10069

Diagram No. 1263-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic Field No. HSB-10-12-82 Office No. H-10069
LOCALITY
State Florida
General Locality Gulf of Mexico
Locality Bell Shoal
19 82
CHIEF OF PARTY LCDR R.W. Jones
LIBRARY & ARCHIVES
DATE September 3, 1986

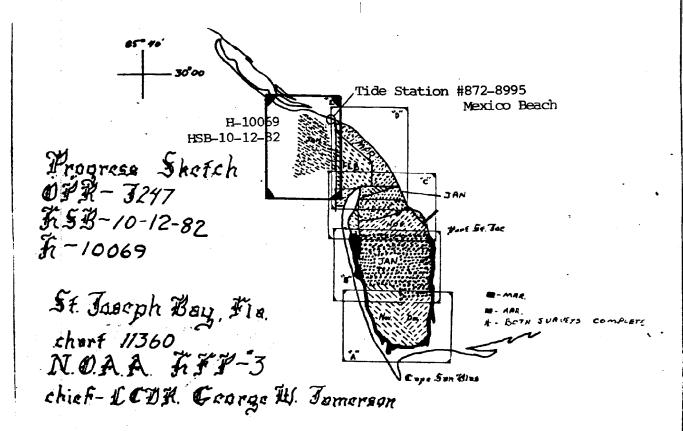
☆U.S. GOV. PRINTING OFFICE: 1980-766-230

NOAA FORM 77-28 U.S. DEPARTMENT OF COMMERCE (11-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTER NO.
HYDROGRAPHIC TITLE SHEET	H-10069
INSTRUCTIONS - 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. HSB-10-12-82
Scace Florida	
General locality St. Joseph Bay Gulf of Mexico	
Locality St. Andrews Point to St. Joseph Point B	ell Shool
Scale	vey Dec 7, 1982 - Apr 1, 1983
Instructions dated July 27, 1981 * Project No.	OPR-J247-HSB-81
Vessel NOAA Launches 1004 and 1283	
Chief of party Lt. Cdr. Ronald W. Jones	
Surveyed by It(jg) Frederick W. Rossmann	
Soundings taken by echo sounder, hand lead, pole All	B. P.
Graphic record scaled by R. Snow, D. Elliott, M. McMann, C.	<i>0</i> , ''
Graphic record checked by F. Rossmann, R. Snow	Field Chair PROC
Protracted by Automat	Field Sheet PDP8/e ted plot by AMC Xynetics 1200
Verification by AMC Hydrographic Surveys Branch	
Soundings in Michible feet at Michib MLLW	
REMARKS: *Change No. 1, October 1, 1981	
Change No. 2, August 23, 1982	
- Notes in the Descriptive Report wa	we made in Fed during
office processing.	4
STANDARDS CK'D 9-9-86 C.lox	
Cily	
AWOIS/ SURF MBM 11/14/	186

₩ U.S. CPO: 1974-0-768-081/1207

INDEX

Hydrographic Title Sheet
Roatchast lavout
A Project
R Area Surveyed
Counting Voccol
Sounding Four Sounding Four ment and Corrections to Echo Soundings 3->
F Hydrographic Sheets
F Control Stations
G Hydrographic Position Control
W Shoreline
I (masslines
A Junctions
Comparison with Prior Surveys
Companison with Chart
M Adequacy of Survey
N Aids to Navigation
O Statistics
D Miscellaneous
O Recommendations
D Automated Data Processing
S Deference to Reports
& Duniant Darameters
kristi Tijo om Waton Lovol Notos
Abbatuact of Connections to Echo Sounding/IC-11
waketuret of Connections to Flectronic Position Control 31-24
a a a a a a litera d'Orimani (404)
*Abstract of Positions
List of Stations (Signal List)
Landmarks for Charts (NOAA Form 76-40)
≠ Geographic Names
Landmarks for Charts (NUAA FORM 70-40)
Coast Pilot Report
Coast Pilot Report
* Removed From original Descriptive Report and Filed with
original survey records.



									•	1	
		4		· /						-	.29*3
•		La	rge?	20 1	982				82	198	3
month	Nov.	Dec.	Ton.	Feb.	Mar.	Ayr.	GM24	1.	Wec		
sq nout mi.	41	2.3	3.0	8.5	5.4	4.5	6.5		ø	8.0	
neut mi. andg.				141.0	147.8	103.2	72.5		ø	141.4	
dist to-from				120.0	192	176	60.0		18	72	
misc. disf.	220	40.0	380	59.0	78.5	108.5	29.0		44.9	36	
bim. sample	0_	39	4	0	0	71	12		49	ø	
fide goge	L.o	-	-	-	-	r č	_		Ø	ø	
entr. stu.	0.0	0.0	0.0	0,0	0.0	0,0	0.0		0.0	0.0	
cross line	0.0	0.0	6.5	0.0	22.6	0.0	21.0		Ø	ø	
							——————————————————————————————————————	- 1			

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-10069 HSB-10-12-82

Scale: 1:10,000

Chief of Party: Lt. Cdr. Ronald W. Jones

Officer-in-Charge: Lt(jg) Frederick W. Rossmann

Hydrographic Field Parties Section, HFP-3

Launches 1004 and 1283

A. PROJECT

This survey was accomplished under Project Instructions OPR-J247-HSB-81, St. Joseph Bay, Florida, dated July 27, 1981, and amended by Change No. 1, dated October 1, 1981, and Change No. 2, dated August 23, 1982.

B. AREA SURVEYED

The area surveyed was west of St. Joseph Bay, Florida. It includes the shoreline from the western end of Mexico Beach, Florida running west for four (4) nautical miles. It includes portions of the Entrance Channel into St. Joseph Bay. The survey also encompases the offshore area of Bell Shoal. The survey is bounded by the following points:

Latitude 29°56	'57"N.	Longitude	85°25'30"W
Latitude 29°51		Longitude	85°25'30"W
Latitude 29°55	'58"N,	Longitude	85°30'00"W
Latitude 29°57		Lonaitude	85°30'00"W

This survey was conducted from December 7, 1982 to April 1, 1983.

C. SOUNDING VESSEL

All soundings obtained on this survey were obtained from NOAA Launches 1004 and 1283. All survey records are annotated with the vessel number 1004 or 1283.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS - See sections 4.e. and 4.g. of the Explusion Report
The following fathometer equipment was used during the survey:

JD	<u>Launch</u>	Equipment
356 - 49	1004	Recorder Model #5000 (Ross) S/N 1053
		Digitizer Model #6000 (Ross) S/N 1083
		Inverter Model #3000 (Ross) S/N 1036
		Model #4000 (Ross)
		s/N 1087

<u>JD</u>	<u>Launch</u>	Equipment	<u>-</u>		
341 and 61-82	1283	Recorder	Model S/N	6211	(Raytheon)
83-84		Recorder	Model S/N	719 #1 79 B 5881	(Raytheon)
88-91		Recorder	Model S/N	#719C 9941	(Raytheon)

Several problems were noted in the above equipment during the survey.

A wavey fluctuation of the initial was noted on the Ross Fathogram.

On several occasions, this fluctuation was caused by problems with Launch 1004's 24-volt charging system and the DC/AC invertor. The fluctuation from the initial varied from 0.0 to approximately 0.7 feet. These fluctuations were taken into account when the fathogram was scanned. The 719B, Serial # 6211, developed a short circuit that would cause the fathometer to stop. By the end of Julian Day 82, the unit failed and was returned to the Atlantic Marine Center for repairs. It was determined that the 719B Serial #5881 chart drive speed was slightly out of calibration during a check of the system. This problem effects only one day of hydrography, JD 84, when 19.2 nautical miles of sounding lines were run. The recorded depths and positional information are not effected by this problem as the problem only causes a slight shift in time between the begin and end of each line of hydrography. No attempt was made to adjust the recorded time to actual time to correct this error.

The Ross fathometer was monitored continuously while sounding. Phase checks were made on numerous occasions during sounding operations. Initial errors occurred on the Ross as noted earlier. The Raytheon fathometers were monitored continuously while sounding. The initial and the tide and draft were set on zero feet with speed of sound being adjusted at fifty feet. No initial errors were noted on the Raytheon fathograms for this survey.

Settlement and squat tests were run on both Launch 1004 and 1283:

Launch	Date (JD)	<u>Location</u>	Latitude	Longitude
1004	Jana 24, 1983 (24)	St. Joseph Bay, FL	29°49.0'N	85°18.8'W
1283	April 1, 1983 (91)	St. Joseph Bay, FL	29°49.0'N	85°18.8'W

The results of these tests are included in the appendix of this report. Settlement and squat corrections will be applied via the TC/TI tape during plotting of the smooth sheet at the Atlantic Marine Center and were not applied to the field sheets.

Velocity and instrument corrections were determined by barchecks which were taken when sea conditions would permit an accurate measurement. No barchecks were obtained using Raytheon Model #719B, S/N 5881. The

velocity curve derived from the Raytheon 719C, should be applied to the two days of hydrography, JD 83-84, obtained with the 719B, S/N 5881. This should give a velocity curve which is closer to the temperature and salinity of the water than the velocity curve of S/N 6211, S/N 6211 was used earlier in the survey during the colder weather.

Smooth tides have been requested for the periods of hydrography. Smooth tides will be applied during the plotting of the smooth sheet at the Atlantic Marine Center.

E. SURVEY SHEETS (FIELD)

Eight mylar field sheets were prepared in the field using a PDP8/e computer and a DP-3 complot plotter:

- 2 work sheets
- 2 semi-smooth field sheets
- 2 smooth field sheets
- 2 overlay field sheets

Mainscheme hydrography and junction soundings are plotted on the smooth field sheets, while crosslines, developments, splits, bottom samples and aids to navigation are shown on various overlay sheets. Projection parameter tape listings for the field sheets are included in the appendix of this report. The final smooth sheet and verification of this survey will be accomplished at the Atlantic Marine Center on the Harris/7 Computer and the Xynetics 1201 Plotter.

F. CONTROL STATIONS

Control stations used during this survey were either existing geodetic control stations published by National Geodetic Survey (NGS) or were established by Hydrographic Field Parties Section (HFPS) Horizontal Support Group in 1980 to third order standards. Existing NGS control was verified at the same time. All stations are referred to the North American 1927 Datum. A list of all control stations used during this survey is included in the appendix of this report.

G. HYDROGRAPHIC POSITION CONTROL - See section 4.c. of the Exelustion Report.

The method used to control this survey was Range/Range. The lines of hydrography were steered on constant range arcs from one of the two Remote Del Norte stations.

The following is a breakdown of Del Norte equipment used by Julian Date:

<u>JD</u>	DMU	MASTER	REMOTES	
341 356-357 003-007,013 026-039 040,045-046 049,061-062 066-068,073	180 180	76 #162 76 #162 76 #162 78 #169 78 #169	78 #220 78 #220 76 #251 72 #1316	74 #218 74 #218 74 #218 74 #218 74 #218
074,081 082-084,088 089-091	180 180 180	78 #169 78 #169 78 #169	78 #220 72 #1316 72 #1316	74 #218 74 #218 78 #220 74 #218

Nearly all daily system checks were conducted at the Front Light of Range A, Latitude 29°54.4'N, Longitude 85°24.3'W. This site is approximately one nautical mile east of the survey limits. Inverse distances from the horizontal control stations to Range A Front Light were determined using the PDP8/e computer and RK 407 (Geodetic Inverse/Direct Computation). Unless noted in the sounding volume, the launch normally laid to alongside the Range Light to calibrate. On one occasion (JD 083) it was impractical to return to the Front Range calibration site, so the boat took rates at the water level staff in Salt Creek. Later (JD 088) a daily check was made at Range A Front Light and a comparison was made at the water level staff. The rates from the two days compare favorably.

Daily correctors obtained from baseline calibrations are generally used to correct the electronic positioning system when baseline calibration data were available. However, daily correctors obtained from the daily system checks are to be applied on JD 341, JD 363 through JD 017, JD 29 and JD 39. ON JD 341, daily correctors of -7 and +16 should be applied as the DMU/Master has been calibrated over a short baseline (233 m). Remote 78, S/N 220, was recalibrated on JD 342, but Remote 74 S/N 218, had no closing baseline before DMU, S/N 395, failed on JD 344. No closing baseline is available for the entire period of JD 363 to JD 017 as the Master Unit was inadvertently changed during the baseline calibration. The mean of daily system checks are to be applied as daily correctors for the hydrography during this period. Daily correctors were similarly obtained for JD 26 and 39 to the 76 Remote, S/N 251, as no closing baseline was obtained due to failure of that remote.

All field sheets were plotted using zeros as correctors. All corrector tapes have been marked for editing by the Processing Branch at AMC so the actual corrector are applied to the smooth sheets. (See pg. 31)

Problems encountered with the use of this equipment were mainly related to low battery voltage. Launch 1004 24-volt battery charger failed early in the survey. A new printed circuit board was provided for the charger which solved the voltage problem on the launch. Null zones were found in two portions of the survey. These null zones were successfully overcome by using 90° antennas on the remotes and adding an additional four foot of height to the mast for the master. One Del Norte, S/N 395, failed early in the survey and was returned to Norfolk for repairs.

H. SHORELINE - See section 2.6. of the Evaluation Report.

Shoreline detail for this survey was obtained from Class I shoreline maps, TP-00349 and TP-00351. These 1:20,000 maps were enlarged photographly to the scale of the survey.

No noticeable changes between the mapped shoreline and the surveyed shoreline were noted during hydrographic operations. It was observed that the beach area is subject to dynamic change due to wind and sea action.

I. CROSSLINES - See section 3.3. of the Evaluation Report.

Crosslines constitute 7% of the mainscheme hydrography. Ninety-eight percent (98%) of the crossings agree within one foot. No soundings are in disagreement at crossing by more than $\pm two$ feet.

J. JUNCTIONS - See section 5. of the Evolustion Report.

This survey junctions with the following surveys:

H-9915 to the West H-9734 to the Southwest H-9996 to the East

Agreement between the junction survey and the current survey is excellent. All soundings are in agreement by one foot. This one foot difference is caused by either the difference between real and predicted tides and by possible sediment transfer in this relatively shallow water during severe weather.

A Holiday exists between the current survey and the junction of H-9915 and H-9734. This area, approximately 1/2 mile square, is on the southwest corner of the survey at Latitude 29°55'30"N, Longitude 85°29'40"W in depths between 24 and 27 feet. The Holiday was discovered after hydrography was completed and the party had departed the area. This occurred because this small area was outside of the project limits in the project instructions.

K. COMPARISON WITH PRIOR SURVEYS - See section 6. and 4. h. of the Evaluation Report.

This survey was previously covered by the following survey:

H-1265A (1875), 1:20,000 scale

Comparison with H-1265 was fair as many differences were found between the two surveys. An exact comparison was difficult to make because of the poor quality of the reproduction of H-1265 and the change in datum. The soundings from the current survey generally appear shallower, 1-2 feet, than those from the 1875 survey. The 12-foot and 18-foot contours have changed, especially the 12-foot contour along the inshore, western end of this survey. Several of the deep areas (greater than 30') have diminished in size since 1875.

It is recommended that the soundings from the present survey supersede the prior surveys' soundings.

L. COMPARISON WITH THE CHART- See section 7. of the Evaluation Report.

The following presurvey review items were investigated during this survey:

A search for PSR #13 (NM 13/42, 1942) was attempted on JD 84. Indications of an obstruction were also noted on JD 007 between positions 711 and 712 at Latitude 29°53'56.6", Longitude 85°27'47.9". The wreck is a cargo ship, 598 gross tons. It was sunk on the 21 of March 1942 by a marine casuality (fire). The wreck was last reported in Local Notice to Mariners 50/78, which listed the wreck as a dangerous submerged wreck P.A. at Latitude 29°54'01"N, Longitude 85°27'51"W. A wreck was located using the fathometer and investigated by NOAA Divers. The vessel was laying northeast to southwest on the bottom and appears to be broken into several pieces. The divers determined the highest point on the wreck and used a leadline to measure the least depth. The least depth over the wreck is 15.0 ft reduced for predicted tides. A fathogram trace of the wreck is included in the survey Data. The wreck was reported by telephone and letter to the United States Coast Guard

Eighth District. Recommendation: Chart at Latitude 29°53'32.2"N, Longitude 85°27'59.7"W. This wreck can not be positively identified as that of PSR #13 and is about 1/2 nautical miles away from its reported P.A. position. A thorough search of this reported position was not conducted and the aforementioned obstruction (JD 007) was also not developed further. See Sections 7.2.() and 7.2.2) of the Evaluation Report.

This possible obstruction (JD 007) was found again by fathometer in preparation for diving, although data was not recorded. The dive had to be cancelled due to heavy seas. This obstruction appears to rise eight feet above the surrounding depths for a least depth of 14.0 feet reduced for predicted tides. It is recommended that this obstruction be charted as a dangerous submerged obstruction at position Latitude 29°53'56.6"N, Longitude 85°27'47.9"W. It is further recommended that the P.A. wreck at Latitude 29°54'01"N, Longitude 85°27'51"W be deleted as it would be adequately charted by the above known obstruction, 170 meters away. See successions 2.2.2, 7.2.3) and 9.5 the Evaluation Report

PSR Item #12, dangerous submerged wreck, was deleted by Change 1, dated October 1, 1981. A limited investigation (50 meter line spacing) was conducted in the area of the PSR item, Latitude 29°55'24", Longitude 85°25'54". No evidence of the wreck was found during the investigation.

A comparison was made between the survey and Chart 11393; 13th Edition.

The following changes were noted during the comparison: The four foot shoal at Latitude 29°57.25', Longitude 85°29.5' no longer exists. The least depth in this area is now eight feet. The 12-foot contour has moved approximately 1000 meters shoreward around Longitude 85°28'W. The 18-foot contour has shifted slightly but roughly maintains its charted shape. The charted 30-foot contour indicating a 32 foot depth at Latitude 29°54'N, Longitude 85°26'30"W has filled in and is approximately one fourth its charted size. Depths from this survey tend to be in exact agreement or deeper by 2 to 3 feet. See Section 6.5 The Evaluation Teach.

No attempt was made to develop the entrance to Salt Creek at Mexico
Beach, Florida. The channel is reported as four feet deep on the chart.
On several occasions during the survey, the channel was completely closed due to drifting sand. The seaward end of the creek is in a constant state of flux and depths do not remain sonsistent in this area. A note should be added to the chart stating, "Local knowledge is necessary to enter Salt Creek". A Coast Pilot Report, NOAA Form 77-6, has been submitted also.

M. ADEQUACY OF SURVEY - See section 9 of the Evaluation Report.

This survey is complete and adequate to supersede prior surveys for charting except for the following two areas. As noted earlier, a Holiday exists in the junction sounding at the southwest corner of the survey. A small Holiday exists on the inshore end of hydrography. The Holiday is located at Latitude 29°57'25"N, Longitude 85°28'57"W. Several attempts were made to run hydro in this Holiday, but wind and sea conditions made it impossible to safely navigate it. with a 17-foot Monark launch. The safe offshore limit is defined by Positions 3482 through 3484. The inshore limit is the six foot contour. It is the hydrographer's opinion that the six foot contour is adequately defined. This Holiday does not affect the adequacy or the completeness of the survey.

N. AIDS TO NAVIGATION - See section 7.C. of the Evaluation Report.

Eight floating aids to navigation in the survey area were located and comparisons between their charted and surveyed positions are excellent. All buoy descriptions are adequate in comparison to the Light List (Vol II, 1982). All floating aids adequately delineate the entrance channel.

There were no fixed aids in the survey area. All fixed aids and landmarks in the project area were previously submitted (1981 - 1982) and have been entered in the NGS data base.

O. STATISTICS

Number of positions	3489
Nautical miles of sounding lines	
Nautical miles of crossline	22.7
Nautical miles of development	37.0
Total miles of hydrography	391.6
Number of bottom samples	75
Number of barchecks	

P. MISCELLANEOUS

No information on currents was obtained during the survey.

Several areas on the survey were developed to better define the bottom contour. An anomaly was noted in the eighteen foot contour at Latitude 29°55'40"N, Longitude 85°28'15"W. When the area was developed, several 17-foot depths were noted were 19-foot depths had been recorded earlier. The deeper depths are on the mainscheme sheet and were used to draw the contour. There are other differences less significant than this between the overlay and mainscheme and in most cases the depths on the mainscheme were used for contouring. These anomalious depths should be resolved when smooth tides are applied.

Q. RECOMMENDATIONS

It is recommended that a side scan sonar search be made around PSR #13.

See Sections L and M for specific recommendations.

R. AUTOMATED DATA PROCESSING

Programs used during field data acquisition and field processing of this survey are as follows:

PROGRAM	DESCRIPTION	VERSION DATE
RK201	Grid, Signal and Lattice Plot	04/18/76
RK211	Range-range Non-real Time Plot	01/15/76
RK300	Utility Computations	02/05/76
RK330	Reformat and Data Check	05/04/76
RK407	Geodetic Inverse/Direct Computation	09/25/78
AM500	Predicted Tide Generator	11/10/72

П

PROGRAM	DESCRIPTION	VERSION DATE
RK530	Layer Corrections for Velocity	05/10/76
RK561	H/R Geodetic Calibration	02/19/75
RK562	Geodetic Calibration	09/10/74
AM602	Elinore-line Oriented Editor	05/20/75

REFERENCE TO REPORTS

Coast Pilot Report Control Report for OPR-J247, dated July 22, 1981.

Respectfully submitted,

Lt(jg) Frederick W. Rossmann NOAA OIC, HFP-3

SIGNAL TAPE LISTING

ST. JOSEPH BAY, FLA.

OPR-J247

HSB-10-12-82

H-10069

SHEET "E" PT. 142

106 5 29 52 15238 085 23 35108 250 0020 000000 H-60-FL-1980
107 4 29 52 32123 085 21 44937 250 0000 000000 ST.JOE PT.R.RNG.C-1980
111 4 29 54 24198 085 24 18512 250 0000 000000 ST.JOE PT.F.RNG.A-1980
112 1 29 55 04935 085 22 50097 250 0025 000000 ST.JOE PT.LGTD.RNG A REAR LT
118 1 29 57 29475 085 28 16671 250 0005 000000 H-61-FL-1980 1980

- * CONTROL EST. BY FIELD SUPPORT SECTION R.DECROIX, J.DANIEL 1980
- ** SIGNAL NO.IN ACCORDANCE WITH PREVIOUS SURVEY/ HFP#3

The standard	(8-74) Replaces C&GS Form 567.	5 Form 567.	NONFLOATING	NG AIDS ORRESSERVE SAND NATIONAL OCEANIC	NATA SHEET	FOR CH	EANIC AND	S. DEPARTA ATMOSPHER	U.S. DEPARTMENT OF COMMERCE U.S. DEPARTMENT OF COMMERCE MATIONAL OCEANIC AND ATMOSPHENIC ADMINISTRATION	ORIGINATING ACTIVITY A HYDROGRAPHIC PARTY GEODETIC PARTY	CTIVITY ARTY
HEP-3 HEP-3 Florida St. Joseph Bay 3/83 HEP-3 HE	TO BE CHA	RTED	REPORTING UNIT	STATE		LOCALITY			DATE	PHOTO FIELD PAR	TY 1VITY
Note	TO BE REV	'ISED ETED	HFP-3	Florida			seph B	ау	3/83	FINAL REVIEWER	LAREVIEW GRP.
Note	The following				award to de	termine the	ir value as	landmarke		See reverse for resignal	NOH Managanan
	OPR-247	o Z		RVEY NUMBER H-10069	DATUM 1927	North A	nerican		1		
Since and necessary in the continues Law Longitude						POSIT	NOI		METHOD AND DA	re of Location on reverse side)	CHARTS
St. Joseph Point R. Rng A)	CHITAKO		DESCRIPTION		LATIT	UDE	LONG	TUDE			AFFECTED
St. Joseph Bay Range A Rear Light	NAME	Show tria	seon for deletion of landmark or ingulation station names, where ap	aid to navigation. Splicable, in perentheses)	/ 0	// D.M. Meters	/ •	D.P. Meters	OFFICE	FIELD	
St. Joseph Point F. Rug A)		St. (Joseph Bay Range A F Joseph Point Lgtd F	Wear Light		04.93		50.097		F-2-6-L	11389
St. Joseph Point F. Rng A) 24.198 85 24 85 24 87 26-L	LIGHT	L.L	. #1566 Stat	tion 112						8/80	11393
St. Joseph Point R. Rng B 29 53 43.979 16.109 F-2-6-L St. Joseph Point R. Rng B 29 53 43.979 85 22 87 80 St. Joseph Point F. Rng B and D 29 53 43.393 85 23 87 80 St. Joseph Point F. Rng B and D 29 53 43.393 87 80 L.L. #1571 & 1580 Front Light 1.1. #1571 & 1580 St. Joseph Point F. Rng B and D 29 53 43.393 87 80 St. Joseph Point F. Rng B and D 29 53 88 20 St. Joseph Point F. Rng B and D 29 53 88 20 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 53 87 80 St. Joseph Point F. Rng B and D 29 50 87 80 St. Joseph Point F. Rng B and D 29 50 87 80 St. Joseph Point F. Rng B and D 29 50 87 80 St. Joseph Point F. Rng B and D 29 50 St. Joseph Point F. Rng B and D 29 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Joseph Point F. Rng B and D 20 50 St. Jos	LIGHT	(St. St. L	Joseph Point F. Rng #1565 Joseph Bay Range A F	s A) fon 111 font Light		24.198	1	18.512		F-2-6-L 8/80	11389 11393
St. Joseph Bay Range B Front Light	LIGHT	(st. sk: ^L .	Joseph Point R. Rng Joseph Bay Range Stat	s B) ion 110 ear Light	1	43.979		16.109		F-2-6-L 8/80	11389
E limits of this survey. So within the project area have. I entered in the NSS data base 1981 -1982.	LIGHT	St. ((St. L.L.	Joseph Bay Range B F Joseph Point F. Rng #1571 & 1580	ront Light; B and D)	1			07, 230		F-2-6-L 8/80	11389
The above aids are near the limits of this survey. All fixed aids and landmarks within the project area have been previously located and entered in the NS data hase 1981 -1982.		St.	oseph Bay Range D F	ront Light							
All fixed aids and landmarks within the project area have been previously located and entered in the NES data base 1981 -1982.		ILON	- 1		mits of		rvey.				
9/0/82			All fixed aids a been previously	nd landmarks w located and en		e proje	ct are S data				
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9 -				,				
							·				

SUPERSEDES NOAA FORM 78-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPOW RECEIPT OF REVISION,

NOAA FORM 76-40 (8-74)

		NOAA FORM 76-40 (8-74) Replaces C&GS Form To be CHARTED The following object OPR PROJECT NO. J-247 TANK (Rec. NAME Shoo		Florida been inspected from secsurvey Number H-10069 1 Tank)	DMARKS DMARKS DMARKS 1927 LATIT • / LAT	St. J St. J St. J North A Posti	ARTS ARTS ARTS (OSEPH B it value as it value as 110N LONG) 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6	ay landmarks. Tube D.P. Meters 36.637	MENT OF COMMERCE RIC ADMINISTRATION AETHOD AND DAT (See Instructions OFFICE	ORIGINATING A C ECDETIC PARTY C ECDMPLICATION PAGE C COMPLICATION OF THE LOT BRAIN FIELD FIELD FIELD FIELD FIELD FIELD	ARTY ARTY ATTY TIVITY NCH Tible personnell 11389 11393
		-									
									ŕ		
										٠	
										·	
		7	1-9/6(22)						,		
			Mexicp Beach Municipa	1 Tank)		43.232	i i	36.637		F-2-6-L 8/80	11389 11393
(Nexicy Beach Municipal Tank) 29 56 43.232 85 24 36.637 F-2-6-L 2-3/2 (22) 86 24 6 26 8780 2-3/2 (22) 86 24 86 24 8780 2-3/2 (22) 86 24 8780 2-3/2 (22) 8780 8780 3-3-6-L 8780 43.232 85 24 87.6-L 45 25 8780 8780 45 26 8780 8780 47 26 8780 8780 48 30 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 48 480 8780 8780 <	(Mexicp Beach Municipal Tank) 29 56 43.232 85 24 36.637 F-2-6-L 2-9/6 (22) 86 24 86 24 8/80		DESCRIPTION conditions of landmark. Triangulation station names, where	<u> </u>	- 1 - 1	rube // D.M. Meters	- 1	TUDE // D.P. Meters	OFFICE	FIELD	AFFECTED
Checard reason for designation of Landausk or aid to marifaction. Show trianglation of Landausk or aid to marifaction. Show trianglation of Landausk or aid to marifaction. Check of the continuation of Landausk or aid to marifaction. All Mexicop Beach Municipal Tank 29 56 10 10 10 10 10 10 10 10 10 10 10 10 10	Description of tendents of all to marifeston. Character Description of tendents of t			н-10069	1927		merican FION		METHOD AND DAT	E OF LOCATION on reverse side)	CHARTS
H-10069 1927 North American Merringo Augo Dayle Of Location Footnine Constitute Cons	H-10069 1927 North American He10069 1927 North American He10069 1927 North American He10069 He1006 AND DESCRIPTION Character and north and a sea of the navigation. Show trianglation station mass, when a spiteable, in persons an experiment of tendents of a spiteable, in persons a policable, in persons a persons a policable, in persons a policabl	e tollowing obje R PROJECT NO.	Ц	been inspected from sec	oward to de	termine the	ir value as	landmarks.		(See reverse for respons	lible personnel)
Description	Survey Number DaTuM H-10069 1927 North American Gee Instructions Survey Number DaTuM H-10069 1927 North American Gee Instructions Cartering Cartering	TO BE DELETED	.	Florida		St. J	loseph B	ay	3/83	FINAL REVIEWER	C & REVIEW GRP
Action A	Plorida St. Joseph Bay 3/83 Elorida Survey Number DATUM H-10069 1927 North American American American American DATUM H-10069 1927 North American A	TO BE CHARTED TO BE REVISED	REPORTING	STATE		LOCALIT			DATE	PHOTO FIELD PARTY	17.Y
Florida St. Joseph Bay 3/83 St. Joseph Bay 3/83 Survey view es Inspected from second to determine their value os londmorts. Survey view es DATUM POSITION American Gestischelong on a 1927 North American Gestischelong on a 1927 North American Gestischelong on a Carte Ca	Florida St. Joseph Bay 3/83 St. Joseph Bay 3/83 Survey Number Date Dat	74) places C&GS Form		THIS AND SAME ILAN	DMARKS	TIONAL OC FOR CH	EANIC AND	S. DEPART	MENT OF COMMERCE	ORIGINATING A	ARTY
State Stat	Standard Coreanic and at most present of commerce and a survey with the commerce and a survey and a s	A FORM 76_40						3 /			

Ш

H

NOAA FORM 76-40 (8-74)

T

П

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND Existing stock should be destroyed upon receipt of revision. な U.S.GPO:1975-0-665-080/1155

NOAA FORM 77-6				B No. 41-R24
(10-72)		NATIONAL OCE	U.S. DEPARTMENT OF	F COMMERCE
	COA	ST PILOT REPORT		
PLEASE MAIL TO:		This record of your experience	ce and observations when coa	
Director National Ocean Survey		ing port, and/or following ins	ide channels will be used to on now given in the Coast Pil	correct, am-
National Oceanic and Atmosp	heric Administration	Please use additional sheets		
ATTENTION: C324 Rockville, Maryland 20852			pe provided upon receipt of ea	ch report.
GEOGRAPHIC LOCATION	I			
MEXICO BEACH FO				
ATITUDE	1	CHART NUMBER	COAST PILOT NUM	BER
29° 57.6N	85° 25.8 W	11393	5	
VESSEL NOAA LAUNCH 138	3	MASTER/COMMANDING	OFFICER	
MARCH 83		OBSERVER	SSMANN O. I.C. HFP.	····
	- ** * -	d useful for navigation (day and	SSMANN U.I.C. HFP.	<u> </u>
indicate the	pair of marks forming a rail be labeled with the distan	nge. Photographs of landmarks	difficult to describe are solic	iradi azək
CHARTED			which the camera was pointe	d,
	LATITUDE LONGI (Approximate)	TUDE	ORMATION HELPFUL IN IDENT	
TYPE CHARTED	LATITUDE LONGI	TUDE		
TYPE CHARTED	LATITUDE LONGI	TUDE		
TYPE CHARTED	LATITUDE LONGI	TUDE		
TYPE CHARTED	LATITUDE LONGI	TUDE		
TYPE CHARTED YES NO RADAR: List best radar ta	LATITUDE LONGI (Approximate)	TUDE	DRMATION HELPFUL IN IDENT	FICATION
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	rgets and, if known, give mention under remarks place	DESCRIPTIVE INFO	nich the object can be positive as to be misleading.	FICATION
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	rgets and, if known, give mention under remarks place	DESCRIPTIVE INFO	nich the object can be positive as to be misleading.	ly identi-
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	rgets and, if known, give mention under remarks place	DESCRIPTIVE INFO	nich the object can be positive as to be misleading.	ly identi-
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	rgets and, if known, give mention under remarks place	DESCRIPTIVE INFO	nich the object can be positive as to be misleading.	ly identi-
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	rgets and, if known, give mention under remarks place	DESCRIPTIVE INFO	nich the object can be positive as to be misleading.	ly identi-
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	rgets and, if known, give mention under remarks place	DESCRIPTIVE INFO	nich the object can be positive as to be misleading.	ly identi-
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	rgets and, if known, give mention under remarks place	DESCRIPTIVE INFO	nich the object can be positive as to be misleading.	ly identi-
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M	LATITUDE LONGI (Approximate) argets and, if known, give mention under remarks place NAME OR TYPE proximate latitude and long	DESCRIPTIVE INFO	ormation Helpful in Ident sich the object can be positive as to be misleading. M. USEF	ly identi-
TYPE CHARTED YES NO RADAR: List best radar ta fied and used. M (Include ap.	LATITUDE LONGI (Approximate) argets and, if known, give mention under remarks place NAME OR TYPE proximate latitude and long and inside routes are not man	DESCRIPTIVE INFO	ormation Helpful in Ident sich the object can be positive as to be misleading. M. USEF	ly identi-

		·						
								
								
-								
CURREN	Coast Pilot.	s you ha	ve exp	erience	d conditi	ons of current where special ca	ution should be me	ntioned in the
		······································						
								
· · · · · · · · · · · · · · · · · · ·								
I. ANCHO	RAGES: Mention be	est anch	orage in	the or		ther secure anchorages having		
OCATION (include anchorage bea			tine at	ca and o	ther secure anchorages having	good holding ground	•
PE OF BO	OTTOM OBSERVED:						PECO.WILL	
		EXCEL	GOOD	FAIR	POOR	COMMENT	RECOMMENDE	D FOR VESSEL
BOTECTIO	N OFFERED						LENGTH	DRAFT
CCESSABIL	LITY	 						
								1 .
I. REMAR	KS:						TOFT	·
I. REMAR	KS:						TOFT	. 10
		IANGES				NOTE		
II. OTHER	COAST PILOT CH	LOT				NOTE: Any chart(s) submit	ted with your report	to show
II. OTHER	COAST PILOT CH	PAGE		LINE	5)	NOTE: Any chart(s) submit conditions will be re	ted with your report	to show
MBER 5	COAST PILOT CH U.S. COAST PI EDITION	PAGE		13-1	4	conditions will be re	ted with your report	to show
II. OTHER MBER SAD:	COAST PILOT CH U.S. COAST PI EDITION /S STRIKE OUT:	PAGE /43	ISERT A	/3-/	(Circ	NOTE: Any chart(s) submit conditions will be related to the conditions will be related to the conditions.	ted with your report	to show
II. OTHER MBER SAD:	COAST PILOT CH U.S. COAST PI EDITION /S STRIKE OUT:	PAGE /43	PARTA	/3-/	(Circ	conditions will be re	ted with your report	to show
II. OTHER	COAST PILOT CH U.S. COAST PI EDITION /S STRIKE OUT:	PAGE /43	PARTA	/3-/	(Circ	conditions will be re	ted with your report	to show
I. OTHER MBER S AD:)	COAST PILOT CH U.S. COAST PI EDITION /S STRIKE OUT:	PAGE /43	PARTA	/3-/	(Circ	conditions will be re	ted with your report	to show

Г

П

RI copy

Atlantic Marine Center Hydrographic Field Parties Section

May 23, 1983

TO: -

N/CG222

Norman E. Banks

THRU:

N/MOA233

Ronald W. Jones

FROM:

OIC, HFP-3 -

Frederick W. Rossmann

SUBJECT:

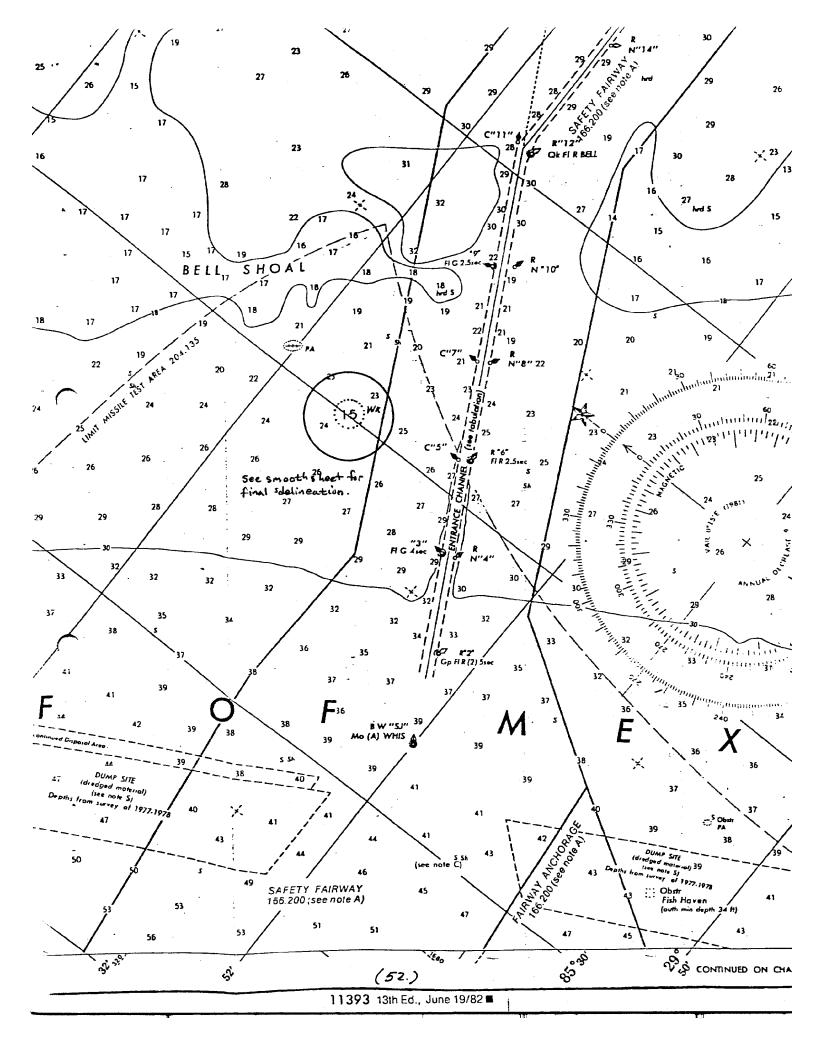
Advance Information - Dangerous Sunken Wreck - Vicinity Entrance

Channel to Port St. Joe, FL (Chart 11393)

The enclosed copies of a letter and chart 11393 have been transmitted to the Commander, Eight Coast Guard District. The information was also telephoned May 20, 1983, to the Aids to Navigation Section, USCG Eight District, recommendsing the issuance of a Local Notice to Mariners.

cc: MOA1

Enclosures



RL cop



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

Atlantic Marine Center

Hydrographic Field Parties Section

May 23, 1983

N/MOA233:RAL

T0:

Commander, Eight Coast Guard District

THRU:

FROM:

Lt. Cdr. Ronald W. Jones Paal Woods

Lt(jg) Frederick W. Rossmann Robert Lewis

SUBJECT: Information pertinent to Navigation - Dangerous Sunken Wreck in the

Vicinity of Entrance Channel Port St. Joe, Florida - Chart 11393

The following information is a result of a recent National Ocean Service hydrographic survey in the vicinity of Bell Shoal and the Entrance Channel to Port St. Joe, Florida (Survey H-10069).

An uncharted dangerous wreck was found at Latitude 29°53'32.2", Longitude 85°27'59.7" on March 25, 1983 at 2108 GMT. The wreck was found with a fathometer and once found was investigated by NOAA divers. The vessel appears to be broken in several pieces and the highest point was measured by diver held leadline to be 16.6 feet at the time of location. Predicted tides for the area at the time of measurement was 1.4 feet thus making a least depth of 15 feet.

The position of the wreck was obtained by range/range techniques using a Del Norte short range electronic control system.

A copy of Chart 11393, 13th Edition with the position of the wreck indicated is enclosed.

The above information was transmitted by telephone May 20, 1983 to the Aids to Navigation Section U.S.C.G Eight District.

Enclosure



APPROVAL SHEET SURVEY H-10069 (HSB-1012-82)

The hydrographic records transmitted with this report are complete and adequate.

No direct supervision was given by me during field work and the field sheet was examined only during a routine field inspection of the hydro party.

This survey is complete and adequate with no additional field work recommended.

Ronald W. Jones

Lt. Cdr., NOAA

Chief, Hydrographic Field Parties Section

Atlantic Marine Center 439 West York Street Norfolk, VA 23510

July 7, 1983

N/MOA232: RGR

TO:

Commander (oan)

Eighth Coast Guard District Hale Boggs Federal Building 500 Camp Street

New Orleans, LA 70130

FROM:

Karl Wm. Kieninger, CDR, NOAA

Chief, Hydrographic Surveys Branch, N/MOA23

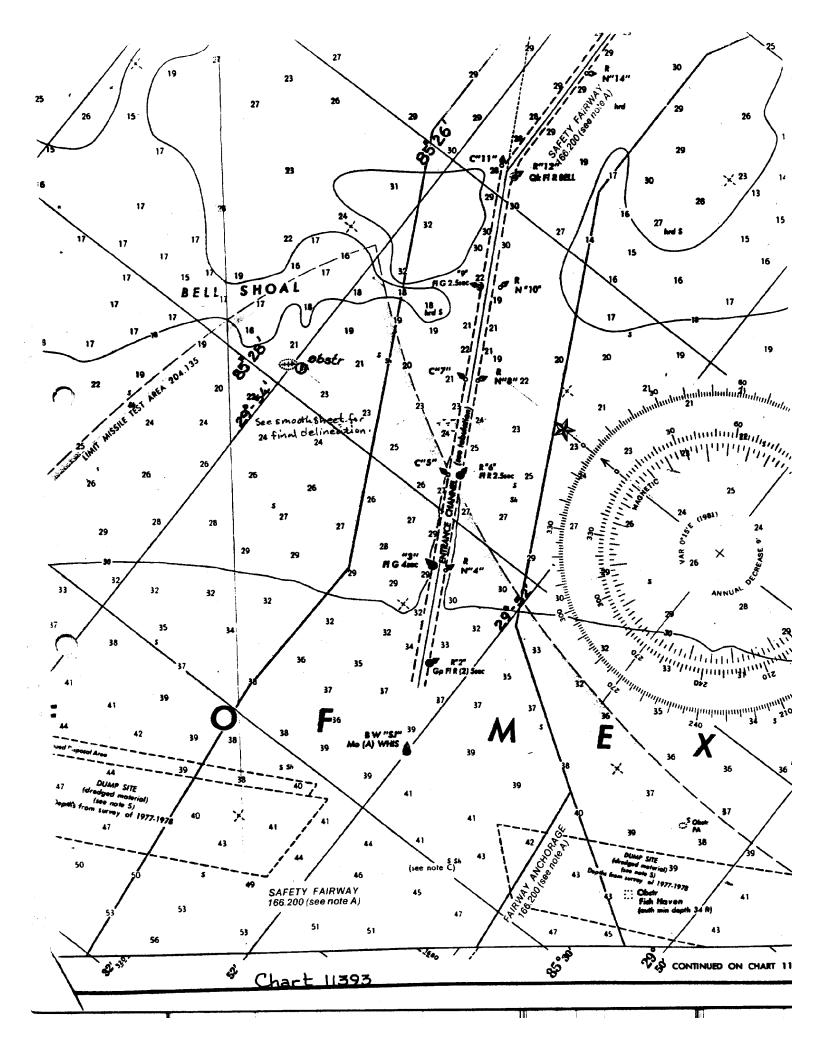
SUBJECT:

Danger to Navigation

An uncharted obstruction with a reported depth of fourteen (14) feet has been found in Latitude 29"53'56.5"N, Longitude 85"27'49.0"W.

Source: NOS Survey H-10069 Charts: 11360, 11389, 11393

cc: N/CG222 N/MOA233



HYDROGRAPHIC SURVEY STATISTICS REGISTRY NO.: H-10069

Number of positions

Final Inspection

Marine Center Approval

TOTAL TIME

Number of soundings		12073
Number of control stations		5
	TIME-HOURS	DATE COMPLETED
Preprocessing Examination	22	3 AUG 83
Verification of Field Data	392	10 SEP 85
Quality Control Checks	75	
Evaluation and Analysis	46	31 JAN 86

8

543

Transmittal letter of survey and survey records will be included in the Descriptive Report to identify the records accompanying the survey.

1

3406

29 JAN 86

31 JAN 86

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): 872 8995 Mexico Beach, Florida

Period: December 7, 1982-April 1, 1983

HYDROGRAPHIC SHEET: H-10069

OPR: J-247

Locality: St. Joseph Bay Entrance, Florida

Plane of reference (mean lower low water): 3.17 feet

Height of Mean High Water above Plane of Reference is 1.6 feet

REMARKS: Recommended Zoning:

Zone Direct

Chief, Datums and Information Branch

NOAA FORM 76-155 (11-72) NA	TIONAL	OCEANIC	U.S. I	DEPARTM MOSPHER	ENT OF C	OMMER	CE S	URVEY N	UMBER	
GEC	GRAP	HIC NA						H-10	069	
Name on Survey	/ <u>A</u> '	ON CHART N	Pro. Cou	SURVEY U.S. MAPS	ROM LOCAL ROM FORMAT	Joh Local	p.O. GUID	E OF MAS RANGING	J.S. Light	,187
BELL SHOAL	Х									1
FLORIDA (title)	х	ļ								2
GULF OF MEXICO	Х		<u> </u>							3
MEXICO BEACH (locality	Х						_		ļ	4
ST. ANDREW POINT	Х	ļ	ļ		ļ	-				5
SALT CREEK	Х	ļ	ļ							6
										7
					-					8
					ļ		ļ.			9
		ļ			ļ			ļ		10
								1		11
	-d								ļ	12
		ļ								13
										14
		1			<u> </u>			·		15
					<u> </u>					16
										17
	• • •				Approve	vi.				18
					whater					19
					Char	0-1	1	1		20
				,	Chief G		et .	WANDY		21
:										22
					FEB	10	1986			23
							ļ			24
NOAA FORM 76-155 SUPERSEDES C										25

ATLANTIC MARINE CENTER EVALUATION REPORT

SURVEY NO.: H-10069 FIELD NO.: HSB-10-12-82

Florida, Gulf of Mexico, Bell Shoal

SURVEYED: 7 December 1982 through 1 April 1983

SCALE: 1:10,000 PROJECT NO.: OPR-J247-HSB-81

SOUNDINGS: ROSS Digital Echo

Sounder, RAYTHEON DE-719B and DE-719C

Fathometers

CONTROL: DEL NORTE (Range/

Range)

Chief of Party......R. W. Jones

Surveyed by.....F. W. RossmanR. S. Snow ·····J. P. Oswald

Automated Plot by......XYNETICS 1201 Plotter (AMC)

1. INTRODUCTION

a. No unusual problems were encountered during office processing.

Notes in the Descriptive Report were made in red during office processing.

CONTROL AND SHORELINE

- Control is adequately discussed in sections F., G., and S. of the Descriptive Report.
- b. Shoreline originates with 1:20,000 scale registered Coastal Zone Maps TP-00349 and TP-00351 of 1977-78. The shoreline was applied to the present survey by enlarging the needed areas of the shoreline manuscripts.

The charted pier in Latitude 29°56'54"N, Longitude 85°25'27"W is approximately sixty (60) meters longer as shown on the present survey than the shoreline map and charted lengths. Prior survey H-9996 (1982) also shows the pier longer than the pier on the manuscript and with a red addition from an detached position taken by the hydrographer. This red addition is also shown on the present survey. It is recommended that this pier be charted as shown on the present survey.

3. HYDROGRAPHY

- a. Soundings at crossings are in excellent agreement and comply with the criteria found in sections 4.6.1 and 6.3.4.3. of the HYDROGRAPHIC MANUAL.
- b. The standard depth curves could not be drawn in their entirety; the zero (0) curve was not delineated because of vessel safety. Supplemental three (3) and twenty-four (24) foot curves were drawn to show additional bottom relief. Additionally, some brown and dashed curves were also drawn to delineate bottom relief.
- c. The development of the bottom configuration and determination of least depths is considered adequate with the following exception:

The obstruction located in, Latitude 29°53'56.4"N, Longitude 85°27'48.8"W, should have been further developed with additional lines of hydrography and a least depth determined using a lead line.

4. CONDITION OF SURVEY

The smooth sheet and accompanying overlays, hydrographic records and reports are adequate and conform to the requirements of the HYDROGRAPHIC MANUAL with the following exceptions:

- a. The hydrographer noted a junctional holiday between the present survey and H-9734 (1977) and H-9915 (1980). The hydrographer's reason for the holiday was that the "holiday was discovered after hydrography was completed...". Hydrography is not complete until all of the requirements found in the Project Instructions have been met. It is most important for the hydrographer to examine the data acquired in the survey area with junctional data provided by Headquarters or the marine center for any holidays or deficiencies prior to departure from the survey area and not at some later date. It should be noted that, in this case, junctional data was provided by the marine center.
- b. A <u>fourteen (14) foot dangerous obstruction</u> was found on the present survey during field operations; however, the hydrographer failed to prepare a report for a Notice to Mariners for this danger to navigation. A letter for a notice to mariners was prepared at the Atlantic Marine Center during office processing and forwarded to the Aids to Navigation office, Eighth Coast Guard District on 7 July 1983. A copy of the letter is appended to the Descriptive Report.
- c. The hydrographer's comments concerning daily electronic control correctors and baseline calibrations on page 6 of the Descriptive Report are confusing. An evaluation of the

baseline corrector data and daily system check data during office processing determined that the daily system check data would be used for the final electronic correctors. The daily system check data was applied to the survey data during office processing.

- d. A dive report was not submitted by the hydrographer for the dive operations conducted on 25 March 1983. Section 7.13. of the Project Instructions outlines the requirements for information submitted concerning dive operations.
- e. The hydrographer used three (3) different RAYTHEON fathometers on vessel number (VESNO) 1283. There were no bar checks taken using fathometer 5881. Two (2) out of a possible ten (10) bar checks were taken with fathometer 9947 and eleven (11) out of a possible twenty (20) bar checks were taken using fathometer 6211. This does not meet the criteria found in section 1.5.2 for twice daily bar checks. Additionally, bar checks are used not only for velocity correctors but also for instrument error determination. Without these data it is not possible to determine if there was instrument error for fathometer 5881.
- f. The spacing between soundings exceeded the six (6) millimeter criteria found in section 1.4.6. of the HYDROGRAPHIC MANUAL. In this case, the distance in excess of the maximum allowable spacing is not considered sufficient to degrade the overall quality of the survey.
- g. Velocity corrector tables were not correct as submitted by the field unit. Additional values had to be picked off of the the velocity graphs to provide complete velocity tables.
- h. The hydrographer failed to make a comparison with prior survey H-1511b (1881-82). Section 6.10.1. of the Project Instructions was deficient because this prior survey was not included on the list of prior surveys.
- i. It would have been desirable to have delineated the extent of the wreck found in Latitude 29°53'56.6"N, Longitude 85°27'47.9"W.5.7 This delineation would have complimented the least depth found by the divers and provided a more complete portrayal for charting.
- j. The hydrographer ran the range on Port St. Joe Entrance Channel but noted that it was too "hazy". No other records indicate whether the hydrographer ran the range at a later date. Section 4.2.3.1. of the Project Instructions outlines this requirement.
- k. The hydrographer states that there are no fixed aids to navigation in the survey area. This is true; however, section 4.2.3.1. of the Project Instructions requires that all fixed aids in the "project area" should be located. Even though

these aids may have been located in 1981 and 1982 it is imperative that the aids be checked to ensure that they have not been relocated.

- 1. The field records submitted by the field unit were well annotated.
- m. The scanning of the fathograms by the field unit was excellent.

5. JUNCTIONS

H-9734 (1977) to the southwest H-9915 (1980) to the west H-9996 (1982) to the east

Standard junctions could not be effected with the junctional surveys. The junctional surveys are archived at National Ocean Service (NOS) Headquarters, Rockville, Maryland. Any desired adjustments to the depth curves on these surveys in the junctional areas will be made at headquarters. Differences in curves must be resolved by the chart compiler on the nautical charts.

A junctional holiday exists between the present survey and H-9734 (1977), in Latitude 29°55'30"N, Longitude 85°29'40"W. Discussions of this holiday are found in section J. of the hydrographer's Descriptive Report and in section 4.a. of this report. It is not felt that this holiday is so great that it degrades the overall quality of the present survey.

A. COMPARISON WITH PRIOR SURVEYS

H-1265a (1875) 1:20,000 H-1511b (1881-82) 1:40,000

The two (2) prior surveys listed above cover the present survey area in its entirety.

Survey H-1265a (1875) covers the majority of the present survey area. The present survey is generally in good agreement with the prior survey. Depth generally vary from zero (0) to plus or minus (+/-) one (1) to three (3) feet. Notable exceptions are:

- a. Thirty-two (32) foot depths in a depression area on the prior survey in Latitude 29°53'50"N, Longitude 85°26'12"W that are eighteen (18) to twenty-four (24) feet deeper than present survey soundings. This feature is migrating to the east.
- b. A finger like shoal on the prior survey in the vicinity of Latitude 29°56'00"N, Longitude 85°26'00"W with a least depth of thirteen (13) feet has migrated to the east approximately

500 meters. The shoalest depth on this feature found by the present survey is fourteen (14) feet.

The differences between the present and prior survey can be attributed to natural change in the bottom and technological advances in surveying.

The U. S. Army Corps of Engineers maintained Port St. Joe Entrance Channel was not in existence when the two (2) prior survey were conducted.

Survey H-1511b (1881-82) covers only a small portion of the northwest corner of the present survey. The present and prior surveys compare favorably in the common area with the present survey being slightly deeper. The exception is a shoal about 1.4 nautical miles long extending east-west on the prior survey with a least depth of four (4) feet in the vicinity of Latitude 29°57'18"N, Longitude 85°29'12"W. Present survey depths in the shoal area are seven (7) to fourteen (14) feet. These difference are attributable to natural processes.

The present survey is adequate to supersede the above prior surveys within the common area.

7. COMPARISON WITH CHART 11393 (13th Edition, June 19/82)

a. Hydrography

The charted hydrography originates with the previously discussed prior surveys, U. S. Army Corps of Engineers surveys and miscellaneous sources. The following should be noted:

- 1) The charted <u>pier</u> in approximate Latitude 29°56'54"N, Longitude 85°25'27"W is approximately sixty (60) meters longer as it is shown on the present survey. This pier is also found on junctional survey H-9996 (1982) and is also discussed in section 2.b. of this report. It is recommended that this <u>pier</u> be charted as shown on the present survey.
- 2) An uncharted obstruction with an echo sounder least depth of fourteen (14) feet was located in Latitude 29°53'56.6"N, Longitude 85°27'47.9"W. This obstruction is approximately 150 meters southeast of the charted dangerous sunken wreck, PA in Latitude 29°54'01"N, Longitude 85°27'51"W. The charted dangerous sunken wreck, PA is listed as Pre-survey Review item 13 in the original Project Instructions. Change Number 1, dated 1 October 1981, to the Project Instructions revised this wreck's designation to AWOIS item 2626. It is recommended that the charted sunken dangerous wreck, PA be deleted from the chart and the obstruction found on the present survey be charted.
- 3) An uncharted <u>wreck</u> was found by the hydrographer in Latitude 29°53'32.2"N, Longitude 85°27'59.7"W with a lead line

least depth of sixteen (16) feet. This wreck is approximately 930 meters southwest of the charted dangerous sunken wreck,PA discussed in the section above. It is the opinion of this report that this wreck is the charted sunken wreck in Latitude 29°54'01"N, Longitude 85°27'51"W as AWOIS item 2626. It is recommended that the wreck with a least depth of sixteen (16) feet found by the hydrographer be charted as shown on the present survey.

4) Bell Shoal extends as far south as Latitude 29°53'30"N on the chart. The southernmost end of Bell Shoal on the present survey extends to Latitude 29°54'00"N and is no longer a continuous feature. It is recommended that the Bell Shoal be charted as shown on the present survey.

The present survey except as noted above is adequate to supersede the charted hydrography in the common area.

b. Controlling Depths

There are no conflicts between the present survey depths and the tabulation for Port St. Joe Entrance Channel shown on the chart.

c. Aids to Navigation

The hydrographer located eight (8) floating aids to navigation in the survey area. These aids appear adequate to serve their intended purpose.

8. COMPLIANCE WITH INSTRUCTIONS

This survey complies with the Project Instructions except as noted in section 4. of this report.

9. ADDITIONAL FIELD WORK

This is a good basic survey. It is recommended that the junctional holiday mentioned in sections 4.a. and 5. of this report be completed at a convenient time. It may also be desirable to thoroughly investigate the <u>obstruction with a fourteen (14) foot least depth</u> found in Latitude 29°53'56.6"N, Longitude 85°27'47.9"W to obtain an adequate description of the obstruction.

Reginald L. Keene
Cartographic Technician
Verification of Field Data

Robert G. Roberson Supervisory Cartographer Evaluation and Analysis

Robert R. Hill

Senior Cartographic Technician

Verification Check

Inspection Report H-10069

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disproval of charted data. The digital data have been completed and all revisions and additions made to the smooth sheet during survey processing have been entered in the magnetic tape record for this survey. Final control, position, and sounding printouts of the survey have been made. The survey complies with National Ocean Service requirements except as noted in the Evaluation Report. The survey records comply with NOS requirements except where noted in the Evaluation Report.

Inspected

R. D. Sanocki

Chief, Hydrographic Surveys

Processing Section

Hydrographic Surveys Branch

David B. MacFarland, Jr., CDR, NOAA Chief, Hydrographic Surveys Branch

Approved: 31 January 1986

Wesley W. Hull, RADM, NOAA

Director, Atlantic Marine Center

DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

National Ocean Survey Rockville, Maryland Hydrographic Index No. 84 E н-9683 GEORGIA FLORIDA Complete through August 1978
1977-1978
JAMES ISLAND – CHOCTAWHATCHEE BAY ပ H-10069 Diagram# 1263-2 0 HYDROGRAPHIC SURVEYS Date 1977 1978 5 ပ

NOAA FORM 75-96 (10-83)

MARINE CHART BRANCH RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ___H-10069

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
- 1. Letter all information.
- 2. In "Remarks" column cross out words that do not apply.
- 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
11393	# 3-11-87	WA Fin	Full Paradottee After Marine Center Approval Signed Via
			Drawing No. 16, Full and complete, application to cht.
11389	3-11-87	Wi Finj	Full Para Bolore After Marine Center Approval Signed Via
	·	0.0	Drawing No. 43, Full and complete application to cht.
1360	7-19-90	Ed Martin	Full-Part Before After Marine Center Approval Signed Via
			Drawing No. 45 thru H389 drg 45
		`	Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
:			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
		·	Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via
	-		Drawing No.