

6784

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. 401 Office No. H-6784

LOCALITY

State FLORIDA

General locality GULF OF MEXICO

Locality CAPE ST. GEORGE

194 3

CHIEF OF PARTY

John H. Brittain

LIBRARY & ARCHIVES

DATE \_\_\_\_\_

6784

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H6784

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-6784

Field No. 401

State FLORIDA

General locality GULF OF MEXICO

Locality CAPE ST. GEORGE

Scale 1-40,000 Date of survey Dec. 1942 and Jan. 1943

Instructions dated July 30, 1942

Vessel LYDONIA

Chief of party John H. Brittain

Surveyed by ~~LYDONIA~~  
~~Ship's Officers~~ J. H. Brittain

Soundings taken by fathometer, ~~graphic recorder, band lead wire~~

Protracted by Louis J. Walter

Soundings penciled by Louis J. Walter

Soundings in ~~XXXXXX~~ feet at MLW ~~XXXXXX~~

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

## DESCRIPTIVE REPORT

TO ACCOMPANY

SHEET NO. H - 6784

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 in the vicinity of Cape St. George, Florida.

The approximate area covered by this survey is as follows:

Latitude  $29^{\circ} 22'$  to  $29^{\circ} 39'$   
Longitude  $84^{\circ} 50'$  to  $85^{\circ} 14'$

CONTROL AND SIGNALS:

Triangulation previously established furnished the primary control. The topographic signals were determined by graphic control, while the location of the off-shore survey buoys were gotten by sun-azimuth and taut-wire.

SURVEY METHODS:

The usual method of three-point fixes was used throughout this survey. The soundings were obtained by the Dorsey Fathometer.

SMOOTH PLOTTING:

The shoreline shown on this sheet <sup>in green</sup> was transferred from graphic control surveys.

The crossings, in general, are in <sup>fair</sup> excellent agreement, the discrepancies being between one and two feet.

DISCREPANCIES:

Except for the following no apparent serious discrepancies appear on this survey:

Latitude  $29^{\circ} 28.3$  and Longitude  $85^{\circ} 04.7$ ; 13-14 G (red). The 32 foot sounding which is surrounded by deeper soundings (51-52 feet) is not confirmed on adjacent lines.

DANGERS:

On the shoal in the vicinity of Latitude  $29^{\circ} 26.9$  and Longitude  $85^{\circ} 02.6$ , a least depth of 19 feet was found.

On a shoal in the vicinity of Latitude  $29^{\circ} 24.35$  and Longitude  $85^{\circ} 02.4$ , a least depth of 31 feet was found.

CHANNELS:

No channels were developed on this survey.

JUNCTIONS WITH CONTEMPORARY SURVEYS:

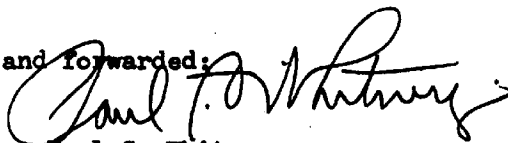
Junctions are made with sheets H-6787 and H-6788 <sup>(1942-43)</sup> on the north and H-6785 <sup>(1941-42)</sup> on the west. Sheet H-6789 <sup>(1941-42)</sup> falls on the southern portion of this survey.  
central

Respectfully submitted,

  
Isadore M. Zeskind  
Assoc. Cartographic Eng'r.

July 24, 1943.  
Norfolk Processing Office

Approved and Forwarded:

  
Paul C. Whitney  
Supervisor, Southeastern District.

STATISTICS

Day	DATE	No. of Positions	Statute miles
A	Dec. 1, 1942	6	10.1
B	2	131	84.0
C	3	187	107.6
D	4	116	70.3
E	8	83	50.2
F	9	134	69.7
G	14	29	10.6
H	15	189	105.5
J	16	21	7.7
K	17	236	102.7
L	18	204	114.1
M	19	192	113.3
N	20	126	66.0
P	21	2	
Q	22	46	23.8
R	28	29	15.3
S	30	201	109.5
T	31	187	106.9
U	Jan. 1, 1943	182	98.2
V	2	192	93.4
W	3	99	58.0
X	4	199	107.4
Y	5	150	60.7
Z	6	108	50.8
AA	12	170	81.6
BB	14	151	64.0
CC	15	117	57.3
DD	16	26	12.4
EE	26	44	15.4
FF	28	12	5.2
GG	29	194	93.5
HH	Feb. 2, 1943	80	40.0
	Total	3,843	2,005.2

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6784**

Records accompanying survey:

Boat sheets **.1.**; sounding vols. **.11.**; wire drag vols. **.0.**....;  
 bomb vols. **.0.**....; graphic recorder rolls **.0.**....;  
 special reports, etc. **None**.....  
 .....

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

Number of positions on sheet	<b>.3843</b>
Number of positions checked	<b>...51.</b>
Number of positions revised	<b>....7</b>
Number of soundings recorded	<b>21230</b>
Number of soundings revised (refers to depth only)	<b>...47</b>
Number of soundings erroneously spaced	<b>....23</b>
Number of signals erroneously plotted or transferred	<b>....0</b>
Topographic details	Time <b>...1.</b>
Junctions	Time <b>..16.</b>
Verification of soundings from graphic record	Time <b>.....</b>

Verification by **J.A. McCormick**..Total time **139 hrs** Date **2/28/44.**

Review by **J.A. McCormick**..... Time **..12 hrs.** Date **2/29/44.**

H6784

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		295850
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9	Location of tide staff	
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GEOGRAPHIC NAMES

Survey No. **HE 784**

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
<u>Florida</u>									1
<u>Gulf of Mexico</u>									2
<u>Cape St. George</u>									3
									4
									5
									6
									7
									8
<u>West Pass</u>									9
									10
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									27

Names underlined in red approved  
by L. HECK on 2/29/44



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

} No. H **H6784**  
No. T

{ received July 29, 1943  
registered July 29, 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	Pg 1	not	FBI 7/29
88			
90			

RETURN TO

82	R.W.Knox
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LCC  
HRE

TIDE NOTE FOR HYDROGRAPHIC SHEET

July 31, 1943.

~~Division of Hydrography and Topography:~~

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

Plane of reference approved in  
11 volumes of sounding records for

HYDROGRAPHIC SHEET 6784

Locality Cape St. George, Gulf of Mexico, Florida

Chief of Party: J. H. Brittain in 1942 - 1943

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:

*H. A. Warner*  
Acting Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6784

Field No. 401

Florida; Gulf of Mexico; Cape St. George  
SURVEYED December 1942 - January 1943; Scale 1:40,000  
Project C. S. 291

Soundings:

Dorsey Fathometer

Control:

Three-point fix on shore signals  
Three-point fix on buoy signals

Chief of Party - J. H. Brittain  
Surveyed by - J. H. Brittain  
Protracted by - L. J. Walter  
Soundings plotted by - L. J. Walter  
Verified and inked by - J. A. McCormick  
Reviewed by - J. A. McCormick  
Inspected by - H. R. Edmonston, February 29, 1944

1. Shoreline and Signals

Shoreline is from topographic maps T-5506, T-5508 and T-5514. Revisions in green and topographic signals are from graphic control surveys which were discarded after pertinent data were transferred to the smooth sheet. Buoy signals were located by taut wire, sun azimuth traverse.

2. Sounding Line Crossings

In several instances, differences of one and two feet in crossing and adjacent lines are responsible for marked irregularities in the depth curves.

3. Submarine Features

Outstanding feature of the area is the series of shoals due south of Cape St. George. As the old surveys did not extend south of Lat.  $29^{\circ}28'$ , several of the shoaler spots had not previously been charted. The present survey was made because of the grounding of three vessels within a period of two weeks, in May 1942, in the general vicinity of Lat.  $29^{\circ}26'$ , Long.  $85^{\circ}00'$  to  $85^{\circ}02'$ .

4. Adjoining Surveys

Satisfactory junctions were effected with H-6788 (1942-43) on the northeast, H-6787 (1942-43) on the northwest and with H-6785 (1942-43) on the west. It is noted, however, that Dorsey Fathometer soundings of the present survey averaged about one foot deeper than the 808 Recorder soundings of the inshore surveys. A considerable number of soundings along the limits of the present survey were arbitrarily rejected in order to obtain satisfactory curves in the overlaps. H-6789 (1942-43), covering the major portion of Cape St. George Shoals, had not been verified at this writing.

5. Previous Surveys

H- 654 (1858), 1:20,000; H-1184 (1873), 1:40,000;  
H-1265b (1874), 1:40,000; H-1511a (1882), 1:40,000;  
H-2593 (1902), 1:20,000

General trends of the depth curves on old and new surveys are quite similar. High spots on the shoals shift about but differences are not so pronounced as was expected. Towards the outer limits of the old surveys, general differences are unmistakably due to weak control. The old surveys can be completely superseded in the common area.

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

Depths now charted in this area are from the boat sheet of the present survey. Average variation from the final smooth sheet depths is one to two feet. "St. George 28" Whistle Buoy, (Lat. 29°24', Long. 85°02') was moved about 0.3 mile east subsequent to its location by the survey party (H.O. N.to M. 9 of 1943).

7. General Comment

Three widely separated soundings on the survey appear to be approximately 20 feet in error but as the field party made no recommendations concerning them they are being retained. The questioned soundings are 40 feet with surrounding depths of 60 feet in Lat. 29°30.1', Long. 85°13.1'; 32 feet in 52 feet in Lat. 29°28.3', Long. 85°04.7'; and 29 feet in 50 to 54 feet in Lat. 29°26.4', Long. 85°00.2'. Each is a single shoal sounding unconfirmed by crossing or adjacent lines. *See Review, par. 5b. H-7723 (1948-50)*

Descriptive reports for all of the surveys in this series were written in the Processing Office without actual field notes.

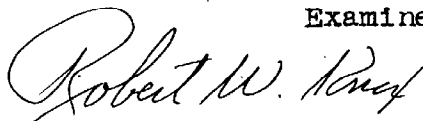
8. Compliance with Project Instructions

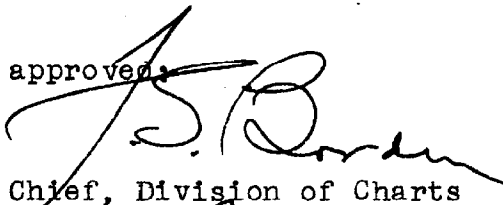
Satisfactory.

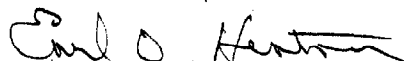
9. Additional Field Work Recommended

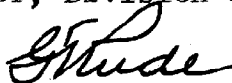
None. Soundings mentioned in par. 7 can be investigated when the area is next surveyed.

Examined and approved:

  
Chief, Surveys Branch

  
Chief, Division of Charts

  
Chief, Section of Hydrography



Chief, Division of Coastal Surveys

applied to ch. 1262 6/22/44 GTE

applied in part to IWW #866 - apr 1946 CRH.

applied to boat 865 4/24/46 wats.

Appld. ChF 865 SC 8-12-68 J.L.

applied to 866-SC CW 5-10-69