

6691

6691

<p>Form 504</p> <p>U. S. COAST AND GEODETIC SURVEY</p> <p>DEPARTMENT OF COMMERCE</p> <p>DESCRIPTIVE REPORT</p>	
Type of Survey	Hydrographic
Field No.	8141
Office No.	H-6691
<p>LOCALITY</p>	
State	FLORIDA
General locality	GULF OF MEXICO
Locality	Southeast South and East of Pensacola, Fla.
<p>194 1</p>	
<p>CHIEF OF PARTY</p>	
<p>Wm. Scaife</p>	
<p>LIBRARY & ARCHIVES</p>	
DATE	APR 14 1943

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H-6691

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. 8141

REGISTER NO. H-6691

State FLORIDA

General locality GULF OF MEXICO

Locality Southeast
~~SOUTH AND EAST OF PENSACOLA, FLORIDA~~

Scale 1:80,000 Date of survey Aug. - Oct., 1941

Vessel HYDROGRAPHER

Chief of Party W. M. Scaife

Surveyed by Ship's Officers W. M. Scaife

Protracted by W. W. Feazel

Soundings penciled by W. W. Feazel & M. A. Axelton

Soundings in fathoms & feet and sixths

Plane of reference M.L.W.

Subdivision of wire dragged areas by _____

Inked by J. A. McCormick

Verified by do

Instructions dated June 24 and supplemental instructions dated Oct. 13, 1939.

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

DESCRIPTIVE REPORT

to accompany

SHEET NO. H-6691

INSTRUCTIONS:

This survey was executed under authority of the Director's Instructions for Project HT-236, dated June 24, 1939, and Supplemental Instructions, dated October 13, 1939. ✓

LOCALITY:

This sheet comprises an approximate area bounded on the north by Latitude $30^{\circ}03'$, on the south by Latitude $29^{\circ}22'$, on the west by Longitude $87^{\circ}27'$ and on the east by Longitude $85^{\circ}57'$. This is an offshore sheet, south and southeast of Pensacola, Florida. ✓

CONTROL & SIGNALS:

For a partial report on control and signals used on Project HT-236, of which this survey is a part, attention is directed to the Descriptive Report, "Taut Wire Sun Azimuth Traverses, Gulf of Mexico, Project HT-236, 1941, Ship HYDROGRAPHER, W. M. Scaife and C. K. Green, Commanding." ✓

The following named sono-buoys were computed at the Norfolk Processing Office from sun-azimuths and bomb returns furnished by the field party. ✓

TOM	YET
UNA	ZED
VAN	PAL

Sono-buoy VEX was determined by bomb returns from sono-buoys HOT, GAY, ULM and SAP. The position of this buoy as shown on the sheet was determined from the intersection of bomb returns from buoys HOT and SAP and the mean of bomb returns from buoy ULM. Returns from buoy GAY appeared too long and were rejected. ✓

Sono-buoy ZEP: The position of this buoy was determined by the intersection of bomb returns from buoys XIT and VEX. ✓

Sono-buoy HOT: The position of this buoy was determined by a three-point fix which is listed in Volume No. 1, Page No. 7, H-6691, together with the mean of 2 returns from sono-buoy GAY. ✓

SMOOTH PLOTTING:

The velocities of sound in water as determined by the field party were used throughout this sheet and were found, in general, to give good intersections. ✓

The depths were obtained by a fathometer. ✓

It is suggested that the soundings between 41 - 48 E' and 50 - 60 E' plotted on this sheet be transferred to Sheet H-6690. These soundings fall in the submarine canyon which is developed on the latter sheet.

All soundings of the present survey which fall in the area covered by H-6690 have been omitted.

DISCREPANCIES:

At Buoy VEX: 82-92 B. The soundings from 82 to 84 B were rejected by the field party. Soundings were plotted on the smooth sheet between 85 and 92 B, which were not rejected by the field party. However, it appears that the fathometer was not functioning properly as the recorded soundings are in the neighborhood of 102 to 103 fathoms, which are from 10 to 20 fathoms too shoal when compared with adjacent hydrography.

82-92 B rejected.

Submarine Canyon: The following apparent discrepancies in the neighborhood of the submarine canyon are called to the attention of the verifier. The sounding records show a number of "misses" on lines in the above-mentioned area. Survey H-6690 makes a junction with this survey (H-6691) in the vicinity of the submarine canyon, and it is recommended that where discrepancies in soundings occur between these two surveys, those shown on H-6690 be retained. Soundings on H-6690 were carefully read by two observers, a precaution which was not taken on H-6691, where the existence of the submarine canyon was first discovered.

See note at top of this page.

<u>Latitude</u>	<u>Longitude</u>	<u>Position</u>	<u>Discrepancies</u>
29° 26.5'	86° 53.8'	56 - 57 N; 7 - 8 P	298 faths. falls on 253 faths.
27.1	52.7	56 N; 27 - 28 P	278 256
24.2	51.0	30 P; 52 - 53 P	260 253
24.5	52.5	52-53 P; 28 - 29 P	262 252
25.8	56.3	86 - 87 N; 55 - 56 P	276 288
27.8	52.75	57 - 58 P; 26 - 27 P	281 257
24.9	52.5	28 - 29 P; 46 - 47 Q	251 263
26.25	54.1	9 R; 56 - 57 N	252 307
26.5	56.0	1 - 2 R; 26 - 27 D	350 288
21.2	52.25	27 - 28 P; 20 - 21 R	246 - 256 262
29.25	55.5	29 - 30 D; 84 - 85 N	231 225

All of these depths omitted.

At Buoy INK: Soundings on line 1 - 3 U appear to be 1 fathom too shoal. Lat. 29°47', Long. 86°04' 1-3 U retained. ✓

Latitude 29°^{57.0}52.0' and Longitude 86°^{58.2}57.56'; 8 - 9 W. 42 - 43 D. 85 Fathoms falls on 87 fathoms. Not unusual on this survey. ✓

Latitude 29°31.5' and Longitude 86°08.3'; 11 U to 6 minutes after 12 U. Approximate 3 fathom discrepancy exists along this line when compared with the adjacent hydrography. It is believed this discrepancy is due to improper reading of the fathometer. Observers were changed at 6 minutes after position 12 U, and a jump of 6 fathoms immediately occurs. (See page 68, volume 8, this sheet). Questioned soundings rejected. ✓

~~Latitude 29°57.5' and Longitude 86°57.3' 8 - 9 W.~~

~~This line is about 1 fathom too shoal when compared with the surrounding hydrography.~~

COMPARISON WITH PREVIOUS SURVEYS:

There were no copies of previous surveys available at this office, and, therefore, no comparisons were made. ✓

JUNCTIONS WITH CONTEMPORARY SURVEYS:

This survey makes junction on the north with sheets H-6687 and H-6689, ^{of 1941} on the west with H-6548, and on the south with H-6690 and H-6692 ^{of 1941.} 6656(1940)

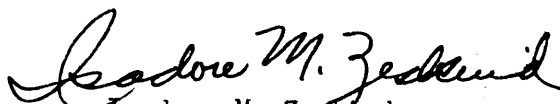
DANGERS:

No obstructions which would be dangerous to navigation were found in the area covered by this survey. ✓

CHANNELS:

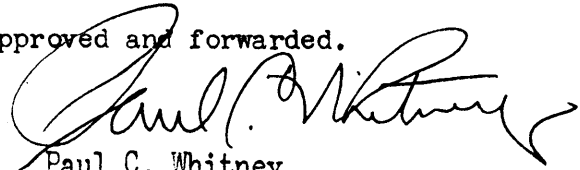
No channels were developed on this survey. ✓

Respectfully submitted,


Isadore M. Zeskind
Associate Cartographic Engineer

Norfolk, Va.
April 7, 1942.

Approved and forwarded.


Paul C. Whitney
Supervisor, S. E. District

STATISTICS FOR SHEET H-6691

H6691

Letter Day	Date 1941	Statute Miles	Positions
A	Aug. 5	34.3	19
B	Aug. 6	139.0	92
C	Aug. 7	132.1	68
D	Aug. 8	101.3	59
E	Aug. 9	142.9	68
F	Aug. 10	147.0	74
G	Aug. 11	148.0	61
H	Aug. 12	125.9	89
J	Aug. 13	165.7	69
K	Aug. 14	25.2	14
L	Aug. 19	72.3	42
M	Aug. 20	168.0	83
N	Aug. 21	137.1	89
P	Aug. 22	149.3	81
Q	Aug. 23	117.8	70
R	Aug. 24	84.2	63
S	Aug. 25	52.9	46
T	Aug. 26	133.8	94
U	Aug. 27	153.8	86
V	Aug. 28	70.2	42
W	Sept. 4	72.0	45
X	Sept. 5	150.1	82
Y	Sept. 6	174.9	89
Z	Sept. 7	22.3	17
A'	Sept. 8	77.2	55
B'	Sept. 9	143.2	105
C'	Sept. 10	93.0	66
D'	Oct. 9	60.0	37
E'	Oct. 10	104.7	63
F'	Oct. 11	105.2	65
G'	Oct. 12	84.0	45
H'	Oct. 13	114.8	70
J'	Oct. 21	43.7	40
L'	Nov. 10	42.6	43
Totals		3588.5	2131

LIST OF SIGNALS

H0691

<u>Sono</u>	<u>Survey</u>
GAS	ADD
GAY	BET
HOT	CAR
KIN	DEN
NED	EGG
OAK	ELI
PAL	FAR
QUD	FOX
RAN	GEM
SAP	HAM
TOM	HER
ULM	INK
UNA	JOY
VAN	KIM
VEX	LID
WAY	MUD
WIT	NAG
XIT	OXE
YAM	POP
YET	RAT
ZED	SUN
ZEP	TAN
	UPE
	VOL

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. 6691....

Records accompanying survey:

Boat sheets ..1.; sounding vols. ..14; wire drag vols. .0...;
 bomb vols. ^{Abstracts of} bomb topographic recorder rolls ..0...;
 special reports, etc. ..1 Loose Leaf Note Book, 1 Cahier.....

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

Number of positions on sheet	2131
Number of positions checked	37
Number of positions revised	0
Number of soundings recorded	35,921
Number of soundings revised (refers to depth only)	44
Number of soundings erroneously spaced	11
Number of signals erroneously plotted or transferred	0
Topographic details	Time ...0.
Junctions	Time ...16.
Verification of soundings from graphic record	Time

Verification by J.A. McCormick... Total time 184 hrs. Date 9/25/43

Review by J.A. McCormick..... Time 5 hrs. Date 9/27/43

Remarks

Decisions

	Remarks	Decisions
1	For title	
2	" "	
3	" "	
4		
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9	Location of tide staff	
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H6691

GEOGRAPHIC NAMES

Survey No. H6691

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<u>Florida</u>											1
<u>Gulf of Mexico</u>											2
<u>Pensacola</u>											3
											4
											5
											6
											7
											8
<u>Destin East Pass</u> (entrance Choctawhatchee Bay, chart 1264)											9
											10
											11
											12
											13
											14
											15
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											27

Names underlined in red approved
by LoHeck on 9/30/23

MEMORANDUM

IMMEDIATE ATTENTION

H6691

SURVEY
 DESCRIPTIVE REPORT } No. H 6691
 PHOTOSTAT OF } No. ↑ /

{ received April 14, 1943
 registered April 15, 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			
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30			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	R.W.Knox
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✓ Review

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6691

Field No. 8141

Florida; Gulf of Mexico; Southeast of Pensacola
Surveyed August - October 1941; Scale 1:80,000
Instructions dated June 24 and October 13, 1939
Project HT-236

Soundings:

Dorsey Fathometer

Control:

Three-point fix on buoy signals
R.A.R.

Chief of Party - W. M. Scaife
Surveyed by - W. M. Scaife
Protracted by - W. W. Feazel
Soundings plotted by - W. W. Feazel; M. A. Axelton
Verified and inked by - J. A. McCormick
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, September 27, 1943

1. Sounding Line Crossings

Several discrepancies at crossings resulted from erroneous reading of the Fathometer. For example, in Lat. $29^{\circ}43'$, Long. $86^{\circ}57'$ recorded depths vary only a few feet either side of 102 fathoms for a period of over an hour. Adjacent and crossing lines show a uniform slope of 101 to 130 fathoms. These and similar errors were quite easily detected and were eliminated by rejection of the erroneous soundings. In the depression making out from Lat. $29^{\circ}25'$, Long. $86^{\circ}55'$ many discrepancies resulted from rambling and weakly controlled lines. As this area was well surveyed on the larger scale H-6690 (1941), all soundings of the present survey falling within the limits of H-6690 have been omitted from the smooth sheet. In general, operation of the Dorsey Fathometer on the present survey was not any too satisfactory and a few discrepancies averaging one fathom in 20 remain on the completed smooth sheet.

2. Depth Curves

Satisfactory.

3. Adjoining Surveys

Satisfactory junctions were effected with H-6690 and H-6692 of 1941 on the southwest; H-6656 and H-6555 of 1940 on the west; and with H-6687 and H-6689 of 1941 on the north. Arbitrary methods of adjustment were resorted to in some places in order to obtain satisfactory agreement. The overlap with H-6690 was treated as outlined in Par. 1.

4. Previous Surveys

H- 483 (1854-55), 1:1,200,000; H-1354 (1875-76), 1:600,000; H-4133 (1920), 1:80,000; H-5113 (1931), 1:80,000

Track soundings of the earlier surveys give a fair general idea of the area but not having precision control naturally differ in varying amounts from those of the present survey. The later surveys overlap only a small part of the present survey (Lat. 30°00', Long. 87°00'). Agreement of the latter with the present survey is fair, differences not exceeding 3 or 4 fathoms in depths to 100 fathoms.

5. Comparison with Chart 1115 (Print of July 7, 1943)
Chart 1264 (" " Aug.20, 1943)

The few depths charted in this area are mostly from surveys discussed in the preceding paragraph. Several soundings from unidentified sources differ from the present survey in about the same degree as the previous surveys.

6. Compliance with Project Instructions

Satisfactory.


7. Additional Field Work Recommended


None.

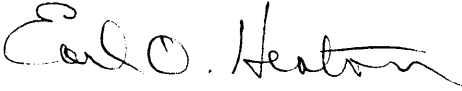
8. Superseded Surveys


H- 483 in part
H-1354 " "
H-4133 " "
H-5113 " "

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys

lcc
712

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 28, 1943

~~Division of Hydrography and Topography:~~

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

Tide Reducers are approved in
14 volumes of sounding records for

HYDROGRAPHIC SHEET 6691

Locality Southeast of Pensacola, Florida Coast.

Chief of Party: Wm. Scaife in 1941
Plane of reference is mean low water reading
3.4 ft. on tide staff at Destin, East Pass.
26.6 ft. below B.M. 1

Height of mean high water above plane of reference is 0.6 foot.

Condition of records satisfactory except as noted below:

Stamm
Chief, Division of Tides and Currents.

Applied to chart 1264 (after review.) May 11, 1944 P.A.M.
" " " 1115 (after review.) May 27, 1944 P.A.M.