

6787

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic
Field No. 2002 Office No. H-6787

LOCALITY

State FLORIDA
General locality GULF OF MEXICO
Locality CAPE ST. GEORGE to INDIAN PASS

194 2/3

CHIEF OF PARTY

John H. Brittain & Charles A. Schanck

LIBRARY & ARCHIVES

DATE

6787
2829

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H-6787

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO. H-6787

Field No. 2002

State FLORIDA

General locality GULF OF MEXICO

Locality CAPE ST. GEORGE to INDIAN PASS

Scale 1:20,000 Date of survey Oct. 1942 - Feb. 1943

Instructions dated July 30, 1942

Vessel LYDONIA & SEA DREAM

Chief of party John H. Brittain and Charles A. Schanck

LYDONIA
Surveyed by Ship's Officers

Soundings taken by fathometer, graphic recorder, ~~hand lead, etc.~~

Protracted by K. T. Meech

Soundings penciled by K. T. Meech

Soundings in ~~fathoms~~ feet at MLW MLW

REMARKS: This sheet was processed at the Norfolk Processing Office.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. A and B

REGISTER NO.

State.....Florida.....

General locality Gulf Coast.....

Locality Cape San Blas and St. Vincent Island.....

Scale.....1:20,000..... Date of survey Sept. and Oct......, 1942.

Vessel.....Shore Party.....

Chief of party Charles A. Schanck.....

Surveyed by.....Charles A. Schanck.....

Inked by Charles A. Schanck and Eugene L. Maxwell.....

Heights in feet above.....-.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....-.....feet

Instructions dated.....July 30....., 1942.

Remarks:.....

.....

DESCRIPTIVE REPORT

TO ACCOMPANY

SHEET NO. H-6787

Since no descriptive report was written by the field party, this report is written in lieu of same.

INSTRUCTIONS:

This survey was executed under authority of the Director's Instructions for Project CS-291, dated July 30, 1942.

LOCALITY:

This is an inshore survey in the Gulf of Mexico, off the coast of Florida, between Indian Pass and Cape St. George.

CONTROL AND SIGNALS:

Triangulation previously established furnished the primary control, while the topographic signals were determined by graphic control.

SURVEY METHODS:

The usual method of three-point fixes were used throughout this survey. The soundings were obtained by means of the fathometer. 808 Recorder.

CROSSINGS:

The crossings are in good agreement. The maximum discrepancy in general was two feet.

DISCREPANCIES:

No apparent serious discrepancies were noted.

CHANNELS:

No channels were developed on this survey.


DANGERS:

Except for the shoal area about 2 miles south of Cape St. George, there are no dangers to navigation.

JUNCTIONS WITH CONTEMPORARY SURVEYS:

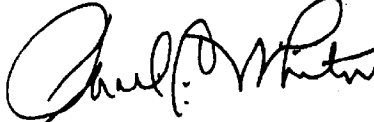
This survey joins H-6786⁽¹⁹⁴²⁾ on the west, H-6784⁽¹⁹⁴²⁻⁴³⁾ and H-6789⁽¹⁹⁴²⁻⁴³⁾ on the south and H-6788⁽¹⁹⁴²⁻⁴³⁾ on the east. Also H-6785 (1942-43) on the west.

Respectfully submitted,


Isadore M. Zeskind
Associate Cartographic Engineer

August 31, 1943 -
Norfolk Processing Office

Approved and forwarded.


Paul C. Whitney
Supervisor, S.E. District

STATISTICS

SHEET H-6787

Day Letter	Date	Statute Miles	Positions
a	Oct. 29, 1942	30.8	148
b	" 30, "	29.6	121
c	Nov. 2, "	22.7	75
d	" 3, "	11.0	36
e	" 4, "	38.5	136
f	" 5, "	11.4	36
g	" 6, "	10.7	35
h	" 9, "	10.0	36
i	" 10, "	10.3	33
j	" 12, "	4.7	15
k	" 13, "	10.35	42
l	" 16, "	5.0	18
m	" 17, "	18.6	64
n	" 18, "	8.7	30
o	" 20, "	9.8	34
p	" 24, "	5.2	17
q	" 25, "	8.6	30
r	" 26, "	8.6	31
s	" 30, "	10.7	51
t	Dec. 1, "	1.9	6
u	" 2, "	11.0	38
v	" 3, "	3.6	13
w	" 8, "	24.7	124
x	" 9, "	37.9	198
y	" 10, "	33.3	153
z	" 15, "	8.1	40
a'	" 19, "	19.0	92
b'	" 22, "	4.67	29
c'	" 23, "	28.2	99
a (green)	Jan. 29, 1943	39.7	147
b (green)	Feb. 8, "	9.4	39
c (green)	" 9, "	8.2	48
Total		494.92	2014

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6787**

Records accompanying survey:

Boat sheets ¹...; sounding vols. ⁸...; wire drag vols. ⁰...;
 bomb vols. ⁰.....; graphic recorder rolls ...¹⁵;
 special reports, etc. *none*.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		<i>2014</i>	
Number of positions checked		<i>62</i>	
Number of positions revised		<i>13</i>	
Number of soundings recorded		<i>13000</i> 16000 (<i>Est.</i>)	
Number of soundings revised (refers to depth only)		<i>18</i>	
Number of soundings erroneously spaced		<i>36</i>	
Number of signals erroneously plotted or transferred			
Topographic details	Time	<i>4</i>	
Junctions	Time	<i>8</i>	
Verification of soundings from graphic record	Time	<i>16</i>	
Verification by... <i>A. R. STIRNI</i>	Total time	<i>112</i>	Date <i>Feb. 25, 1944</i>
Review by... <i>J. A. Mc Cormick</i>	Time	<i>16</i>	Date <i>Feb. 26, 1944</i>

GEOGRAPHIC NAMES

Survey No. **H6787**

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
<u>Florida</u>											1
<u>Gulf of Mexico</u>											2
<u>Cape St. George</u>											3
<u>INDIAN PASS</u>											4
<u>WEST PASS</u>											5
<u>St. Vincent Island</u>											6
											7
											8
											9
											10
											11
											12
											13
											14
Names underlined in red approved by L. Heck on 11/1/24											15
											16
											17
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											19
											20
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											26
											27

H6787

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		295850
4		296852
5	Also location of tide staff	296850-51
6		" "
7		
8		
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27		

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT }
 PHOTOSTAT OF }

No. H
 No. T

H6787

{ received Sept. 18, 1943
 registered Sept. 18, 1943
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	R.W.Knox
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RWK

x 22
HLE

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 30, 1943

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 6787

Locality Gulf of Mexico, Cape St. George, Florida.

Chief of Party: Chas. A. Schanck
Plane of reference is mean low water reading
1.9 ft. on tide staff at West Pass
5.8 ft. below B. M. 3

Height of mean high water above plane of reference is 0.8 ft.

Condition of records satisfactory except as noted below:

C. K. Green

Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6787

Field No. 2002

Florida; Gulf of Mexico; Cape St. George to Indian Pass
Surveyed October 1942 - February 1943; Scale 1:20,000
Project C. S. 291

Soundings:

808 Recorder

Control:

Three-point fix on shore signals

Chief of Party - J. H. Brittain; C. A. Schanck
Surveyed by - LYDONIA Officers
Protracted by - K. T. Meech
Soundings plotted by - K. T. Meech
Verified and inked by - A. R. Stirni
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, February 26, 1944

1. Shoreline and Signals

Shoreline is mainly from topographic maps T-5506 and T-5508. Revisions in green and topographic signals were transferred from subsequently discarded graphic control surveys.

2. Sounding Line Crossings

Satisfactory.

3. Submarine Relief

South of Cape St. George the sand bottom is very irregular with several high spots covered only 5 to 7 feet. At West Pass the survey skirts the outer edge of the bar. Over the remainder of the area the bottom slopes uniformly and the 6-ft. curve is within 200 meters of the beach.

4. Adjoining Surveys

- a. Satisfactory junctions were effected with H-6788 (1942-43) on the east, H-6784 (1942-43) on the south and with H-6785 (1942-43) on the west. H-6788 (1942-43) on the southeast and

H-6786 (1942-43) on the northwest had not been verified at this writing.

- b. Project instructions specified that satisfactory junctions be made with H-5791 and H-5793 of 1935 at Indian Pass and West Pass. Differences of 2 to 3 feet in the overlaps preclude showing them on the smooth sheets in the usual manner but general indications are that the bars have not shifted enough to seriously affect the charts. Resurveys of the bars at both passes would have been desirable.

5. Previous Surveys

H- 654 (1858), 1:20,000; H-1241 (1874), 1:20,000;
H-1265b (1874), 1:40,000; H-2593 (1902), 1:20,000

The area has shoaled in some places and deepened in others. The changes are not so pronounced as in some similar areas but the bottom apparently does shift to some extent, particularly around the bars and on the shoals south of Cape St. George. The uniform slopes between West Pass and Indian Pass have shoaled as much as 6 feet since 1874. The old surveys have no further charting value and can be considered superseded.

6. Comparison with Chart 1262 (Print of Sept. 30, 1943)

Depths charted in this area are from surveys discussed in par. 4b and 5. Survey positions of navigational aids agree reasonably well with the positions charted.


7. Compliance with Project Instructions

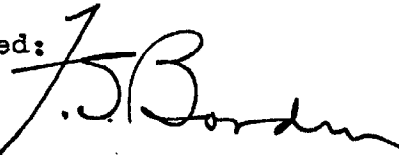
Satisfactory.

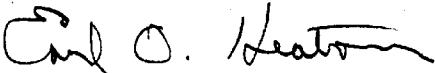
8. Additional Field Work Recommended


None.

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

note: Topography put on hydrographic sheet, sheet destroyed

INSTRUCTIONS.

The work covered by this report was executed in accordance with paragraph 6 of Instructions, Project CS-291, dated July 30, 1942, referenced 22/MEK 1998 LY 1.

PURPOSE AND SCOPE

The primary purpose of the surveys covered by this report was to determine the location of signals for control of hydrographic surveys in the surrounding water area. Inasmuch as good planimetric maps of this area were available when these surveys were made no effort was made to locate topographic detail except where obvious changes have occurred since the planimetric maps were made.

LIMITS

These surveys include the location of signals from latitude $29^{\circ} 43'$, longitude $85^{\circ} 25'$, southward and eastward along the outer shore of Cape San Blas to Indian Pass; from Indian Pass along the southwest shore of St. Vincent Island to West Pass; and from West Pass southeastward along the outer shore of St. George Island to Cape St. George, and then eastnortheast along the outer shore of the island to latitude $29^{\circ} 40' 15''$, longitude $84^{\circ} 40' 15''$.

CONTROL

These surveys were controlled by the triangulation executed in 1934 and 1935 for the surveys of Apalachicola Bay. Practically all of the triangulation stations established at that time were located on the inner side of the islands that separate the bay from the gulf. Because these islands are wooded it was necessary to clear vistas through the woods from the triangulation stations on the inner shore to the new hydrographic signals on the outer shore.

METHODS

The surveys were made by plane table traverse and wire; the plane table and alidade being used to establish the azimuth along the various traverse lines and a 100-meter wire, checked by stadia, being used to determine the distance. Instrument setups were so arranged that one rod or wire reading and two or more resection lines could be obtained on each signal. Subsequent hydrography disclosed only one signal erroneously located. Its position was then established by sextant cuts.

RESULTS

The surveys consisted of a series of traverses between triangulation stations. The longest traverse was from station PASS 2 on Indian Peninsula to station BEACH on the south shore of St Vincent Island. While this traverse exceeded the length limits specified in the topographic manual, it was in accordance with Director's letter dated August 29, 1942, referenced Z2MEK1990. Fortunately this traverse could be checked throughout the greater part of its distance by slim resections on triangulation stations CAMP PALMS, WEST TANK and WEST PASS CUT 2 BRACON. The closure on this traverse was excellent.

A tabulation of the various traverses with their lengths and closures follows. All closures were well within the limits for work on a scale of 1:20,000. All traverses were adjusted in accordance with standard practice.

Traverse Line	Length, Stat. Mi.	Closure, Meters
San Pedro 2 to Cape San Blas L. H.	3.8	12
Cape San Blas L. H. to Peninsula	4.8	0
Peninsula to Camp Palms, West Tank	2.0	3
Camp Palms, West Tank to Pass 2	1.8	5
Pass 2 to Beach	6.6	0
Beach to WEST PASS 2 (stations not required - no traverse run)		
West Pass 2 to Cape St. George L. H.	4.1	7
Cape St. George L. H. to Scaffold	2.9	3
Scaffold to Bary	1.7	0
Bary to Jo	1.7	2
Jo to Three	2.7	2
Three to One	4.6	5
One to Bulk	2.8	2
Bulk to Two	2.1	0
Totals	41.6	41

CHANGES IN SHORE LINE

Changes in the shore line subsequent to the photographs of 1934 were observed in the vicinity of Cape St. George, the northwest tip of St Vincent Island, and Cape San Blas. According to local fishermen frequent small changes in the shore line occur in the vicinity of Cape St. George and Indian Pass. The western shore of Cape San Blas is distinctly eroding, as proven by the numerous tree stumps now found outside the low water line.

ST. VINCENT ISLAND BRIDGE

During the course of the work it was noted that an unshated bridge from the main land to St. Vincent Island is now in existence. The northwest corner, the southwest corner, and the northwest corner of the draw span of this bridge were located by intersection. This bridge is privately owned by the St. Joe Lumber and Export Company and was erected to truck lumber from the island to mills on the main land. The northern part of the bridge is built over the marsh for a considerable distance. The bridge is single track throughout most of its length. Signal GUB (Survey, FIELD NO. B) is the western support of the draw span. The drawbridge is immediately south of this support, has a horizontal clearance of 24.6 feet when open and a vertical clearance of 8 feet when closed. The width of the bridge is 2.6 meters. A turnout 2.8 meters in width and 74 meters in length is located on the west side of the bridge, the southern end of the turnout being 111 meters north of the north side of the draw span.

RECOVERABLE STATIONS

The descriptions and positions of recoverable topographic stations will be submitted separate from this report.

GEOGRAPHIC NAMES

No investigation was made of the geographic names in the area covered by this report.

Respectfully submitted,

Charles A. Sobansk
H & G Engr., C & G Survey

applied to chart 1262 6/17/44
applied to IWW #866 Apr. 1946
applied to 866-sc 5-10-69 CW

JHE
CRH