

See Lt. Sturtevant's Report on Nos. 1776 & 1777.

U. S. COAST AND GEODETIC SURVEY.

*F. M. Thorn*, Superintendent.

State: *Louisiana.*

DESCRIPTIVE REPORT.

*Hydrographic Sheets Nos. 1819,  
1820, 1821, 1822.*

LOCALITY:

*Vermilion Bay.*

1888.

CHIEF OF PARTY:

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

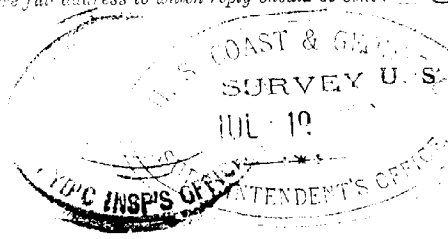
Assistant in Charge

Note as to names p 2

John - account

Give here full address to which reply should be sent:

Cassport Maine



Steamer Fedney

July 10<sup>th</sup>, 1888Report A. Kermillion Bay La.

Mr L. M. Sharn

Superintendent of Survey  
Washington D. C.

Sir

I have the honor to submit the following report A of the last seasons work in Kermillion Bay La. The greatest depth of water in the channel through South West Pass is about 150 feet and the least  $7\frac{1}{2}$  feet on the outside bar, and about the same in the best channel from the pass into the bay. The vessels using these waters draw about four feet, some steamers having a draught of six feet. Strangers drawing more than four feet need pilots. The channels are practically permanent. These waters are used by light-draught trading schooners and steamers, but it was impossible to get reliable information as to the number entering annually. There is good holding

2 201,

Give here full address to which reply should be sent:

U. S. Coast and Geodetic Survey,

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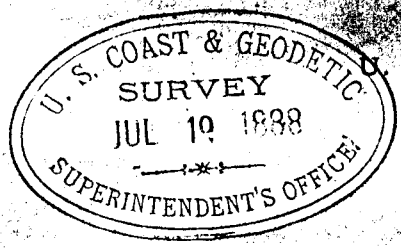
ground almost everywhere. The only dangers are the shell reefs which form the banks of the channel. The tidal currents follow the channel through the grass, but on the outside coast and in the bay are governed largely by the wind and are irregular. The bottom is invariably soft mud, except where shell reefs have been found, and on the outside bar where there is a mixture of sand.

Local names are on the sheets as far as obtained. On sheet No 1. the name Kicks House (+ Island) should be Keeks the name of the family owning the plantation or "Island". On sheet No 2 at signal "C Coot" is a bare shell reef for which no one could give me a name. In landing there one day with a whale boat, I caught one hundred and fifteen terrapins and would suggest the name of Terrapin Reef.

Very Respectfully  
J. A. Howsby,  
Lieut. U.S.N. Asst. C. & S.

Give here full address to which reply should be sent

Eastport Maine



S. Coast and Geodetic Survey,

Steamer Gedney

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

Report B. Kermilion Bay La

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

Sir

Kermilion Bay is situated in a flat, marshy uninteresting and almost uninhabited country, back of which to the northward are a few elevated tracts of land called islands, from the fact that they rise out of the marsh in a most unaccountable manner. The bay serves the purposes of commerce and is used chiefly in the transportation of lumber and cattle, the former by light draught schooners and the latter by steamers. Three or four steamers and a small number of schooners are regularly in this carrying trade. There are no prominent features of the coast which would aid strangers. At the eastern point of the entrance to the pass is the wreck

Give here full address to which reply should be sent:

U. S. Coast and Geodetic Survey,

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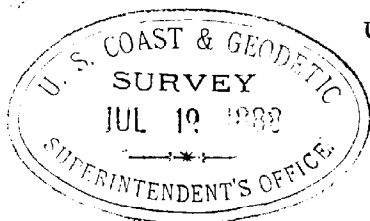
of an old lighthouse, lying in the water and showing white at a distance of three or four miles. A lighthouse or a tower at this point would very materially assist strangers in finding the entrance to the pass. The only Post Office on the sheets is Avery, on Avery's Island, about six miles up Petite Anse Bayon from the bay.

There is a railroad from Avery connecting at New Iberia with the main lines. There are no settlements on the shores of the bay and none of importance near it. At Avery are extensive salt mines, but the salt is shipped by rail. For prevailing winds, fog to see report "B" off shore work.

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 Gedney

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

Mr J M Tharn

Superintendent C of Survey  
Washington D. C.

Sir

I have the honor to submit the following report of work performed by the party under my charge on the Coast of Louisiana during the last season. The work included the hydrography of Vermilion Bay Louisiana, and the continuation of the hydrographic survey of the coast out to the ten fathom curve from the limits of the work under Lieut Stearn in 1887 to the eastward. Field work was commenced Feb'y 1<sup>st</sup> 1888 and closed under your instructions dated April 27<sup>th</sup> on May 20<sup>th</sup> 1888. The survey of Vermilion Bay was completed and the outside "off shore" hydrography completed as far east as longitude 91° 40' West.

I enclose with this report tables showing in detail all the work done.

Very Respectfully,  
 J. H. Combs  
 Lieut. U. S. Coast & G. S.

1888

— Season — 205  
Begun February 1<sup>st</sup> 1888  
Ended May 24<sup>th</sup> 1888

Recapitulation

Total no of miles		2512.60	
" " " Soundings		108266	
" " " Angles		9353	
" " " □ miles		959.	
" " " Signals built		67	
" " " " Located		73	
" " " Tide gauges erected		6	
" " " Bottom specimens		59	
" " " Days hydrography done		61	
" " " " Bad weather &c		37	
" " " " Building signals		16	
" " " " Work done by "Gedney"		30	
" " " " " " " " St. Cutter		34	
" " " " " " " " Whaleboats		21	
" " " Miles done by "Gedney"		1386.10	
" " " " " " " " St. Cutter		853.35	
" " " " " " " " Whaleboat		273.15	
" " " " " " " "			
" " " Days on station		114	
" " " Sundays		16	
55 Sounding Books	} originals	27 Fair Journals	} copies
6 Angle "		6 Angle Books	
6 Tide "		6 Tide Books	



# Recapitulation

Continued =

Total No of Soundings	"	"	"	"Gedney"	42375
"	"	"	"	Shm Cutter	43891
"	"	"	"	Whaleboats	22000
"	"	Angles.	"	"Gedney"	3084
"	"	"	"	Shm Cutter	4127
"	"	"	"	Whaleboat	2142

Officers	5
Recorder	1
Petty Officers	8
2 <sup>d</sup> C. Firemen	3
Rated Men	2
Enlisted "	16

## "Gedney"

Date	No Stations on which Angles observed	No of Angles observed	No of Tide gauges erected	No of	
				Working Days	Sundays
Feb'y	47	217	4	25	4
March	19	48	1	27	4
April	40	284	0	25	5
May	26	234	1	21	3
	132	783	6	98	16

Date	No Days. work done by					No of by each boat		
	Gedney	St Cutter	1 <sup>st</sup> Whaleboat	2 <sup>d</sup> Whaleboat		Miles	Soundings	Angles
Feb'y	3	8	9	-	"Gedney"	1386.10	42375	3084
March	7	7	7	2	St Cutter	853.35	43891	4127
April	9	10	3	-	1 <sup>st</sup> Whaleboat	251.15	20429	1992
May	11	9	-	-	2 <sup>d</sup> Whaleboat	22.00	1571	150
	30	34	19	2		2512.60	108266	9353

"Gedney"

Date	No of days on which Hy- drography done	No days prevented by bad weather	No of days building signals	No of signals built
February	16	9	7	26
March	14	8	1	10
April	17	5	5	23
May	14	4	3	8
	61	26	16	67

Date	No of Miles	No of Soundings	No of Angles	No of signals located
February	398.00	25624	2634	41
March	431.30	21547	2271	-
April	747.60	28418	2364	23
May	935.70	32677	2084	9
	2512.60	108266	9353	73

## Sailing Directions for Entering Vermilion Bay Louisiana

Seven and a-half feet can be carried over the bar at low water. Vessels wishing to enter Vermilion Bay by South West Pass, should make sure of making their land fall to the eastward of the Black Buoy No. 1 on Tiger Shoal.

On the central part of Marsh Island are quite extensive clumps of large live oak trees, and the black buoy No. 1. will be found about South from the western portion of these trees.

Coming from the eastward lay a course for Red Buoy No. 2. off Shell Keys, and if you sight it, run west (nine miles) to the black buoy No. 1.

If, as is probable, you are set to the westward, too far to sight the Shell Keys buoy, you will see the trees on Marsh Island and work to the westward with the lead until the Tiger Shoal buoy is found.

Passing to the Eastward of Tiger Shoal buoy, (No. 1. black) note the set of the current and steer so as to make North North West (magnetic) until the eastern point of the entrance to the Pass, (which is at present marked by the

wreck of the old lighthouse lying in the water and showing white.) bears North East by North, (magnetic) then head for it and keep it on that bearing until the middle of the mouth of the Pass bears North North East; (magnetic) then change course to North North East (magnetic).

The channel through the Pass is very deep and crooked. It is marked by a few stakes set by private enterprise, the rule being that when a Coaster gets out of the channel, and goes aground, he sets a warning stake for future use.

There are no permanent marks or ranges, and no sailing directions can be written that would be of much use.

The Chart and good judgment will be the safest guides.

Gedney  
1888

Sheet # 1

Scale 211  
20000

Vermilion Bay La

Begin Feby 29 1888

Lieut F. H. Crosby U.S.N

Ended April 3 1888

In charge of Party.

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in Charge	Observers
			Sdg	Tide					
Feby 29	Gedney	A	1	1	8.5	329	48	Lieut F. H. Crosby	Ensn Jos. Strauss Pay. Geo. W. S. Crosby
Mch 1	Stutter	a	1	1	2.7	166	0	Ensn R. O. Bitter	Ensn R. O. Bitter " D. S. Mes
" 6	"	b	1	1	7.0	386	39	"	"
" 29	"	c	1	1	22.5	1331	152	"	"
Apr 3	"	d	2	1	12.5	629	84	"	"
Mch 7	W. Boat	a	1	1	9.5	962	9	Ensn Jos. Strauss	Ensn Jos. Strauss Pay. Geo. W. S. Crosby
" 8	"	b	1	1	15.5	1053	104	"	"
" 12	"	c	1	1	7.5	621	58	"	"
" 29	"	d	2	1	14.2	1053	131	Lt F. H. Crosby	Lt F. H. Crosby Ensn Jos. Strauss
Apr 3	"	e	2	1	10.75	745	88	Ensn Jos. Strauss	Ensn Jos. Strauss " D. S. Mes
Mch 12	W. Boat	a	1	1	11.0	779	77	" R. O. Bitter	" R. O. Bitter " D. S. Mes
" 13	"	b	1	1	11.0	792	73	"	"
			5	1	132.65	8846	863	□ miles 24	

1888  
Vermilion Bay  
Louisiana  
Sheet # 1

Scale 20000

Began Feb'y 29. 1888  
Ended April 3. 1888

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

Observers

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

Leadsmen

J. Eckmann (Sea)  
A. E. Bjorkman (")  
J. Wesselson (")

Tide Observers

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

Recorders

Wm. B. Griffith (Sea)

Captain

Plotted by

Ensigns R. O. Bitter & J. Strauss

miles - Sdgs - Angles - Tide gauges - Sigs built - miles  
132.67. 8846. 863. 1 5 24

4 Sdg Books  
/ Angle "  
/ Tide "

3 Fair Journals  
/ Angle Books  
/ Tide "

Gedney  
1888

Sheet # 1

Scale 2/3  
20000

# Vermilion Bay - La

Began Feby 29-1888

Lieut F. H. Crosby U.S.N.

Ended April 3-1888

In charge of Party.

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in Charge	Observers
			Sdg	Tide					
Feb 29	Gedney	A	1	1	8.5	329	48	Lt F. H. Crosby	Ensign Jos Strauss } Pay Yeat W. S. Crosby }
Mar 1	St. Cutter	a	1	1	2.7	166	0	Ensign R. O. Butler	Ensign R. O. Butler } " D. S. Nes }
" 6	"	b	1	1	7.0	386	39	"	"
" 29	"	c	1	1	22.5	1331	152	"	"
April 3	"	d	2	1	12.5	629	84	"	"
Mar 7	1 <sup>st</sup> W. Boat	a	1	1	9.5	962	9	Ensign Jos Strauss	Ensign Jos Strauss } Pay Yeat W. S. Crosby }
" 8	"	b	1	1	15.5	1053	104	"	"
" 12	"	c	1	1	7.5	621	58	"	"
" 29	"	d	2	1	14.2	1053	131	Lt F. H. Crosby	Lt F. H. Crosby } Ensn Jos Strauss }
April 3	"	e	2	1	10.75	745	88	Ensign Jos Strauss	" " " } " D. S. Nes }
Mar 12	2 <sup>d</sup> W. Boat	a	1	1	11.0	779	77	" R. O. Butler	" R. O. Butler } " D. S. Nes }
" 13	"	b	1	1	11.0	792	73	" "	"
			5	1	132.65	8846	863	□ Miles 24	



Gedney  
1888

Sheet # 2

Scale 2 1/4  
20000

Vermilion Bay - Ia

Began Feby 28 - 1888

Ended April 4 - 1888

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

Date 1888	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			S'dy	Tide					
Feby 28	Gedney	A	/	/	29.5	1047	139	Lt F. H. Crosby	Lieut F. H. Crosby Ensn. R. O. Bitter " Jos. Strauss " D. S. Nes Pay Yes W. S. Crosby
" 29	"	B	/	/	21.0	889	98	"	"
Mar 1	"	C	1-2	/	29.0	983	117	"	"
" 2	"	D	2	/	22.0	764	96	"	"
" 6	"	E	2	/	36.5	1308	169	"	"
" 7	"	F	3	/	45.5	1668	220	"	"
" 30	"	G	3	/	20.75	886	142	"	"
Feby 29	Stutter	a	/	/	22.0	1134	165	Ensn R. O. Bitter	Ensn R. O. Bitter " D. S. Nes
Mar 1	"	b	2	/	8.3	485	61	"	"
" 2	"	c	2-3	/	34.0	1836	191	"	"
" 30	"	d	2	/	19.0	908	139	"	"
Apr 4	"	e	3	/	13.7	695	87	"	"
Mar 2	Mr Boat	a	/	/	8.5	636	60	Ensn. Jos Strauss	Ensn Jos Strauss Pay Yes W. S. Crosby
" 13	"	b	2	/	8.7	600	51	"	"
" 31	"	c	1	/	16.5	1206	141	"	"
			8	/	334.95	15045	1876		□ Miles 71

1888

215

# Vermilion Bay, Louisiana

Sheet # 2. scale  $\frac{1}{20000}$

Began Feby 28. 1888

Ended April 4. 1888

□ miles	=	miles	=	Soundings	=	Angles	=	Tide gauges	=	signs built
71	=	334.95	=	15045.	=	1876	=	1	=	7

Lieut F. H. Crosby  
 Ensign R. O. Bitter  
 " J. Strauss  
 " D. S. Nes  
 Pay Vee W. S. Crosby

} Observers

E. Meyer (m at A)  
 F. Christiansen (Am)  
 C. Mattson (Sea)  
 Wm Dahlgren (" )

} Soundingmen

Wm B Griffith (Sea)  
 A. S. Stephens ( )

} Recorders

J. Eckmann (Sea)  
 A. E. Bjorkman (")  
 R. Wesselson (")

} Tide Observers

Wm B Griffith (Sea) } Copyist

Plotted by  
 Lieut F. H. Crosby, Ensign R. O. Bitter  
 and J. S. Strauss

8 Sounding Books  
 1 Angle "  
 1 Tide "

} originals

4 Fair Journals  
 1 Angle Books  
 1 Tide "

} Copies

Gedney  
1888

Sheet # 2

Scale 2/6,  
20000

Vermilion Bay - La

Begun. Feby 28-1888

Ended. April 4-1888

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

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			Sdg	Tide					
Feby 28	Gedney	A	1	1	29.5	1047	139	Lt. F. H. Crosby	Lt. F. H. Crosby Ensn R. O. Bidler
" 29	"	B	1	1	21.0	889	98	"	" Jos Strauss D. S. Nes Pay Vee W. S. Crosby
1 <sup>st</sup> Mch	"	C	1-2	1	29.0	983	117	"	"
" 2	"	D	2	1	22.0	764	96	"	"
" 6	"	E	2	1	36.5	1308	169	"	"
" 7	"	F	3	1	45.5	1668	220	"	"
" 30	"	G	3	1	20.75	886	142	"	"
Feby 29	Stutter	a	1	1	22.0	1134	165	Ensn R. O. Bidler	Ensn R. O. Bidler " D. S. Nes
Mch 1	"	b	2	1	8.3	485	61	"	"
" 2	"	c	2-3	1	34.0	1836	191	"	"
" 30	"	d	2	1	19.0	908	139	"	"
April 4	"	e	3	1	13.7	695	87	"	"
Mch 2	W Boat	a	1	1	8.5	636	60	Ensn Jos Strauss	Ensn Jos Strauss Pay Vee W. S. Crosby
" 13	"	b	2	1	8.7	600	51	"	"
" 31	"	c	1	1	16.5	1206	141	"	"
			8	1	334.95	15045	1876	□ miles 71	

"Gedney"  
1888

Sheet #3

Scale 217.  
20000

Vermilion Bay, La.

Begun Feby 1<sup>st</sup> 1888

Ended April 17, 1888

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

Date 1888	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			S'dg	Tide					
Febry 4	Whalboat	a	1	1	15.0	1768	156	Ensn Jos Strauss	Ensn Jos Strauss Pay Yeo W. S Crosby }
" 6	"	b	2	1	15.0	1687	146	" "	" "
" "	St-Cutter	a	1	1	26.0	1975	142	R O. Bidler	Ensn R. O. Bidler " D. S. Nes }
" 7	"	b	2	1	32.0	2400	173	" "	" "
" "	W'boat	c	1-3	1	18.0	1968	176	Jos Strauss	Ensn Jos Strauss Pay Yeo W. S. Crosby }
" 9	St-Cutter	c	1	1	1.0	46	6	R. O. Bidler	Ensn R. O. Bidler " D. S. Nes }
" 11	"	d	3	1	16.0	755	127	" "	" "
" "	W'boat	d	3	1	8.5	853	92	Jos Strauss	Ensn Jos Strauss Pay Yeo W. S. Crosby }
" 15	"	e	4	1	12.5	975	108	" "	" "
" 18	Gedney	A	1	0	3.5	193	29	Lt F. H. Crosby	Ensn Jos Strauss " D. S. Nes }
" 25	St-Cutter	e	3-4	1	33.0	2334	220	Ensn R. O. Bidler	Ensn R. O. Bidler " D. S. Nes }
" "	W'boat	f	4	1	19.5	882	159	Jos Strauss	" Jos Strauss Pay Yeo W. S. Crosby }
			9	1	200.0	15836	1534	Carried over	

Sheet # 3  
Vermilion Bay - La  
(continued)

Date 1888	Boat	Letter	Book		Miles	Soundings	Angles	Officer in Charge	Observers
			Sdg	Tide					
April 4	Shutter	f	9	/	200.0	15836	1534		Ensn R. O. Bidler } " D. S. Nes }
" 16	"	g	4	/	4.0	243	62	Ensn R. O. Bidler	" " }
" 17	"	h	4	/	29.0	1495	200	"	" " }
" 16	Wboat	g	5	/	9.1	461	80	"	" " }
" "	Gedney	B	5	/	18.0	1373	143	Ensn Jos Strauss	Ensn Jos Strauss } Pay Geo W. S. Crosby }
" "	"	"	/	/	2.5	68	29	Lt F. H. Crosby	Lt F. H. Crosby } Ensn R. O. Bidler }
			//	/	262.6	19476	2048	□ Miles 45	

1888

219

Vermilion Bay - Louisiana

Sheet # 3 - scale 20000

Began Feby 1st 1888.

Ended April 17 - 1888

□ Miles - Miles - Soundings - Angles - Tide gauges - sigs built  
262.60 19476 2048 2 7

Lieut F. H. Crosby }  
Ensign R. O. Bitter } Observers  
" Jo: Strauss }  
" D. S. Nes }  
Pay Yeo W. S. Crosby }

E. Meyer (M at A) }  
J. S Taylor (M) } Boatsmen  
F Christiansen ( " ) }  
C. Mattson (Sea) }  
Wm Dahlgrin ( " ) }

Wm B Griffith (sea) }  
A. S Stebbins ( " ) } Recorders

Lt F. H. Crosby }  
Ensn R. O. Bitter } plotted by  
" J. Strauss }

Wm B. Griffith sea }  
copyist

// Sounding Books }  
1 Angle " } originals  
(2) 2 Tide " }

4 Fair Journals }  
1 Angle Books } copies  
2 Tide " }

J. Eckmann (sea) }  
C. Mattson ( " ) } Tide Observers

"  
Gedney"  
1888

Sheet # 3

Scale 220  
1  
20000

Vermilion Bay - La

Begun Feby 1<sup>st</sup> 1888

Ended April 17. 1888

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

Date 1888	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			Sdg	Tide					
Febry 4	Wboat	a	1	1	15.0	1768	156	Ensn Jos Strauss	Ensn Jos Strauss Pay Vee W.S. Crosby }
6	"	b	2	1	15.0	1687	146	" "	
"	St Cutter	a	1	1	26.0	1975	142	" R.O. Bitler	Ensn R.O. Bitler " D.S. Nes }
7	"	b	2	1	32.0	2400	173	" "	"
"	Wboat	c	1-3	1	18.0	1968	176	" Jos Strauss	Ensn Jos Strauss Pay Vee W.S. Crosby }
9	St Cutter	c	1	1	1.0	46	6	" R.O. Bitler	Ensn R.O. Bitler " D.S. Nes }
11	"	d	3	1	16.0	755	127	" "	"
"	Wboat	d	3	1	8.5	853	92	" Jos Strauss	Ensn Jos Strauss Pay Vee W.S. Crosby }
15	"	e	4	1	12.5	975	108	" "	"
18	Gedney	A	1	0	3.5	193	29	Lt F.H. Crosby	Ensn Jos Strauss " D.S. Nes }
25	St Cutter	e	3-4	1	33.0	2334	220	Ensn R.O. Bitler	" R.O. Bitler " D.S. Nes }
"	Wboat	f	4	1	19.5	882	159	" Jos Strauss	" Jos Strauss Pay Vee W.S. Crosby }
			9	1	200.0	15836	1534	Carried over	

Sheet # 3  
Vermilion Bay - La  
 (continued)

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in charge	Observers
			Sdg	Tide					
April 15	H Stutter	F	9	/	200.0	15836	1534		
" 16	"	F	4	/	4.0	243	62	Ensn R.O. Bitter	Ensn. R.O. Bitter } " D.S. Nes }
" 17	"	F	4	/	29.0	1495	200	"	"
" 17	"	F	5	/	9.1	461	80	"	"
" 16	Mboat	G	5	/	18.0	1373	143	Ensn Jos Strauss	Ensn Jos Strauss } Pay W.S. Crosby }
" "	Gedney	B	/	/	2.5	68	29	Lt F.H. Crosby	Lt F.H. Crosby } Ensn R.O. Bitter }
			11	/	262.6	19476	2048		□ Miles 45'



"Gedney"  
1888

Sheet # 4

Scale 222,  
20000

Vermilion Bay - La

Begun Feby 13. 1888

Ended March 31. 1888

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

Date	Boat	Letter	Books		Miles	Soundings	Angles	Officer in charge	Observers
			S'dg	Tide					
Feby 13	M <sup>o</sup> boat	A	/	/	6.5	459	50	Ensn Joo Strauss	Ensn Joo Strauss Pay Vco W.S. Crosby }
" 14	"	B	2	/	16.5	1246	121	"	"
" 17	"	C	/	/	18.0	1299	117	"	"
" 14	Sh Cutter	A	/	/	28.0	1409	176	Ensn R.O. Bidler	Ensn R.O. Bidler " D.S. Mes }
" 17	"	B	2	/	23.0	1160	168	"	"
March 30	"	C	/	/	6.65	305	38	"	"
" 31	"	d	2	/	19.0	905	125	"	"
			4	/	117.65	6783	795	□ miles 21.	

1888

223

Vermilion Bay - Louisiana

Sheet #4. scale  $\frac{1}{20000}$

Began Feby 13. 1888.

Ended March 31- 1888

□ miles = miles = Soundings  
21 = 117.65. 6783

Angles. Tide gauges - Sig's built  
795 1 6

Ensign R.O. Butler } Observers  
" Jos. Strauss }  
" D.S. Nes }  
Pay Vee W.S. Crosby }

F. Christiansen (Am) } Seadsmen  
C. Mallson (sea) }  
Wm. Dahlgrin (" ) }

Wm. B. Griffith (sea) } Recorders  
A.S. Stebbins (" ) }

A. E. Bjorkman (sea) } Tide Observers  
J. Eckmann (" ) }

Wm. B. Griffith (sea) } Copyist

Ensign R.O. Butler } Plotted by  
" J. Strauss }

4 Sounding Books } Originals  
/ Angle " }  
/ Tide " }

2 Fair Journals } Copies  
/ Angle Books }  
/ Tide " }

Jedney  
1888

Sheet # 4

Scale 224.  
20000

Vermilion Bay, La

Begun Feby 13-1888

Ended March 31-1888

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

Date	Boat	Letter	Book		Miles	Soundings	Angles	Officer in Charge	Observers	
			Sdg	Tide						
Feby 13	Wboat	a	1	1	6.5	459	50	Ensn Jos Strauss	Ensn Jos Strauss } Pay W.S. Crosby }	
14	"	b	2	1	16.5	1246	121	"		"
17	"	c	1	1	18.0	1299	117	"		"
14	Skinner	a	1	1	28.0	1409	176	Ensn R.O. Bidler	Ensn R.O. Bidler } " D.S. Mes }	
17	"	b	2	1	23.0	1160	168	"		"
March 30	"	c	1	1	6.65	305	38	"		"
" 31	"	d	2	1	19.0	905	125	"	"	
			4	1	117.65	6783	795	□ miles 21.		



