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Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic  
Field No. 2004 Office No. H-6789

LOCALITY

State FLORIDA  
General locality GULF OF MEXICO  
Locality OFF CAPE ST. GEORGE

1942-43

CHIEF OF PARTY

John H. Brittain

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. H-6789

HYDROGRAPHIC TITLE SHEET

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-6789

Field No. 2004

State FLORIDA

General locality GULF OF MEXICO

Locality OFF CAPE ST. GEORGE

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

Instructions dated July 30, 1942

Vessel LYDONIA

Chief of party John H. Brittain

Surveyed by ~~Ship's officers~~ <sup>LYDONIA</sup> J. H. Brittain ; D. E. Sturmer

Soundings taken by fathometer, graphic recorder, ~~hand lead, voice~~

Protracted by M. Byrd

Soundings penciled by M. Byrd

Soundings in ~~sections~~ feet at MLW ~~mark~~

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

DESCRIPTIVE REPORT

to accompany

SHEET NO. H-6789

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 offshore survey in the Gulf of Mexico off Cape St. George, Florida. The approximate limits of this survey are from latitude  $29^{\circ}26'$  to  $29^{\circ}33'$  and from longitude  $85^{\circ}00'$  to  $85^{\circ}05'$ . ✓ ✓

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 tautwire. ✓ ✓

SURVEY METHODS:

The usual method of three-point fixes were used throughout this survey. The soundings were obtained by the Dorsey and #808 fathometers. ✓ ✓

SMOOTH PLOTTING:

The shoreline shown on this sheet was transferred from graphic control sheets and air-photo compilations. ✓ ✓

CROSSINGS:

The crossings, in general, appear to be in good agreement. The maximum discrepancy in crossings was about 3 feet. ✓ ✓

DANGERS:

Except for shoals which are indicated by depth curves, no dangers to navigation appear on this survey. ✓ ✓


CHANNELS:

No channels were developed on this survey. ✓ ✓

JUNCTIONS WITH CONTEMPORARY SURVEYS:

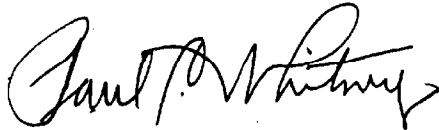
Junctions are made with sheets Nos. H-6787 and 6788 on the  
north, and H\*6784 on the east, west and south. ✓  
(1942-43) (1942-43)  
(1942-43)

Respectfully submitted,

  
Isadore M. Zeskind  
Associate Cartographic Engineer

Norfolk, Va..  
September 16, 1943

Approved and forwarded



Paul C. Whitney  
Supervisor, S.E. District

STATISTICS FOR SHEET H-6789

<u>Day</u>	<u>Date</u>	<u>No. of Positions</u>	<u>Statute Miles</u>
✓A (Red)	Jan. 3, 1943	94	39.8
✓B	Jan. 5, 1943	14	4.9
✓C	Jan. 16, 1943	12	3.0
✓D	Jan. 26, 1943	53	10.8
✓E	Feb. 8, 1943	174	32.0
✓F	Feb. 9, 1943	55	2.5
✓a (Blue)	Dec. 15, 1942	108	30.9
✓b	Dec. 18, 1942	137	38.6
✓c	Dec. 19, 1942	81	24.2
✓d	Dec. 20, 1942	108	30.3
✓e	Dec. 31, 1942	119	35.5
✓f	Jan. 1, 1943	150	44.9
✓g	Jan. 2, 1943	133	38.0
✓h	Jan. 12, 1943	147	39.3
✓j	Jan. 14, 1943	139	33.8
✓k	Jan. 29, 1943	150	41.5
✓l	Feb. 8, 1943	136	17.9
✓m	Feb. 9, 1943	<u>91</u>	<u>11.6</u>
	Total	1901	479.5

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H. 6789**

Records accompanying survey:

Boat sheets ..1.; sounding vols. .8..; wire drag vols. 0...;  
 bomb vols. ...0...; graphic recorder rolls 4.12...;  
 special reports, etc. none... Computations of Hydro. Signals.  
 on this sheet are filed with H-6785 (1942-43).....

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

Number of positions on sheet	.1991
Number of positions checked	.147
Number of positions revised	..37
Number of soundings recorded	15,138
Number of soundings revised (refers to depth only)	384
Number of soundings erroneously spaced	.38.
Number of signals erroneously plotted or transferred	..0..
Topographic details	Time ..3. hrs
Junctions	Time ..42. "
Verification of soundings from graphic record	Time ..12. "

Verification by R. D. Goodrich.. Total time 282. " Date Mar. 23, 1944

Review by ..... J. A. M<sup>c</sup> Cormick..... Time 10 hr. Date Mar. 24, 1944

H6789

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		295850
4		
5		
6		
7		
8		
9	Location of tide staff.	
10		
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27		

GEOGRAPHIC NAMES  
 Survey No. **H6789**

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
									11
									12
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									25
									26
									27

Names underlined in red approved  
 by L. Heck on 4/12/44



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

No. H **H6789**

No. T

received Sept. 18, 1843  
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*

cae  
HRC

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  
128 volumes of sounding records for

HYDROGRAPHIC SHEET 6789

Locality Gulf of Mexico, Cape St. George, Florida

Chief of Party: J. H. Brittain in 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:

*C. K. Green*  
Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6789

Field No. 2004

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

Soundings:

808 Recorder  
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; D. E. Sturmer  
Protracted by - M. Byrd  
Soundings plotted by - M. Byrd  
Verified and inked by - R. D. Goodrich  
Reviewed by - J. A. McCormick  
Inspected by - H. R. Edmonston, March 24, 1944

1. Shoreline and Signals

Shoreline in black is from topographic map T-5508. Revisions in green and topographic signals were transferred from graphic control surveys which were then discarded. Buoy signals were located by taut wire, sun azimuth traverse.

2. Sounding Line Crossings

Satisfactory.

3. Submarine Features

The survey covers most of the irregular area off Cape St. George. No one feature can be selected as outstanding.

4. Adjoining Surveys

Satisfactory junctions were effected with H-6787 and H-6788 of 1942-43 on the north and with H-6784 (1942-43) on the east, west and south. In the review of H-6784, a 29-ft. Dorsey sounding, in Lat. 29°26.4', Long. 85°00.3', on that survey was held to be questionable

because adjacent and crossing lines showed depths at least 20 feet greater. Depths on the present survey support that contention but the sounding is so close to similar shoal depths that the possibility of it being in error is not important.

5. Previous Surveys

H- 654 (1858), 1:20,000; H-1184 (1873), 1:40,000;  
H-1265b (1874), 1:40,000

Agreement between old and new surveys is erratic. In some places detached shoals check almost exactly both as to position and depth; in others, differences amount to 8 or 10 feet. The area is not one in which shoals rise so abruptly that the line spacing of the present survey would be likely to miss indicating them if they still existed, nor do the old surveys show abrupt pinnacles. Some of the differences can be ascribed to the use of dead reckoning at the outer limits of the old surveys. Others must result from the changes to be expected in an irregular bottom of this type. The old surveys can be entirely superseded in the subject area.

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


With but two exceptions, depths now charted in the subject area are from the boat sheets of the present survey. Differences between boat and smooth sheet depths seldom exceed two feet but in a few cases rescanning and development have resulted in revisions of as much as 17 feet. The two depths from other sources are a 19-foot depth from H-1265b (par. 5) in Lat. 29°29.5', Long. 85°03.2' and an untraceable 18-foot depth in Lat. 29°28.7', Long. 85°02.5'. The latter appeared on the first edition of obsolete chart 183 in 1882. With no exceptions, the chart should be recompiled from the reviewed survey. ||


7. Compliance with Project Instructions

Satisfactory.

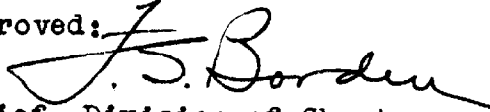
8. Additional Field Work Recommended

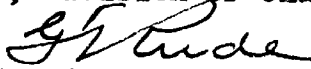
None.

  
Chief, Surveys Branch

  
Chief, Section of Hydrography

Examined and approved:

  
Chief, Division of Charts

  
Chief, Division of  
Coastal Surveys

applied to chart 1262 6/22/44 GHE.