

6785

6785

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. 402 Office No. H-6785

LOCALITY

State Florida

General locality Gulf of Mexico

Locality South of Cape San Blas

194 2/3

CHIEF OF PARTY

John H. Brittain

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H-6785

H-6785

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

Field No. 402

REGISTER NO. H-6785

State FLORIDA

General locality GULF OF MEXICO

Locality SOUTH OF CAPE SAN BLAS

Scale 1:40,000 Date of survey Dec. 1942 - March, 1943

Vessel LYDONIA

Chief of Party John H. Brittain

Surveyed by J. H. Brittain
Ship's Officers

Protracted by L. L. Lawrence

Soundings penciled by L. L. Lawrence

Soundings in ~~fathoms~~ feet

Plane of reference MLW

Subdivision of wire dragged areas by

Inked by Leroy King Feb 29, 1944

Verified by

Instructions dated July 30, 1942

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

DESCRIPTIVE REPORT

H6785

to accompany

SHEET NO. H-6785

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 south, east and west of Cape San Blas, Florida. ✓

CONTROL & SIGNALS:

Triangulation previously established furnished the primary control. The location of the topographic signals was determined by graphic control. All survey buoys, except as noted below, were plotted from the geographic positions furnished by the field party. The following survey buoys were plotted from information taken from the sounding records,- RUN, SEE, PIP, QUO, TOM, VAL, COX, and BUT. ✓

Survey Buoy ODE, - Although cuts (positions 4, 9, 10 & 25 JJ) are given in the soundings records for the determination of the location of this buoy, it was not plotted on this sheet due to a large triangle of error, and also because the signal was not used to determine any positions during this survey. ✓

SURVEY METHODS:

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

CROSSINGS:

Considering the irregular bottom in the area covered by this survey, the crossings appear to be in good agreement. ✓

DANGERS:

A considerable number of shoal spots occur in the area south and east of Cape San Blas, and a vessel of deep draft should give this locality wide berth. ✓

CHANNELS:

No channels were developed on this survey. ✓

STATISTICS FOR H-6785

H6785

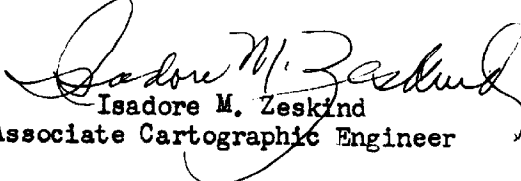
| Day | Date | No. Positions | Stat. Miles |
|-----|---------------|---------------|-------------|
| B | Dec. 29, 1942 | 2 | 2.8 |
| C | Jan. 11, 1943 | 137 | 58.6 |
| D | Jan. 15, 1943 | 71 | 40.7 |
| E | Jan. 16, 1943 | 4 | 3.9 |
| F | Jan. 18, 1943 | 24 | 13.1 |
| G | Jan. 20, 1943 | 167 | 84.5 |
| H | Jan. 25, 1943 | 140 | 54.2 |
| J | Jan. 26, 1943 | 45 | 24.3 |
| K | Jan. 27, 1943 | 10 | 3.9 |
| L | Jan. 28, 1943 | 172 | 88.1 |
| M | Jan. 29, 1943 | 14 | 7.8 |
| N | Feb. 1, 1943 | 56 | 27.6 |
| P | Feb. 2, 1943 | 146 | 70.4 |
| Q | Feb. 3, 1943 | 108 | 59.5 |
| R | Feb. 4, 1943 | 214 | 120.8 |
| S | Feb. 5, 1943 | 49 | 25.0 |
| T | Feb. 6, 1943 | 176 | 100.3 |
| U | Feb. 7, 1943 | 255 | 116.6 |
| V | Feb. 9, 1943 | 15 | 7.6 |
| W | Feb. 10, 1943 | 9 | 15.0 |
| X | Feb. 15, 1943 | 64 | 29.9 |
| Y | Feb. 16, 1943 | 142 | 71.1 |
| Z | Feb. 17, 1943 | 189 | 102.8 |
| AA | Feb. 18, 1943 | 186 | 83.1 |
| BB | Feb. 19, 1943 | 59 | 31.0 |
| CC | Feb. 22, 1943 | 126 | 56.7 |
| DD | Feb. 23, 1943 | 212 | 90.7 |
| EE | Feb. 24, 1943 | 184 | 82.1 |
| FF | Feb. 25, 1943 | 203 | 103.2 |
| GG | Mar. 1, 1943 | 118 | 47.8 |
| HH | Mar. 2, 1943 | 61 | 26.2 |
| JJ | Mar. 4, 1943 | 242 | 115.2 |
| KK | Mar. 5, 1943 | 191 | 57.7 |
| LL | Mar. 7, 1943 | 79 | 37.6 |
| MM | Mar. 8, 1943 | 145 | 57.3 |
| NN | Mar. 9, 1943 | 7 | |
| | Total | 4022 | 1917.1 |

H6785

JUNCTIONS WITH CONTEMPORARY SURVEYS:

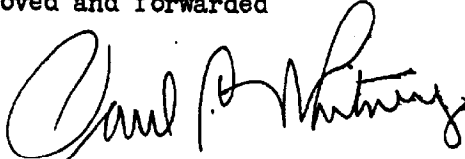
This survey joins H-6786⁽¹⁹⁴²⁻⁴³⁾ on the north and H-6787⁽¹⁹⁴²⁻⁴³⁾ and H-6784⁽¹⁹⁴²⁻⁴³⁾ on the east. ✓

Respectfully submitted,


Isadore M. Zeskind
Associate Cartographic Engineer

October 25, 1943
Norfolk, Virginia

Approved and forwarded


Paul C. Whitney
Supervisor, S. E. District

Surveys Section (Chart Division)

H6785

HYDROGRAPHIC SURVEY NO.

Records accompanying survey:

Boat sheets ...².; sounding vols. 12...; wire drag vols. .0...;
 bomb vols. ⁰.....; graphic recorder rolls ³.....;
 special reports, etc. 5. Cahiers.....

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

| | |
|---|---------------|
| Number of positions on sheet | 4022 |
| Number of positions checked | ...37.. |
| Number of positions revised | ..0.. |
| Number of soundings recorded | 2095.7 |
| Number of soundings revised (refers to depth only) | ..22.. |
| Number of soundings erroneously spaced | ..9.. |
| Number of signals erroneously plotted or transferred | ..0.. |
| Topographic details | Time |
| Junctions | Time ..8. hrs |
| Verification of soundings from graphic record | Time |

Verification by *Leroy King*..... Total time 217 hrs. Date *Feb. 29, 44*

Review by J. A. M^c Cormick..... Time 14 hrs. Date March 4, 1944.

H6785

| | Remarks | Decisions |
|----|-------------------------|-----------|
| 1 | | |
| 2 | | |
| 3 | | 296853 |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | Location of tide staff. | 296850 |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
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| 27 | | |

GEOGRAPHIC NAMES

Survey No. **H6785**

| Name on Survey | Source | | | | | | | | | | No. |
|---------------------------|--------|---|---|---|---|---|---|---|---|--|-----|
| | A | B | C | D | E | F | G | H | K | | |
| <u>Florida</u> | | | | | | | | | | | 1 |
| <u>Gulf of Mexico</u> | | | | | | | | | | | 2 |
| <u>Cape San Blas</u> | | | | | | | | | | | 3 |
| | | | | | | | | | | | 4 |
| | | | | | | | | | | | 5 |
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| | | | | | | | | | | | 11 |
| <u>Sand I., West Pass</u> | | | | | | | | | | | 12 |
| | | | | | | | | | | | 13 |
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| | | | | | | | | | | | 26 |
| | | | | | | | | | | | 27 |

Names underlined in red approved
by L. Heck on 3/8/44

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

} No. H
No. T

H6785

{ received October 29, 1943
registered
verified November 1, 1943
reviewed Feb 27, 1944
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 | | | |
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| | | | |

RETURN TO

| | |
|----|------------|
| 82 | R. W. Knox |
|----|------------|

✓ RWK

TIDE NOTE FOR HYDROGRAPHIC SHEET

November 8, 1943.

Division of Hydrography and Topography:

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

Plane of reference approved in
12 volumes of sounding records for


HYDROGRAPHIC SHEET 6785

Locality Cape San Blas, Gulf of Mexico, Florida

Chief of Party: J. H. Brittain in 1942-43
Plane of reference is mean low water reading
1.9 ft. on tide staff at Sand Island, West Pass
5.8 ft. below B. M. 2

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

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6785

Field No. 402

Florida; Gulf of Mexico; South of Cape San Blas
Surveyed December 1942 - March 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. L. Lawrence
Soundings plotted by - L. L. Lawrence
Verified and inked by - L. King
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, March 4, 1944

1. Shoreline and Signals

Shoreline is from topographic maps T-5506 and T-5507. 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

Satisfactory.

3. Submarine Relief

South and southwest of Cape San Blas, the bottom, mostly sand, is irregular with abrupt changes in depth of as much as 4 fathoms in a single sounding interval. Southeast of the Cape there is considerable mud bottom and depths are more uniform.

4. Adjoining Surveys

Satisfactory junctions were effected with H-6787 and H-6784 of 1942-43 on the east. Verification

of H-6786 (1942-43) on the north had not been completed at this writing.

5. Previous Surveys

H-1265a&b (1874-75), 1:20,000 and 1:40,000;
H-1511a&b (1881-82), 1:40,000

Agreement between old and new surveys is surprisingly good in places. General outlines of the depth curves are quite similar and several of the shoal spots check within 1 or 2 feet in depth and 50 to 200 meters in position. The old surveys are not as well developed nor as well controlled as the new work. Changes are inevitable in such an area, but it is interesting to speculate on just how well the surveys might have agreed had conditions of control and equipment been equal. The old surveys have no further charting value and can be superseded.

6. Comparison with Chart 1114 (Print of Nov. 11, 1943)
Chart 1115 (Print of Dec. 2, 1943)
Chart 1262 (Print of Sept. 30, 1943)
Chart 1263 (Print of Oct. 25, 1943)

a. Hydrography

Charts 1114, 1115 and 1262 have been recompiled from boat sheets of the present survey. Chart 1263 still retains the depths from surveys discussed in the preceding paragraph. Average difference between boat and smooth sheet depths is 1 to 2 feet, but in several instances errors of 6 to 10 feet were made in inking the boat sheets. Investigation of these larger differences also revealed two or three cases where the boat sheets were more nearly correct than the smooth sheet because the depths on the latter resulted from erroneous reductions. All differences have been reconciled and the completed smooth sheet is to be considered basic for the area. Charts should be revised accordingly. //

b. Navigational Aids

On May 20, 1943 (subsequent to survey), Cape San Blas Buoy "30" was moved to its present charted position in Lat. 29°28.5', Long. 85°29.8' (H.O. N. to M. 22 of 1943). The charted position of the wreck buoy (Lat. 29°18', Long. 85°21') agrees with the survey.

7. Compliance with Project Instructions

Satisfactory.

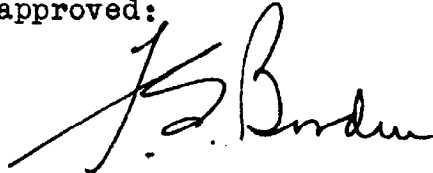
8. Additional Field Work Recommended

None.

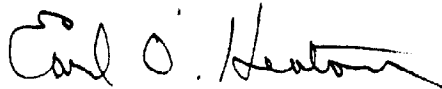
Examined and approved:



Chief, Surveys Branch



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of
Coastal Surveys

| | | |
|-------------------------|---------|------|
| applied to chart 1262 | 6/21/44 | GHE. |
| " " " 1263 | 6/27/44 | GHE |
| applied to chart 866-52 | 8-10-48 | GW |