

# 10428

# 10428

Diagram No. 1264-2

NOAA FORM 76-35A

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

## DESCRIPTIVE REPORT

Type of Survey ... Hydrographic  
Field No. ... AHP-10-7-92  
Registry No. ... H-10428

### LOCALITY

State ... Florida  
General Locality ... Choctawhatchee Bay  
Sublocality ... Hammock Point to  
Horseshoe Bayou  
1992  
CHIEF OF PARTY  
LT. T.R. Waddington

### LIBRARY & ARCHIVES

DATE ... August 16, 1993

★ U.S. GOV. PRINTING OFFICE: 1987-756-980

LANDMARKS/AID  
INFO

MADE INTO

L-1481(93)

CP-5  
11385 A'

11388 N.C.

HYDROGRAPHIC TITLE SHEET

H-10428

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.

AHP-10-7-92

State Florida

General locality Choctawhatchee Bay

Locality Hammock Pt. to Horseshoe Bayou

Scale 1:10,000 Date of survey May 19 - Sept 24, 1992

Instructions dated June 2, 1992 Project No. OPR-J259/AHP

Vessel NOAA Launch 0519

Chief of party Thomas R. Waddington, LT, NOAA

Surveyed by RWR, CP, DBE

Soundings taken by echo sounder, ~~hand lead pole~~

Graphic record scaled by RWR, DBE, CP

Graphic record checked by RWR

Verification by: R. Davies Automated plot by PHS Xynetics Plotter

Evaluation by: R. Davies

Soundings in ~~XXXXXX~~ meters ~~MLLW~~ MLLW decimeters

REMARKS: Time in UTC. Revisions and marginal notes in black were generated during office processing. All separates are filed with the hydrographic data, as a result page numbering may be interrupted or non-sequential.

*AWOR/CP 8/24/93 SJV*

*SC 1-3-97  
J.W.H. 12/13/93*



DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SURVEY H-10428  
Field No. AHP-10-07-92  
Scale:1:10,000  
Atlantic Hydrographic Party  
Chief of Party: Lt. Thomas R. Waddington, NOAA  
1992

A. PROJECT ✓

This survey was conducted in accordance with Hydrographic Project Instructions OPR-J259-AHP, Choctawhatchee Bay, Florida dated 3/9/92; these were amended by Change No. 1 dated 6/2/92; and Change No. 2 dated 9/30/92.

This survey is designated as sheet "D" in the project instructions.

The purpose of project OPR-J259-AHP is to obtain modern hydrographic data to revise existing nautical charts of Choctawhatchee Bay, Florida. Charted depths are based primarily on lead line surveys conducted in 1935 and 1936. The water traffic in the bay includes commercial vessels transiting via the Intracoastal Waterway System ( I.C.W. ), fishing vessels and pleasure boats.

B. AREA SURVEYED ✓ See EVAL Report, section 1

The area surveyed for H-10428 is Choctawhatchee Bay, Florida; Hammock Point to Horseshoe Bayou. The geographic limits are as follows:

North - Latitude	30° 28' <sup>1</sup> / <sub>39</sub> 50" N
South - Latitude	30° 22' 15" N
East - Longitude	086° 16' 30" W
West - Longitude	086° 21' <sup>18</sup> / <sub>18</sub> 50" W

This survey was conducted from 5/19/92 (DN 140) to 9/24/92 (DN 268).

C. SOUNDING VESSEL ✓

NOAA launch 0519 (EDP No. 0519), a 21-foot Mon Ark, was used to collect all data on this survey. On 6/20/92 the engine on Launch 0519 was replaced with a newer model Evinrude 150-HP outboard. New settlement and squat and speed trials were run at this time, and although no major changes were detected, a new HDAPS offset table was created. The static draft was also checked at this time, and found to be the same as with the old engine.

D. AUTOMATED DATA ACQUISITION AND PROCESSING ✓

A list of all Hewlett-Packard HDAPS Programs used can be found in Appendix VI.\* Version 3.6 of the PC-DAS suite of programs was used for on-line data acquisition on the survey vessel. In addition to the HDAPS, the following non-HDAPS computer programs were used:

VELOCITY (IBM PC)	1.11	3/9/90
MTEN3 with enhancements (IBM PC)		6/88
NADCON (IBM PC)		Ver. 1.01
WORDPERFECT (IBM PC)		Ver. 5.1

E. SONAR EQUIPMENT ✓

Not applicable.

F. SOUNDING EQUIPMENT ✓

An Innerspace model 448 depth sounder, S/N 186 was used to collect all echo soundings on this survey.

A standard lead line calibrated in meters, S/N 0519, was used during this survey for comparison readings with the echo sounder. A 5-meter long, wooden sounding pole, constructed according to HSG. No. 69, was used to obtain all pole soundings.

No problems were encountered with any of the sounding equipment. Depths encountered in the survey area range from 0.6 to 8.1 meters (Position 667).<sup>4</sup>

G. CORRECTIONS TO ECHO SOUNDINGS ✓

Corrections for the speed of sound through the water column were computed from data obtained with an Odom Hydrographic Systems Inc., Digibar Model DB1100 speed of sound probe, S/N 155. This instrument was calibrated by the manufacturer on 2/21/92. A copy of this calibration may be found in the Separates, section IV.\*

Program "Velocity" was used for computing the speed of sound correctors. Speed of sound corrections were applied to the final field sheet soundings using the HDAPS "Reapply Depth Correctors" function. Copies of the tables and support documentation are in the Separates, section IV.\* *See EVAC Report, section 1*

\* Filed with the hydrographic data.

The following speed of sound casts were taken on this survey:

Cast #	DATE(DN)	Latitude	Longitude	Actual Depth
1	5/19/92(140)	30° 26.0'N	086° 22.0'W	6m
2	6/02/92(154)	30° 25.5'N	086° 22.5'W	7m
3	6/09/92(161)	30° 26.0'N	086° 24.0'W	7m
4	6/17/92(169)	30° 26.0'N	086° 24.0'W	7m
5	6/24/92(176)	30° 26.0'N	086° 24.0'W	7m
6	7/16/92(198)	30° 26.0'N	086° 20.0'W	6m
7	8/04/92(217)	30° 27.0'N	086° 16.5'W	5m
8	9/08/92(252)	30° 27.0'N	086° 18.2'W	6m
9	9/23/92(267)	30° 26.0'N	086° 25.7'W	9m

The following table shows the recommended tables to be used for final processing at the Pacific Hydrographic Section:

Cast No.	Table No.	Use for Days
1	1	140 - <sup>147</sup> 150
2	2	<sup>148</sup> 154 - 156
3	3	161 - 162
4	4	168 - 170
5	5	176 - 178
6	6	195 - 206
7	7	216 - 235
8	8	252 - <sup>262</sup> 266
9	9	267 - <sup>278</sup> 278

Lead line comparisons were taken daily to determine instrument error. No instrument error was observed. The lead line comparison log is included in the Separates, section IV. The lead line was calibrated on 5/1/92 with a steel tape. No corrections were necessary. A copy of the calibration form can be found in the Separates, section IV.\*

A static draft of 0.3 meters was applied to the final field sheet soundings using the HDAPS "Reapply Depth Correctors" function. The draft was measured by subtracting the difference from a punch mark on the side of launch 0519, 0.6 meters above the transducer, to the water surface.

Settlement and squat measurements for vessel 0519 were performed on 5/1/92 (offset table 2) and on 6/23/92 (offset table 4) using the level method. Settlement and squat correctors were applied to the final field sheet soundings using the HDAPS "Reapply Depth Correctors" function. Data from the settlement and squat test are included in the Separates, section IV.\*

\* Filed with the hydrographic data

The final field sheet was plotted using predicted tides determined from Pensacola, Florida, with correctors designated in section 5.9 of the project instructions. Wind conditions during this survey (i.e., speed and direction), had a far greater effect on the true water levels than did normal tidal action. This resulted in generally higher water levels during periods of southerly winds, and lower water levels during periods of northerly winds. Minor variances (<0.1m) in some inshore development lines are believed to be due to these wind-driven water-level anomalies.

Approved water levels were requested from the Product and Services Branch, N/OES231, in a letter dated 10/16/92. A copy is included in Appendix V\* of this report.

#### H. CONTROL STATIONS ✓

The horizontal control datum for this project is the North American Datum of 1983. A copy of the HDAPS Control Station Table is included in ~~Appendix III~~ of this report.

Three horizontal control stations, GRASSY TEMP, and Choctawhatchee Bay Lights 47 and 49 (numbers 053, 021, and 056) listed in the control station table submitted with this survey, were established with GPS by AHP personnel. The horizontal control report for these and other positions also established were submitted to N/CG23322 in October 1992.

Three horizontal control stations, ALBERT, JIM, and CENTEL (numbers 001, 037, and 057) listed in the control station table submitted with this survey, were recovered as described in the horizontal control package provided by N/CG23.

The control network set up for hydrography on sheets "D", consisted of the following:

NW.....Code No.4.....Station No.037...: Jim, 1987  
N.....Code No.1.....Station No.053...:Grassy Temp  
Mid.....Code No.2.....Station No.021...:CBL"49", 1992  
SW.....Code No.3.....Station No.001...:Albert, 1988  
E.....Code No.6&5.....Station No.056...:CBL"47", 1992  
S.....Code No.4.....Station No.057...:CENTEL, 1976  
*Stations 001, 022, 037 and 056 are beyond the sheet limits.*

Note: 1) "CBL" stands for "Choctawhatchee Bay Light".

*Stations 21, 53 and 57 are on the smooth sheet.*

*\* Filled with the hydrographic data.*

## I. HYDROGRAPHIC POSITION CONTROL ✓

### Survey Methods ✓

The PC-DAS least squares positioning algorithm, using three to four ranges from the Motorola Mini-Ranger Falcon 484 system, was used for hydrographic position control during most of this survey. Because of limited visibility and inadequate control, See Field Sheet hydrography was run in Buck, Mack, and Hewett Bayous.

The following Falcon Mini-Ranger equipment was used:

<u>VESNO</u>	<u>EQUIPMENT</u>	<u>S/N</u>	<u>CODE</u>	<u>corr</u>
0519	RPU	E0146		
	R/T	E2951		
	R/S	F3298	1	-8.5
	R/S	C2075	2	-2.4
	R/S	E2911	3	-2.5
	R/S	E2959	4	-0.4
	R/S	C2091	5	-1.0
	R/S	E2922	6	-8.1
	R/S	C2058	4	-8.0

### Critical System Checks ✓

When using three or four lines of position, the error circle radius (ECR) and the residual values computed by the survey computer provide a critical system check each second. When the ECR is greater than 15 meters (1.5m at the survey scale) or the residuals are greater than 5 meters (0.5m at the survey scale) for extended time periods, survey operations are suspended in the area until the problem can be resolved. Position data exceeding the 1:10,000 scale specifications were edited.

### Mini-Ranger Falcon Calibrations ✓

Opening baseline calibrations were performed on 4/30/92 (DN 121). Two replacement reference stations were baselined on 7/8/92 (DN 190); one of these replacement units was assigned the same code (4) as an original unit which had failed. Baseline correctors were incorporated into the Complex C-0 table number two, and applied directly to all on-line data. All records of these calibrations and the "Daily Header Abstracts" are included in the Separates, section III.\* A closing baseline calibration was not performed since the survey was conducted in less than a six month period from the opening baseline.

\* Filed with the hydrographic data.



J. SHORELINE *See EMAC Report, section 2*

Shoreline shown on the final field sheet was transferred by hand from TP-00338. This shoreline manuscript was originally compiled on NAD 1927 at 1:20,000 scale and then enlarged to 1:10,000 scale for use with this survey. This manuscript was revised using 1991 Nanci source data; in some instances within this survey area, these Nanci-source revisions were accompanied by the note, "Spotty Source Data". This shoreline was transferred by hand onto the boat and final field sheets by computing conversion tick marks for NAD 27 to NAD 83, as per 3.1.1.1. of the project instructions. *It was also transferred this way to the smooth sheet.*

Shoreline verification was accomplished during inshore hydrographic data acquisition and by visual inspection. Verified shoreline is shown in black ink and any changes are drawn in red ink on the final field sheet. Charted shoreline should be superseded by shoreline from TP-00338, unless otherwise noted during this survey.

► The shoreline from latitude  $030^{\circ}32'32''\text{N}$ , longitude  $086^{\circ}20'00''\text{W}$ , to latitude  $030^{\circ}28'36''\text{N}$ , longitude  $086^{\circ}19'51''\text{W}$ , varies from that depicted on the shoreline manuscript. The shoreline features in this area were found to be located north by approximately 10 to 15 meters from those shown on the T-sheet. This is an area in which the T-sheet contains the "Spotty Source Data" remark. The changes reflected in red are believed to most accurately depict this area. Three detached positions were obtained within this area (Positions 1091-1093) to help facilitate these changes. *This shoreline is drawn in red on the smooth sheet.*

► A new boat ramp was recently constructed at latitude  $030^{\circ}28'36''\text{N}$ , longitude  $086^{\circ}19'51''\text{W}$  (Position 1093). *This is included in the above shoreline*

► Two of the three pier ruins, shown at latitude  $30^{\circ}27'56''\text{N}$ , longitude  $086^{\circ}21'09''\text{W}$ , were found not in ruins; these features were also found to have their offshore points located closer to shore than that depicted on the T-sheet. The third pier was found in ruins, though it was located 40m east of where it is shown on the T-sheet. These items are also located in an area in which the T-sheet contains the "Spotty Source Data" remark. Positions were obtained on the offshore ends of these features (Positions 1084-1086), and visual searches were conducted along their offshore ends to check for the existence of any submerged ruins. Water visibility was excellent to the Bay bottom well-offshore of these piers, and no signs of any additional ruins were found. *Chart as depicted on the smooth sheet. Positions for piers and ruins are listed in section 2 of the EMAC Report.*

► A new pier was located at latitude  $30^{\circ}24'15''\text{N}$ ,  $086^{\circ}19'26''\text{W}$  (Position 1021). *Shown in red, also listed in section 2 of EMAC Report.*

► The dock facility located in Horseshoe Bayou (R-003), was found to be depicted accurately on the T-sheet; see discussion under Section N for detail.

► Two new piers with covered boatslips, were located at latitude  $30^{\circ}28'46''N$ , longitude  $086^{\circ}16'52''W$  (Position 2895), and latitude  $30^{\circ}28'43''N$ , longitude  $086^{\circ}17'01''W$  (Position 2896); both bare four meters. *Shown in red on the smooth sheet.*

► One canal depicted on the manuscript located in Hewett Bayou, was found to be closed off and is now impassable; the approximate position is latitude  $30^{\circ}23'52''N$ , longitude  $086^{\circ}17'04''W$ . *Shown in red on the smooth sheet.*

Field notes are located on the field sheet, the graphic records, and in the Daily Log, all included as part of this survey. Also, reference number descriptions, explanations of existing shoreline features, and photographs of various features are located in the Daily Log.\*

#### K. CROSSLINES ✓

A total of 32 linear nautical miles of cross-lines were run on H-10428; this is more than 8% of the main scheme hydrography. Cross-line and main scheme soundings agree within 0.2 meters.

#### L. JUNCTIONS *See EVAL Report, section 5*

This survey junctions with on-going survey H-10427 to the west and upcoming survey sheet "E" to the east, both 1:10,000 scale surveys from OPR-J259-AHP to be completed in the coming months. Shoreline borders the north and south sides of the sheet. Initial comparisons between this survey and H-10427 indicate good agreement between soundings and depth curves.

*Sheet E = H-10448*

#### M. COMPARISON WITH PRIOR SURVEYS *See EVAL Report, section 6*

This survey was compared to the following prior survey:

<u>Survey No.</u>	<u>Scale</u>	<u>Year</u>
H-6448	1:10,000	1939
H-5869	1:20,000	1935

One of the AWOIS items (AWOIS 6888) addressed as part of this survey originated from the prior survey.

The following was noted during comparison:

► Bottom samples acquired on this survey agreed well with the prior survey. *CMW*

\* Filed with the hydrographic data.

- ▶ In general soundings acquired during H-10428 were found to be less than 1 meter deeper than the prior survey. *concur*
- ▶ A 1:40,000 scale plot was made with H-10428 survey data plotted in feet; this allowed a more comprehensive comparison which revealed no significant changes in the depth contours or soundings.
- ▶ Shoreline shown on H-6448 is notably different than that presently existing; the shoreline depicted on TP-00338 accurately represents existing shoreline, with the exception of the changes noted in section "J" of this report. *concur*
- ▶ AWOIS 6888, was found to still be in existence and located at latitude 030°25'24"N, longitude 086°19'20"W. See the Item Investigation Reports in Appendix VI for details. *attached to this report.*
- ▶ A charted Snag was found originating from the prior survey, however was not included in the AWOIS list. A 50m-radius diver circle search was conducted about position latitude 030°23'22"N, longitude 086°19'57"W, on DN 177; nothing was located. A wide area visual search was also conducted in water with excellent visibility; no signs of any obstructions or snags were identified. We recommend that this charted "snag" be removed from the charts (Position 1242). *concur*

N. COMPARISON WITH THE CHART *See Envr Report, section 7*

Comparisons were made with the following largest scale charts covering the survey area:

Chart No.	Scale	Edition	Date
11385SC	1:40,000	20th	November 23, 1991
11388	1:80,000	15th	January 4, 1992 <i>-(NO SOUNDINGS)</i>

Chart 11385SC was enlarged to 1:10,000 scale for use with this survey. This chart enlargement is included with this survey. In general, charted soundings were found to be 0.3 meter (1 ft) shallower than this survey. *concur*

Six AWOIS items fall within the limits of and are addressed on this survey. All item investigation information can be found on the Item Investigation Forms in <sup>attached to</sup> ~~Appendix VI~~ of this report, on the Final Field Sheet, and in the Daily Log; it is recommended that all three of these documents be used when addressing any AWOIS investigation.

The coordinates and descriptions of all positioned items can be found in the "DP/REMARKS" printouts, which are included with the survey data.

\* Filed with the hydrographic data.

The following items were found to be "Dangers to Navigation":

►The charted visible wreck located at latitude 30°27'39"N, longitude 086°18'12"W (Positions 1248 and 1249) is a prominent, long-term feature in 5 to 6 meters of water, which is mostly covered at MLLW. Because of the surrounding water depths and its large extent, we feel that a lighted wreck buoy may be warranted to mark this feature. This feature was addressed in the Danger to Navigation letter dated 8/26/92 found in ~~Appendix I~~<sup>attached to this report</sup>, and is pictured in the Daily Log.\* Investigation information for this item can be found under the Report for AWOIS 6892 in ~~Appendix VI~~<sup>attached to this report</sup>.

►An iron I-beam, bearing 1.0 meter at <sup>MHW</sup>MLLW was found at latitude 30°28'17.1"N, longitude 086°18'22.0"W (Position 2578). This feature was addressed in the Danger to Navigation letter dated 8/26/92 found in ~~Appendix I~~<sup>this report</sup>, and is pictured in the Daily Log.\* <sup>chart as pipe at the above position</sup>

►A submerged truck cab approximately 8'x4' and covered by a depth of 0.2 meters at MLLW was located at latitude 30°25'37.0"N, longitude 086°18'43.95"W (Position 2675). This feature was addressed in the Danger to Navigation letter dated 8/26/92 found in ~~Appendix I~~<sup>attached to this report</sup>, and is pictured in the Daily Log.\* <sup>Chart as an obstruction awash (truck cab) at the above position.</sup>

#### O. ADEQUACY OF SURVEY ✓

This survey is a complete basic hydrographic survey and is adequate to supersede all prior surveys within the common area. *correct*

#### P. AIDS TO NAVIGATION *See Encl Report, section 7*

There were no floating aids to navigation located within the limits of hydrography. All of the following references made to the USCG Light List (USCGLL) were made from Vol. IV, 1992 edition.

Choctawhatchee Bay Light "49" (USCGLL No. 29940), which falls within this survey, was located to third-order, class I standards using Ashtech M-XII receivers. The unadjusted field position for this navaid is latitude 30°25'42.64540"N, longitude 086°18'47.11440"W; this agrees well with the Light List position.

The only other navigation aids which fall within this survey, are privately maintained and are associated with the Sandestin Beach Channel. Two of these previously charted aids, the Sandestin Beach Light (USCGLL No. 29945) and the Sandestin Beach Safe Water Lighted Buoy "SB" (USCGLL No. 29950), have been removed and are not scheduled to be replaced. These missing navigation aids were addressed in a letter to the USCG dated 6/1/92, found in ~~Appendix I~~<sup>this report</sup>. The Sandestin Beach Channel Daybeacon 5 (USCGLL No. 29975) is in ruins (photo included in Daily Log)\* and may or may not be repaired.

\* Filed with the hydrographic data

Two charted, privately-maintained navigation aids, Sandestin Beach Light and Sandestin Beach Safe Water Lighted Buoy "SB", have been removed and are not scheduled to be replaced. Also, the charted breakwater in Horseshoe Bayou was never constructed and the existing dock facility (Baytowne Marina) is different than charted. Baytowne Marina is accurately depicted on the T-sheet and on a diagram provided in Appendix VI.\* In addition, the Sandestin Beach Channel into Horseshoe Bayou is marked with numerous privately-maintained channel markers, only five of which are charted. Because of their close proximity to one another, it may not be possible to chart all of these markers; however, it appears as if this channel could be more accurately depicted by at least charting all of the lighted channel markers (Lights 1, 2, 3, 4, 13, 14, 21, and 22). Hydrographic positions were obtained on all of these markers and pictures are provided in the Daily Log.\*

CHART as shown on S.S.

consult

See Encke Report, section 7

Two charted cautionary remarks fall within the area of this survey; one at approximate latitude  $30^{\circ}25'N$ , longitude  $086^{\circ}17'W$  states, "CAUTION - Numerous iron pipe stakes exist within outlined area" and another at approximate latitude  $30^{\circ}24'N$ , longitude  $086^{\circ}20'W$  states "CAUTION - Numerous piles exist within outlined area". Within the first outlined area, two visible piles were located and positioned with hydrographic fixes (Positions 3001-2) and no visible iron pipe stakes were identified. Within the second outlined area, four visible piles were located and positioned with hydrographic fixes (Positions 1053-56). Because of the area encompassed by these remarks, we had no economic means of searching for potentially submerged stakes and piles. With no additional source data available and with no reliable local source with knowledge of these piles or stakes, we recommend that the cautionary notes be removed and that the piles identified during this survey be charted.

Do not consult

See Encke Report, section 7

All of the northern portions of this survey fall within a charted, magenta-outlined prohibited area (Chart annotation: "Prohibited Area 334.700 - See Note A"). Mr. Leland Wamsted, USPS District 15 Cooperative Charting Chairman, has pursued this matter extensively with the Air Force over the last few years and has resolved that the prohibited designation is no longer valid. A copy of a letter from the Air Force stating its position, and some other supporting documents are included in Appendix VI. Based upon this correspondence and our work in this area, we recommend that the outlined areas be re-designated as restricted, which implies that navigation within those areas may be controlled at sometime. During the course of our field work, we observed pleasure and commercial boats routinely navigating in these areas.

consult

Numerous depressions were encountered throughout the northern portions of this survey, falling within the previously discussed prohibited area. We are relatively certain that these depressions are craters associated with past Air Force bombing practice which has been conducted throughout this area.

\* Filled with the hydrographic data

Hydrographic positions have been obtained on the remaining Sandestin Beach Channel markers, most of which adequately serve to mark the entrance into Baytowne Marina. Most of these aids are accurately described in the Light List (Markers 1-22), except for Markers 11 and 12 (USCGLL Nos. 30005,10) which are Daybeacons and Markers 13 and 14 (USCGLL Nos. 30015,20) which are Lights; no Light List positions are provided for any of these markers. In addition to the channel markers into Baytowne Marina, there are six additional markers (Markers 23, 24, 25, 26, 28, and 30) which lead further up Horseshoe Bayou and were not found to mark any discernable channel; only Daybeacon 23 was described in the Light List. Probably because of their close proximity to one another, most of the Sandestin Beach Channel markers have not been charted. Specific charting recommendations for these markers are included in Section N<sup>P</sup> of this report. All of the existing Sandestin Beach Channel markers are listed on the attached Form 76-40. *See Form Report, Section 7*

There were no bridges, overhead cables, overhead pipelines, or ferry routes within the limits of this survey.

#### Q. STATISTICS ✓

<u>Description</u>	<u>Quantities</u>
Total Positions	3259 2983
Total Nautical Miles of Hydrography	413.0
Total Nautical Miles of Chain drag	21.6
Sq. Nautical Miles of Hydrography	18.0
Days of Production	31
Detached Positions	180
Bottom Samples	68
Tide Stations	6
Current Stations	0
Velocity Casts	9

#### R. MISCELLANEOUS ✓

Bottom samples were taken as directed in Section 6.7 of the project instructions. Bottom sample positions and descriptions are plotted on the overlay submitted with this survey, and are listed on the Oceanographic Log Sheet-M, NOAA Form 75-44, which is included in the Separates, section II.\* A symbol resembling a grab sampler was used to show the location of the samples on the final field sheet overlay.

It should be noted that the sounding vessel used for this survey is limited by draft to approximately 0.6 meters on the keel line and is therefore limited in its ability to acquire sounding data in areas shallower than 0.6 meters.

Tidal currents were found to be minimal.

\* Filed with the hydrographic data.

S. RECOMMENDATIONS ✓

Specific recommendations concerning this survey are made in sections J and N of this report. No inadequacies, additional work, nor further investigations were identified after field work was completed. *concl*

T. REFERRAL TO REPORTS ✓

<u>Titles</u>	<u>Transmittal Information</u>
Horizontal Control Report for OPR-J259-AHP	Field Photogrammetry Section Norfolk, VA, N/CG23322
(1992) Descriptive Report to Accompany Survey H-10427	Pacific Hydrographic Section N/CG 245, Seattle, WA
Chart Sales Agent Report for OPR-J259-AHP2	Chart Distribution Branch (N/CG33) Rockville, MD (1992)
User Evaluation Report OPR-J259-AHP2	Atlantic Hydrographic Section (N/CG244) Norfolk, VA (1992)
Chart Inspection Report OPR-J259-AHP2	Atlantic Hydrographic Section (N/CG244) Norfolk, VA (1992)
Coast Pilot Report	Pacific Hydrographic Section (N/CG245) Seattle, WA (1992)

Submitted By: ATLANTIC HYDROGRAPHIC PARTY

AWOIS NO:6887

Item Description: Visible pile

Source: Unknown

AWOIS Position: Lat - 30/23/38.71N Lon - 086/20/04.80W

Required Investigation: BD, DI, VS - 200m radius

Affects Chart: 11385

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#### INVESTIGATION

Date(s)/DN(s): 6/9/92 (DN:161)

Position Numbers: 1055

Launch Number: 0519

Investigation Used: VS

Water Visibility: To Bottom (>2m)

Position Determined By: Falcon Multiple Range (R/R)

Investigation Summary: A 4"-diameter wooden pile baring 0.7<sup>9</sup>m was located visually within the required search area. Position 1055 was taken on this pile and a photograph is provided in the Daily Log.

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#### CHARTING RECOMMENDATION

The hydrographer recommends that a Visible Pile be charted at the position listed below.

*concur*

Recommended Position: Lat - 30/23/43.8<sup>4</sup>N Lon - 086/20/00.9<sup>3</sup>W

Recommended Least Depth: Bares 0.6<sup>9</sup>m at <sup>MHW</sup>MLLW

\*\*\*\*\*

#### COMPILATION NOTES

Chart

Applied As



AWOIS NO:6888

Item Description: Submerged Dangerous Wreck

Source: H5869/35-OPR#196-34

AWOIS Position: Lat - 30/25/23.71N Lon - 086/19/19.80W

Required Investigation: VS, BD, DI -- 100m radius

Affects Chart: 11385

---

INVESTIGATION

Date(s)/DN(s):6/25/92 (DN:177)

Position Numbers: 1246

Launch Number: 0519

Investigation Used: VS, DI

Water Visibility:To Bottom (>2m)

Position Determined By: Falcon Multiple Range (R/R)

Investigation Summary: The wreckage was located visually on 6/18/92 near the AWOIS position. A dive investigation was then conducted on 6/25/92 to determine the extent of the wreckage. Divers found a deteriorated steel boiler in 1.5m of water covering an approximately 5m radius area. A sounding pole least depth of 1.1m was obtained and Position 1246 was taken on this point. <sub>0.8</sub>

---

CHARTING RECOMMENDATION

The hydrographer recommends that a Submerged <sup>wreck</sup> ~~Obstruction~~ be charted at the position below and that the currently charted Submerged Wreck be removed.

Recommended Position: Lat - 30/25/24.4<sup>2</sup>N Lon - 086/19/20.37<sup>W</sup>

Recommended Least Depth: 0.8m at MLLW

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

AWOIS NO:6889

Item Description: "Shoaling Reported" notation near Light 49

Source: CL1386/81--USPS

AWOIS Position: Lat - 30/25/42.71N Lon - 086/18/45.80W

Required Investigation: ES -- 100m radius

Charts Affected: 11385

INVESTIGATION

Date(s)/DN(s): 6/26/92 and 9/8/92 (DN:178 and 252)

Position Numbers:1247, 2722-2758 Launch Number: 0519

Investigation Used: DI, ES Water Visibility: >2m

Position Determined By: Falcon Multiple Range (R/R)

Investigation Summary: On 6/26/92 a 75m-radius diver circle search was conducted about Choctawhatchee Bay Light 49 located in the vicinity of the reported shoaling. No snags or indications of shoaling were found during this search. Additionally, on 9/8/92 development sounding lines were run at 50m intervals throughout this vicinity and no indications of shoaling were observed.

CHARTING RECOMMENDATION

The hydrographer recommends that the charted Shoaling notation be removed, and that the survey soundings and contours be applied to this area. *CONCLW*

Recommended Position: Lat - 30/25/45.N Lon - 86 / 18 / 58 .0 W

Recommended Least Depth: 0.9 m at MLLW

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

AWOIS NO:6890

Item Description: Submerged Obstruction (Origin - Radar Reflector Target)

Source: CL699/51-COE Permit, CL1130/80-CES 11385(1979)

AWOIS Position: Lat - 30/26/56.71N Lon - 086/19/24.80W

Required Investigation: BD, DI --200m radius

Charts Affected: 11385

---

INVESTIGATION

Date(s)/DN(s): 9/23/92 (DN:267)

Position Numbers: 3159-3246

Launch Number: 0519

Investigation Used: BD

Water Visibility: N/A

Position Determined By: Falcon Multiple Range (R/R)

Investigation Summary: On 9/23/92 a 200m-radius chain drag was conducted about the reported position; no snags were encountered. Minor depressions were noted on the echosounder trace during this bottom drag; these are suspected to be craters associated with past military bombing practice which has been conducted throughout this area. This feature was originally reported in 1951 and no indications of its continued existence were found.

---

CHARTING RECOMMENDATION

The hydrographer recommends that the Submerged Obstruction be removed from the chart. *concur*

Recommended Position: Lat - / / . Lon - / / .

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

AWOIS NO:6891

Item Description: Submerged Piles (Origin - 4 Visible Piles)

Source: T-5527/31, CL1130/80--CES 11385 (1979)

AWOIS Position: Lat - 30/27/52.71N Lon - 086/18/09.80W

Required Investigation: BD, DI -- 200m radius

Charts Affected: 11385

INVESTIGATION

Date(s)/DN(s): 6/26/92 and 9/22/92 (DN: 178, 266)

Position Numbers: 1250, 3076-3158 Launch Number: 0519

Investigation Used: BD,DI Water Visibility: >2m

Position Determined By: Falcon Multiple Range (R/R)

Investigation Summary: On 6/26/92 a 50m-radius diver circle search was conducted about the listed position; nothing was found. On 9/22/92 a 200m-radius chain drag was conducted about the reported position and again, no snags were encountered. These piles were originally reported in 1931 and no evidence of their continued existence was found.

CHARTING RECOMMENDATION

The hydrographer recommends that the Submerged Piles be removed from the chart. *concur*

Recommended Position: Lat - / / . Lon - / / .

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

AWOIS NO:6892

Item Description: Visible Wreck

Source: T-5527/31, CL1130/80--CES 11385(1979)

AWOIS Position: Lat - 30/27/38.71N Lon - 086/18/11.80W

Required Investigation: VS, BD, DI -- 150m radius

Charts Affected: 11385

-----  
INVESTIGATION

Date(s)/DN(s): 6/26/92 (DN:178)

Position Numbers: 1248-1249

Launch Number: 0519

Investigation Used: VS, DI

Water Visibility: >2m

Position Determined By: Falcon Multiple Range (R/R)

Investigation Summary: On 6/26/92 the wreck was identified visually and positions were obtained on the SW and the NE visible points; an inverse computation between these two positions show the wreck to be over 80m long and lying along a 015/195T heading. The Daily Log includes both a drawing and pictures of this wreck. A dive was also conducted to determine the submerged extent of the wreckage. The wreck lies on its keel in 5 to 6 meters of water largely intact between the two visible points. The area between the two visible points is mostly covered by less than 2.0m of water, and the foul areas extend approximately 15m off both sides of the centerline between these points. The stern (Position 1248) bares <sup>2.3</sup>2m, and the bow (Position 1249) bares 1m.

-----  
CHARTING RECOMMENDATION

The hydrographer recommends that the chart be revised to depict a partially visible Dangerous Wreck or Hulk located between the positions below. *CONCUR*

Recommended Position: SW Point: Lat - 30/27/38.70<sup>4</sup>N Lon - 086/18/13.20<sup>2</sup>W  
NE Point: Lat - 30/27/41.36<sup>6</sup>N Lon - 086/18/12.40<sup>2</sup>W

Recommended Least Depth: Visible bares 2.3m at MHW

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL	NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
101	...	...	...	...	...	101	...	...	...	...	...
102	...	...	...	...	...	102	...	...	...	...	...
103	...	...	...	...	...	103	...	...	...	...	...
104	...	...	...	...	...	104	...	...	...	...	...
105	...	...	...	...	...	105	...	...	...	...	...
106	...	...	...	...	...	106	...	...	...	...	...
107	...	...	...	...	...	107	...	...	...	...	...
108	...	...	...	...	...	108	...	...	...	...	...
109	...	...	...	...	...	109	...	...	...	...	...
110	...	...	...	...	...	110	...	...	...	...	...

ALL ABOVE USED.

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

Replaces C&GS Form 567.

TO BE CHARTED (Field Party, Ship or Office)  
 TO BE REVISED  
 TO BE DELETED

REPORTING UNIT: **AHP** STATE: **Florida** LOCALITY: **Choctawhatchee Bay** DATE: **10/92**

OPR PROJECT NO.: **I 259** JOB NUMBER: **AHP-10-7-92** SURVEY NUMBER: **H-10428**

The following objects HAVE  HAVE NOT  been inspected from seaward to determine their value as landmarks.  
(See reverse for responsible personnel)

CHARTING NAME	DESCRIPTION <small>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)</small>	DATUM		POSITION		METHOD AND DATE OF LOCATION <small>(See instructions on reverse side)</small>		CHARTS AFFECTED
		LATITUDE ° / ' / D.M. Meters	LONGITUDE ° / ' / D.P. Meters	OFFICE	FIELD			
** Light	Sundestin Beach Channel (SBC) FIG "1" (LL # 29955)	30-23	086-20	48.3'	11.5"	Falcon	11385 2/92 2045 Ed	
** "	SBC FIR "2" (LL # 29960)	"	"	46.3'	14.2"	"	"	
* "	SBC FIG "3" (LL # 29965)	"	"	45.5'	09.7"	"	"	
* "	SBC FIR "4" (LL # 29970)	"	"	44.8'	10.3"	"	"	
* Daybeacon	SBC G "5" (LL # 29975)	"	"	43.6'	07.4"	"	"	
* "	SBC R "6" (LL # 29980)	"	"	42.8'	07.9"	"	"	
** "	SBC G "7" (LL # 29985)	"	"	41.7'	05.1"	"	"	
* "	SBC R "8" (LL # 29990)	"	"	40.9'	05.4"	"	"	
* "	SBC G "9" (LL # 29995)	"	"	39.2'	02.1"	"	"	
* "	SBC R "10" (LL # 30000)	"	"	38.6'	02.5"	"	"	

\*\* TO BE CHARTED      \*\* TO BE REVISED      \* SEC 7-1481(03)

TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	Bob Ramsey, Hydrographer	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
F-511 JONS DETERMINED AND/OR VERIFIED	Tom Waddington, LT NOAA CORP, verified	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		OFFICE ACTIVITY REPRESENTATIVE
		<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'  
 (Consult Photogrammetric Instructions No. 64.)

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.  
 EXAMPLE: 75E(C)6042  
 8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

- F - Field
- L - Located
- V - Verified
- 1 - Triangulation
- 2 - Traverse
- 3 - Intersection
- 4 - Resection
- 5 - Field identified
- 6 - Theodolite
- 7 - Planetable
- 8 - Sextant

A. Field positions\* require entry of method of location and date of field work.  
 EXAMPLE: F-2-6-L  
 8-12-75

\*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions\*\* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.  
 EXAMPLE: P-8-V  
 8-12-75  
 74L(C)2982

II. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.  
 EXAMPLE: Triang. Rec.  
 8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.  
 EXAMPLE: V-Vis.  
 8-12-75

\*\*PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.



NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Replaces C&GS Form 567.  
 TO BE CHARTED (If Aid Party, Ship or Office)  
 TO BE REVISED  
 TO BE DELETED

REPORTING UNIT: **AHP** STATE: **Florida** LOCALITY: **Choctawhatchee Bay** DATE: **10/92**

OPR PROJECT NO.: **I 259** JOB NUMBER: **AHP-10-7-92** SURVEY NUMBER: **H-10428** DATUM: **1993**

The following objects HAVE  HAVE NOT  been inspected from seaward to determine their value as landmarks. (See reverse for responsible personnel)

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
		° / ' / ''	D.M. Meters	° / ' / ''	D.P. Meters	OFFICE	FIELD	
* Daybeacon	SBC G "11" (LL# 30005) *	30-23	37.3"	086-19	59.7"	FALCON	11385 2/92 2045 ED	
" *	SBC R "12" (LL# 30010) *	"	36.7"	086-20	00.1"	"	"	
* Light	SBC FIG "13" (LL# 30015) *	"	35.2"	086-19	57.0"	"	"	
" **	SBC FIR "14" (LL# 30020) *	"	34.6"	"	57.5"	"	"	
* Daybeacon	SBC G "15" (LL# 30025)	"	33.2"	"	54.5"	"	"	
" *	SBC R "16" (LL# 30030)	"	32.5"	"	54.2"	"	"	
" *	SBC G "17" (LL# 30035)	"	31.2"	"	52.1"	"	"	
" *	SBC R "18" (LL# 30040)	"	30.6"	"	52.5"	"	"	
" *	SBC G "19" (LL# 30045)	"	29.1"	"	49.4"	"	"	
" *	SBC R "20" (LL# 30050)	"	28.5"	"	49.9"	"	"	

\* TO BE CHARTED \*\* TO BE REVISED

TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	Bob Ramsey	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
FISHINGS DETERMINED AND/OR VERIFIED	Tom Waddington, LT NOAA CORP, verified	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		OFFICE ACTIVITY REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'  
 (Consult Photogrammetric Instructions No. 64.)

OFFICE	FIELD (Cont'd)
<p>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</p> <p>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.</p> <p>EXAMPLE: 75E(C)6042 8-12-75</p>	<p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</p> <p>EXAMPLE: P-8-V 8-12-75 74L(C)2982</p>
<p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED</p> <p>Enter the applicable data by symbols as follows:</p> <p>F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant</p> <p>A. Field positions* require entry of method of location and date of field work.</p> <p>EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>II. TRIANGULATION STATION RECOVERED</p> <p>When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.</p> <p>EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</p> <p>Enter 'V-Vis.' and date.</p> <p>EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>

Replaces C&GS Form 567.

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

TO BE CHARTED (Field Party, Ship or Office)  
 TO BE REVISED  
 TO BE DELETED

REPORTING UNIT: **AHP**      STATE: **Florida**      LOCALITY: **Choctawhatchee Bay**      DATE: **10/92**

The following objects  HAVE  HAVE NOT  been inspected from seaward to determine their value as landmarks.  
 OPR PROJECT NO.: **I 259**      JOB NUMBER: **AHP-10-7-92**      SURVEY NUMBER: **H-10428**      DATUM: **1993**

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
		LATITUDE ° / ' / D.M. Meters	LONGITUDE ° / ' / D.P. Meters	OFFICE	FIELD			
** Light	SBC FI G "21" (LL# 30055)	30-23	27.2"	086-19	46.9"	FALCON		11385 2/92 2025 ED
" * "	SBC FI R "22" (LL# 30060)	"	26.5"	"	47.3	"	"	"
* Day beacon	SBC G "23" (LL# 30065)	"	11.0"	"	42.7	"	"	"
* Light	SBC R "24"	"	18.6"	"	46.7	"	"	"
* Day beacon	SBC G "25"	"	07.8"	"	41.6"	"	"	"
" * "	SBC R "26"	"	13.5"	"	46.1"	"	"	"
" * "	SBC R "28"	"	10.5"	"	47.8	"	"	"
" * "	SBC R "30"	"	14.4"	"	38.7	"	"	"

\* TO BE CHARTED      \*\* TO BE REVISED

TYPE OF ACTION		NAME		ORIGINATOR	
OBJECTS INSPECTED FROM SEAWARD		Bob Ramsey, Hydrographer		<input type="checkbox"/> PHOTO FIELD PARTY	
POSITIONS DETERMINED AND/OR VERIFIED		Tom Waddington, LT NOAA COOP, verified		<input checked="" type="checkbox"/> HYDROGRAPHIC PARTY	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES				<input type="checkbox"/> GEODETIC PARTY	
				<input type="checkbox"/> OTHER (Specify)	
				FIELD ACTIVITY REPRESENTATIVE	
				OFFICE ACTIVITY REPRESENTATIVE	
				<input type="checkbox"/> REVIEWER	
				<input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'  
(Consult Photogrammetric Instructions No. 64.)

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.

EXAMPLE: 75E(C)6042  
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

- F - Field
- L - Located
- V - Verified
- 1 - Triangulation
- 2 - Traverse
- 3 - Intersection
- 4 - Resection
- 5 - Field identified
- 6 - Theodolite
- 7 - Planetable
- 8 - Sextant

A. Field positions\* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L  
8-12-75

\*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions\*\* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.

EXAMPLE: P-8-V  
8-12-75  
74L(C)2982

II. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.

EXAMPLE: Triang. Rec.  
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.

EXAMPLE: V-Vis.  
8-12-75

\*\*PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS MUNITIONS SYSTEMS DIVISION (AFSC)  
EGLIN AIR FORCE BASE, FLORIDA 32542-5000

12 July 1989

Mr Leland D. Wamsted  
707 6th Street  
Destin FL 32541

Dear Mr Wamsted

The changes to the U.S. Coastal Pilot proposed by the Fort Walton Power Squadron have been reviewed. Changing the prohibited designation to restricted for the three areas identified in your letter is acceptable.

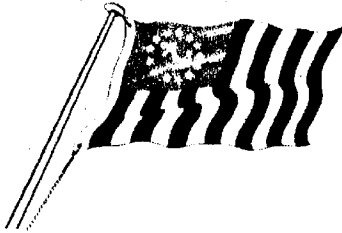
Attached is the coast pilot report citing the recommended changes. As discussed with Mr Setterberg, these are being returned for you to forward to the National Ocean Service, NOAA, to correct the affected pages. Please notify Mr Setterberg at 882-5669, when you have sent the changes to the National Ocean Service.

Sincerely

A handwritten signature in cursive script, reading "Glenn E. Messerli", is written over the typed name.

GLENN E. MESSERLI, Colonel, USAF  
Chief of Staff

1 Atch  
Coast Pilot Report



## FORT WALTON POWER SQUADRON

(A Unit of the United States Power Squadrons)

Chartered 1955

Leland D. Wamsted  
707 6th St.  
Destin, FL 32541

Fort Walton Beach, Florida

21 FEB 89

3246th Test Wing/DO  
ATTN: Mr. Don Setterberg  
Eglin Air Force Base, FL 32542

Dear Mr. Setterberg:

In accordance with our discussion in your office, 26 January, 1989, proposed changes to the United States Coast Pilot, Number 5, 1987, are attached.

The proposed changes convert the existing Prohibited Area (Coast Pilot #5 Para 334.700) on the North shore of Choctawhatchee Bay to a Danger Area, and the Prohibited Area (Coast Pilot #5 Para 334.730) in the Intercoastal Water Way narrows based on USC and GS Station Tuck 3 to a Restricted Area.

In addition, outdated command names and enforcement authority titles are updated.

Request your assistance in obtaining approval of these proposed changes. Upon approval please return the correspondence to me. If there are any questions, please contact me at 837-9203.

Sincerely yours,

*Leland D. Wamsted*

Leland D. Wamsted  
Chairman, Cooperative Charting

NOAA FORM 77-6  
(Rev. 3/87)

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

**COAST PILOT REPORT**

**PLEASE MAIL TO:**

Director  
National Ocean Service, NOAA (N/CG223)  
6001 Executive Boulevard  
Rockville, MD 20852-3806

This record of your experience and observations when coasting, entering port, and/or navigating inside channels will be used to update the Coast Pilot.

**OBSERVER: NAME AND ADDRESS**

Leland D. Wamsted

707 6th St

Destin, FL 32541

**DATE OF OBSERVATION**

Jan 1989

**DATE OF SUBMISSION**

Feb 1989

**VESSEL NAME AND ADDRESS**

Marge's Barge

707 6th St

Destin, FL 32541

**TELEPHONE NO.** 904-837-9203  
**(WORKING HOURS)**

**GEOGRAPHIC LOCATION**

*(refer to charted objects by distance and bearing and/or include latitude/longitude, as applicable)*

Choctawhatchee Bay Aerial Gunnery Ranges

United States Coast Pilot #5

Paragraphs 334.700, 334.710, 334.720,

334.730, 334.740, and 334.750

**CHART NUMBER**

11385 18th Ed 8 Aug 87

**COAST PILOT NUMBER AND YEAR**

#5 1987

**CHANGES TO EXISTING COAST PILOT TEXT**

Give recommended revised language for the book. Identify affected text by page, line number(s), and column (left or right). State the source of the information if other than personal observation.

Page 73.-Line 49/R; change to read

Armament Division,

Page 73.-Line 50/R; change to read

Eglin Air Force Base, FL (a) **T**he danger zones.

Page 73.-Line 60/R; change to read

ning.

(continued on back)

**CHANGES TO EXISTING COAST PILOT TEXT (continued)**

Page 73.-Line 61/R and 62/R

Delete

Page 74.-Line 7/L; change to read

aerial gunnery ranges in the west and north part of Choctawhatchee

Page 74.-Line 8/L; change to read

Bay(described in paragraphs (a) (1) and (a) (2) of this section) may be

Page 74.-Lines 21/L - 22/L - 23/L - 24/L

Delete

Page 74.-Line 26/L; change to read

shall be enforced by the Commander, *MUNITIONS SYSTEMS DIVISION,*  
(continue on plain paper)

**ADDITIONAL INFORMATION FOR THE COAST PILOT.**

We are particularly interested in information about unusually strong currents; prominent landmarks; objects which provide particularly good radar return; sheltered anchorages (be explicit on direction of weather and type of bottom observed); drawbridge operation changes (e.g., drawbridge remains permanently in open position); changes in pilot pick-up points; changes in radio frequencies monitored by pilots, marine exchanges, harbor masters, or drawbridges.

(continue on plain paper)



Page 74.-Line 27/L; change to read  
Eglin Air Force Base, FL, and such agencies as he may designate.

Page 74.-Line 29/L; change to read  
Santa Rosa Island, <sup>SYSTEMS</sup> ~~MUNITIONS~~ A Division,

Page 74.-Line 41/L; change to read  
the Commander, <sup>SYSTEMS</sup> ~~MUNITIONS~~ A Division,

Page 74.-Line 45/L; change to read  
Bay; guided missiles test operation area, <sup>SYSTEMS</sup> ~~MUNITIONS~~ A Division,

Page 74.-Line 46/L; change to read  
Eglin

Page 74.-Line 23/R; change to read  
the Commander, <sup>SYSTEMS</sup> ~~MUNITIONS~~ A Division,

Page 74.-Line 24/R; change to read  
Eglin Air Force Base, FL, and such agencies as he may

Page 74.-Line 27/R; change to read  
Mexico adjacent to Santa Rosa Island, <sup>SYSTEMS</sup> ~~MUNITIONS~~ A Division,

Page 74.-Line 28/R; change to read  
Eglin Air Force Base, FL. (a) The

Page 74.-Line 29/R: change to read  
restricted area. The waters of Santa Rosa Sound and

Page 74.-Lines 30/R - 31/R - 32/R - 33/R - 34/R - 35/R - 36/R  
Delete

Page 74.-Line 37/R; change to read  
Gulf of Mexico

Page 74.-Line 38/R; change to read  
within a circle of five nautical

Page 74.-Line 46/R; change to read  
restricted area on an intermittent basis. Such test opera-

Page 74.-Lines 49/R - 50/R - 51/R - 52/R - 53/R - 54/R  
Delete

Page 74.-Line 55/R; change to read  
(2) During periods when experimental test operations are

Page 74.-Line 58/R; change to read  
(3) Warning signs will be erected on the shore lines of

Page 74.-Line 60/R; change to read  
limits of the respective areas. Watercraft will be warned by patrol  
boats.

Page 74.-Line 61/R; change to read  
(4) The regulations in this section shall be enforced by

Page 74.-Line 62/R; change to read  
the Commander, **Munitions Systems Division**

Page 74.-Line 63/R; change to read  
Eglin Air Force Base, FL, and such agencies as

Page 74.-Line 66/R; change to read  
at Eglin Air Force Base, FL. (a) The restricted area. All

Page 75.-Line 4/L; change to read  
without the permission of the Commander, **Munitions Systems Division,**  
**Eglin Air Force.**

Page 75.-Line 7/L; change to read  
the Commander, **Munitions Systems,** Eglin Air Force Base, FL, or such  
**Division**

Page 75.-Line 10/L; change to read  
FL, at Eglin Air Force Base. (a) The restricted area.

Page 75.-Line 15/L; change to read  
**Munitions Systems,** Eglin Air Force Base, FL, or his authorized  
**Division**  
representa-

Page 75.-Line 18/L; change to read  
Commander, **Munitions Systems,** Eglin Air Force Base, FL, or such  
**Division**

Reference for all lines:

Commander, **Munitions Systems Division,**  
Eglin Air Force Base, FL 32542



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Coast and Geodetic Survey  
Norfolk, Virginia 23510-1114

Atlantic Hydrographic Party  
439 West York St.  
Norfolk, VA 23510-1114

August 26, 1992

Commander (OAN), 8th U. S. Coast Guard District  
Hale Boggs Federal Building  
501 Magazine Street  
New Orleans, LA 70130-3396

**ADVANCE  
INFORMATION**

Dear Sir,

While conducting a basic hydrographic survey (Registry No. H-10428) of Choctawhatchee Bay, Florida, the following items were identified as dangers to navigation and are recommended for inclusion in the Local Notice to Mariners. All positions are in NAD 83 datum and all soundings or heights have been reduced to Mean Lower Low Water (MLLW) using predicted tides. This information affects Chart 11385, 20th Edition/February 1992, NAD 83 datum.

▶ An iron I-beam imbedded nearly vertically in the bottom and baring 3.3 feet (1 meter) in 3 feet (0.9 meters) of water was found at latitude  $30^{\circ}28'17.1''$  N, longitude  $086^{\circ}18'22.0''$  W.

▶ A submerged truck cab covered by a depth of 0.6 feet (0.2 meters) in 5 feet (1.5 meters) of water was found at latitude  $30^{\circ}25'37.0''$  N, longitude  $086^{\circ}18'43.9''$  W.

▶ A previously charted visible wreck was found partially baring between positions latitude  $30^{\circ}27'41.3''$  N, longitude  $086^{\circ}18'12.4''$  W and latitude  $30^{\circ}27'38.7''$  N, longitude  $086^{\circ}18'13.2''$  W. The northeast portion of this wreck bares 3.3 feet (1 meter) and the southwest portion of this wreck bares 6.6 feet (2 meters). The 272 feet (82.9 meters) between these two visible sections is mostly covered. This is an unmarked, unlit feature in approximately 18 feet (5.5 meters) of water.

A chart section of this area, showing the location of these dangers is also included. Questions concerning this report should be directed to the Pacific Hydrographic Section at (206) 526-6853.

Sincerely,

*Thomas Waddington*  
LT Thomas Waddington, NOAA  
Chief, Atlantic Hydrographic Party

Enclosure

**ADVANCE INFORMATION**

N/CG221







UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Coast and Geodetic Survey  
Norfolk, Virginia 23510-1114  
Atlantic Hydrographic Party  
439 West York St.  
Norfolk, VA 23510-1114

June 01, 1992

Commander, (OAN)  
Eight U. S. Coast Guard District  
Hale Boggs Federal Building  
501 Magazine Street  
New Orleans, LA 70130-3396

**ADVANCE  
INFORMATION**

Dear Sir,

While conducting basic hydrographic surveys H-10428, to update nautical charts of Choctawhatchee Bay, Florida, the following items, were identified, requiring publication within the "Local Notice to Mariners".

▶ A Private Maintained Light "Sandestin Beach Light", Lightlist No. 29945, located at latitude 30°23.3'N, longitude 086°19.5'W, has been removed. This navigation aid will not be reestablished.

▶ A Private Maintained Lighted Buoy "Sandestin Beach Safe Water Light, Buoy SB", Lightlist No. 29950, located at latitude 30°24.6'N, longitude 086°21.3'W, has been removed. This Navigation aid will not be reestablished.

This report constitutes a correction to information shown on Chart 11385, 20th ed., Nov 23/91.

Questions concerning this report should be directed to me at (804) 441-6746 or Mr. Dennis Hill at Pacific Hydrographic Section, at (206) 526-6853.

Sincerely,

*Thomas R. Waddington*

Thomas R. Waddington, LT, NOAA  
Chief, Atlantic Hydrographic

Party

Enclosure

cc: N/CG241  
N/CG2441 for AMC  
N/CG2451 for PMC  
DMAHTC  
DR. ✓



APPROVAL SHEET

BASIC HYDROGRAPHIC SURVEY

OPR-J259/92

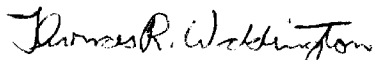
AHP-10-7-92

H-10428

1992

This basic hydrographic survey was conducted in accordance with the project instructions for OPR-J259-AHP, the hydrographic manual, the hydrographic survey guidelines, and the field procedures manual. The survey data and reports were completed under frequent supervision. All boat sheets and final field sheets were reviewed in their entirety and all supporting records were also checked.

This survey is a complete basic hydrographic survey for the area described in Section B of this report.



Thomas R. Waddington

Lieutenant, NOAA

Chief, Atlantic Hydrographic Party



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Coast and Geodetic Survey  
Seattle, Washington 98115-0070

August 3, 1993

Commandant  
Eighth Coast Guard District  
Hale Boggs Federal Building  
501 Magazine Street  
New Orleans, LA 70130-3396

Dear Sir:

During hydrographic survey, H-10428, Choctawhatchee Bay, Florida, it was discovered that a potential problem exists relative to the characteristic of privately maintained aid, Sandestin Beach Channel Daybeacon 30. This aid, although not currently charted, was located by our hydrographic field party at approximate latitude 30/23/15N, longitude 86/19/40W, in Horseshoe Bayou. The aid was observed to be red, however it is on the east side of an apparent channel where the other daybeacons are green.

If you need additional information pertaining to this report, please contact Mr. Russell Davies, (206) 526-6854.

Sincerely,

Commander Douglas G. Hennick, NOAA  
Chief, Pacific Hydrographic Section



ORIGINAL



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Office of Ocean and Earth Sciences  
Rockville, Maryland 20852

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE:** December 21, 1992

**MARINE CENTER:** Pacific

**OPR:** J259

**HYDROGRAPHIC SHEET:** H-10428

**LOCALITY:** Choctawhatchee Bay, Florida, Hammock Point to  
Horseshoe Bayou

**TIME PERIOD:** May 19 - September 24, 1992

**TIDE STATION USED:** 872-9435 Big Hammock Point, Fl.  
Lat.  $30^{\circ} 27.9'N$  Lon.  $86^{\circ} 21.1'W$

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** = 2.17 feet  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** = 0.5 foot

**TIDE STATION USED:** 872-9376 Hogtown Bayou, Fl.  
Lat.  $30^{\circ} 23.9'N$  Lon.  $86^{\circ} 13.7'W$

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** = 1.07 feet  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** = 0.6 foot

**REMARKS: RECOMMENDED ZONING**

1. North and west of a line between Fourmile Point and Live Oak Point, times and heights are direct on Big Hammock Point, Fl. (872-9435).
2. South of a line between Fourmile Point and Live Oak Point, times and heights are direct on Hogtown Bayou, Fl. (872-9376).

**NOTE:** Hourly heights are tabulated on Central Standard Time.

  
CHIEF, DATUMS SECTION





GEOGRAPHIC NAMES

H-10428

Name on Survey	A CHART NO. 11385 & 11388 B ON PREVIOUS SURVEY NO. H-6448 C PRIOR H-5869 D FROM LOCAL INFORMATION E ON LOCAL MAPS F P.O. GUIDE OR MAP G RAND McNALLY ATLAS H U.S. LIGHT LIST K									
	A	B	C	D	E	F	G	H	K	
BIG HAMMOCK POINT	X	X								1
BUCK BAYOU	X	X								2
CHOCTAW BEACH (locale)										3
CHOCTAWHATCHEE BAY	X	X								4
FLORIDA (title)	X	X	X							5
FOURMILE POINT	X		X							6
GRASSY COVE	X									7
HAMMOCK POINT	X	X								8
HEWETT BAYOU	X	X								9
HOGTOWN BAYOU	X									10
HORSESHOE BAYOU	X		X							11
MACK BAYOU	X	X								12
MULLET CREEK	X									13
TROUT CREEK	X									14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25

Approved:

*Charles C. Harrington*  
Chief Geographer - NCEAS

APR 19 1993

RECORDS ACCOMPANYING SURVEY: To be completed when survey is processed.

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET	1	SMOOTH OVERLAYS: POS., ARC, EXCESS	6
DESCRIPTIVE REPORT	1	FIELD SHEETS AND OTHER OVERLAYS	4

DESCRIP- TION	DEPTH/POS RECORDS	HORIZ. CONT. RECORDS	SONAR- GRAMS	PRINTOUTS	ABSTRACTS/ SOURCE DOCUMENTS
ACCORDION FILES	2				
ENVELOPES					
VOLUMES	1				
CAHIERS <del>BOXES</del> Fanfold				1	

SHORELINE DATA

SHORELINE MAPS (List):

PHOTOBATHYMETRIC MAPS (List):

NOTES TO THE HYDROGRAPHER (List):

SPECIAL REPORTS (List):

NAUTICAL CHARTS (List):

**OFFICE PROCESSING ACTIVITIES**  
The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS		
	VERIFICATION	EVALUATION	TOTALS
POSITIONS ON SHEET			2983
POSITIONS REVISED			
SOUNDINGS REVISED			
CONTROL STATIONS REVISED			
	TIME-HOURS		
	VERIFICATION	EVALUATION	TOTALS
PRE-PROCESSING EXAMINATION			
VERIFICATION OF CONTROL			
VERIFICATION OF POSITIONS	47		47
VERIFICATION OF SOUNDINGS	38		38
VERIFICATION OF JUNCTIONS			
APPLICATION OF PHOTOBATHYMETRY			
SHORELINE APPLICATION/VERIFICATION			
COMPILATION OF SMOOTH SHEET	17		17
COMPARISON WITH PRIOR SURVEYS AND CHARTS		7	7
EVALUATION OF SIDE SCAN SONAR RECORDS			
EVALUATION OF WIRE DRAGS AND SWEEPS			
EVALUATION REPORT		27	27
GEOGRAPHIC NAMES			
OTHER*			
*USE OTHER SIDE OF FORM FOR REMARKS	<b>TOTALS</b>	102	34
			136

Pre-processing Examination by <b>J. Griffin</b>	Beginning Date 11/4/92	Ending Date 12/4/92
Verification of Field Data by <b>R. Davies</b>	Time (Hours) 102	Ending Date 6/28/93
Verification Check by <b>J. Green</b>	Time (Hours) 9	Ending Date 6/17/93
Evaluation and Analysis by <b>R. Davies</b>	Time (Hours) 34	Ending Date 6/28/93
Inspection by <b>D. Hill</b>	Time (Hours) <b>4</b>	Ending Date <b>7/28/93</b>

## EVALUATION REPORT H-10428

### 1. INTRODUCTION

Survey H-10428 is a basic hydrographic survey accomplished by the Atlantic Hydrographic Party 2, under the following Project Instructions.

OPR-J259-AHP, dated March 9, 1992

CHANGE NO. 1, dated June 2, 1992

CHANGE NO. 2, dated September 30, 1992

This survey was conducted in Florida and covers a portion of Choctawhatchee Bay. Specifically, the survey area extends from Big Hammock Point eastward to Hewett Bayou and between Horseshoe Bayou northward into Grassy Cove. The survey area extends from latitude 30/22/57N to latitude 30/28/51N, and from longitude 86/16/30W to longitude 86/21/18W. The shoreline consists of sand, marsh, private piers and one marina, Baytowne Marina at Sandestin. The bottom consists of mud and sand. Generally, depths within the survey area are from 0.4 meters along the shoreline to 8.1 meters offshore in Choctawhatchee Bay.

Predicted tides for Pensacola, Florida, were used for the reduction of soundings during field processing. Approved hourly heights zoned from Big Hammock Point and Hogtown, Florida, gages 872-9435 and 872-9376, were used during office processing.

The field sheet parameters have been revised to center the hydrography on the smooth sheet and to change the projection to polyconic. NAD 83 is used as the horizontal datum for plotting and position computation. Velocity Table 7 was extended beyond the 10 percent extrapolated limit permitted for these depths (Field Procedures Manual, section 2.1.4). This extension does not result in a significant error as indicated by other velocity casts to similar depths. The TRA and electronic control correctors are adequate. An accompanying computer printout contains the parameters and the correctors.

A digital file has been generated for this survey that includes categories of information required to comply with Hydrographic Survey Guidelines No. 52, Standard Digital Data Exchange Format, April 15, 1986. Certain descriptive information, however, may not be in the digital record due to the restrictions of the presently available cartographic codes. The user should refer to the smooth sheet for complete information.

## 2. CONTROL AND SHORELINE

Sections H and I of the hydrographer's report contain adequate discussions of horizontal control and hydrographic positioning. Additional detailed information on horizontal control is found in the Horizontal Control Report for OPR-J259-AHP, dated October 12, 1992.

Positions of horizontal control stations used during hydrography are 1992 field and published values based on NAD 83. These values were used during office processing for the computation of positions. The smooth sheet and accompanying overlays are annotated with NAD 27 adjustment ticks based on values determined with the NGS program NADCON. Geographic positions based on NAD 27 may be plotted on the smooth sheet utilizing the NAD 83 projection by applying the following corrections.

Latitude: 0.715 seconds (22.016 meters)  
Longitude: -0.196 seconds (-5.239 meters)

The year of establishment of control stations shown on the smooth sheet originates with the above mentioned horizontal control report.

The positions within Mack, Hewett and Buck Bayous were first acquired by the hydrographer as "See Field Sheet" fixes (SFS). These positions were scaled by the hydrographer and are included in the digital records.

<u>Position numbers</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>
2792-2806	30/24/02	86/18/12
2811-2822	30/23/45	86/17/18
2823-2828	30/24/28	86/18/30
2832-2836	30/24/37	86/18/16

The quality of several positions exceeds limits in terms of error circle radius and residual or have angles of intersection less than 30 degrees or more than 150 degrees. The positioning of soundings is considered acceptable since the depths are consistent with surrounding depths. The positioning of three fixed aids to navigation is also considered acceptable but marginally so. Specifically, Sandestin Beach Channel Daybeacons 23, 25 and 30 were positioned with only two lines of position and the position ECR's of 16 slightly exceed the standard specification of 15. The aids are depicted on the smooth sheet at the computed positions and should be considered for charting.

The following shoreline map, updated by 1991 NANCI support data, was compiled on NAD 27 and applies to this survey.

	<u>Photo Date</u>	<u>Class</u>	<u>Scale</u>
TP-00338	Jan, 77, Feb, 78	III	1:20,000

The following shoreline changes are depicted on the smooth sheet with a red line, and were transferred from the final field sheet with supporting positional information. These revisions are adequate to supersede the common photogrammetrically delineated shoreline.

<u>Feature</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>
HWL from	30/28/31	86/20/03
to	30/28/36	86/19/48
HWL	30/23/52	86/17/04
Pier	30/27/56	86/21/09
Pier	30/27/56	86/21/06
Pier	30/24/15	86/19/27
Pier	30/28/46	86/16/52
Pier	30/28/43	86/17/01

### **3. HYDROGRAPHY**

Except as noted below and elsewhere in this report, hydrography is adequate to:

- a. delineate the bottom configuration, determine least depths, and draw the standard depth curves;
- b. reveal there are no significant discrepancies or anomalies requiring further investigation; and
- c. show the survey was properly controlled and soundings are correctly plotted.

Standard depth curves were adequately drawn and developed with the exception of the zero curve. This was due to the shallowness of some areas and the small range of tide.

### **4. CONDITION OF SURVEY**

The hydrographic records and reports received for processing are adequate and conform to the requirements of the Hydrographic Manual, 4th Edition, revised through Change No. 3, the Hydrographic Survey Guidelines, and the Field Procedures Manual, March 1992 Edition, except as follows.

Several detached positions were located with two LOP's and weak geometry. Detached positions should have a check line of position and be carefully monitored for acceptable

ECR values and angles of intersection of more than 30 degrees and less than 150 degrees (Field Procedures Manual 3.3.1.1 and Hydrographic Manual 4.4.1).

## 5. JUNCTIONS

Survey H-10428 junctions with the following surveys.

<u>Survey</u>	<u>Year</u>	<u>Scale</u>	<u>Area</u>
H-10427	1992	10,000	West
H-10448	1992	10,000	East

The junction with survey H-10427 is complete. The junction with survey H-10448 has not been completed since this survey is in preliminary office processing. A comparison with charted depths in this area shows good agreement.

## 6. COMPARISON WITH PRIOR SURVEYS

H-5869 (1935) 1:20000

H-6448 (1939) 1:10000

Surveys H-5866 and H-6448 cover the entire area of the present survey. Generally, soundings are within 1 meter between the two prior surveys and the present survey, the prior surveys being shoaler. The southern shoreline in the vicinity of Fourmile Point has eroded back approximately 50 meters since the prior surveys were completed. One peninsula located at the entrance to Hewett Bayou, latitude 30/23/57N and between longitudes 86/17/03W and 86/17/16W, has completely disappeared.

AWOIS item 6888, a submerged wreck, originates from the prior survey H-5869. The remains of the wreck, a boiler, were located by the hydrographer at latitude 30/25/24.42N, longitude 86/19/20.37W. It is recommended that the charted sunken wreck be removed and the sunken wreck found on this survey charted.

Survey H-10428 is adequate to supersede these prior surveys within the common area.

## 7. COMPARISON WITH CHART

Chart 11385 20th edition, dated November 23, 1991; scale 1:40,000

a. Hydrography originates with the prior surveys mentioned in section 6 of this report and miscellaneous sources.

Two area with "Caution" notes, centered at latitude 30/25/15N, longitude 86/17/15W, and latitude 30/24/15N, longitude 86/20/18W, should be retained as charted. There are indications that piles exist in these areas, as piles were located during this survey.

Except where noted above, survey H-10428 is adequate to supersede charted hydrography within the common area.

b. AWOIS

Except for AWOIS item 6888, all AWOIS items within the survey area originate with miscellaneous sources. Refer to the hydrographer's report for discussion and disposition of these features.

c. Controlling Depths

The Intracoastal Waterway is located within the survey area and has a project depth of 12 ft. Survey depths in this region of the Intracoastal Waterway are deeper than the charted project depth. The survey depths found range from 5.4 meters to 7.0 meters (17.7 ft to 23.0 ft).

A channel with an controlling depth of 5 feet is charted at the entrance of Horseshoe Bayou, latitude 30/23/45N, longitude 86/20/09W. The hydrographer found depths between 2.4 meters and 3.3 meters (7.8 ft to 10.8 ft). It is recommended that a note, "8 ft 1992" be charted at latitude 30/23/45N, longitude 86/20/09W.

d. Aids to Navigation

There are no floating aids to navigation within the survey area.

There are 29 fixed aids located within the survey area. See attached 76-40 forms for new and revised positions. Sandestin Beach Channel Daybeacons 23, 25 and 30 were located, however, the positions are marginally weak and the ECR's of 16 slightly exceed specifications. Despite the marginally weak control the computed positions appear reasonable. The USCG was unable to provide comparative data for two of the aids, however, the position they provided for Daybeacon 23, latitude 30/23/39N, longitude 86/19/48W, is 821 meters to the northwest of the surveyed position. This position is unreasonable and should be superseded by the survey position. The USCG further advised that these aids will be located using GPS equipment in the near future and revised positions will be forwarded to NOS. Until then, it is recommended the survey positions be used to revise all affected charts. The USCG was notified of the apparent reversal of the color scheme on Sandestin Channel Daybeacon 30 (red on the east side of the channel). A copy of the letter is attached to this report.

All landmarks within the survey area should be retained as charted.

e. Geographic Names

Names appearing on the smooth sheet and in the survey title have been approved by the Chief Geographer.

f. Dangers to Navigation

Three dangers to navigation, were reported by the hydrographer to the U. S. Coast Guard and N/CG221. A copy of the report is attached. No additional dangers to navigation were reported during office processing.

**8. COMPLIANCE WITH INSTRUCTIONS**

Survey H-10428 adequately complies with the Project Instructions except where noted in this report.

**9. ADDITIONAL FIELD WORK**

This is an adequate hydrographic survey. No additional field work is recommended.



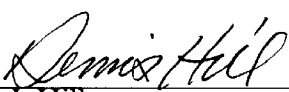
C. R. Davies  
Cartographer



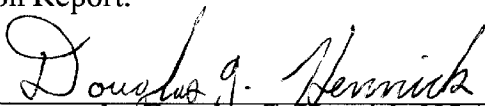
APPROVAL SHEET  
H-10428

Initial Approvals:

The completed survey has been inspected with regard to survey coverage, delineation of the depth curves, development of critical depths, cartographic symbolization, comparison with prior surveys and verification or disproval of charted data. The digital data have been completed and all revisions and processing have been entered in the magnetic tape record for this survey. Final control, position, and sounding printouts have been made and are included with the survey records. The survey records and digital data comply with NOS requirements except where noted in the Evaluation Report.

  
\_\_\_\_\_  
Dennis J. Hill  
Chief, Hydrographic Processing Unit  
Pacific Hydrographic Section  
Date: 7-28-93

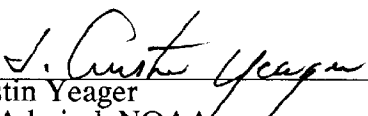
I have reviewed the smooth sheet, accompanying data, and reports. This survey and accompanying digital data meet or exceed NOS requirements and standards for products in support of nautical charting except where noted in the Evaluation Report.

  
\_\_\_\_\_  
Commander Douglas G. Hennick, NOAA  
Chief, Pacific Hydrographic Section  
Date: 8/3/93

\*\*\*\*\*

Final Approval

Approved:

  
\_\_\_\_\_  
J. Austin Yeager  
Rear Admiral, NOAA  
Director, Coast and Geodetic Survey  
Date: 12/8/93

DEPARTMENT OF COMMERCE  
 National Oceanic and Atmospheric Administration  
 National Ocean Survey  
 Rockville, Maryland

Hydrographic Index No. 85 F

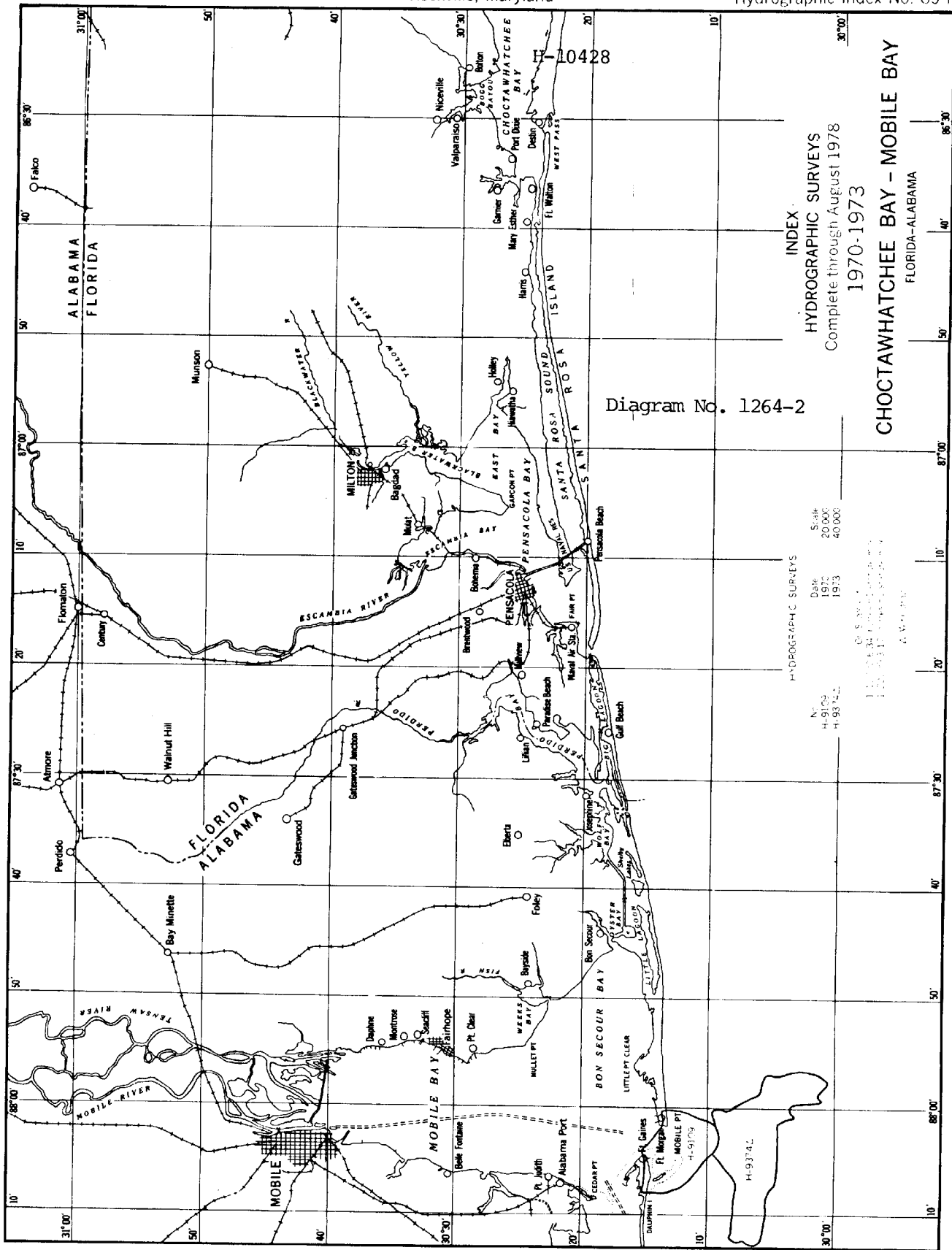


Diagram No. 1264-2

INDEX  
 HYDROGRAPHIC SURVEYS  
 Complete through August 1978  
 1970-1973  
 CHOCTAWHATCHEE BAY - MOBILE BAY  
 FLORIDA-ALABAMA

HYDROGRAPHIC SURVEYS

No.	Date	Scale
H-9102	1970	20,000'
H-9374L	1973	40,000'

U.S. GOVERNMENT PRINTING OFFICE: 1973

