

10364

Diagram No. 1286-2

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. AHP2-5-1-90
Registry No. H-10364

LOCALITY

State Texas
General Locality . . . Corpus Christi Bay
Sublocality Port Ingleside

19 90-91

CHIEF OF PARTY
LCDR V.D. Ross

LIBRARY & ARCHIVES

DATE March 25, 1992

10364

CHTS

11312

11308

11309

HYDROGRAPHIC TITLE SHEET

H-10364

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.

AHP2-5-1-90

State Texas

General locality Corpus Christi Bay

Locality Port Ingleside

Scale 1:5,000 Date of survey Nov. 21, 1990 to Jan. 18, 1991

Instructions dated September 14, 1990 Project No. OPR-K299

Vessel EDP# 0518

Chief of party LCDR V. Dale Ross

Surveyed by D. Elliott, T. Rybarski

Soundings taken by echo sounder, hand lead, ~~spot~~ Innerspace Mod. #448

Graphic record scaled by DE, TR, JB, CM

Graphic record checked by DE

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

Evaluation by: C.R. Davies

Verification by: Meters

Soundings in ~~fathoms~~ feet at MLW MLLW and decimeters

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

Awards/SURR ✓ 3/30/92 SSV

R.W.W.

JOINS CHART 11309

PLANE C
Texas State G-
by dashed ticks
The last three dig

SCALE 1:40,000
Nautical Miles
Statute Miles
Yards
1000
Meters
1000

LATITUDE
30° 15' 45"
0° 50'
1° 45'

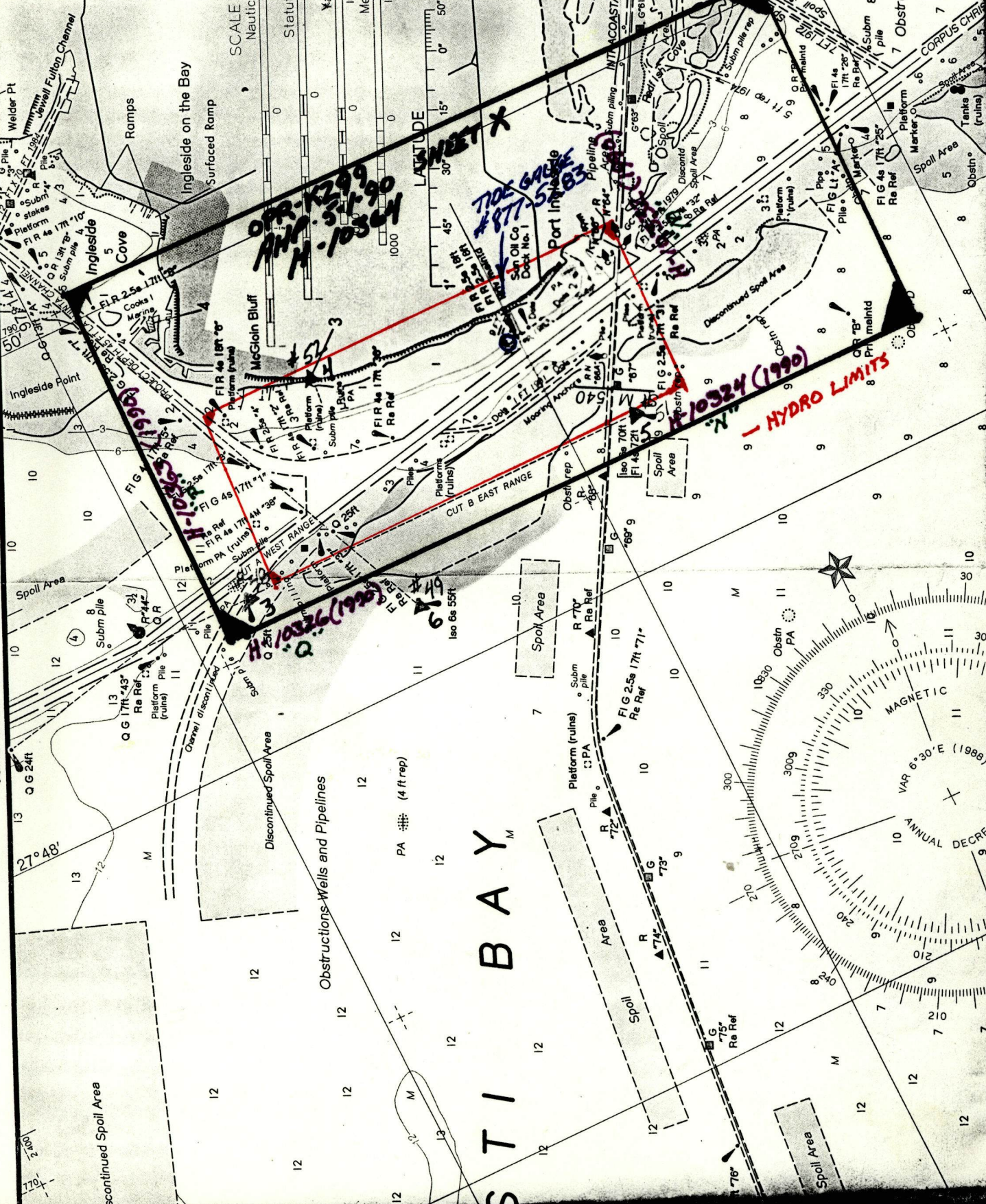
STI BAY

HYDRO LIMITS
H-10324 (1990)

OPR-1289
AMP-54-90
H-10364

702 6426
#877-5606
Port Inlet

H-10326 (1990)
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DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY H-10364
(Field No. AHP2-5-1-90)
Scale:1:5,000
1990

Atlantic Hydrographic Party Two
Chief of Party: Lt. Cdr. V. Dale Ross, NOAA

A. PROJECT ✓

This survey was conducted in accordance with Hydrographic Project Instructions OPR-K229-AHP2, Corpus Christi, Texas dated September 14, 1990.

The purpose of project OPR-K229-AHP2 is to provide modern hydrographic data to revise the existing nautical charts. In addition, the data will be used to help compile a new chart for the new naval base at Ingleside, Texas.

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

B. AREA SURVEYED ✓

The area surveyed for H-10364 covers the Redfish Bay and the northern portion of Corpus Christi Bay. The survey limits are as follows:

North - Latitude $27^{\circ}49'45''$ ⁰N (Ingleside on the Bay, Redfish Bay)
South - Latitude $27^{\circ}48'30''$ N (Corpus Christi Bay)
East - Longitude $097^{\circ}11'15''$ W (Port Ingleside, Redfish Bay)
West - Longitude $097^{\circ}13'45''$ W (Corpus Christi Bay)

Per Section 1.8 of the project instructions, main scheme lines were run to the 0.6-meter depth curve.

This survey was conducted from November 21, 1990 (DN 325) to January 18, 1991 (DN 018).

C. SOUNDING VESSEL ✓

Vessel 0518 (EDP No. 0518), 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 50 meter spacing, per Section 4.3 of the hydrographic manual.

D. AUTOMATED DATA ACQUISITION AND PROCESSING ✓

Hewlett-Packard HDAPS Programs:

Program	Version	Date
Survey	4.61	11/01/90
Constat	2.05	11/01/90
Postsur	4.17	11/01/90
Printout	2.23	11/01/90
Baseline	1.02	11/01/90
Backup	1.03	11/01/90
Quick	1.04	11/01/90
Conplot	1.02	11/01/90
Diagnostics	2.50	11/01/90
Compute	2.03	11/01/90
Point	1.20	11/01/90
Install	1.31	11/01/90
Plotall	1.77	11/01/90
Filesys	1.72	11/01/90
ABST	3.05	11/01/90
Loadnew	1.22	11/01/90
Convert	2.36	11/01/90
Inverse	1.21	11/01/90
Listawois	1.10	11/01/90
Reject	1.00	11/01/90
Carto	1.00	11/01/90
Vers	*.**	11/01/90
Backold	1.00	11/01/90
Newcont	1.00	11/01/90
Sifter	*.**	11/01/90
Tplot	*.**	11/01/90
Cellmaker	*.**	11/01/90
Readprojs	*.**	11/01/90
Reapply	*.**	11/01/90
Confile2	1.00	11/01/90
Global	*.**	11/01/90
Makefix	*.**	11/01/90
Bigabst	*.**	11/01/90
Coordut	*.**	11/01/90

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 computations (IBM PC)		6/88

E. SONAR EQUIPMENT ✓

Not applicable.

F. SOUNDING EQUIPMENT

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

EDP#	S/N	Days
0518	175	325, 330, 331, 332, 339, 340, 341, 346, 347, 362, 017, 018.

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 0.5 meter to 17.0 meters.
16.9

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. The only manipulation of this instrument was in the adjustment of the gain, while operating in a gated setting.

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 154. Program "Velocity" was used for determining the speed of sound correctors.

Velocity casts were taken in the survey area and speed of sound correctors were applied to all soundings taken during hydrography, during semi-smooth and final plotting with the HDAPS. Speed of sound tables and cast data are included in the Separates Following Survey Data. * Tables 3 and 5 had to be extended to include depths found on this survey. *See ERAC Report, Section 1*

Lead line comparisons were taken daily to determine instrument error and to verify static draft. The instrument errors computed varied from +0.04 to -0.06 meters. This instrument correction was not applied to final field sheet soundings and is included in the Separates Following Survey Data, * along with a lead line comparison log, for reference. The lead line was calibrated on November 20, 1990 with a metal tape and found to be in concordance.

Instrument error insignificant and not applied to the smooth sheet.
A static draft of 0.34 meters was applied on-line via the offset table. This was measured from a punch mark on the side of launch 0518, 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. *

* Filled with the hydrographic survey data.

Settlement and squat measurements for vessel 0518 were performed on November 8, 1990 (DN 312) at Jewell Fulton Channel in Ingleside, Texas using the NOS prescribed level rod method (Zeiss level s/n 08764). Settlement and squat correctors were determined and applied to all survey data.

The final field sheet was plotted using predicted tides determined from the Galveston Channel and correctors designated in the project instructions; +6.0 hr HW, +3.0 hr LW, x 0.30 height ratio. *The smooth sheet was plotted using approved observed tides.*

Approved water levels were requested from the Sea and Lake Levels Branch, N/OMA12, in a letter dated January 31, 1991. A copy is included in the Separates Following Survey Data *

H. CONTROL STATIONS ✓

The horizontal control datum for this project is the North American Datum of 1983. A signal list as well as a copy of the HDAPS Control Station Table is included in the Descriptive Report. **Appendices.**

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-K229-AHP2, *under Geodetic Control Report Cm-8716 and Geodetic Control Survey Job - HC-9901.*

I. HYDROGRAPHIC POSITION CONTROL ✓

Survey Methods ✓

Hydrographic position control was accomplished using Motorola Mini-Ranger Falcon 484 system which provided accuracy to meet 1:5,000 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>
0518	RPU	D0017
	R/T	F3411
	R/S	E2906 CD #3
	R/S	F3237 CD #4
	R/S	F3298 CD #5
	R/S	C2091 CD #6

* Filed with the hydrographic data

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. If more than four consecutive positions had high residuals with an erratic track plot, the data were rejected and later rerun. 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 were performed on 21 November 1990. All fixed-point check values were less than 5 meters which is within the required limits in the field procedures manual. Results of these fixed-point checks are included in the Separates Following Survey Data.*

Mini-Ranger Falcon Calibrations ✓

Baseline calibrations were performed on 1 October 1990 (DN 274) to the standards of Section 3.1.2.1 of the field procedures manual. The baseline correctors were incorporated into the Complex "C-O" table and applied directly to all "on-line" data. All records of these calibrations are included in the Separates Following Survey Data.*

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

J. SHORELINE *See Final Report section 2*

Shoreline detail shown on the final field sheet for the 1:5,000 scale was transferred by hand from TP-01613, NAD 1983 and ~~the 1:10,000 scale TP-01198, NAD 1927~~. This survey was run using the NAD 1983. A small portion of the hydrography on the eastern end of the sheet limits was run at 1:10,000 scale due to the lack of a 1:5,000 scale shoreline manuscript for comparison. Aerial photography which was used to compile the shoreline manuscript was taken at the proposed inset limits for the chart instead of the actual survey sheet limits. As per telephone conversations with the Chief, Operations, N/CG241, running the hydrography at 1:10,000 scale was the most practical way to verify the missing shoreline.

See Final Report section 2

* Filed with the hydrographic data. 5

Comparisons of hydrography to shoreline was accomplished using an approximate datum shift provided by N/CG2441. *The final datum corrections can be found in the Euse Report, section 2.*

The shoreline manuscript was compiled at 1:7,500 scale, and enlarged to 1:5,000 scale for use with the major portion of this survey. The additional manuscript was compiled at 1:20,000 scale and enlarged to 1:10,000 scale for the additional shoreline to junction with sheet "M" (H-10332). *See Euse Report section 2*

The shoreline was verified by its junction with hydrographic data and by visual inspection when possible. The majority of shoreline agreed well with the shoreline manuscript which should take precedent over the current charted shoreline, with the following exceptions, the area encompassing Naval Station Ingleside. *Shoreline shown in red between latitude 27°49'14" N, longitude 97°12'08" W and latitude 27°49'16" N, longitude 97°12'35" W.*

K. CROSSLINES ✓

A total of 20.0 linear nautical miles of channel and cross-lines were run on H-10364 which serve as comparison for main scheme soundings and equals 48% of the main scheme hydrography. These soundings agree to within 0.3 meter of the main scheme soundings.

L. JUNCTIONS *See Euse Report section 5*

The hydrography run on this sheet junctions with H-10332 (May 1990) to the east and H-10363 (Jan 1991) to the west.

Junction soundings between the present survey and H-5694 do not agree well and are discussed in detail in section "M" in this text. *Survey H-5694 is a prior survey and not a junction survey.*

Junction soundings between the present survey and H-10332 (May 1990) agree well, within 0.6 meter. Junction soundings between the present survey and H-10363 (Jan 1991) are likewise in good agreement, within 0.5 meter.

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

The present survey was compared to the following prior surveys:

<u>Survey NO.</u>	<u>Scale</u>	<u>Year</u>
H-5694	1:20,000	1934-35
T-9177	1:20,000	1949
T-9184	1:20,000	1948-51

H-5694 was found to represent no significant value with respect to shoreline details and is superseded by TP-01613 in this area of comparison. This prior survey was likewise found to be of little use with respect to isobath definitions, and most soundings within the surveyed area. This was due to major dredging operations conducted by the U.S. Army Corps of Engineers in Corpus Christi ship channel. These operations changed the bathymetric profiles so drastically they rendered comparisons unrealistic. According to Mr. Robert Beggs, Area Engineer, of the Corpus Christi U.S. Army Corps of Engineers, dredging operations began on 27 December 1989 and were terminated on 5 September 1990. These dates will be referred to in section "N" of this report in regard to the clarification of several AWOIS items. The bottom samples taken during H-10364 were found to be in general agreement with H-5694. The hydrographer recommends that H-5694 be superseded by H-10364 in the common survey area, in all respects. *Concur*

T-9177 was found to represent no significant value and is superseded by TP-01613 in all respects. The hydrographer recommends removal of T-9177 from future comparisons. *T-9177 does not fall within the surveyed area.*

T-9184 was found to represent no significant value and is superseded by TP-01613 in all respects. The hydrographer recommends removal of T-9184 from future comparisons. *Do not Concur*
See Envr Report, section 6.

There have been significant changes to the spoil islands to the south of, and running parallel to the ship channel. These changes are accurately depicted on the shoreline manuscript, which should take precedent over prior survey H-5694. *Concur*

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

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

<u>Chart No.</u>	<u>Edition</u>	<u>Edition Date</u>
11309	30th	December 2, 1989
11308	15th	July 9, 1988
11308	16th	Aug. 25, 1990
11312	1st	June 23, 1990

Sounding agreement between charted soundings and H-10364 was good. Although very few soundings exist in the survey area due to the large channel which prevented the standard sounding comparison. Channel depths are indicated on the chart tabulations. Sounding agreement between the tabulated channel depths and H-10364 agree from between 0.5 and 1.0 meter, with the charted soundings being the shallower of the two. *Concur*

The isobaths compared favorably between survey H-10364 and the charts, with consideration given to the shift from feet to meters. The survey was acquired and plotted in meters. Comparisons were made during and after data acquisition.

All AWOIS items (total of 36) 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. Some of these items are described in this section for further clarification. The hydrographer strongly recommends that the verifier have a plot of the charted features, AWOIS items, (ie. Field Sheet) and the surveyed detached positions on the Overlay for comparison. This will serve as a visual aid and will prove to be significant when interpreting the items mentioned in this section.

AWOIS #4856 was addressed on sheet "Q", H-10326 (1990).

AWOIS #6041 was addressed on sheet "N", H-10324 (1989).

AWOIS #'s 6042, 6043 and 6046 were addressed on sheet "M", H-10332 (1990).

AWOIS #'s 6035-6040 are all described as visible dolphins. Upon investigation, the hydrographer found two rows of dolphins. The row closest to the channel are large 10-meter square concrete mooring dolphins with green lights. However, on TP-01613 they are depicted as platforms. The second row between the aforementioned moorings and the spoil island are concrete and wood dolphins with accompanying wooden piles at respective corners. Due to the apparent confusion between which feature is the actual scaled position, the hydrographer positioned every dolphin in the surrounding area. In regard to any detached positions plotting outside the search radii for these features, an extensive search by echosounder was conducted in this region revealing no additional dolphins nor any dangers to navigation. Recently the hydrographer received Chart 11312, 1st edition 23 June 1990 (For Official Use Only). Upon reviewing this chart the hydrographer noticed the scaled positions for AWOIS #'s 6035-6040 have been charted as dolphins creating a third row of dolphins that do not exist. The Chief, Operations, N/CG241, was consulted regarding this apparent error and informed the hydrographer of the U.S. Navy's urgency in receiving this chart. Due to apparent errors in the compilation of this chart, the hydrographer deems the use of this chart for any further comparison extraneous. *See AWOIS Investigation Forms following the report for latitudes and longitudes and depths. Chart 11312 was compared with charts according to this survey.*

There are three features on the field sheet transferred from TP-01613 that have been resolved using the "local knowledge" of the U.S. Army Corps of Engineers. They are labeled as non-existing on the field sheet due to extensive dredging operations conducted between 27 December 1989 and 5 September 1990, according to Mr.

Robert Beggs, Area Engineer (512-884-3385). The hydrographer recommends the removal of these features. The approximate geographic positions of these items are as follows: *Concur*

Dol - 27°49'00.0" latitude N and 097°11'58.5" longitude W.

Dol - 27°49'02.9" latitude N and 097°11'45.1" longitude W.

Obstr -27°49'06.5" latitude N and 097°11'57.0" longitude W,
These features are not shown on the smooth sheet.

All AWOIS items constituting soundings appear in this section and will not be found in The Separates Following Survey Data.

AWOIS #6047 originates from CL1250/82--CPR 5 as a 42-foot sounding at 27°49'07.1" latitude N and 097°12'00.9" longitude W. The lines of soundings in this general vicinity indicate ¹⁴ meters (46 ft.) of depth. The dredging previously mentioned in sections "M" and "N" of this report, accounts for the increase in depth. The hydrographer recommends, upon completion of verification, that this sounding be revised with smooth tides applied. *Concur. Revise note to "44 ft 1990". See Encl Report Section 7.C.*

AWOIS #6051 originates from CL816/53--1952 as a 9-foot dredged channel at 27°49'11.1" latitude N and 097°12'04.9" longitude W. The charted channel extending north from the Corpus Christi ship channel and turning east to the base of an oil company bulk petroleum transfer facility no longer exists. The hydrography conducted in this area portrays a few soundings reflective of the 9-foot depth reported offshore at the charted location. However, the soundings show 0.87 meter approximately 100 meters from the terminus of the charted dashed lines representing this channel. In a conversation with Mr. Rick Thielen, Terminal Foreman (512-643-1818), on 25 January 1991, he informed the surveying hydrographer that no channel has existed in this area for the past twenty years. The existence of this channel, according to Mr. Thielen, originates from a boathouse, circa 1950, that has been replaced by the fuel terminal. Mr. Thielen's "local knowledge" was invaluable for this item and additional items in the vicinity, as described in the following paragraphs.

The depth curves accurately depict the results of recent dredging and the hydrographer recommends the removal of the dashed lines, indicating a defined channel, on future charts. *Concur, See Encl Report, section 7.C.*

AWOIS #6048 originates from CL810/53--COE as a visible pile at 27°49'09.1" latitude N and 097°12'01.5" longitude W. This scaled position plots near the southwest corner of the bulk fuel petroleum transfer station. According to Mr. Rick Thielen, Terminal Foreman, this is the southwest corner of their pier which is accurately portrayed on the chart. The center of this feature falls inside of the dredging limits for 1989-1990, as discussed in section "N" of

this report, and are resolved. The hydrographer recommends nothing more than changing the name of the fuel terminal from Sunoco. This terminal has been purchased by the Koch Gathering Systems Inc. *CMW*

Chart area according to the smooth sheet.

AWOIS #'s 6049 and 6050 originate from CL816/53--COE, as visible piles and may be found in the Separates Following Survey Data. These items are moorings and have detached positions as well as photographs* to eliminate confusion. Mr. Rick Thielen, see the previous paragraphs, assured the surveying hydrographer that no piles have existed since 1970 and some dredging has occurred in the vicinity of item #6050, a mooring ^{dolphin} buoy. AWOIS #6049 is a hard and fast concrete and steel mooring ^{dolphin} built during the construction of the fuel terminal. The three dolphins portrayed to the east of the fuel terminal are actually steel mooring buoys. These items have detached positions and detailed descriptions on the fathogram. The surveying hydrographer recommends the charting of these features as found during H-10364 and the removal of all conflicting scaled *CMW* positions in the area. See Awois Investigation forms following this report for Awois 6049 & 6050.

O. ADEQUACY OF SURVEY *See Form Report, section 6 and 7*

This survey is a complete basic hydrographic survey and is adequate to supersede all prior surveys within the common area. The result of this survey being conducted at two survey scales has been discussed in section "J" of this report and the purpose of the 10,000 scale was primarily for shoreline verification.

P. AIDS TO NAVIGATION ✓

Five floating aids to navigation are within the sheet limits. These buoys were located by detached positions and serve their intended purposes. Only two floating aids were located on H-10364, (1990) Red Nun #66A and Green Can #65A, between the spoil islands in the Intracoastal Waterway. The remaining buoys; Green Can #64, Red Nuns #65 and #66; were located during H-10332 (1990). *one buoy has been transferred to survey H-10364, Ndb.*

Ten non-floating aids to navigation were located within the survey area.

<u>Non-Floating Aid</u>	<u>Survey Position</u>	<u>Light List Position</u>
Koch Terminal Dock Quick Fl Red Light (Priv. Maintd.)	27°49'10.6" N 97°11'56.7" W	27°49.1' N 97°11.9' W
Koch Terminal Dock Quick Fl Red Light (Priv. Maintd.)	27°49'09.8" N 97°12'00.7" W	Formerly Sunoco Terminal Dock Lights LLN 27255

* filed with the hydrographic ¹⁰ records

Corpus Christi Bay	27°49'00.7" N	27°49.0' N
Corpus Christi Channel	97°12'46.9" W	97°12.7' W
Fl Red Light 36		LLN 27260
Corpus Christi Bay	27°48'45.9" N	No published position
Corpus Christi Channel	97°13'17.1" W	LLN 27265
Fl Green Light 37		
Corpus Christi Bay	27°48'53.8" N	No published position
Corpus Christi Channel	97°13'19.4" W	LLN 27270
Fl Red Light 38		
Corpus Christi Bay	27°49'01.3" N	27°49.0' N
La Quinta Channel	97°13'19.8" W	97°13.3' W
Fl Green Light 1		LLN 27505
Corpus Christi Bay	27°49'06.6" N	No published position
La Quinta Channel	97°13'07.0" W	LLN 27510
Fl Red Light 2		
Corpus Christi Bay	27°49'09.3" N	No published position
La Quinta Channel	97°13'27.2" W	LLN 27515
Fl Green Light 3		
Corpus Christi Bay	27°49'14.1" N	No published position
La Quinta Channel	97°13'19.5" W	LLN 27520
Fl Red Light 4		
Intracoastal Waterway	27°48'45.9" N	No published position
Corpus Christi Bay	97°11'43.3" W	LLN 36025
Green Daybeacon 67		

Two additional fixed aids were transferred to this ^{from} survey, H-10363, La Quinta Channel Lights 36.

The non-floating aids to navigation are in good agreement with existing charts and U.S. Coast Guard Light List Volume IV, 1990. The only discrepancies noted were La Quinta Channel Light numbers one and four which show a fifty-meter shift north, with respect to the channel locations on TP-01613. The position for LLN 27505, La Quinta Channel Light 1 reflects no change and LLN 27520, La Quinta Channel Light 4 is unpublished. All markers are in good condition and serve their intended purpose. *Concur*

Two pipelines exist on the eastern edge of the survey area. No recommendation is made to chart these pipelines. Per a telephone conversation with Mr. James Daily, in the Mapping and Charting Branch (N/CG2222), the current NOAA policy regarding charting of the pipelines in this survey area is to let the magenta warning of "obstructions, wells, and pipelines" suffice.

Q. STATISTICS ✓

<u>Description</u>	<u>Quantities</u>
Total Positions	855
Detached Positions	73
Duplicate Positions	2
Total Nautical Miles of Hydro	66.4
Sq. Nautical Miles of Hydrography	2.0
Bottom Samples	25
Velocity cast	6
Days of Production	12

R. MISCELLANEOUS ✓

Bottom samples were taken and submitted to the Smithsonian Institution as directed in Section 6.7 of the project instructions. Twentyfive bottom samples were transmitted on January 29, 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.

No anomalous currents were observed in the survey area.

Prevailing winds and high and low pressure weather systems in the Corpus Christi area have a dramatic effect on the water levels within these bays. These winds and weather systems create extreme high or low tides^{which} negate the typical daily predicted tide curves.

S. RECOMMENDATIONS *See EVAL Report section 9*

The hydrographer recommends that AWOIS items which are seaward of the high water line take precedence over any feature reported by the U.S. Power Squadron or Coast Guard Auxillary due to the inaccuracy incurred during the scaling of those features. Many hours of lost production are attributable to shoreline features being plotted inaccurately by these groups. 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>
Descriptive Report To Accompany Survey H-10332	Pacific Hydrographic Section Seattle, Washington, N/CG244
Descriptive Report To Accompany Survey H-10324	Pacific Hydrographic Section Seattle, Washington, N/CG244
Descriptive Report To Accompany Survey H-10326	Pacific Hydrographic Section Seattle, Washington, N/CG244
Descriptive Report To Accompany Survey H-10363	Pacific Hydrographic Section Seattle, Washington, N/CG244
Horizontal Control Report for OPR-K229-AHP2	Field Photogrammetry Section Norfolk, Virginia, N/CG233
Chart Sales Agent Report	Chart Distribution Branch Rockville, Maryland, N/CG33
User Evaluation Report	Atlantic Hydrographic Section Norfolk, Virginia, N/CG244
Chart Inspection Report	Atlantic Hydrographic Section Norfolk, Virginia, N/CG244
Coast Pilot Report	Coast Pilot Section Mapping and Charting Branch N/CG223 Rockville, MD

Submitted by:



David B. Elliott, Launch Hydrographer in Charge

AWOIS INVESTIGATION

AWOIS # 4854

DATE: November 26, 1990

DN 330

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Platform--^{PA.}later revised, "ruins" added.

SOURCE: CL995/82

Revision - CL180/86--Whiting Chart Correction Report

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/55.60	097/13/29.96	NAD 83
OBSERVED:	027/48/55.62	097/13/ ^{29.98} 30-0	70

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--50-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski

SEARCH RADIUS: 50 meters

WATER VISIBILITY: 1-2 meters

MAXIMUM DEPTH: 15 feet BOTTOM TIME: 30 minutes

LEAST DEPTH: N/A

FINDINGS: The diver's 50-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

Concur

[Signature]

AWOIS INVESTIGATION

AWOIS # 4855

DATE: November 26, 1990
DV 330

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Submerged Pile.

SOURCE: Unknown

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/53.10	097/13/27.96	NAD 83
OBSERVED:	027/48/53. 106	097/13/27.95	71

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 1-2 meters
MAXIMUM DEPTH: 14 feet BOTTOM TIME: 45 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

gmd *CMW*

AWOIS INVESTIGATION

AWOIS # 4861

DATE: December 6, 1990

CHART # 11309

VESSEL: 0518
ON 340

ITEM DESCRIPTION: Submerged Pile

SOURCE: Unknown

GEODETTIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/40.10	097/13/34.46	NAD 83
OBSERVED:	027/48/ ^{39.97} 40.0	097/13/34. ³⁸ 4	399

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 1.5 meters
MAXIMUM DEPTH: 6 feet BOTTOM TIME: 20 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

CONCUR
9/2/91

AWOIS INVESTIGATION

AWOIS # 4862

DATE: December 6, 1990

CHART # 11309

VESSEL: 0518

DN 340

ITEM DESCRIPTION: Submerged Pile

SOURCE: Unknown

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/40.60	097/13/31.96	NAD 83
OBSERVED:	027/48/40. 6 57	097/13/32. 0 ⁹⁴	400

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 2 meters
MAXIMUM DEPTH: 6 feet BOTTOM TIME: 25 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

CMLW

AWOIS INVESTIGATION

AWOIS # 4863

DATE: December 6, 1990

CHART # 11309

VESSEL: 0518

DN 340

ITEM DESCRIPTION: Submerged Pile

SOURCE: Unknown

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/41.10	097/13/29.46	NAD 83
OBSERVED:	027/48/41. ⁰⁸ ₄	097/13/29.32	401

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--150-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 150 meters
WATER VISIBILITY: 2 meters
MAXIMUM DEPTH: 6 feet BOTTOM TIME: 38 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 150-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

Concur
A 200 meter radius drag was required but with the overlap of Awois 4862 and 4864, the required area is considered complete.

AWOIS INVESTIGATION

AWOIS # 4864

DATE: December 6, 1990

CHART # 11309

VESSEL: 0518

DN 340

ITEM DESCRIPTION: Submerged Pile

SOURCE: Unknown

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/42.60	097/13/25.96	NAD 83
OBSERVED:	027/48/42.64	097/13/26.00	402

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--175-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 175 meters
WATER VISIBILITY: 2 meters
MAXIMUM DEPTH: 8 feet BOTTOM TIME: 45 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 175-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

a 200 meter radius drag was required to disprove this item. With the overlap areas items 4863 and 4865 the required area was completely searched.

uppd

AWOIS INVESTIGATION

AWOIS # 4865

DATE: December 6, 1990

DN 340

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Platform

SOURCE: Unknown

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/44.60	097/13/20.96	NAD 83
OBSERVED:	027/48/44.658	097/13/21.096	403

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--50-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 50 meters
WATER VISIBILITY: 2 meters
MAXIMUM DEPTH: 6 feet BOTTOM TIME: 20 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 50-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

opps

AWOIS INVESTIGATION

AWOIS # 4866

DATE: December 6, 1990

DN 340

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible Pile

SOURCE: Unknown

GEODETTIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/45.10	097/13/13.96	NAD 83
OBSERVED:	027/48/45.215	097/13/14.00	404

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 2 meters
MAXIMUM DEPTH: 7 feet BOTTOM TIME: 25 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

Concur

Copy

AWOIS INVESTIGATION

AWOIS # 4867

DATE: December 6, 1990

DN 340

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible Pile

SOURCE: Unknown

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/40.10	097/13/07.96	NAD 83
OBSERVED:	027/48/42.239	097/13/07.094	405

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: 75-meter radius visual and wading search.

FINDINGS: Nothing Found. Launch hard aground at above observed position. The item would be approximately 75 meters south and would plot on land according to the coordinates in the AWOIS listing dated 9/12/90. There are no signs of any piles or stakes which could be related to this item along shore.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

A 100 meter radius drag was required but with overlap of Awois items 4866 and 4868 the required area was complete.

2001

AWOIS INVESTIGATION

AWOIS # 4868

DATE: December 6, 1990

CHART # 11309

VESSEL: 0518

DN 340

ITEM DESCRIPTION: Visible Pile

SOURCE: Unknown

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/44.10	097/13/05.46	NAD 83
OBSERVED:	027/48/44.107	097/13/05.52	406

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 2 meters
MAXIMUM DEPTH: 5 feet BOTTOM TIME: 25 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

Concur

01/11/91

AWOIS INVESTIGATION

AWOIS # 6035

DATE: November 27, 1990

DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible dolphin

SOURCE: CL335/80

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/01.10	097/11/44.96	NAD 83
OBSERVED:	027/49/ ^{01.93} 00.5	097/11/ ^{5.72} 43.8	73 88

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Mooring dolphin of concrete and wood with green light.
Dimensions: 5 meters square. ^{4.1} BARS ³ 2 meters.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this ^{CHARTED} item
be ~~charted~~ ^{revised} ~~to~~ the above observed position. *Concur*

27

AWOIS INVESTIGATION

AWOIS # 6036

DATE: November 27, 1990

DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible dolphin

SOURCE: CL335/80

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/00.10	097/11/47.96	NAD 83
OBSERVED:	<i>9 01.34</i> 027/48/59.6	<i>34</i> 097/11/48.6	<i>7487</i>

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Mooring dolphin of concrete and wood with green light.
Dimensions: 5 meters square. BARES *4.1* meters.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this ^{CHARTED} item
be ~~charted~~ _{revised} to the above observed position. *CONCUR*

2/27/91

AWOIS INVESTIGATION

AWOIS # 6037

DATE: November 27, 1990

01331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible dolphin

SOURCE: CL335/80

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/59.10	097/11/54.96	NAD 83
OBSERVED:	<i>49 00.19</i> 027/48/56.9	<i>4.84</i> 097/11/52.4	76 86

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Mooring dolphin of concrete and wood with green light.
Dimensions: 5 meters square. BARES ~~2~~ meters.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this ^{CHARTED} item
be ~~charted~~ _{revised} at the above observed position. *Concur*

Ami

AWOIS INVESTIGATION

AWOIS # 6038

DATE: November 27, 1990

DV 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible dolphin

SOURCE: CL335/80

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/58.60	097/11/57.96	NAD 83
OBSERVED:	027/48/ ^{9.55} 57.6	097/11/ ^{8.18} 59.1	7785

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Mooring dolphin of concrete and wood with green light.
Dimensions: 5 meters square. BARS ^{4.1}~~2~~ meters.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this ^{charted} item
be ~~charted~~ ^{revised} at the above observed position. *Concur*

Byrd

AWOIS INVESTIGATION

AWOIS # 6039

DATE: November 27, 1990

21331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible dolphin

SOURCE: CL335/80

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/57.10	097/12/06.96	NAD 83
OBSERVED:	027/48/56. ⁷ 52 7.91	097/12/03. 8 6.73	79 84

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Mooring dolphin of concrete and wood with green light.
Dimensions: 5 meters square. *BARES 2 meters.*
4.1

CHARTING RECOMMENDATIONS: The hydrographer recommends that this ^{*charted*} item
be ~~charted~~ ^{*revised*} at the above observed position. *COMLW*

approved

AWOIS INVESTIGATION

AWOIS # 6040

DATE: November 27, 1990

DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible dolphin

SOURCE: CL335/80

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/56.10	097/12/10.96	NAD 83
OBSERVED:	027/48/ ^{7.24} 55.1	097/12/ ^{1.26} 12.6	80 82

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Mooring dolphin of concrete and wood with green light.
Dimensions: 5 meters square. BARS ~~2~~ ^{4.1} meters.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this ^{charted} item be ~~charted~~ _{revised} to the above observed position. *COMWY*

9/27/90

AWOIS INVESTIGATION

AWOIS # 6044

DATE: November 2~~6~~⁷, 1990
21331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Two submerged dolphins.

SOURCE: Unknown--1969

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/17.09	097/11/37.96	NAD 83
OBSERVED:	027/49/17.06	097/11/38.405	100

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 1.0 meter
MAXIMUM DEPTH: 5 feet BOTTOM TIME: 30 min.
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *concur*

[Handwritten signature]

AWOIS INVESTIGATION

AWOIS # 6045

DATE: November 27, 1990

DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible wreck, position approximate--later revised to submerged wreck, position approximate.

SOURCE: CL1497/70--USPS

Revision: CL970/72

GEODETC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/18.59	097/11/38.96	NAD 83
OBSERVED:	027/49/ ^{19.97} 20.0	097/11/38.74	99

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual search.

FINDINGS: Triangle shaped steel obstruction baring 1.⁶ meters.
Dimensions: 10 meters on each side.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this area be noted as foul and that the 'wreck, PA' be revised to 'obstr.' *Do not concur*
Delete subm wk PA, and chart obstr at the above position.

OK

AWOIS INVESTIGATION

AWOIS # 6049

DATE: November 27, 1990

DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible pile.

SOURCE: CL816/53

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/11.09	097/12/01.96	NAD 83
OBSERVED:	027/49/12.11	097/12/01. ⁸⁷ 9	92

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Concrete and steel mooring. Bares 1.⁶/₈ meters.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be charted at the above observed position. *chart as dolphin.*

aynd

AWOIS INVESTIGATION

AWOIS # 6050

DATE: November 27, 1990

DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible pile.

SOURCE: CL816/53

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/10.09	097/12/04.96	NAD 83
OBSERVED:	027/49/ ^{11.06} 09.9	097/12/ ^{4.90} 06.3	⁹⁰ 40.7

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Steel mooring ^{Dolphin} buoy. Dimensions: ~~2 meters square~~.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be charted at the above observed position. *Chart dolphin at the above position.*

977

AWOIS INVESTIGATION

AWOIS # 6052

DATE: November 2^Z, 1990
DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible pile

SOURCE: BP49135--1952, COE

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/55.10	097/12/21.96	NAD 83
OBSERVED:	027/48/55.405	097/12/21.70	101

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--75-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 75 meters
WATER VISIBILITY: 1.0 meter
MAXIMUM DEPTH: 9 feet BOTTOM TIME: 30 min.
LEAST DEPTH: N/A

FINDINGS: The diver's 75-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *cancel*

cancel

AWOIS INVESTIGATION

AWOIS # 6053

DATE: November 2⁷, 1990
DN 331

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Two platforms--later reported missing and "ruins" added to chart.

SOURCE: BP68285--1965, COE
Revision: CL1460/80--USPS

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/53.60	097/12/31.96	NAD 83
OBSERVED:	027/48/53.6 ⁵⁸	097/12/31.9 ⁴	103

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--50-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 50 meters
WATER VISIBILITY: 1.0 meter
MAXIMUM DEPTH: 10 feet BOTTOM TIME: 30 min.
LEAST DEPTH: N/A

FINDINGS: The diver's 50-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Conley*

2/1/91

AWOIS INVESTIGATION

AWOIS # 6054

DATE: December 5, 1990

DN 339

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible Pile

SOURCE: BP49135--1952, COE

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/52.10	097/12/41.96	NAD 83
OBSERVED:	027/48/52.218	097/12/42.01	396

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--50-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 50 meters
WATER VISIBILITY: 1.5 meters
MAXIMUM DEPTH: 10 feet BOTTOM TIME: 30 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 50-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Conund*

Conund

AWOIS INVESTIGATION

AWOIS # 6055

DATE: December 5, 1990
DN 339

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Visible Pile

SOURCE: BP49135--1952, COE

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/48/48.60	097/12/52.96	NAD 83
OBSERVED:	027/48/48.56	097/12/53.0 ^{2.98}	397

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--50-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 50 meters
WATER VISIBILITY: 1.5 meters
MAXIMUM DEPTH: 8 feet BOTTOM TIME: 25 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 50-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

app

AWOIS INVESTIGATION

AWOIS # 6056

DATE: December 5, 1990

CHART # 11309

VESSEL: 0518

21339

ITEM DESCRIPTION: Visible Pile

SOURCE: BP68285--1965, COE

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/02.10	097/12/53.96	NAD 83
OBSERVED:	027/49/02.408	097/12/54.0 ^{3.94}	398

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 1.5 meters
MAXIMUM DEPTH: 10 feet BOTTOM TIME: 35 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

Concur

21339

AWOIS INVESTIGATION

AWOIS # 6057

DATE: December 7, 1990

CHART # 11309

DN 341
VESSEL: 0518

ITEM DESCRIPTION: Submerged Piles

SOURCE: Unknown

GEODETTIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/03.60	097/13/03.46	NAD 83
OBSERVED:	027/49/03.6 ⁵⁵	097/13/03.6 ⁵⁷	408

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 1.5 meters
MAXIMUM DEPTH: 16 feet BOTTOM TIME: 35 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

atp

AWOIS INVESTIGATION

AWOIS # 6058

DATE: December 7, 1990

CHART # 11309

DN 341
VESSEL: 0518

ITEM DESCRIPTION: Platform, later revised to include "ruins."

SOURCE: BP68285--1965, COE
Revision: CL1460/80--USPS

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/07.09	097/13/05.96	NAD 83
OBSERVED:	027/49/07.13	097/13/05.92	409

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--50-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 50 meters
WATER VISIBILITY: 1.5 meters
MAXIMUM DEPTH: 10 feet BOTTOM TIME: 30 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 50-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

ajp

AWOIS INVESTIGATION

AWOIS # 6059

DATE: December 7, 1990

DN 341

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Pier, position approximate.

SOURCE: CL1071/69

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/13.09	097/12/51.96	NAD 83
OBSERVED:	027/49/13. ^{2.97} 0	097/12/51.80	410

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual and wading search to 20 meters on either side of scaled position.

FINDINGS: Nothing Found. This search was conducted in 0.5 meters of water. There are no pier ruins between this position and shore.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

DN 341

AWOIS INVESTIGATION

AWOIS # 6060

DATE: December 7, 1990

CHART # 11309

DN 341
VESSEL: 0518

ITEM DESCRIPTION: Pier ruins.

SOURCE: CL1266/69--COE Permit

GEODETIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/16.09	097/12/57.96	NAD 83
OBSERVED:	027/49/16.10	097/12/57.9f	411

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual and wading search to 20 meters on either side of scaled position.

FINDINGS: Nothing Found. This search was conducted in 0.5 meters of water. There are no pier ruins of any kind in this area.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart. *Concur*

copy

AWOIS INVESTIGATION

AWOIS # 6061

DATE: December 7, 1990

DN 341

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Platform.

SOURCE: BP65083--7/19/63, COE

GEODETTIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/21.09	097/12/24.96	NAD 83
OBSERVED:	027/49/21.108	097/13/25-0 ^{4.99}	417

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Diving investigation--100-meter radius circle search.

FINDINGS: Nothing Found

DIVING INVESTIGATION

DIVERS: D. Elliott and T. Rybarski
SEARCH RADIUS: 100 meters
WATER VISIBILITY: 1 meter
MAXIMUM DEPTH: 12 feet BOTTOM TIME: 40 minutes
LEAST DEPTH: N/A

FINDINGS: The diver's 100-meter radius circle search disclosed nothing.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be removed from the chart.

Omly

DN 341

AWOIS INVESTIGATION

AWOIS # 6062

DATE: December 7, 1990
DN 341

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: ⁶ piers, 1 pier ruin.

SOURCE: Unknown

GEODETTIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/23.09	097/13/10.96	NAD 83
OBSERVED:	027/49/22.04	097/13/11.64	413

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual search.

FINDINGS: The observed position is the offshore end of a "T" shaped wooden pier with a boat house. The pier bares 1 meter. This feature is not in ruins. Seven piers are charted on the T-sheet and all seven exist as charted.

CHARTING RECOMMENDATIONS: The hydrographer recommends that "ruins" be removed from the chart and that an active pier be charted in the above observed position. *Concur Chart the other six piers as shown on shoreline map TP-01613.*

CPM

AWOIS INVESTIGATION

AWOIS # 6063

DATE: December 7, 1990
211341

CHART # 11309

VESSEL: 0518

ITEM DESCRIPTION: Pier.

SOURCE: Unknown

GEODETTIC POSITION

	LATITUDE	LONGITUDE	POSITION
CHARTED:	027/49/26.09	097/13/16.96	NAD 83
OBSERVED:	027/49/23.2/4	097/13/19.83	415

POSITION DETERMINED BY: Falcon Mini-Ranger MLOP

METHOD OF INVESTIGATION: Visual search.

FINDINGS: The observed position is the offshore end of an "L" shaped wooden pier. The pier bares 2 meters.

CHARTING RECOMMENDATIONS: The hydrographer recommends that this item be ~~retained and~~ charted at the above observed position. *CMC*
Chart pier as shown on shoreline map TP-01613.

CMC

<u>Station #</u>	<u>Station Name</u>	<u>Station #</u>	<u>Station Name</u>
1	ALLYN	53	DONNEL 1933
2	TALLEY	54	LA QUINTA CHAN
3	LIGHT 13		INNER RNG F LT
4	TRACK 1934	55	LA QUINTA CHAN
5	TRAYLOR		INNER RNG R LT
6	SKIFF 2	56	QUINTANA
7	SAM	57	WILCUT
8	CONN	58	SHAM
9	ARANSAS PASS WATER TANK	59	INDIAN
10	DRAW	60	PORTLAND 2 1973
11	LIGHT 83	61	TURTLE
12	LYDIA	62	COVE
13	BULB	63	C C BAY SPOIL
14	ARANSAS PASS LIGHTHOUSE		BANK LT A 1990
15	BASE	63	WAREHOUSE
16	SALT 1934		
17	NEED		
18	TANG		
19	HARBOR ID R RNG LT		
20	HARBOR ID F RNG LT		
21	JUNCTION		
22	CORPUS CHR CHAN AE RNG FT LT		
23	CORPUS CHR CHAN AE RNG R LT		
24	TIDAL 7		
25	25 USE		
26	GUN USE 1948		
27	GUN ECC (DO NOT USE!!!)		
28	PORT ARANSAS CG LT TOWER		
29	PORT ARANSAS TANK		
30	KNOLL 1934		
31	PORT ARANSAS MUSTANG TANK		
32	PIPER 1933		
33	WALBOLT 1968		
34	FLAT 2		
35	CRANE 1933		
36	DEMIT 1912		
37	CORPUS CHRISTI NAS WATER TANK		
38	CALLO 2 1963		
39	SWATNER		
40	DODDRIDGE		
41	SPOIL LIMIT 1 USE AZ MK		
42	SPOIL LIMIT 1 USE		
43	CORPUS CHR CHAN CUT BW RNG F		
44	CORPUS CHR HARBOR CUT F RNG LT		
45	CORPUS CHR HARBOR CUT R RNG LT		
46	CORPUS CHR CHAN CUT AW RNG R		
47	CORPUS CHR CHAN CUT AW RNG F		
48	CORPUS CHR CHAN BE RNG F LT, 1989		
49	LA QUINTA CHAN OUTER RNG R LT, 1989		
50	LA QUINTA CHAN OUTER RNG F LT, 1989		
51	CORPUS CHR CHAN BE RNG R LT, 1989		
52	PORT SAT, 1989		

No	Type	CONTROL STATIONS				Freq	Vel	Code	MM/DD/YY
		Latitude	Longitude	H	Cart				
001	F	027:59:23.706	096:58:52.815	0	250	0.0	0.0	11/09/89	
002	F	027:58:29.535	097:04:10.149	0	250	0.0	0.0	11/09/89	
003	F	027:58:04.172	097:05:17.395	0	250	0.0	0.0	11/09/89	
004	F	027:57:04.646	097:06:32.476	0	250	0.0	0.0	11/09/89	
005	F	027:57:07.493	097:04:21.062	0	250	0.0	0.0	11/09/89	
006	F	027:55:59.444	097:02:35.781	0	250	0.0	0.0	11/09/89	
007	F	027:55:28.634	097:07:27.771	0	250	0.0	0.0	11/09/89	
008	F	027:54:28.873	097:07:57.049	0	250	0.0	0.0	11/09/89	
009	F	027:54:07.962	097:08:37.958	0	250	0.0	0.0	11/09/89	
010	F	027:53:27.057	097:06:40.209	0	250	0.0	0.0	11/09/89	
011	F	027:54:00.350	097:02:58.382	0	250	0.0	0.0	11/09/89	
012	F	027:53:35.460	097:02:36.464	0	250	0.0	0.0	11/09/89	
013	F	027:52:53.534	097:02:59.352	0	250	0.0	0.0	11/09/89	
014	F	027:51:50.992	097:03:22.978	19	250	0.0	0.0	11/09/89	
015	F	027:51:57.536	097:08:03.817	0	250	0.0	0.0	11/09/89	
016	F	027:52:13.969	097:09:38.108	0	250	0.0	0.0	11/09/89	
017	F	027:50:14.295	097:07:24.517	0	250	0.0	0.0	11/09/89	
018	F	027:49:51.528	097:06:18.582	0	250	0.0	0.0	11/09/89	
019	F	027:50:53.636	097:03:56.573	0	250	0.0	0.0	11/09/89	
020	F	027:50:45.343	097:03:41.174	0	250	0.0	0.0	11/09/89	
021	F	027:50:46.290	097:03:17.424	0	250	0.0	0.0	11/09/89	
022	F	027:50:41.222	097:03:16.971	0	250	0.0	0.0	11/09/89	
023	F	027:50:46.351	097:02:49.217	0	250	0.0	0.0	11/09/89	
024	F	027:50:18.364	097:03:05.660	0	250	0.0	0.0	11/09/89	
025	F	027:50:05.552	097:02:42.749	0	250	0.0	0.0	11/09/89	
026	F	027:50:05.288	097:03:12.941	0	250	0.0	0.0	11/09/89	
028	F	027:50:18.234	097:03:32.884	0	250	0.0	0.0	11/09/89	
029	F	027:49:47.749	097:03:49.421	0	250	0.0	0.0	11/09/89	
030	F	027:47:33.070	097:05:14.862	0	250	0.0	0.0	11/09/89	
031	F	027:45:06.747	097:07:29.192	0	250	0.0	0.0	11/09/89	
032	F	027:43:11.688	097:08:24.994	0	250	0.0	0.0	11/09/89	
033	F	027:41:34.291	097:09:46.274	0	250	0.0	0.0	11/09/89	
034	F	027:41:41.796	097:11:01.545	0	250	0.0	0.0	11/09/89	
035	F	027:39:15.663	097:10:57.432	0	250	0.0	0.0	11/09/89	
036	F	027:41:37.285	097:15:02.810	0	250	0.0	0.0	11/09/89	
037	F	027:41:38.941	097:16:06.724	0	250	0.0	0.0	11/09/89	
038	F	027:42:40.782	097:18:48.182	0	250	0.0	0.0	11/09/89	
039	F	027:43:43.325	097:21:08.634	0	250	0.0	0.0	11/09/89	
040	F	027:44:42.927	097:22:21.160	0	250	0.0	0.0	11/09/89	
041	F	027:48:00.368	097:23:27.629	0	250	0.0	0.0	11/09/89	
042	F	027:48:18.952	097:23:31.350	0	250	0.0	0.0	11/09/89	
043	F	027:48:37.012	097:23:33.859	0	250	0.0	0.0	11/09/89	
044	F	027:48:28.020	097:22:03.321	0	250	0.0	0.0	11/09/89	
045	F	027:48:26.106	097:21:52.434	0	250	0.0	0.0	11/09/89	
046	F	027:48:18.064	097:16:05.640	0	250	0.0	0.0	11/09/89	
047	F	027:48:30.168	097:15:00.922	0	250	0.0	0.0	11/09/89	
048	F	027:48:38.784	097:13:40.998	0	250	0.0	0.0	11/09/89	
049	F	027:48:20.498	097:13:00.008	0	250	0.0	0.0	6 11/09/89	
050	F	027:48:44.552	097:13:11.552	0	250	0.0	0.0	11/09/89	
051	F	027:48:39.235	097:11:41.427	21	250	0.0	0.0	11/09/89	
052	F	027:49:19.865	097:12:56.768	0	250	0.0	0.0	11/09/89	
053	F	027:51:33.800	097:14:28.383	10	250	0.0	0.0	1 11/09/89	
054	F	027:52:31.870	097:15:00.964	0	250	0.0	0.0	11/09/89	
055	F	027:53:30.187	097:15:29.076	0	250	0.0	0.0	11/09/89	
056	F	027:52:55.315	097:16:57.522	0	250	0.0	0.0	11/09/89	
057	F	027:44:18.951	097:08:19.954	0	250	0.0	0.0	11/13/89	
058	F	027:45:14.605	097:10:27.938	0	250	0.0	0.0	11/13/89	
059	F	027:51:02.658	097:21:17.960	0	250	0.0	0.0	11/13/89	
060	F	027:53:23.367	097:20:09.429	0	250	0.0	0.0	11/13/89	
061	F	027:59:24.830	097:04:00.780	0	250	0.0	0.0	11/14/89	
062	F	027:59:13.578	097:04:23.910	0	250	0.0	0.0	11/14/89	
063	F	027:52:23.387	097:09:34.837	10	250	0.0	0.0	02/12/90	



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

November 12, 1991

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

Dear Sir:

During office review of hydrographic survey H-10364, Texas, Corpus Christi Bay, Port Ingleside, one danger to navigation affecting the following charts was found.

<u>Chart</u>	<u>Edition/date</u>	<u>Datum</u>
11308	16th ed., 8/25/1990	NAD 83
11309	30th ed., 12/2/1989	NAD 83
11312	1st ed., 6/23/1990	NAD 83

It is recommended 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,

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

Enclosure

cc: DMA/TC
N/CG221



REPORT OF DANGERS TO NAVIGATION

Hydrographic Survey Registry Number: H-10364

Survey Title: State: Texas

Locality: Corpus Christi Bay

Sublocality: Port Ingleside

Project Number: OPR-K229-AHP2, Atlantic Hydrographic Field Party 2

The following item was discovered during office processing of hydrographic survey H-10364.

Object discovered: Sounding corrected for MLLW.

Affects nautical charts

<u>CHART NUMBER</u>	<u>EDITION</u>		<u>REPORTED DEPTH</u>	<u>HORIZ DATUM</u>	<u>CHARTED GEOGRAPHIC POSITION</u>	
	<u>NO.</u>	<u>DATE</u>			<u>LATITUDE(N)</u>	<u>LONGITUDE(W)</u>
11308	16th	8/25/90	11 ft	NAD 83	27/48/44.17	97/11/46.30
11309	30th	12/2/89	11 ft	NAD 83	27/48/44.17	97/11/46.30
11312	1st	6/23/90	3.5 m	NAD 83	27/48/44.17	97/11/46.30

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



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

NATIONAL OCEAN SERVICE
OFFICE OF CHARTING AND GEODETIC SERVICES
ROCKVILLE, MARYLAND 20852

FEB 4 1991

MEMORANDUM FOR: Captain Donald J. Florwick, NOAA
Chief, Mapping and Charting Branch

FROM: Commander *Dean R. Seidel* Dean R. Seidel, NOAA
Chief, Hydrographic Surveys Branch

SUBJECT: Chart 11312 (For Official Use Only)

After a cursory office review of chart 11312, at the request of the hydrographic field party presently working in the Port Ingleside, Texas, area, the following discrepancies were noted on the inset and main body of this new chart (First Edition, June 1990).

1. Whereas there are six platforms shown on the Chart Maintenance Print (BP-139893) in approximate latitude $27^{\circ}49'N$, longitude $97^{\circ}12'W$, only four are depicted on the main body of the chart. The two western-most platforms are charted as visible dolphins. These platforms are depicted correctly on the inset. We recommend revising the two dolphin symbols to platforms.
2. The visible dolphins charted south of each platform (within 30 meters) on the inset should be deleted. These dolphins were charted on chart 11309 through chart letter 355 of 1980 and represent the six platforms shown on the Chart Maintenance Print. The subsequent application of chart 11309 to chart 11312 without reevaluating CL-355/80 has resulted in charting these platforms (mooring dolphins) twice.

If you have any questions, please contact Steve Verry, Operations Section, Hydrographic Surveys Branch, at 443-8752.

cc: AHP2 - Dave Elliott





DEPARTMENT OF THE NAVY

COMMANDER NAVAL SURFACE FORCE
UNITED STATES ATLANTIC FLEET
NORFOLK, VIRGINIA 23511-6292

11000
Ser N911B1/00566
17 JAN 1990

FIRST ENDORSEMENT on OIC NAVSTA Ingleside ltr 8000 Ser 181/0053
of 19 Dec 89

From: Commander, Naval Surface Force, U.S. Atlantic Fleet
To: Chief of Security and Enforcement, Headquarters, U. S.
Army Corp of Engineers, CEPM-ZB, Washington, D.C. 20314
Via: (1) Commander in Chief, U. S. Atlantic Fleet
(2) Chief of Naval Operations (OP-09N)

Subj: REQUEST FOR THE ESTABLISHMENT OF NAVAL RESTRICTED AREAS
FOR GULFCOAST HOMEPORTS, INGLESIDE, TX, MOBILE, AL, AND
PASCAGOULA, MS

1. Forwarded, recommending approval.
2. The first sentence of paragraph 3 (b), is changed to read:
The proposed Naval Restricted Areas would be published in the
Code of Federal Regulations.

R. C. PARSONS
By direction

copy to:
OIC, NAVSTA Ingleside ←



DEPARTMENT OF DEFENSE POLICE
U.S. NAVAL STATION
INGLESIDE, TEXAS

THOMAS A. DEMPSEY
CHIEF OF POLICE

883-0145

STATION POLICE
NAVAL STATION
INGLESIDE, TX 78362

OFFICE 512-776-0118

AUTOVON 0309

FAX 776-0506



DEPARTMENT OF THE NAVY

UNITED STATES ATLANTIC FLEET
HEADQUARTERS OF THE COMMANDER IN CHIEF
NORFOLK, VIRGINIA 23511-6001

11000
Ser N4432000872

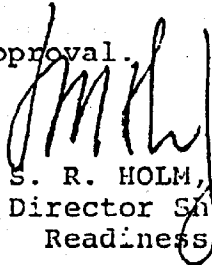
06 FEB 1990

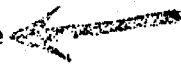
SECOND ENDORSEMENT on OIC NAVSTA Ingleside ltr 8000 Ser 181/0053
of 19 Dec 89

From: Commander in Chief, U. S. Atlantic Fleet
To: Chief of Security and Enforcement, Headquarters, U. S.
Army Corps of Engineers, CEPM-ZB, Washington, DC 20314
Via: Chief of Naval Operations (OP-09N)

Subj: REQUEST FOR THE ESTABLISHMENT OF NAVAL RESTRICTED AREAS
FOR GULFCOAST HOMEPORTS, INGLESIDE, TX, MOBILE, AL, AND
PASCAGOULA, MS

1. Forwarded, recommending approval.


S. R. HOLM, JR.
Director Shore Activities
Readiness

y to:
NAVSURFLANT (N9)
OIC, NAVSTA Ingleside 

RECEIVED
FEB 12 11 09 AM '90
OIC, NAVSTA
INGLESIDE TX



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON, DC 20350-2000

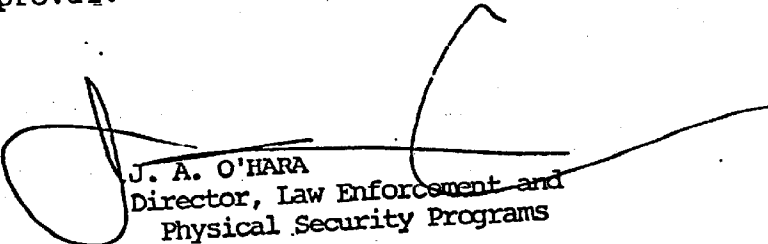
IN REPLY REFER TO
Ser 09N1/00529970
22 FEB 1990

THIRD ENDORSEMENT on NAVSTA Ingleside ltr 8000 Ser 181/0053
of 19 Dec 89

From: Chief of Naval Operations
To: Chief of Security and Enforcement, Headquarters, U. S.
Army Corps of Engineers, CEPM-ZB, Washington, D. C. 20314

Subj: REQUEST FOR THE ESTABLISHMENT OF NAVAL RESTRICTED AREAS
FOR GULF COAST HOMEPORTS INGLESIDE, TX, MOBILE, AL, AND
PASCAGOULA, MS

1. Forwarded, recommending approval.


J. A. O'HARA
Director, Law Enforcement and
Physical Security Programs

Copy to:
CINCLANTFLT (N4432)
COMNAVSURFLANT (N9)
NAVSTA Ingleside



DEPARTMENT OF THE NAVY

NAVAL STATION
INGLESIDE, TEXAS 78362-5000

8000
Ser 181/0053
19 Dec 89

From: Officer in Charge, Naval Station Ingleside, TX
To: Chief of Security and Enforcement Headquarters, U.S. Army
Corps of Engineers, CEPM-ZB, Washington, D.C. 20314
Via: (1) Commander, Naval Surface Force, U.S. Atlantic Fleet
Norfolk, VA 23511-6292
(2) Commander-in-Chief, U.S. Atlantic Fleet, Norfolk, VA
23511-6001
(3) Chief of Naval Operations, (OP-09N), Navy Department,
Washington, D.C. 20360-5100

Subj: REQUEST FOR THE ESTABLISHMENT OF NAVAL RESTRICTED AREAS
FOR GULF COAST HOMEPORTS, INGLESIDE, TX, MOBILE, AL, AND
PASCAGOULA, MS

Ref: (a) OPNAVINST 5530.14B

Encl: (1) Restricted Area Coordinates for Naval Station,
Ingleside, TX
(2) Restricted Area Coordinates for Naval Station,
Mobile, AL
(3) Restricted Area Coordinates for Naval Station,
Pascagoula, MS

1. Respectfully request that Naval Restricted Areas be established in accordance with reference (a), as described in enclosures (1) through (3). These areas would enclose the waters surrounding the Naval stations and piers where extensive Naval operations involving the Gulf Coast Homeports consisting of 10 ships at Ingleside, 5 ships at Mobile and 4 ships at Pascagoula, will take place. The restricted areas, requested to reduce safety hazards and security risks, would protect persons and property from the dangers encountered in these operations and safeguard the area from accidents, sabotage and other subversive acts.

2. Maritime Congestion in the Proposed Restricted Areas

The proposed restricted area will be extensively used by Naval ships and commercial vessels under contract to the Navy in daily operations around the pier. The piers will be used to provide fuel, maintenance and other services for these vessels and will be present a clear and present danger to private vessels. Such high density military operations create inherent safety dangers as well as obvious security risks.

3. Description of Proposed Restricted Areas

a. For ease of reference, the coordinates for the proposed restricted areas are contained in enclosures (1) through (3).

Subj: REQUEST FOR THE ESTABLISHMENT OF NAVAL RESTRICTED AREAS
FOR GULFCOAST HOMEPORTS, INGLESIDE, TX, MOBILE, AL, AND
PASCAGOULA, MS

b. The proposed Naval Restricted Areas would be published in ~~(Section of)~~ the Code of Federal Regulations. In addition to containing information describing the areas, it would contain the following:

- (1) the area; (as described in Encl (1) through (3)).
- (2) Regulations:
 - (a) Mooring, anchoring, fishing or recreational boating shall not be allowed within the restricted area.
 - (b) Commercial vessels at anchor will be permitted to swing into restricted areas while at anchor and during tide changes.
 - (c) The section shall be enforced by the Commanding Officer of that station, and such other agencies he may designate.

4. Naval Operations Conducted in the Proposed Restricted Areas

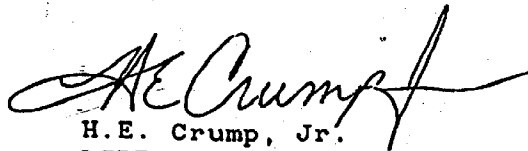
- a. Docking/undocking, loading/unloading, maintenance, and transiting to channel.
- b. Support/Maintenance: from pier and by floating crane, tugs and yard craft.
- c. Ships helicopter: Take off/landing from ships.
- d. Visiting Ships: U.S. and foreign

5. Enforcement of Proposed Restricted Area

If the proposed restricted area is approved, the restricted area regulations would be enforced by the appropriate Commanding Officer and such other agencies as he may designate, recognizing authority of the U.S. Coast Guard.

6. Conclusion. The proposed restricted area is requested because of the serious safety hazards and security risks that will be created by the operation of the Gulf Coast Homeport ships in their potentially congested waters. The restricted area is needed for the safety of life and property, both military and civilian. Military operations in the area could be substantially and adversely affected by the hazardous congestion in the Navy harbor. The impediment to safety and security can be substantially reduced or eliminated by the establishment of the proposed restricted areas.

7. Point of contact is Chief of Police, Naval Station, Ingleside, TX; T.A. Dempsey (Code 181), Commercial (512) 776-0118/0309.

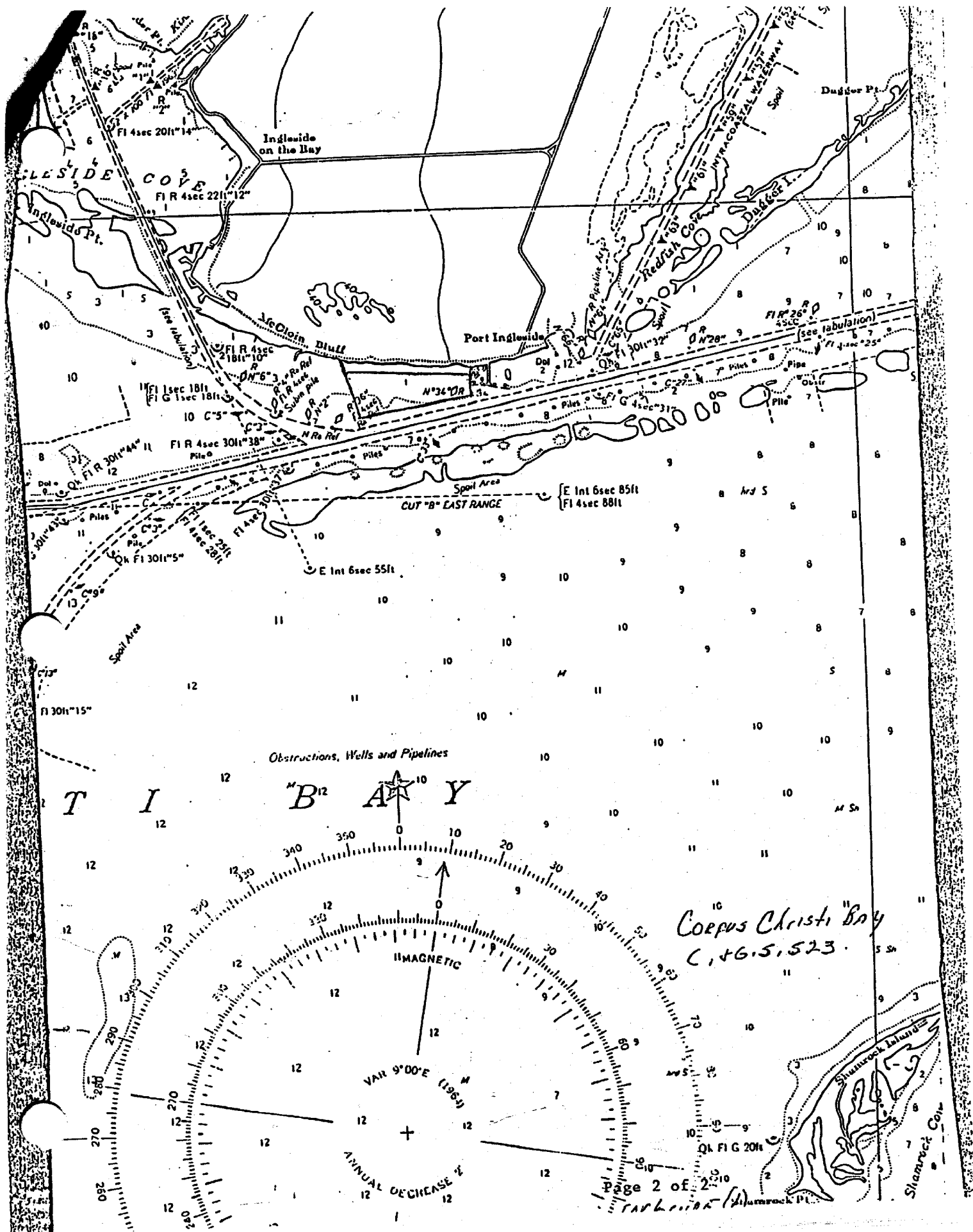


H.E. Crump, Jr.
LCDR. SC, USN
Officer in Charge

RESTRICTED AREA COORDINATES FOR NAVAL STATION INGLESIDE

Beginning at point latitude $27^{\circ} 49' 13.6''$, longitude $97^{\circ} 12' 5.7''$ W, thence southerly to latitude $27^{\circ} 49' 7.3''$ N, longitude $97^{\circ} 12' 5.4''$ W, thence south-southwesterly to latitude $27^{\circ} 49' 1''$ N, longitude $97^{\circ} 12' 39.4''$ W, thence north-northeasterly to latitude $27^{\circ} 49' 2.4''$ N, longitude $97^{\circ} 12' 48.3''$ W, thence north-northeasterly to latitude $27^{\circ} 49' 14.9''$ N, longitude $97^{\circ} 12' 42.7''$ W, thence easterly along the shoreline to the point of beginning.

Note: See attached enclosure (1) page 2 for highlighted area.

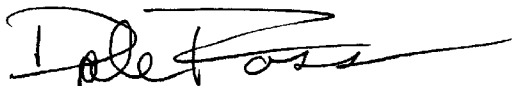


APPROVAL SHEET

BASIC HYDROGRAPHIC SURVEY
OPR-K229-AHP2
AHP2-5-1-90
H-10364
1990

This basic hydrographic survey was conducted in accordance with the project instructions for OPR-K229-AHP2, 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.



V. Dale Ross
Lieutenant Commander, NOAA
Chief, Atlantic Hydrographic Party Two

ORIGINAL

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

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: Apr 9, 1991

MARINE CENTER: Pacific

OPR: K229

HYDROGRAPHIC SHEET: H-10364

LOCALITY: Corpus Christi Bay, Port Ingleside, TX

TIME PERIOD: November 21, 1990 - January 18, 1991

TIDE STATIONS USED: 877-5283 Port Ingleside, TX
27°49.2'N 97°12.0'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 2.38 feet

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.6 feet

REMARKS: RECOMMENDED ZONING
Zone direct.

James R. Hubbard
CHIEF, TIDAL DATUM QUALITY
ASSURANCE SECTION

GEOGRAPHIC NAMES

H-10364

Name on Survey	Source of Name											
	A	B	C	D	E	F	G	H	K			
	ON CHART NO.	ON PREVIOUS SURVEY NO.	ON U.S. QUADRANGLE MAPS	FROM LOCAL INFORMATION	ON LOCAL MAPS	P.O. GUIDE OR MAP	RAND McNALLY ATLAS	U.S. LIGHT LIST				
CORPUS CHRISTI BAY (title)	11308	11309										1
COPRUS CHRISTI CHANNEL	"											2
INGLESIDE ON-THE-BAY	"											3
LA QUINTA CHANNEL	"											4
PORT INGLESIDE	"											5
TEXAS (title)	"											6
												7
												8
												9
												10
												11
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												25

Approved:

Charles E. Harrison
Chief Geographer - N/C42x5

APR 10 1991

HYDROGRAPHIC SURVEY STATISTICS

H-10364

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			3
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			855	
POSITIONS REVISED				
SOUNDINGS REVISED				
CONTROL STATIONS REVISED				
	TIME-HOURS			
	VERIFICATION	EVALUATION	TOTALS	
PRE-PROCESSING EXAMINATION				
VERIFICATION OF CONTROL				
VERIFICATION OF POSITIONS	42		42	
VERIFICATION OF SOUNDINGS	47		47	
VERIFICATION OF JUNCTIONS				
APPLICATION OF PHOTOBATHYMETRY				
SHORELINE APPLICATION/VERIFICATION				
COMPILATION OF SMOOTH SHEET	22		22	
COMPARISON WITH PRIOR SURVEYS AND CHARTS		18	18	
EVALUATION OF SIDE SCAN SONAR RECORDS				
EVALUATION OF WIRE DRAGS AND SWEEPS				
EVALUATION REPORT		44	45	
GEOGRAPHIC NAMES				
OTHER' Digitizing			38	
*USE OTHER SIDE OF FORM FOR REMARKS	TOTALS	111	62	174

Pre-processing Examination by M. Brown	Beginning Date 2/25/91	Ending Date 3/8/91
Verification of Field Data by C.R. Davies	Time (Hours) 111	Ending Date 10/29/91
Verification Check by J.S. Green	Time (Hours) 27	Ending Date 11/25/91
Evaluation and Analysis by C.R. Davies	Time (Hours) 62	Ending Date 11/25/91
Inspection by D. Hill	Time (Hours) 5	Ending Date 3/1/92

EVALUATION REPORT

H-10364

1. INTRODUCTION

Survey H-10364 is a basic hydrographic survey accomplished by the Atlantic Hydrographic Party 2 under the following Project Instructions.

OPR-K229-AHP, dated September 14, 1990

This survey was conducted in Texas and covers the area of Port Ingleside and Corpus Christi Channel between Corpus Christi Bay and Redfish Bay. The surveyed area extends from latitudes 27/48/40N to 27/49/40N and from longitudes 97/11/20W to 97/13/45W. The surveyed area includes Port Ingleside, Corpus Christi Channel, the entrance of La Quinta Channel, a portion of the ICW and spoil islands south of Corpus Christi Channel. The bottom consists of mud and sand. Depths range from 0.5 to 16.9 meters.

Predicted tides for Galveston Channel, Texas were used for the reduction of soundings during field processing. Approved hourly heights zoned from Port Ingleside, Texas, gage 877-5283, were used during office processing.

A portion of this survey, east of longitude 97/11/48W was conducted at 1:10,000 scale. These data were subsequently compiled onto the smooth sheet at 1:5,000 scale. These data meet 1:10,000 scale accuracy requirements. The following note has been added to the smooth sheet, "Hydrography east of longitude 97/11/48W meets 1:10000 scale accuracy requirements".

The field sheet parameters have been revised to center the hydrography on the smooth sheet and to change the projection to polyconic. The TRA and electronic control correctors are adequate. Velocity tables 3 and 5 were extended for the maximum depth on this survey. Although these tables were extended beyond the 10% permitted for these depths (Field Procedures Manual, page 2-3), this extension was accomplished since the extrapolation probably does not result in error in excess of the .25% specification contained in section 4.9.5 of the Hydrographic Manual. In addition, the deeper depths are all found in the channels maintained by the Corps of Engineers. 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 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 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 in the following.

Geodetic Control Report for CM-8716 and
Geodetic Control Survey Job-HC-9901

Positions of horizontal control stations used during hydrography are 1989 field 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 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: 1.099 seconds (33.828 meters)
Longitude: 0.964 seconds (26.381 meters)

The year of establishment of control stations shown on the smooth sheet originates with the previously referenced horizontal control reports.

The quality of several positions exceeds limits in terms of error circle radius and residual. The features or soundings located by these fixes are consistent with surroundings. None of these fixes were used to position dangers to navigation. These fixes are considered acceptable.

The following shoreline map applies to this survey.

	<u>Photo Date</u>	<u>Class</u>
TP-01613	Feb. 1989	III

The HWL depicted on the smooth sheet west of longitude 97/11/40W was transferred from an enlargement of the 1:7,500 scale inset shoreline. East of this longitude the HWL originates with an enlargement of the 1:20,000 scale shoreline map.

A new pier and bulkhead are drawn in red with supporting positional information and are considered adequate to supersede the common photogrammetrically delineated shoreline. These new features are located between latitude 27/49/07N to latitude 27/49/17N and between longitude 97/12/08W to longitude 97/12/35W.

3. HYDROGRAPHY

With the exceptions 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.

Holidays exist in the following areas.

<u>Latitude(N)</u>	<u>Longitude(W)(NAD 83)</u>
27/49/28	97/11/24
27/49/24	97/11/33
27/49/13	97/11/57
27/49/33	97/13/30

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, except as follows.

Several charted items were not investigated, or were inadequately investigated, during this survey. Refer to sections 6 and 7 of this report for identification of these features.

A danger to navigation letter was generated during office processing for a sounding which is shoaler than the controlling depth for the charted channel. A close inspection of soundings which are located within charted channels with controlling depths should be made.

5. JUNCTIONS

Survey H-10364 junctions with the following surveys.

<u>Survey</u>	<u>Year</u>	<u>Scale</u>	<u>Area</u>
H-10324	1990	10000	Southeast
H-10326	1990	10000	Southwest
H-10332	1990	10000	East
H-10363	1991	10000	West

The junction with survey H-10363 is complete. Some soundings have been transferred to survey H-10364 from survey H-10363 to better portray the bottom in the common area.

The junction with surveys H-10324, H-10326 and H-10332 have not been formally completed because these surveys were acquired in feet, not meters. There is good agreement between soundings, however, the depth curves shown on surveys H-10324, H-10326 and H-10332 delineate different depths and therefore, do not agree.

6. COMPARISON WITH PRIOR SURVEYS

H-5694 (1934/35) 1:20000

Survey H-5694 covers the entire area of the present survey. The area common to both surveys has changed considerably, mostly through man-made changes, such as new construction and dredging for La Quinta and Corpus Christi Channels and the new Navy homeport at Port Ingleside. Spoil islands to the south of Corpus Christi Channel have enlarged. Areas which have not changed agree between 0.5 to 1 meters, with the present survey being deeper on most accounts. Additional discrepancies between the two surveys were noted and are discussed in section K of the hydrographer's report.

Survey H-10364 is adequate to supersede the above prior survey within the common areas.

T-9184 (1948/51) 1:20000

Shoreline map T-9184 covers the entire area of the present survey. Much of the northern shoreline has changed, especially the western portion which has disappeared through the dredging of La Quinta Channel. The southern spoil island has also changed shape through the dredging of the Corpus Christi Channel and Intracoastal Waterway.

Three dolphins and two piles originating from survey T-9184 were not found or disproven during this survey. These features, listed below, have been brought forward onto this survey as submerged dolphins and piles.

<u>Feature</u>	<u>Latitude(N)</u>	<u>Longitude(W)(NAD83)</u>
subm dol	27/49/15.6	97/11/36.5
subm dol	27/49/18.6	97/11/36.0
subm dol	27/49/19.5	97/11/36.3
subm pile	27/49/05.1	97/11/25.6
subm pile	27/49/03.1	97/11/36.4

With the transfer of the above features, survey H-10364 is adequate to supersede prior shoreline map T-9184 as a source for charted hydrography within the common area.

There are no AWOIS items originating from the prior survey and shoreline map applicable to the present survey.

7. COMPARISON WITH CHART

Chart 11308, 15th edition, dated July 9, 1988; scale 1:40000
Chart 11308, 16th edition, dated August 25, 1990; scale 1:40000
Chart 11309, 30th edition, dated December 2, 1989; scale 1:40000
Chart 11312, 1st edition, dated June 23, 1990; scale 1:20000

The 15th and 16th editions of chart 11308 are identical, except for the new construction for the new Navy homeport in the vicinity of latitude 27/49/12N, longitude 97/12/18W (NAD 83) and for being on different datums (NAD 27 vs NAD 83). Chart 11312, although not listed in the project instructions, was used for comparison purposes since it is the largest scale chart common to the present survey. The hydrography depicted on this chart apparently originates with smaller scale charts and accordingly, does not conform to standard specifications regarding sounding spacing. In addition, the soundings have been converted from feet to meters and new depth curves have been drafted without sounding density. To rectify these problems, the charted hydrography should be completely revised from the present survey.

a. Hydrography

Charted hydrography originates with the prior survey and the prior shoreline map discussed in section 6 of this report and miscellaneous sources and requires no further discussions, except for the following.

Several charted features were not found or disproven during this survey. These features, listed in section 6 of this report, originate from the prior shoreline map T-9184. These features appear to have been transferred in error during chart application. A consistent shift of approximately 50 meters brings the prior shoreline map and charted features into good agreement. Refer to section 6 of this report for the correct positions of these features.

Charted pier ruins at latitude 27/49/21N and longitude 97/11/39W, were not investigated during the course of this survey. These pier ruins should be retained as charted.

Survey H-10364 is adequate to supersede charted hydrography within the common area, except for the above mentioned ruins.

b. AWOIS

All AWOIS items originate with miscellaneous sources. These items are discussed in section N and in the item investigation forms attached to the descriptive report.

c. Controlling Depths

Corpus Christi and La Quinta Channels and the Intracoastal Waterway are federally maintained channels that are within the survey area. The depths found during this survey are consistent with or deeper than the charted controlling depths, except as follows.

A 3.5 meter (11 ft) sounding was found at latitude 27/48/44.17N and longitude 97/11/46.30W, within the Intracoastal Waterway. This 3.5m (11 ft) depth is shoaler than the charted controlling depth and has been reported as a danger to navigation.

The note, "42 ft rep 1982" (12.8 m), at latitude 27/49/07.1N, longitude 97/12/00.9W, should be removed from the chart. Depths in the survey area are between 13.5 and 14.9 meters (44 and 49 feet) at MLLW. Chart the note, "44 ft 1990" (13.5 m). This is AWOIS item 6047.

The note, "9 ft" (2.7 m), and the channel at latitude 27/49/11.1N, longitude 97/12/04.9W, should be removed from the chart. The channel no longer exists and depths in the survey area are between 0.7 and 13.8 meters (2 and 45 feet) at MLLW. Chart this area according to this survey. This is AWOIS item 6051.

The note, "1 ft 1981" (0.3 m), associated with the channel running from latitude 27/48/59N, longitude 97/11/38W, to latitude 27/48/55N, longitude 97/12/31W, should be revised. Depths in the channel are between 4.3 and 5.4 meters (14.1 and 17.7 feet) at MLLW. The charted channel should be revised to agree with this survey with a note "14 ft 1990" (4.3 m).

d. Aids to Navigation

There are 15 fixed and 3 floating aids located within the survey area. All these fixed and floating aids serve their intended purpose. All aids were located consistent with specifications contained in the memorandum, Horizontal Control for Nonfloating Aids, dated March 4, 1992. They are listed in section P of the hydrographer's report.

The following fixed and floating aids to navigation fall within the survey area but were not positioned on survey H-10364. These aids were transferred from the junction surveys.

<u>Light List Name</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>	<u>Survey</u>
La Quinta Channel Light 5	27/49/27.94	97/13/35.80	H-10363
La Quinta Channel Light 6	27/49/29.76	97/13/29.84	H-10363
Corpus Christi Bay Cut Off Channel Buoy 66	27/49/21.74	97/11/25.88	H-10332

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 generated during the survey. One danger to navigation letter was generated during office processing. This letter is attached to this report.

8. COMPLIANCE WITH INSTRUCTIONS

Survey H-10364 adequately complies with the Project Instructions except as noted in this report.

9. ADDITIONAL FIELD WORK

This is an good hydrographic survey. Additional field work is recommended on a low priority basis to locate or disprove the features mentioned sections 6 and 7 of this report.

for 
Charles R. Davies
Cartographer

APPROVAL SHEET
H-10364

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 Hill

Date: 3-11-92

Dennis J. Hill
Chief, Hydrographic Processing Unit
Pacific Hydrographic Section

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.

Douglas G. Hennick

Date: 3/13/92

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

Final Approval

Approved:

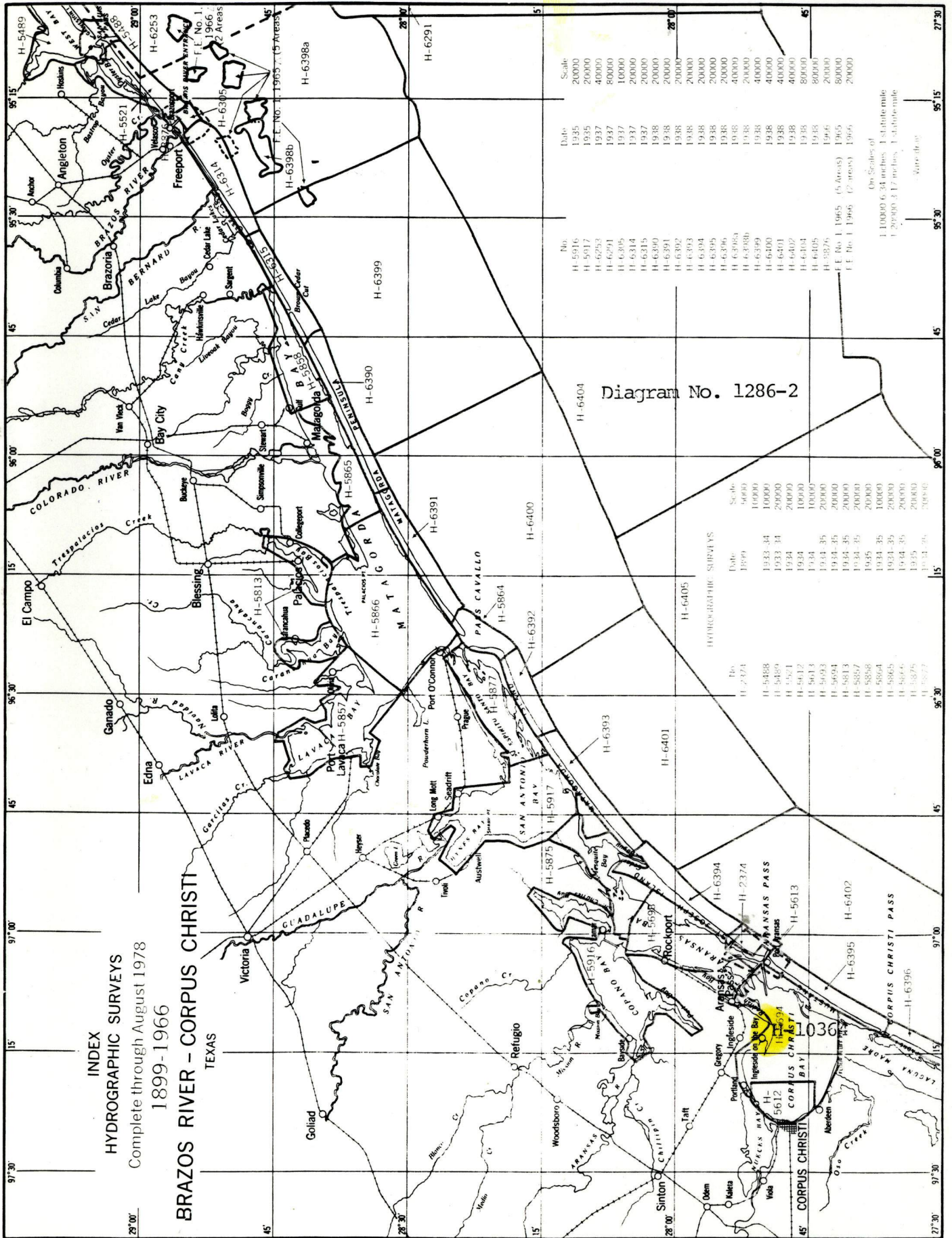
J. Austin Yeager

Date: 12-13-94

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

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 No. 1286-2

HYDROGRAPHIC SURVEYS

No.	Date	Scale
H-5916	1935	20000
H-5917	1935	20000
H-6253	1937	40000
H-6291	1937	80000
H-6395	1937	10000
H-6314	1937	20000
H-6315	1937	20000
H-6399	1938	20000
H-6391	1938	20000
H-6392	1938	20000
H-6393	1938	20000
H-6394	1938	20000
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H-6396	1938	20000
H-6397	1938	20000
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H-5989	1935	80000
H-5990	1935	80000
H-5991	1935	80000
H-5992	1935	80000
H-5993	1935	80000
H-5994	1935	80000
H-5995	1935	80000
H-5996	1935	80000
H-5997	1935	80000
H-5998	1935	80000
H-5999	1935	80000
H-6000	1935	80000

On Scales of
1:10000 6.34 inches 1 statute mile
1:20000 3.17 inches 1 statute mile

MARINE CHART BRANCH
RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-10364

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
11309	4-17-91	Charles R. Davis	Full Part Before After Marine Center Approval Signed Via <i>Partial application</i> Drawing No. <i>of sndgs. from preliminary sndg Plot.</i>
11300	6-11-91	AKLACEN	Full Part Before After Marine Center Approval Signed Via <i>Examined. No sndgs.</i> Drawing No. <i>or corrns. applied.</i>
11312	9-25-91	R.N. MIHAILOV	Full Part Before After Marine Center Approval Signed Via <i>PARTIAL APPLICATION</i> Drawing No. <i>OF SNDGS. FROM PRELIMINARY SNDG. PLOT</i>
11308	4-29-92	Dan Fleck	Full Part Before ^{AFTER} After Marine Center Approval <u>Signed</u> Via <i>Not signed</i> Drawing No. <i>17</i>
11300	6-10-92	Ken Foster	Full Part Before After Marine Center Approval Signed Via Drawing No. <i>45 Exam - n/c - no coverage</i>
11309	6-18-92	L. ARKENS4	Full Part Before After Marine Center Approval Signed Via Drawing No. <i>51 APPD they 11308 in Full (Not signed)</i>
11308	9/21/93	L. Arkeman	Full Part Before After Marine Center Approval Signed Via Drawing No. <i>18, Examined No further Application needed</i>
11309	3/15/94	Dan Fleck	Full Part Before After Marine Center Approval Signed Via Drawing No. <i>52 EXAMINED, NO FURTHER APPLIC. NEEDED</i>
11312	11/20/96	Travis Ne	Full Part Before After Marine Center Approval Signed Via Drawing No. <i>2</i>
			Full Part Before After Marine Center Approval Signed Via Drawing No.

MARINE CHART BRANCH
RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-10364

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
			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
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