May 5	"	M	7-8	1	91.1	2802	152	"	
" 7	"	N	8	1	56.6	1284	60	"	
" 8	"	O	8-9	1	64.0	1997	133	"	
" 9	"	P	9	1	45.7	1681	145	"	
" 10	"	Q	10	1	31.9	1063	103	"	
			10	1	784.95	23318	1491	Carried forward	

Sheet A No. 1776.  
Coast of Louisiana  
Continued

Date 1888	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			Sdg	Tide					
		.	10	1	784.95	23318	1491	Ensign R.O. Bitler	Ensign R.O. Bitler } " D.S. Nes }
April 13	St. Cutter	a	1	1	26.5	1243	65	"	"
14	"	b	1	1	27.0	1197	71	"	"
17	"	c	2	1	30.9	1515	127	"	"
18	"	d	2.3	1	40.0	1851	178	"	"
19	"	e	3	1	37.5	1511	73	"	"
20	"	f	4	1	27.0	1161	54	"	"
23	"	g	4.5	1	32.0	1427	139	"	"
May 8	"	h	5	1	45.0	2148	180	"	"
9	"	i	6	1	29.6	1571	114	"	"
10	"	j	7	1	18.0	900	68	"	"
April 14	W Boat	k	1	1	12.5	1043	82	Ensn Jo: Strauss	Ensn Jos Strauss } Pay Ven W. S. Crosby }
			18	1	1110.95	38885	2642		□ Miles 493

1888

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# Coast of Louisiana

Sheet A. scale  $\frac{1}{80000}$

No. 1776.

Begun Feby 18. 1888.

Ended

□ miles = miles - Soundings. Angles. Tidegauges = sigs built

493. 1110.95. 38885 2642 1 34

Lieut F. H. Crosby  
 Ensign R. O. Biller  
 " Jos. Strauss  
 " D. S. Nes  
 Pay Geo W. S. Crosby

Observers

E. Meyer (M at A)  
 J. Anderson (B<sup>m</sup>)  
 J. S. Taylor (Q<sup>m</sup>)  
 F. Christiansen (" )  
 C. Mattson (Sea)  
 M. Dahlgrin (" )

Leadersmen

W. B. Griffith (sea)  
 A. S. Stebbins (sea)

Recorders

C. Mattson (sea)  
 A. E. Bjorkman (" )  
 F. Anderson (" )

Tide Observers

M. B. Griffith (sea) copyist

Lt F. H. Crosby  
 Ensign R. O. Biller  
 " J. Strauss  
 " D. S. Nes

Plotted by

18 Sounding Books  
 1 Angle "  
 1 Tide "

originals

9 Fair Journals  
 1 Angle Books  
 1 Tide "

Copies



"Gedney"  
1888

Sheet A No. 1776.  
Coast of Louisiana

Scale 36  
80000

Lieut F. H. Crosby U.S.N  
In Charge of Party

Began Feby 18. 1888  
Ended May 10. 1888

Date	Boat	Letter	Books		Miles	Soundings	Angles	Officer in charge	Observers
			Sdg	Tides					
Feby 18	"Gedney"	A	1	/	25.0	816	18	Lt F. H. Crosby	Lt F. H. Crosby Ensn R. O. Butler " Jos Strauss D. S. Mes Pay Sec W. S. Crosby
Mar 22	"	B	1	/	7.5	281	24	"	
" 23	"	C	1-2	/	48.5	1633	54	"	
April 11	"	D	2	/	22.0	707	64	"	
" 13	"	E	2	/	62.25	1286	24	"	
" 17	"	F	3	/	47.0	1483	145	"	
" 18	"	G	3.4	/	59.0	2180	208	"	
" 19	"	H	4	/	50.0	1187	81	"	
" 20	"	J	5	/	65.0	2122	195	"	
" 23	"	K	6	/	44.1	1233	42	"	
" 24	"	L	6-7	/	65.3	1563	43	"	
May 5	"	M	7-8	/	91.1	2802	152	"	
" 7	"	N	8	/	56.6	1284	60	"	
" 8	"	O	8-9	/	64.4	1997	133	"	
" 9	"	P	9	/	45.7	1681	145	"	
" 10	"	Q	10	/	31.9	1063	103	"	
			10	1	784.95	23318	1491	Carried forward	

Sheet A No. 1776  
Coast of Louisiana  
 (continued)

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			Sdg	Tide					
			10	1	784.95	23318	1491		
Apr 13	Stutter	a	1	1	26.5	1243	65	Ensign R.O. Bitter	Ensign R.O. Bitter } " D.S. Nes }
14	"	b	1	1	27.0	1197	71	"	"
17	"	c	2	1	30.9	1515	127	"	"
18	"	d	2-3	1	40.0	1851	178	"	"
19	"	e	3	1	37.5	1511	73	"	"
20	"	f	4	1	27.0	1161	54	"	"
23	"	g	4-5	1	32.0	1427	139	"	"
May 8	"	h	5	1	45.0	2148	180	"	"
9	"	i	6	1	29.6	1571	114	"	"
10	"	k	7	1	18.0	900	68	"	"
Apr 14	Wboat	l	1	1	12.5	1043	82	Ensign Jos Strauss	Ensign Jos Strauss } Payee W.S. Crosby }
			18	1	1110.95	38885	2642		□ Miles 493

1888

38.

Coast of Louisiana

Sheet A

scale  $\frac{1}{80000}$

No. 1776.

Total no	of	Miles	1110.95
"	"	Soundings	38885
"	"	Angles	2642
"	"	□ miles	493
"	"	Signals built	34
"	"	" Located	23
"	"	Tide gauges erected	1
"	"	Bottom Specimens	34
"	"	Days hydrography done	26
"	"	" Bad weather &c	9
"	"	" Building signals	8
"	"	" work done by "Gedney"	15
"	"	" " " " " Cutter	18
"	"	" " " " " Whalerboat	1
"	"	Miles done by "Gedney"	784.95
"	"	" " " " " Ship Cutter	313.50
"	"	" " " " " Whalerboat	12.50

Began Feby 18. 1888

Ended May 10<sup>th</sup> 1888

18 Sounding Books  
 1 Angle "  
 1 Tide "

} Originals

9 Fair Journals  
 1 Angle Books  
 1 Tide

} Copies



Gedney  
1888

Sheet B No. 1831

Scale 40.  
80000

Coast of Louisiana

Began May 11-1888

Ended May 24-1888

Lieut F. H. Crosby U.S.N  
In charge of Party

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			S'ag	Tide					
May 15	Gedney	A	1	/	65.00	1459	51	Lt. F. H. Crosby	Lt. F. H. Crosby Ensn 30 <sup>th</sup> Strauss Pay Vee W. S. Crosby
" 16	"	B	1-2	/	60.40	1963	121	"	"
" 21	"	C	2-3	/	66.50	1784	84	"	"
" 22	"	D	3	/	64.70	1932	123	"	"
" 23	"	E	4	/	66.10	1811	66	"	"
" 24	"	F	5	/	59.70	1973	61	"	"
May 15	St. Cutter	a	1	/	19.00	925	70	Ensn R. O. Butler	Ensign R. O. Butler " D. S. Nes
" 16	"	b	1	/	16.00	845	74	"	"
" 21	"	c	1-2	/	41.20	1977	173	"	"
" 22	"	d	2-3	/	49.20	2231	138	"	"
" 23	"	e	3-4	/	41.50	2091	154	"	"
" 24	"	f	4	/	4.50	240	14	"	"
			9	1	553.8	19231	1129	□ Miles 305!	

1888

41.

# Coast of Louisiana

Sheet B - scale  $\frac{1}{80000}$  No. 1831.

Began

Ended

□ miles =	miles =	Soundings =	Angles =	Tide gauges =	Sigs built =
305!	253,8	19,231	1129	1	10.

Lieut. F. M. Crosby  
 Ensign R. O. Butler  
 " Jos. Strauss  
 " D. S. Nes  
 Pay Yeo W. S. Crosby

Observers

E. Meyer (M. A. A.)  
 F. Christiansen (Q. M.)  
 C. Mattson (Sea)  
 Wm. Dahlgrin (" )

Worksmen

W. B. Griffith (Sea)  
 A. S. Stebbins (" )

Recorders

A. E. Bjorkman (Sea)  
 Geo. Carlander (" )

Tide Observers

Wm. B. Griffith (Sea)

Copist

Plotted by

9 Sounding Books  
 1 Angle "  
 1 Tide "

originals

4 Fair Journals  
 1 Angle Books  
 1 Tide "

Copies

Gedney  
1888

Sheet B No. 1831.

Scale 42.  
80000

Coast of Louisiana

Began May 11-1888

Ended May 24-1888

Lieut F. M. Crosby U.S.N.

In charge of Party

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			Sdg	Tide					
May 15	"Gedney"	A	1	/	65.0	1459	51	Lieut F. M. Crosby	Lieut F. M. Crosby Ensign Jos. Straws Payson W. S. Crosby
16	"	B	1-2	/	60.4	1963	121	"	"
21	"	C	2-3	/	66.5	1784	84	"	"
22	"	D	3	/	64.7	1932	123	"	"
23	"	E	4	/	66.1	1811	66	"	"
24	"	F	5	/	59.7	1973	61	"	"
May 15	"St. Catherine"	a	1	/	19.0	925	70	Ensign R. O. Bidler	Ensign R. O. Bidler " D. S. Nes
16	"	b	1	/	16.0	845	74	"	"
21	"	c	1-2	/	41.2	1977	173	"	"
22	"	d	2-3	/	49.2	2231	138	"	"
23	"	e	3-4	/	41.5	2091	154	"	"
24	"	f	4	/	4.5	240	14	"	"
			9	/	553.8	19231	1129	□ Miles 205	

1888

43.

# Coast of Louisiana

Sheet B No. 1831. scale  $\frac{1}{80000}$

Total	no	of	Miles	553.80
"	"	"	Soundings	19231
"	"	"	Angles	1129
"	"	"	□ Miles	303
"	"	"	Signals built	8
"	"	"	" Located	9
"	"	"	Tide gauges erected	1
"	"	"	Bottom Specimens	25
"	"	"	Days hydrography done	6
"	"	"	" bad weather &c	8
"	"	"	Building signals	3
"	"	"	work done by "Gedney"	6
"	"	"	" " " " " St. Cutler	6
"	"	"	" " " " " Whaleboat	0
"	"	"	Miles done by "Gedney"	382.4
"	"	"	" " " " " St. Cutler	171.4
"	"	"	" " " " " Whaleboat	--

Began May 11<sup>th</sup> 1888

Ended May 24<sup>th</sup> 1888

9 Sounding Books  
 1 Angle "  
 1 Tide "  
 } originals

4 Fair Journals  
 1 Angle Books  
 1 Tide "  
 } copies



