

# 10380

Diagram No. 1284-2

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-10-7-91  
Registry No. .... H-10380

### LOCALITY

State ..... Texas  
General Locality ..... Matagorda Bay  
Sublocality ..... 5.5 nm SW of Palacios Point

1991

CHIEF OF PARTY  
LT T.R. Waddington

### LIBRARY & ARCHIVES

DATE ..... June 30, 1992

# 10380

### PRODUCTS

11319 B  
11317  
11316  
CP5

**HYDROGRAPHIC TITLE SHEET**

H-10380

**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-10-7-91

State Texas

General locality Matagorda Bay

Locality 5.5nm SW of Palacios Point

Scale 1:10,000

Date of survey 5/15/91 - 7/19/91

Instructions dated 3/1/91

Project No. OPR-K228/91-3

Vessel Launch 0519

Chief of party LT Tom Waddington

Surveyed by R.W. Ramsey, Jr.

Soundings taken by echo sounder, hand lead, pole Innerspace Mod#448

Graphic record scaled by R.W. Ramsey, Jr., Ralph R. Rogers, David B. Elliott, Stephen F. Sassman, Charles D. Nelson

Graphic record checked by R.W. Ramsey

Evaluation by:

R.N. Mihailov

Automated plot by PHS Xynetics Plotter

Verification by R.N. Mihailov

Soundings in ~~fathoms~~ ~~feet~~ ~~at~~ ~~MLW~~ MLLW Meters and Decimeters

REMARKS: All times are UTC. North American Datum of 1983 (NAD 83).

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.

*Always SURF ✓ 7/6/92, SJV*

*SC* JAN 29 1997

*SWW*



DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SURVEY H-10380  
(Field No. AHP-10-7-91/3)  
Scale:1:10,000  
1991

Atlantic Hydrographic Party Two  
Chief of Party: Lt. Thomas R. Waddington, NOAA

A. PROJECT ✓

This survey was conducted in accordance with Hydrographic Project Instructions OPR-K228-AHP2, Matagorda Bay, Texas dated March 1, 1991, change No. 1 dated 4 June, 1991, and change No. 2 dated 11 June 1991.

The purpose of project OPR-K228-AHP2 is to provide modern hydrographic data to revise the existing nautical charts. Considerable oil development, fishing and oyster industries exist in Matagorda Bay and its main tributaries.

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

B. AREA SURVEYED ✓

The area surveyed for H-10380 covers the center portion of Matagorda Bay in the locality of five point five nautical miles Southwest of Palacios Point. The limits are as follows:

North - Latitude	28°34'21"N
South - Latitude	28°30'00"N
East - Longitude	096°16'54"W
West - Longitude	096°20'57"W

This survey was conducted from May 15, 1991 (DN 135) to July 19, 1991 (DN 200).

C. SOUNDING VESSEL ✓

Vessel 0519 (EDP No. 0519), a 21-foot MonArk, was used to collect all data on this survey. No problems were encountered with this vessel.

Sounding lines were run at 100 meter spacing, per Section 4.3 of the hydrographic manual.

D. AUTOMATED DATA ACQUISITION AND PROCESSING ✓

Hewlett-Packard HDAPS Programs:

<u>PROGRAM NAME</u>	<u>VERSION</u>
DISC_UTIL	1.00
MB	0.00
HJ	0.00
AUTOST	1.10
SURVEY	6.02
POINT	1.31
PLOTALL	1.95
PRINTALL	2.30
CARTO	1.20
BASELINE	1.10
QUICK	1.10
CONVERT	2.41
INVERSE	1.31
LOADNEW	1.30
GLOBAL	1.11
REJECT	1.00
MAKEFIX	1.00
BIGABST	1.13
REAPPLY	1.32
DIAGNOSTIC	2.70
HPRAZ	1.22
FILESYS	2.11
BACKUP	2.00
BACKOLD	1.11
NEWCONT	1.10
LISTAWOIS	1.20
PREDICT	1.11
POSTSUR	5.12
READPROJS	1.07
SOFTCHECK	1.11
DP	1.11
MANU_DATA	1.11
RAMSAVER	1.00
CSTAT_UP	1.00
REFTIDE4	*.**
Vers	*.**
DAS_SURV	6.03
CAT_KEYS	.99B
CATALOGER	*.**

PC-DAS program, NOAAEXE directory, Version 3.6 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 geodetic 6/88  
computations (IBM PC)

E. SONAR EQUIPMENT - NO SIDE SCAN OPERATIONS ✓

Not applicable.

F. SOUNDING EQUIPMENT ✓

The following Innerspace 448 echo sounder was used for this survey:

EDP#	S/N	Days (ALL DAYS OF HYDRO)
----	----	-----
0519	186	135,149,156,157,163, 169,172,175,176,177, 189,190,192,196,197, 198,199,200.

Soundings were recorded in meters, with an assumed speed of sound through water of 1500 m/sec. Depths encountered in the survey area range from 3.2 meter to 4.8 meters.

The digitized soundings from the echosounder were closely monitored for comparison with the analogue trace to ensure agreement between the two. Any necessary adjustments in this comparison were noted on the fathogram.

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, serial number 155. This instrument was calibrated by the manufacturer on May, 1991 and a copy of this calibration may be found in the Separates Following Survey Data IV.\* In addition to this, simultaneous velocity casts were performed on May 29, 1991 with Digibar serial numbers 154 and 155 to assure the units were operating properly. This procedure is the reason for two casts numbered "one". The cast for vessel number 1292 is strictly for comparison only and not incorporated in any velocity table for survey H-10380. Program "Velocity" was used for determining the speed of sound correctors.

\* Filed with hydrographic data.

Velocity casts were taken in the project area and speed of sound correctors were applied (when applicable) to all soundings taken during hydrography, during semi-smooth and final plotting with the HDAPS.

HDAPS Table#	DN	Date	Applied FM	-	To
10	149	5/29/91	149		154
11	155	6/04/91	155		160
12	161	6/10/91	161		175
13	176	6/25/91	176		188
14	189	7/08/91	189		200

Speed of sound tables and cast data are included in the Separates Following Survey Data IV. \*

Lead line comparisons were taken daily to determine instrument error and to verify static draft. The instrument errors computed to a tenth of a meter were 0. This instrument correction was not applied to final field sheet soundings and is included in the Separates Following Survey Data IV, along with a lead line comparison log, for reference. The lead line was calibrated on May 14, 1991 with a metal tape and found to be in concordance.

A static draft of 0.3 meters was applied on-line via the offset table. This was measured from a punch mark on the side of launch 0519, two feet above the transducer, to the water surface, then subtracted from the difference. The data were applied to all soundings acquired with the echosounder. The offset tables are included with the Separates Following Survey Data IV. \*

Settlement and squat measurements for vessel 0519 were performed last on 08 November, 1990. Settlement and squat correctors were determined and applied to all survey data by means of ~~Table # 2~~ <sup>OFFSET</sup> Table # 2, a copy can be found in Separates Following Survey Data IV. \*

The final field sheet was plotted using predicted tides determined from Port O' Connor, Texas and correctors designated in zone "I" of the project instructions. The values were applied direct in accordance with these instructions.

Approved water levels were requested from the Sea and Lake Levels Branch, N/OMA12, in a letter dated 24 July, 1991. A copy is included in the Descriptive Report Appendices V. \*

#### H. CONTROL STATIONS ✓

The horizontal control datum for this project is the North American Datum of 1983. A signal list, a copy of the HDAPS

Control Station Table, is included in the Descriptive Report ~~Appendices III.~~ attached to this report.

The Coastal Surveys Unit from Norfolk, Virginia used third order, class I traverse and intersection methods to establish horizontal control for this project. The NAD 1983 was used. The horizontal control report was written and submitted by the Coastal Surveys Unit personnel for OPR-K228-AHP2.

## I. HYDROGRAPHIC POSITION CONTROL ✓

### Survey Methods

Hydrographic position control was accomplished using Motorola Mini-Ranger Falcon 484 system which provided accuracy to meet 1:10,000 scale survey requirements. Range/range positioning with three and four lines of position were used during this project.

The following Falcon Mini-Ranger equipment was used:

<u>VESNO</u>	<u>EQUIPMENT</u>	<u>S/N</u>
0519	RPU	E0139 & E0146
	R/T	E2931 & E2951
	R/S	D2128 CD #A
	R/S	C2067 CD #0
	R/S	E2913 CD #7
	R/S	F3237 CD #8
	R/S	F3298 CD #9

When using three or four lines of position (LOP), a critical system check is continuously being obtained by observing the error circle radii (ecr) and residual (res) values on the Complex screen in the survey vessel. Fixes which had erratic lines of position indicated by high residuals on the "raw" listing were "smoothed" during processing. Positions were "smoothed" by dead reckoning between two accurate positions. A point position recomputation was also used when fix data was erratic and the smoothing process was not adequate to save the data. Positions were recomputed by rejecting an (LOP), or reaccepting an (LOP) that was "turned-off" manually or automatically while "on-line". If acceptable 'ecr' and 'res' values were indicated, the data were then smoothed and saved on the HDAPS.

### Critical System Checks

Fixed-point system checks are logged on a daily basis as per section 3.1.3.3 of the Field Procedures Manual. The daily printouts of hydrographic acquisition with MLOPS via HDAPS reflect these figures and are in compliance with values in this section.



### Mini-Ranger Falcon Calibrations

Baseline calibrations were performed on 6 May, 1991 (DN 126), May 30, 1991 (DN 150), and 17 June, 1991 (DN 168) to the standards of Section 3.1.2.1 of the field procedures manual. The baseline correctors were incorporated into the Comflex "C-O" table and applied directly to all "on-line" data. All records of these calibrations are included in the Separates Following Survey Data III.

A closing baseline calibration was not performed since the survey was conducted in less than a six month period.

#### J. SHORELINE ✓

There is no shoreline on this survey as it lies in the central area of Matagorda Bay.

#### K. CROSSLINES ✓

A total of 31.8 linear nautical miles of channel and cross-lines were run on H-10380 which serve as comparison for main scheme soundings and equals >10% of the main scheme hydrography. These soundings agree to within 0.2 meter of the main scheme soundings in general, with occasional 0.3-0.4 meter variances of which were attributed to vessel heave (this factor was not corrected for during smooth plotting).

#### L. JUNCTIONS ✓

The hydrography run on this sheet junctions with Sheets F, J, O, P, L, & H listed in the project instructions. These junctioning survey have yet to be started at the time of completion of this survey.

F-H-10415	P-H-10405
J-H-10396	L-H-10397
O-H-10406	H-H-10395

#### M. COMPARISON WITH PRIOR SURVEYS ✓

The present survey was compared to the following prior survey:

<u>Survey NO.</u>	<u>Scale</u>	<u>Year</u>
H-5866	1:20,000	1934-35

The following was noted during comparison:

- 1) Palacios Channel did not exist on H-5866.
- 2) Bottom samples were found to compare in general with the exceptions of hrd yl S, shown at latitude 28°32.5'N and

longitude 096°17.5'W on H-5866. This area presently was found to have a soft mud bottom believed to be due to the heavy shrimp trawling noted during this survey.

- 3) There are now numerous oil and gas wellheads and platforms located throughout the surveyed area at present, with active signs of ongoing development, these were not found to exist on H-5866.
- 4) In general soundings acquired during H-10380 were found to be on the order of one to two feet deeper than those found on H-5866. *0.1 to 0.2 meters*
- 5) As H-5866 was surveyed in feet and H-10380 was surveyed in meters there were no common isobaths for comparison.

#### N. COMPARISON WITH THE CHART ✓

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

<u>Chart No.</u>	<u>Edition</u>	<u>Date</u>
11317	19th	January 20, 1990
11319SC	22nd	February 10, 1990

Sounding agreement between charted soundings and H-10380 were found to presently be deeper by one to two feet.

Bottom samples were found to be in general agreement.

There are no common isobaths for comparison, and no isobaths appear on H-10380, as the soundings only ranged from less than five meters and greater than two meters.

Some charted platforms in the area that were not listed as AWOIS items were not to be found, however there were existing platforms in the general area that are believed to be the charted features.

Numerous lighted oil & gas platforms were positioned, and appear on the overlay sheets. The coordinates and descriptions can be found in the Daily Log, which is also included with the survey data \*it summarizes daily activity and includes photographs, and other useful information.

All AWOIS items (total of 13) were addressed on this survey. These items appear on the overlay sheet and are filed in order of collection in the Separates ~~Following Survey Data VI~~. Some of these items are described in this section for further clarification. It would be most helpful for the verifier to review the Field sheet, Overlay, and Daily log when addressing these items. Note should be <sup>made</sup> that most all items originated from questionable positions. *attached to this report.*

\* Filed with hydrographic data.

AWOIS #5431 was found to be a wooden survey platform, which is also station number twenty-seven "PLAT PK", 1991. The position can be found in the control station list.

AWOIS #'s 5474 & 5436 are duplicate items. Therefore AWOIS item # 5436 has been deleted.

O. ADEQUACY OF SURVEY ✓

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

P. AIDS TO NAVIGATION ✓

Ten non-floating aids to navigation are within the sheet limits. These were located by detached positions.

<u>Non-Floating Aid</u>	<u>Survey Position</u>	<u>Light List Position</u>
R"20"(3m)Ra Ref Daybeacon LL# 34668	28°34'10.2" N 96°17'45.2" W	None
<i>Palacios Channel Light 18</i>		
FL R"18"(3m)Ra Ref FL Red Light LL# 34660	28°33'32.0" N 96°18'06.1" W	28°33.5'N 96°18.1'W
R"16"(3m)Ra Ref Daybeacon LL# 34655	28°33'02.0" N 96°18'22.6" W	None
FL R"14"(5m)Ra Ref FL Red Light LL# 34645	28°32'21.2" N 96°18'44.8" W	28°32.3'N 96°18.7'W
R"12"(3m)Ra Ref Daybeacon LL# 34640	28°31'51.7" N 96°18'43.1" W	None
R"10"(3m)Ra Ref Daybeacon LL# 34630	28°31'14.7" N 96°18'28.6" W	None
<i>Palacios Channel Light 8</i>		
FL"8"(3m)Ra Ref FL Red Light LL# 34625	28°30'47.5" N 96°18'18.0" W	28°30.8'N 96°18.2'W
R"6"(3m)Ra Ref Daybeacon LL# 34620	28°30'11.5" N 96°18'03.1" W	None

<u>Non-Floating Aid</u>	<u>Survey Position</u>	<u>Light List Position</u>
Matagorda Bay Pipeline Marker Light F		
FL Y"F"(2m), Pipeline	28°33'36.6" N	28°33.6'N
Priv. Maintained	96°19'18.2" W	96°19.3'W
LL# 26830		
FL "R"(2m), Pipeline	28°31'44.1" N	None
Priv. Maintained	96°18'48.8" W	

The non-floating aids to navigation were compared with the chart blowup and the variances are listed in the Record Log Book, included with survey data. These aids were found positioned to serve their purpose, with one exception, that being the lack of an aid between R"12" and FL R "14" to adequately define the turn in Palacios Channel. The lack of this aid, however was not deemed to pose a danger to navigation, as the surrounding bottom depths and depth of Palacios Channel vary by one half a meter or less.

Three pipeline signs were found within the surveyed area (positions # 1194, 1222, &1223).

#### Q. STATISTICS ✓

<u>Description</u>	<u>Quantities</u>
Total Positions	2262
Detached Positions	64
Duplicate Positions	6
Total Nautical Miles of Hydro	320.3
Sq. Nautical Miles of Hydrography	16
Bottom Samples	48
Velocity cast	5
Days of Production	18

#### R. MISCELLANEOUS ✓

Bottom samples were taken and submitted to the Smithsonian Institution as directed in Section 6.7 of the project instructions. 25 bottom samples were transmitted on May 17, 1991. Bottom sample positions are plotted on the overlay and are listed on the Oceanographic Log Sheet-M, NOAA Form 75-44, which may be found in the Separates Following Survey Data.

Tidal currents were found to be evident in the area of Palacios Channel, with a mean range of one to two knots.

#### S. RECOMMENDATIONS ✓

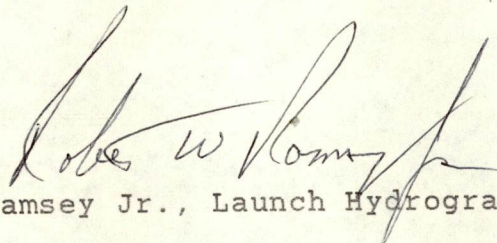
Many hours of lost production are attributable to features being positioned inaccurately by USPS. Although these units are deemed a valuable source of information, they rarely have any form of positioning system on their vessel. The results of these

scaled positions often take the form of items being revised to ruins or as a submerged feature with little documentation for the change. Considering the time and effort required of the field survey units to provide sufficiently detailed positioning and documentation to remove charted features, requiring more detailed information from the aforementioned groups before applying their information to the charts would expedite the field work of future surveys.

T. REFERRAL TO REPORTS ✓

<u>Title</u>	<u>Transmittal Information</u>
Horizontal Control Report for OPR-K228-AHP2	Field Photogrammetry Section Norfolk, Virginia, N/CG233

Submitted by:



Robert W. Ramsey Jr., Launch Hydrographer in Charge

AWOIS INVESTIGATION

AWOIS # 5425

DATE: 7/17/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: TWO PILES(10FT)

SOURCE: CL1592/81---USPS

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**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,33'52.99"N	096,17'50.89"W	
OBSERVED:	28,33'53. <sup>08</sup> <del>060</del> "N	096,17'50. <sup>4</sup> <del>90</del> "W	2243

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH.

FINDINGS: NO CONTACTS.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR

SEARCH RADIUS: 50m Hydrographic record log book shows 100 meter (as

WATER VISIBILITY: <1m required) circle search.

MAXIMUM DEPTH: 3.5m BOTTOM TIME: 50 min

LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. - concur, remove the 2 piles from the chart.

AWOIS INVESTIGATION

AWOIS # 5429

DATE: 6/21/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORMS, PIPELINE CROSSING SIGNS.

SOURCE: CL-1066/79--USPS

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,33'40.99"N	096,17'22.89"W	
OBSERVED:	28,33'40. <sup>240</sup> <del>228</del> "N	096,17'20. <sup>8</sup> <del>77</del> "W	1168 GP OF DIVE

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER CIRCLE SEARCH, AND SOUNDING LINES, AND VISUAL

FINDINGS: THERE ARE NO PIPELINE CROSSINGS IN THIS REPORTED AREA AND NO EVIDENCE OF THERE PRIOR EXISTANCE. THESE ITEMS WERE SCALED FROM A 1:50,000 CHART, AND ARE BELIEVED TO BE THE CHARTED PIPELINE CROSSING SIGNS LOCATED NORTH NEAR MARKER "24" OF PALACIOS CHANNEL.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR

SEARCH RADIUS: 100m

WATER VISIBILITY: 0

MAXIMUM DEPTH: 3.5m

BOTTOM TIME: 40 min

LEAST DEPTH:

FINDINGS: NO CONTACTS WERE FOUND DURING ALL SEARCH MODES.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVAL FROM CURRENT CHARTS. *concur, remove Platforms (PA) from the chart.*

AWOIS INVESTIGATION

AWOIS # 5430

DATE: 6/25/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORM RUINS

SOURCE: CL-1006/79--USPS

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**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,33'15.99"N	096,18'15.89"W	
OBSERVED:	28,33'13. <sup>80</sup> <del>66</del> "N	096,18'14. <sup>7</sup> <del>68</del> "W	1207

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: VISUAL IDENTIFICATION.

FINDINGS: WOODEN SURVEY PLATFORM, 2x2 m, BARES 2m.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS:

SEARCH RADIUS:

WATER VISIBILITY:

MAXIMUM DEPTH:

BOTTOM TIME:

LEAST DEPTH:

FINDINGS:

\*\*\*\*\*

**CHARTING RECOMMENDATIONS:** CHART PLATFORM AT SURVEYED POSITION as shown  
ON smooth sheet. -concur



AWOIS INVESTIGATION

AWOIS # 5431

DATE: 5/8/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORM

SOURCE: CL-1592/81--USPS

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,32'20.99"N	096,18'42.89"W	
OBSERVED:	28,32'20.572"N ✓	096,18'44.039"W ✓	STATION 027

POSITION DETERMINED BY: 1st ORDER CONTROLL, GPS

METHOD OF INVESTIGATION: ESTABLISHED CONTROL STATION FOR  
OPR-K228/91-3

FINDINGS: WOODEN SURVEY PLATFORM, 2x2m , BARING 2m.

\*\*\*\*\*

**DIVING INVESTIGATION**

DIVERS:

SEARCH RADIUS:

WATER VISIBILITY:

MAXIMUM DEPTH:

BOTTOM TIME:

LEAST DEPTH:

FINDINGS:

\*\*\*\*\*

**CHARTING RECOMMENDATIONS:** CHART PLATFORM AT SURVEYED POSITION as shown  
ON smooth sheet. -concur

AWOIS INVESTIGATION

AWOIS # 5432 & 5433

DATE: 7/18/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: VESSEL SAN MARY, BROKEN IN TWO SECTION

SOURCE: LNM1/75(18/75)--8th CGD  
LNM47/74(10/11/74)--8thCGD

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,32'00.99"N	096,18'30.89"W	AWOIS 5432
	28,32'10.99"N	096,18'30.89"W	AWOIS 5433
OBSERVED:	28,32'01.0 <sup>5</sup> 40"N	096,18'30.9 <sup>4</sup> 20"W	2248
	28,32'10.990"N	096,18'30.9 <sup>3</sup> 20"W	2249
	11.01		

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH BY MEANS OF SWEEPS  
ALONG EASTERN EDGE TAG LINE. SEE  
RECORD LOG FOR MORE DETAIL.

FINDINGS: NO CONTACTS.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR

SEARCH RADIUS: 400M **WIDE SWEEPS DOWN N/S AXIS COVERING**  
BOUYED AREA, TO WITHIN 6" ABOVE BOTTOM

WATER VISIBILITY: <1m

MAXIMUM DEPTH:	3.5m	BOTTOM TIME:	60 min
	3.7m		60 min
	3.7m		65 min

LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. - CONCUR

AWOIS INVESTIGATION

AWOIS # 5434

DATE: 7/17/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORM IN RUINS

SOURCE: CL1982/76---USPS

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,33'00.99"N	096,18'43.89"W	
OBSERVED:	28,32'00. <sup>8</sup> 970"N	096,18'43.950"W ✓	2242

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH.

FINDINGS: NO CONTACTS.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR

SEARCH RADIUS: 50m

WATER VISIBILITY: <1m

MAXIMUM DEPTH: 3.7m

BOTTOM TIME: 40 min

LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. -CONCUR

AWOIS INVESTIGATION

AWOIS # 5435

DATE: 7/16/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORM

SOURCE: CL-1592/81--USPS

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,31'49.99"N	096,18'41.89"W	
OBSERVED:	28,31'50.100"N	096,18'41.900"W	2239

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH.

FINDINGS: NO CONTACTS.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR  
SEARCH RADIUS: 50m  
WATER VISIBILITY: <1m  
MAXIMUM DEPTH: 3.5m                      BOTTOM TIME: 35 min  
LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. *-CONCUR*

AWOIS INVESTIGATION

AWOIS # 5473

DATE: 7/17/91

CHART # 11319

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORM IN RUINS

SOURCE: CL1982/76---USPS

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,31'04.99"N	096,18'38.89"W	
OBSERVED:	28,31'05. <sup>2</sup> <del>12</del> "N	096,18' <sup>39.14</sup> <del>37.090</del> "W	2241

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH.

FINDINGS: NO CONTACTS.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR

SEARCH RADIUS: 50m

WATER VISIBILITY: <1m

MAXIMUM DEPTH: 3.5m

BOTTOM TIME: 38 min

LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. — *CONCUR*

AWOIS INVESTIGATION

AWOIS # 5474 (same as AWOIS 5436)

DATE: 7/16/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORM

SOURCE: CL-1006/79--USPS

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,31'45.99"N	096,18'36.89"W	
OBSERVED:	28,31'45. <sup>6</sup> 9 <del>8</del> 0"N	096,18'36.940"W	2238

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH.

FINDINGS: NO CONTACTS.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR

SEARCH RADIUS: 50m

WATER VISIBILITY: <1m

MAXIMUM DEPTH: 3.5m

BOTTOM TIME: 30 min

LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. - CONCUR

AWOIS INVESTIGATION

AWOIS # 5475

DATE: 7/17/91

CHART # 11319

LAUNCH: 0519

ITEM DESCRIPTION: PLATFORM IN RUINS

SOURCE: UNKNOWN/85

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,30'55.99"N	096,18'20.89"W	
OBSERVED:	28,30'56.020"N ✓	096,18'20.900"W ✓	2240

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH.

FINDINGS: NO CONTACTS.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR

SEARCH RADIUS: 50m

WATER VISIBILITY: <1m

MAXIMUM DEPTH: 3.5m

BOTTOM TIME: 30 min

LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. - CONCUR

AWOIS INVESTIGATION

AWOIS # 5481

DATE: 7/16/91

CHART # 11317

LAUNCH: 0519

ITEM DESCRIPTION: CULSTER OF PILES

SOURCE: CL-1435/75--USPS

\*\*\*\*\*

**GEODETTIC POSITION**

	LATITUDE	LONGITUDE	POSITION
CHARTED:	28,31'03.99"N	096,17'06.89"W	
OBSERVED:	28,31'03.900"N ✓	096,17'06.900"W ✓	2237

POSITION DETERMINED BY: R/R MLOPS

METHOD OF INVESTIGATION: DIVER SEARCH.

FINDINGS: NO CONTACTS. IT SHOULD BE NOTED THAT THIS ITEM WAS REPORTABLY SCALED FROM CHART 11319, HOWEVER THIS ITEM DOES NOT EVEN LIE ON CHART 11319 ~~AS IT DOES~~ at the ~~NOT COVER THIS REPORTED POSITION.~~ reported position.

\*\*\*\*\*

**DIVE INVESTIGATION**

DIVERS: RWR, DBE, RRR  
SEARCH RADIUS: 100m  
WATER VISIBILITY: <1m  
MAXIMUM DEPTH: 3.5m                      BOTTOM TIME: 35 min  
LEAST DEPTH:

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

\*\*\*\*\*

CHARTING RECOMMENDATIONS: REMOVE FROM CURRENT CHARTS. - CONCUR



## CONTROL STATIONS as of 30 May 1991

No	Type	Latitude	Longitude	H	Cart	Freq	Vel	Code	MM/DD/YY	Station Name
001	F	028:39:08.751	096:33:48.618	0	250	0.0	0.0		05/08/91	ALCOA 1990
002	F	028:40:17.832	096:38:14.547	0	250	0.0	0.0		05/08/91	BLUF 1990
003	F	028:39:44.602	096:34:56.482	0	250	0.0	0.0		05/08/91	CAUS 1990
004	F	028:34:59.695	096:36:29.911	0	250	0.0	0.0		05/08/91	CHOC 1990
005	F	028:33:23.435	096:31:27.214	0	250	0.0	0.0		05/08/91	INDI 1990
006	F	028:30:25.466	096:28:47.523	0	250	0.0	0.0		05/08/91	IOLA 1990
007	F	028:41:53.224	096:34:34.010	0	250	0.0	0.0		05/08/91	LAVACA RIVER LIGHT 3
008	F	028:34:07.670	096:33:55.900	0	250	0.0	0.0		05/08/91	MAGNOLIA 1934
009	F	028:35:58.915	096:34:14.622	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG C FRT LT
010	F	028:36:35.748	096:35:07.087	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG C R LT
011	F	028:35:46.234	096:34:02.389	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG D FRT LT
012	F	028:35:26.693	096:34:02.933	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG D R LT
013	F	028:38:45.468	096:33:40.338	0	250	0.0	0.0		05/08/91	MITCHELL 2 1956
014	F	028:38:23.410	096:36:38.092	0	250	0.0	0.0		05/08/91	NOLE 1990
015	F	028:39:26.182	096:35:09.367	0	250	0.0	0.0		05/08/91	PIER PK 1990
016	F	028:36:57.750	096:30:48.192	0	250	0.0	0.0		05/08/91	RHOD 1990
017	F	028:34:12.754	096:29:19.106	11	250	0.0	0.0	A	05/08/91	SAND 1990
018	F	028:43:17.942	096:36:36.067	0	250	0.0	0.0		05/08/91	VEDO 1990
019	F	028:38:37.047	096:33:47.871	0	250	0.0	0.0		05/08/91	ZEPP 1989
020	F	028:26:10.962	096:20:01.576	0	250	0.0	0.0		05/08/91	TEMP 01
021	F	028:27:39.775	096:17:46.171	0	250	0.0	0.0		05/08/91	OSGOOD 2 1906
022	F	028:35:28.458	096:11:22.074	0	250	0.0	0.0		05/08/91	LAKE 2 1906
023	F	028:40:34.424	096:16:14.007	0	250	0.0	0.0		05/08/91	TURT 1991
024	F	028:36:26.854	096:24:20.046	0	250	0.0	0.0		05/08/91	DUNG 1991
025	F	028:35:13.036	096:26:49.243	0	250	0.0	0.0		05/08/91	VACA 1991
026	F	028:23:56.880	096:24:25.771	0	250	0.0	0.0		05/08/91	RUIN 1991
027	F	028:32:20.572	096:18:44.039	3	250	0.0	0.0	0	05/08/91	PLAT PK 1991
028	F	028:41:52.040	096:12:37.980	0	250	0.0	0.0		05/08/91	PALA 1991
029	F	028:38:33.080	096:14:06.707	0	250	0.0	0.0		05/08/91	INDY 1991
030	F	028:35:08.620	096:17:11.588	10	250	0.0	0.0	7	05/08/91	CHAN PK 1991
031	F	028:34:45.983	096:13:33.884	0	250	0.0	0.0		05/08/91	EROD 1991
032	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	BULL 1991
033	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	EARL 1991
034	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	3701 E 1989
035	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	IW MB PORT O CONNOR LT 2
036	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH N DREDGE LT
037	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH S DREDGE LT
038	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	PORT O CONNOR MUN TANK
039	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE L REAR LT
040	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE L FRONT LT
041	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE K FRONT LT
042	F	000:00:00.000	000:00:00.000	20	250	0.0	0.0	9	05/08/91	MATAGORDA BAY RANGE K REAR LT
043	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE A REAR LT
044	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE A FRONT LT
045	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	PORT O CONNOR CABLE TV MAST
046	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE B REAR LT
047	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATA 1934
048	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE B FRONT LT
049	F	000:00:00.000	000:00:00.000	20	250	0.0	0.0	8	05/08/91	MATAGORDA BAY RANGE H REAR LT
050	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	TRULL SAT
051	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	PALAPORT
052	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	SMYTH SAT
053	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/08/91	POE 1934
054	F	000:00:00.000	000:00:00.000	0	250	0.0	0.0		05/24/91	COON 1991



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

Pacific Hydrographic Section  
7600 Sand Point Way NE  
Seattle, WA 98115-0070

October 22, 1991

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

**ADVANCE  
INFORMATION**

Dear Sir:

During office review of the following hydrographic surveys, twenty-eight new dangers to navigation were found:

<u>Survey</u>	<u>Title</u>
H-10379	Texas, Matagorda Bay, Boggy Bayou to Powderhorn Bayou
H-10380	Texas, Matagorda Bay, 5.5 Nautical Miles Southwest of Palacios Point
H-10381	Texas, Matagorda Bay, Indianola Island to Gallinipper Point
H-10382	Texas, Matagorda Bay, Tres Palacios Bay
H-10396	Texas, Matagorda Bay, Entrance to Turtle Bay
H-10397	Texas, Matagorda Bay, 4.5 Nautical Miles East of Port O'Connor

These dangers to navigation affect the following charts:

<u>Chart</u>	<u>Edition/date</u>	<u>Datum</u>
11316	33rd ed., 1/19/91	NAD 83
11317	20th ed., 3/23/91	NAD 83
11319	22nd ed., 2/10/91	NAD 83

I recommend that the enclosed Report of Dangers to Navigation be included in the Local Notice to Mariners.

Questions concerning this report should be directed to the Pacific Hydrographic Section at (206) 526-6853.

Sincerely,

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

Enclosure

cc: DMA/TC  
N/CG221



REPORT OF DANGERS TO NAVIGATION

Hydrographic Survey Registry Numbers and Titles:

**ADVANCE  
INFORMATION**

<u>Survey Number</u>	<u>Title</u>
H-10379	Texas, Matagorda Bay, Boggy Bayou to Powderhorn Bayou
H-10380	Texas, Matagorda Bay, 5.5 Nautical Miles Southwest of Palacios Point
H-10382	Texas, Matagorda Bay, Tres Palacios Point
H-10396	Texas, Matagorda Bay, Entrance to Turtle Bay
H-10381	Texas, Matagorda Bay, Indianola Island to Gallinipper Point

Project Number: OPR-K228-AHP, Atlantic Hydrographic Party

All soundings reduced to Mean Lower Low Water using predicted tides.

Affected nautical charts:

<u>Chart</u>	<u>Edition/date</u>	<u>Datum</u>
11316	33rd ed., 1/19/91	NAD 83
11317	20th ed., 3/23/91	NAD 83

<u>Danger to Navigation</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>
8 ft shoal.....	28°29'08.0"	96°25'32.0"
8 ft shoal.....	28°29'25.0"	96°26'19.0"
9 ft shoal.....	28°30'06.0"	96°19'07.0"
10 ft shoal.....	28°30'32.0"	96°17'45.0"
9 ft shoal.....	28°30'48.0"	96°19'27.5"
7 ft shoal.....	28°31'13.0"	96°28'55.0"
9 ft shoal.....	28°31'53.0"	96°18'15.0"
5 ft shoal.....	28°32'27.0"	96°29'34.0"
7 ft soundings in the vicinity of.....	28°33'13.0"	96°28'26.0"
10 ft shoal.....	28°33'24.0"	96°19'55.0"
4 ft shoal.....	28°33'55.0"	96°31'36.0"
Submerged Platform Ruins.....	28°34'16.0"	96°17'40.0"
Charted visible platform observed as		
5 ft shoal.....	28°34'24.0"	96°32'51.0"
9 ft shoal.....	28°34'44.4"	96°17'11.4"
4 ft shoal.....	28°34'52.0"	96°33'08.0"
10 ft shoal.....	28°35'00.1"	96°19'03.8"
10 ft shoal.....	28°35'42.0"	96°19'10.8"
8 ft shoal.....	28°36'47.4"	96°18'24.0"
6 ft shoal.....	28°36'48.0"	96°17'11.4"
7 ft shoal.....	28°36'56.3"	96°16'49.2"
8 ft shoal.....	28°37'00.0"	96°20'21.0"
Visible Crib.....	28°38'24.0"	96°19'18.0"
Revise charted "5ft" note to "1/2 ft".....	28°38'27.0"	96°19'22.5"
Visible Crib.....	28°38'29.7"	96°18'46.7"
Visible Crib.....	28°38'31.8"	96°18'47.1"

Questions concerning this report should be directed to the Pacific Hydrographic Section at (206) 526-6853.

REPORT OF DANGERS TO NAVIGATION

Hydrographic Survey Registry Numbers and Titles:

**ADVANCE  
INFORMATION**

<u>Survey Number</u>	<u>Title</u>
H-10397	Texas, Matagorda Bay, 4.5 Nautical Miles East of Port O'Connor

Project Number: OPR-K228-AHP, Atlantic Hydrographic Party

All soundings reduced to Mean Lower Low Water using predicted tides.

Affected nautical charts:

<u>Chart</u>	<u>Edition/date</u>	<u>Datum</u>
11316	33rd ed., 1/19/91	NAD 83
11317	20th ed., 3/23/91	NAD 83
11319	22nd ed., 2/10/90	NAD 83

<u>Danger to Navigation</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>
5 ft shoal.....	28°27'05.0"	96°20'00.6"
Revise charted "6 ft rep" note to "5 ft rep"...	28°28'06.0"	96°17'33.0"

Questions concerning this report should be directed to the Pacific Hydrographic Section at (206) 526-6853.

APPROVAL SHEET

BASIC HYDROGRAPHIC SURVEY

OPR-K228/91-3

AHP-10-07-91

H-10380

1991

This basic hydrographic survey was conducted in accordance with the project instructions for OPR-k228/91-3, 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*

Thomas R. Waddington

Lieutenant, NOAA

Chief, Atlantic Hydrographic Party Two

ORIGINAL



**UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration**

NATIONAL OCEAN SERVICE  
Rockville, Maryland 20852

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE:** October 21, 1991

**MARINE CENTER:** Pacific

**OPR:** K228

**HYDROGRAPHIC SHEET:** H-10380

**LOCALITY:** Matagorda Bay, 5.5 N.M. SW of Palacios Point, TX

**TIME PERIOD:** May 15 - July 19, 1991

**TIDE STATIONS USED:** 877 3701 Port O'Connor, TX  
Lat. 28° 27.2'N Lon. 96° 24.3'W

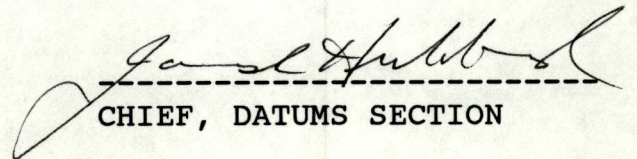
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 2.11 feet

**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.0 feet

**REMARKS: RECOMMENDED ZONING**

Zone direct

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

  
CHIEF, DATUMS SECTION



GEOGRAPHIC NAMES

Name on Survey	ON CHART NO. 11317 & 11319 ON PREVIOUS SURVEY NO. CON U.S. QUADRANGLE MAPS FROM LOCAL INFORMATION ON LOCAL MAPS P.O. GUIDE OR MAP RAND McNALLY ATLAS U.S. LIGHT LIST											
	A	B	C	D	E	F	G	H	K			
PALACIOS CHANNEL	X											1
MATAGORDA BAY	X											2
TEXAS (TITLE)												3
												4
												5
												6
												7
												8
												9
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												21
												22
												23
												24
												25

Approved:

*Charles E. Harrington*  
Chief Geographer - N/CG2x5

SEP 10 1991

**HYDROGRAPHIC SURVEY STATISTICS**

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

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION			AMOUNT
SMOOTH SHEET		1	SMOOTH OVERLAYS: POS., ARC, EXCESS			5
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	1					
ENVELOPES						
VOLUMES	1					
CAHIERS						
BOXES						

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			2183	
POSITIONS REVISED				
SOUNDINGS REVISED				
CONTROL STATIONS REVISED				
	TIME-HOURS			
	VERIFICATION	EVALUATION	TOTALS	
PRE-PROCESSING EXAMINATION				
VERIFICATION OF CONTROL				
VERIFICATION OF POSITIONS	14		14	
VERIFICATION OF SOUNDINGS	45		45	
VERIFICATION OF JUNCTIONS				
APPLICATION OF PHOTOBATHYMETRY				
SHORELINE APPLICATION/VERIFICATION				
COMPILATION OF SMOOTH SHEET	34		34	
COMPARISON WITH PRIOR SURVEYS AND CHARTS		13	13	
EVALUATION OF SIDE SCAN SONAR RECORDS				
EVALUATION OF WIRE DRAGS AND SWEEPS				
EVALUATION REPORT		25	25	
GEOGRAPHIC NAMES				
OTHER*				
*USE OTHER SIDE OF FORM FOR REMARKS	TOTALS	93	38	131

Pre-processing Examination by <b>M. Brown</b>	Beginning Date 8/7/91	Ending Date 8/23/91
Verification of Field Data by <b>R. Mihailov</b>	Time (Hours) 93	Ending Date 5/7/92
Verification Check by <b>J. Green</b>	Time (Hours) 8	Ending Date 1/23/92
Evaluation and Analysis by <b>R. Mihailov</b>	Time (Hours) 38	Ending Date 6/2/92
Inspection by <b>D. Hill</b>	Time (Hours) 4	Ending Date 6-2-92



# EVALUATION REPORT H-10380

## 1. INTRODUCTION

Survey H-10380 is a basic hydrographic survey accomplished by the Atlantic Hydrographic Party 2 under the following Project Instructions.

OPR-K228-AHP2, dated March 1, 1991  
CHANGE NO. 1, dated June 4, 1991  
CHANGE NO. 2, dated June 11, 1991

This survey occurred in Texas and covers the central portion of Matagorda Bay, approximately 5.5 nautical miles southwest of Palacios Point. The survey area extends from latitude 28/30/00(N) to latitude 28/34/21(N) and longitude 96/16/54(W) to longitude 96/20/57(W). The bottom consists mainly of fine brown mud. Depths range from 0 meters to 4.4 meters.

Predicted tides for Port O'Connor Texas, were used for the reduction of soundings during field processing. Approved hourly heights zoned from the Port O'Connor gage (877-3701) 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. The TRA, sound velocity 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 as required by the specifications contained in Hydrographic Survey Guideline 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 depiction of survey data.

## 2. CONTROL AND SHORELINE

Sections H and I in the hydrographer's report, contain adequate discussions of horizontal control and hydrographic positioning. More detailed information on horizontal control is found in the following:

GPS and Terrestrial Survey, San Antonio and Lavaca Bays Texas, October 1990 field report, Matagorda Bay Texas and vicinity, January 23, 1989 to March 13, 1989 field report and Fixed Aids to Navigation and Landmark Features, Photogrammetric Survey CM 8715, Matagorda Bay and Vicinity, October 12, 1990.

Positions of horizontal control stations used during hydrography are 1991 field and published values based on NAD 83. These values were used during office processing. The smooth sheet and accompanying overlays are annotated with NAD 27 adjustment ticks based on values determined by 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: 0.998 seconds (30.7 meters)  
Longitude: 0.896 seconds (24.4 meters)

The year of establishment of control stations shown on the smooth sheet originates with the horizontal control data for this project and published NGS data.

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. A review of the data, however, indicates that none of these fixes are used to position dangers to navigation. The soundings found by these fixes are consistent with surrounding data. These fixes are considered acceptable.

There is no shoreline within the limits of survey H-10380.

### 3. HYDROGRAPHY

Hydrography is adequate to:

- a. delineate the bottom configuration and determine least depths;
- 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.

There are no standard depth curves specified for the depths on this survey. Additional depth curves in brown have been added to better the portray the bottom configuration.

### 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, April 1990 edition.

### 5. JUNCTIONS

Survey H-10380 junctions with the following surveys.

<u>Survey</u>	<u>Year</u>	<u>Scale</u>	<u>Area</u>
H-10395	1991	10,000	Southwest
H-10396	1991	10,000	North
H-10397	1991	10,000	South
H-10405	1991	10,000	Southeast
H-10406	1991	10,000	Northeast
H-10415	1992	10,000	Northwest

The junctions with surveys H-10395 and H-10397 are complete and the soundings are in good agreement.

The junctions with surveys H-10396, H-10405, H-10406 and H-10415 can not be completed because these surveys are in preliminary office processing. The junction comparisons will be addressed in the Descriptive Reports for these surveys.

## 6. COMPARISON WITH PRIOR SURVEYS

H-5866 (1934-35) 1:20,000

Survey H-5866 covers the entire area of the present survey. This area which is common to both surveys has changed little. The greatest change has been the addition of the Federally maintained Palacios Channel, which runs through the entire survey area in a north-south direction.

Soundings between the prior and present surveys agree within one meter except in the dredged Palacios Channel and the associated spoil areas on the west side of the channel. Additional discussion can be found in section M of the hydrographer's report.

There are no AWOIS items originating from the prior survey H-5866 that apply to the present survey.

## 7. COMPARISON WITH CHART

<u>Chart</u>	<u>Edition</u>	<u>Date</u>	<u>Scale</u>	<u>Datum</u>
11317	20th	March 23, 1991	1:50,000	NAD 83
11317	19th	January 20, 1990	1:50,000	NAD 27
11319	22nd	February 10, 1990	1:40,000	NAD 83

The 19th and 20th editions of chart 11317 are identical, except for being on different datums and the addition of a few soundings that have been added from miscellaneous sources.

### a. Hydrography

Charted hydrography originates with the prior survey discussed in section 6 of this report and miscellaneous sources.

Survey H-10380 is adequate to supersede charted hydrography within the common area.

### b. AWOIS

There are thirteen AWOIS items originating from miscellaneous sources within the area of this survey. These items have been adequately discussed by the hydrographer in section N and in the item investigation forms attached to the descriptive report.

### c. Controlling Depths

A portion of Palacios Channel which is Federally maintained is located within the area limits of this survey. The majority of depths found during this survey are deeper than the charted controlling depth of 9.8 feet.

### d. Aids to Navigation

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

There are ten non-floating aids to navigation within the limits of this survey which delineate the channel for which they were intended. Palacios Channel Daybeacon 6 is located 90 meters southeast of its charted position. Palacios Channel Daybeacon 12 is located 100 meters southeast of its charted position. Palacios Channel Daybeacon 20 is located 150 meters

northeast of its charted position. The remaining aids to navigation were located by hydrographic survey methods and are listed in section P of the hydrographer's report.

There are no charted landmarks or features of landmark value within the limits of this survey.

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

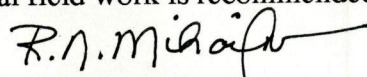
No reports of dangers to navigation were reported by the hydrographer to the USCG, DMAHTC and N/CG222. Five dangers to navigation were discovered during office processing and reported to the USCG, DMAHTC and N/CG222. A copy of this report is attached to this report.

**8. COMPLIANCE WITH INSTRUCTIONS**

Survey H-10380 adequately complies with the Project Instructions.

**9. ADDITIONAL FIELD WORK**

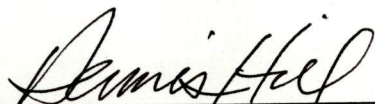
This is an good hydrographic survey. No additional field work is recommended.

  
Robert N Mihailov  
Cartographer

APPROVAL SHEET  
H-10380

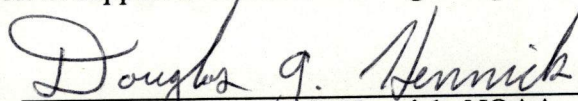
Initial Approvals:

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: 6-2-92

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.

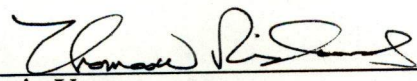
  
\_\_\_\_\_  
Commander Douglas G. Hennick, NOAA  
Chief, Pacific Hydrographic Section

Date: 6/5/92

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Final Approval

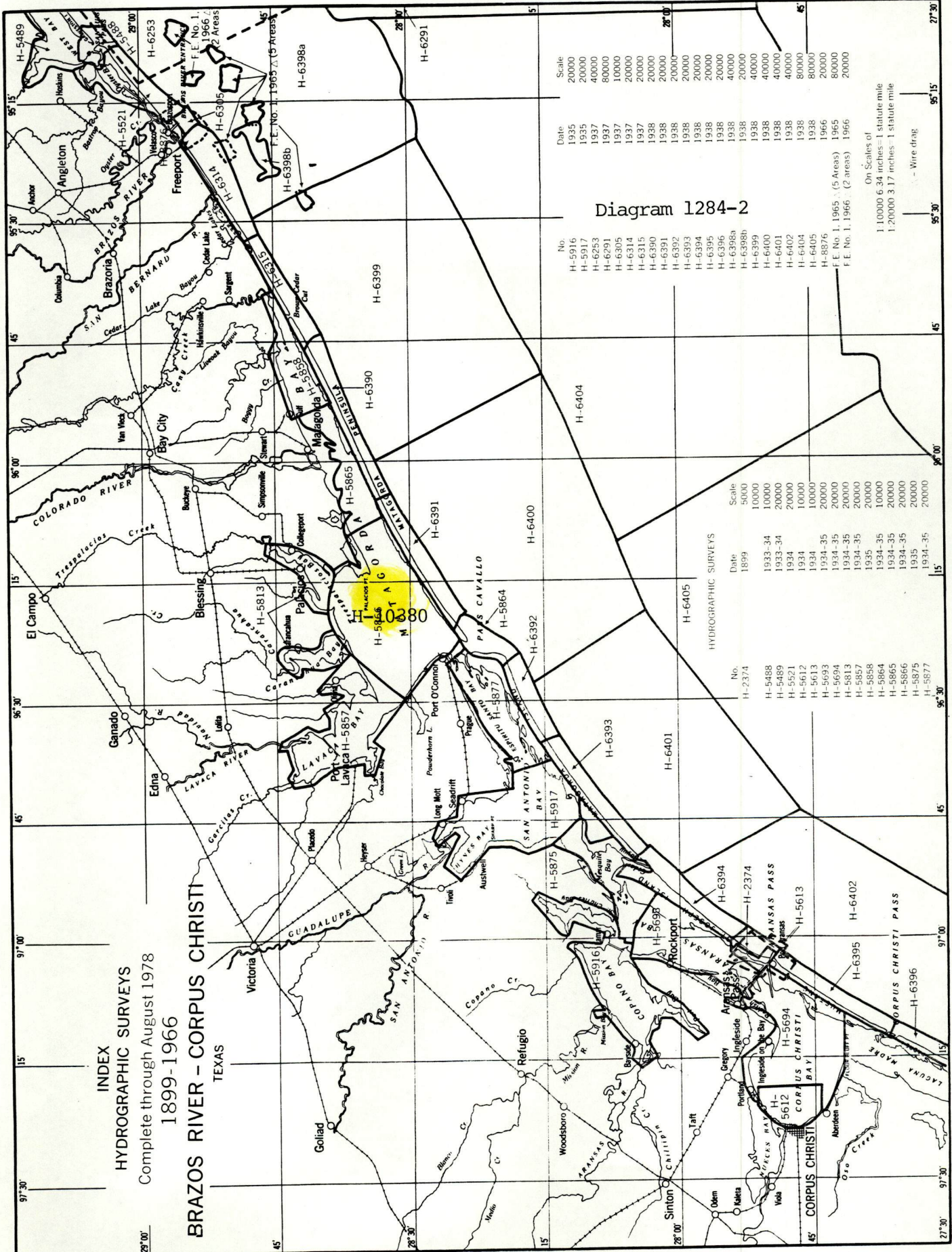
Approved:

  
\_\_\_\_\_  
for J. Austin Yeager  
Rear Admiral, NOAA  
Director, Coast and Geodetic Survey

Date: 12-7-94

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

Hydrographic Index No. 90 C



INDEX  
HYDROGRAPHIC SURVEYS  
Complete through August 1978  
1899-1966

BRAZOS RIVER - CORPUS CHRISTI  
TEXAS

Diagram 1284-2

No.	Date	Scale
H-5916	1935	20000
H-5917	1935	20000
H-6253	1937	40000
H-6291	1937	80000
H-6305	1937	10000
H-6314	1937	20000
H-6315	1937	20000
H-6390	1938	20000
H-6391	1938	20000
H-6392	1938	20000
H-6393	1938	20000
H-6394	1938	20000
H-6395	1938	20000
H-6396	1938	20000
H-6396a	1938	40000
H-6398b	1938	20000
H-6399	1938	40000
H-6400	1938	40000
H-6401	1938	40000
H-6402	1938	40000
H-6404	1938	40000
H-6405	1938	80000
H-8876	1966	20000
F.E. No. 1, 1965 (5 Areas)	1965	80000
F.E. No. 1, 1966 (2 Areas)	1966	20000

HYDROGRAPHIC SURVEYS

No.	Date	Scale
H-2374	1899	5000
H-5488	1933-34	10000
H-5489	1933-34	20000
H-5521	1934	20000
H-5612	1934	20000
H-5613	1934	20000
H-5693	1934-35	20000
H-5694	1934-35	20000
H-5813	1934-35	20000
H-5857	1934-35	20000
H-5858	1935	20000
H-5864	1934-35	10000
H-5865	1934-35	20000
H-5866	1934-35	20000
H-5875	1935	20000
H-5877	1934-35	20000

On Scales of  
1:10000 6.34 inches=1 statute mile  
1:20000 3.17 inches=1 statute mile  
- Wire drag

MARINE CHART BRANCH  
**RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-10380

**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
11316	11-4-91	R.N. Mihailov	<del>Full Part Before</del> After Marine Center Approval Signed Via <i>critical corr.</i> Drawing No. <i>applied from field sheet</i>
11319	6-1-92	R.N. Mihailov	Full <del>Part Before</del> After Marine Center Approval Signed Via <i>full application</i> Drawing No. <i>of soundings from smooth sheet</i>
<del>11319</del>	<del>7-15-92</del>	<del>Ken Foster</del>	<del>Full Part Before After Marine Center Approval Signed Via</del> <del>Drawing No. 23 Applied Critical corr only</del>
11317	7-15-92	Ken Foster	Full Part Before After Marine Center Approval Signed Via Drawing No. <i>21 Exam For Critical only</i>
11319	7-21-92	Ken Foster	Full <del>Part Before</del> After Marine Center Approval Signed Via Drawing No. <i>23</i>
11317	5/18/93	L. Arkman	Full <del>Part Before</del> After Marine Center Approval Signed Via <i>infall</i> Drawing No. <i>22 APPO PARTLY Then CHT 11319</i>
11316	6/23/93	L. Arkman	Full <del>Part Before</del> After Marine Center Approval Signed Via Drawing No. <i>50 APPO Then CHT 11317</i>
			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.
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