# 87<u>96</u>

Diag. Cht. Nos. 1278, 1279 & 1116-3.

NOAA FORM 76-35A

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

# **DESCRIPTIVE REPORT**

(HYDROGRAPHIC)

Type of Survey Hydrographic
Field No. HY-40-2-64
Office No. H-8796
LOCALITY
State Louisiana
General Locality Gulf of Mexico
Locality Vicinity. of Galessien Pass
·····
19 64
CHIEF OF PARTY
V. R. Sobieralski
LIBRARY & ARCHIVES
DATE 1/25/67

் du.s. Government printing office: 1974-763-098

#### U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

REGISTER NO.

#### HYDROGRAPHIC TITLE SHEET

H-8796

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. HY-40-2-64

State	-Texas - Louisiana
General locality	Culf of Mexico  Vicinity of Calcasieu Pass  Sabine Bank Calcasieu Pass and Vicinity
Locality	Sabine Bank Calcasier tas and Viennity
	1:40,000 Date of survey Aug. 28 to October 20, 1964 st. dtd. 5/15/62; Supp.Inst.dtd.
Original is	substitution of $\frac{5}{15}$ ,
Supp. Inst.	dd. 3/15/63. Rev. Inst. dtd. 8/9/63, Project No. OPR-427 dtd. 3/27/64, Proj. Inst. letter dtd. 5/12.64, Supp. Inst. dtd. 8/13/64
Vessel	USC&GS Ship HYDROGRAPHER and Launch HY-1
Chief of party	V. Ralph Sobieralski P. Randall, J. H. Allred, S. J. Ruden, W. R. Klesse, N. A. Barnes Jr.,
Surveyed by W.	Y.S. Williams, J. T. Smith, M. A. Levitan
Soundings taken	by echo sounder, hendburkt, pote DE-723 Serial Numbers 61-29 and 555
Graphic record s	caled by Ship Personnel
Graphic record c	hecked byShip Personnel
Protracted by t	o be smooth plotted, by Gerber Plotter, at Regional Office, Seattle, Wash
Soundings penci	led bysame as above
Soundings in	Charlement feet at MLW MIXXXX

The procedure for processing and disposition of records is as follows:

REMARKS: SHIP - The fathogram is scanned and corrected or omitted soundings are entered on the original printout (by hand).Raydist, Tide and Draft corrections are entered on the original printout (by hand). (Tide corrections are first verified by Washington Office). The original punched tape is not altered. Using the corrected original printout, a Corrector punched tape is made with its own printout. This is proof-read. A third tape containing Velocity data is prepared (with printout).

LAUNCH - Launch hydrographic data was transferred from sounding volumes, by hand logger, to Raw Data punched tape with printout. The one exception is: the sounding on this

to Raw Data punched tape with printout. The one exception is: the sounding on this tape is the scanned or omitted sounding. The Raydist values on this tape are uncorrected. This is proof-read. The remainder of the tape is same as that of the ship.

The tapes, printouts, boatsheet, descriptive report, sounding volumes, Brush Recorder tapes and fathograms are forwarded to the Regional Office, Seattle, Washington, for final compilation and smooth plotting using the Gerber Plotter.

\*NOTE - The Velocity Tape for HY-40-2-64 was included with the Velocity Tape for HY-40-1-64 and was forwarded with the records for that sheet.

ans

#### DESCRIPTIVE REPORT

#### TO ACCOMPANY

#### HYDROGRAPHIC SURVEY (HY-40-2-64)

H-8796

1964

USC&GS SHIP HYDROGRAPHER

SCALE 1:40,000

V. RALPH SOBIERALSKI, CDR, USC&GS

CHIEF OF PARTY

#### A. PROJECT

This survey was accomplished under Project OPR-427, Sabine Bank, Texas - Louisiana; Original Instructions dated May 15, 1962; Supplemental Instructions dated May 15, 1963; Revised Instructions dated August 9, 1963; Supplemental Instructions dated March 27, 1964, Project Instruction Letter dated May 12, 1964; Supplemental Instructions dated August 13, 1964.

#### B. AREA SURVEYED

This survey covers an area of 486 square nautical miles in the Gulf of Mexico, vicinity of Sabina Bank, Texas - Louisiana. It lies between Latitudes 29°47' North and 29°26' North; Longitudes 93°44' West and 93°11' West.

Hydrography began on August 28, 1964 and was completed on October 20, 1964.

The survey junctions with contemporary surveys H-8738 and H-8767 at the southern limits. Junctions were made with the following prior surveys:

Registry Number	Scale	Date of Survey
H-4332	1:40,000	1922-23
н-4364	1:40,000	1924
H-5315	<del>1:40,00</del> 0	<del>1933</del>
H <del>-5418</del>	1:40,000	<del>1933</del>

#### C. SOUNDING VESSEL

All hydrography on this survey was accomplished by the Ship HYDRO-CRAPHER and Launch HY-1.

#### D. SOUNDING EQUIPMENT

Hydrography was accomplished using the Raytheon Survey Fathometers, Model DE-723, Serial Numbers 61-29 and 555. Instrument Number 61-29 was used for all ship hydrography and Instrument Number 555 was used for all launch hydrography.

The DE-723 initial settings were maintained at 11.0 feet for ship hydrography and 0.0 feet for launch hydrography.

Depths encountered ranged from 05 to \$3 feet.

Corrections to echo soundings for the ship were determined as follows:

(a) Transducer draft corrections were derived from daily measurements of an internal draft gage, which is connected to the main engine cooling water intake. Determinations are outlined in "Report on Corrections to Echo Soundings, 1964 Season".

b) Settlement and Squat corrections were derived from tests

made on August 20, 1963.

(c) Echo sounder instrument corrections were determined by simultaneous comparisons (vertical casts) made in areas of smooth bettom during periods of calm weather and sea conditions.

(d) Phase corrections were not determined as all soundings

were accomplished on "A" scale.

(e) Sound velocity corrections were determined from velocimeter observations that were taken once each trip. These observations were supplemented by one temperature and salinity observation on July 17, 1964.

(f) Echo sounder gain checks were made periodically during this survey. The echo sounder was observed for various gain settings, while the ship was stopped. Several gain

checks were supplemented by vertical casts.

USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Corrections to echo soundings for the Launch were determined as follows:

(a) Transducer draft, instrument and sound velocity corrections were derived from bar checks, which were taken each day of launch hydrography.

(b) Settlement and squat corrections were derived from tests

made on Spetember 1, 1964.

(c) Gain setting corrections were derived from periodic gain setting observations.

For detailed information on corrections to eche soundings, refer to "Report on Corrections to Echo Soundings, 1964 Season".

#### E. SMOOTH SHEET

The smooth sheet will be plotted in the Seattle Regional Office, utilizing a punched tape prepared by personnel of the HYDROCRAPHER.

#### F. CONTROL

All hydrography on this survey was controlled by means of Raydist, (Range Pange) supplemented by visual (three-point) fixes on the inshere end of each hydrographic line.

The R<sub>1</sub> (RED) station was located in the vicinity of Johnson's Bayou, Louisiana. The Raydist mast was erected over BULL, 1964; Latitude 29°47'35.776" North, Longitude 93°44'53.842" West.

The R<sub>2</sub> (GREEN) station was located on the Sabine National Wildlife Refuge north of Holly Beach, Louisians. The Raydist mast was erected over WIID, 1964; Latitude 29°51°57.534" North, Longitude 93°27°13.494" West.

Personnel from the Ship HYDROCRAPHER established the location of the Raydist stations in February, 1964, using third-order triangulation methods. The stations were temporarily marked with iron stakes and were not described. (Shown as tope, stations)

Norfolk Photo Field Unit 751 provided photo-hydre support for the supplementary visual hydrography,

USCAGS SHIP HYDROGRAPHER - 1964 - contd.

There is very good agreement between the Raydist and visual positions. These positions were used in the determination of Raydist corrections for launch hydrography. Advanced manuscripts (T-10633) RS811 (T-10631), (T-10630), and (T-10629), July 1963, were used to transfer signals to the boatsheet.

Raydist corrections for the ship were derived from observations on triangulations stations located on off-shore oil structures and other oil structures located by Raydist traverse.

An abstract of Raydist corrections is appended to this report. For detailed information concerning Raydist corrections and calibrations, refer to Raydist Report, 1964 Field Season, OFR-427.

# G. SHORELINE (See Review Par. 2)

The shoreline on this survey was transferred to the boatsheet from the blueline tracings of the manuscripts listed in paragraph F. Norfolk Field Unit 751 completed the inspection of shoreline while the hydrographic party found no major disagreement with the delineation on the manuscripts. Small tide ranges prevented a complete definition of the shoreline in the area surveyed.

#### H. CROSSLINES

Approximately % of the regular system of lines were run as crosslines. All crossings were in good general agreement.

# I. JUNCTIONS (See Review Par. 5)

Satisfactory junctions were made with prior and contemporary surveys listed in Paragraph B of this report. There is a discrepancy of 1 to 3 feet in junction soundings. This disagreement is a result of a change in the tidal datum this year.

This is a boot sheet

# J. COMPARISON WITH PRIOR SURVEYS (See Review Pan 6)

A comparison of this survey was made with prior surveys H-4365, 1923-24 (scale 1:40,000) and H-4372, 1924 (scale 1:40,000) and indicates good general agreement. There is, however, a discrepancy of 1 to 3 feet in soundings. This disagreement is probably a result of a

USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

change in the tidal datum and echo sounder equipment.

In accordance with Supplemental Instructions dated August 13, 1964, the following Pre-Survey Review Items were developed. There is no indication of shoals in these areas.

(See Review Parallel 5)

Item No.	<u>P</u>	osition No	TRA CO	Reported Depth	Recorded Depth
1	Latitude Longitude	29°31.18' 93°27.03'	North West	27½ 'ft.	37 It. disproved on H-8767
2	Latitude Longitude	29°32.15' 93°24.40'	North West	35 ft.	38 Italfrom chart
3 24/20	Latitude Longitude	29°32.62° 93°20.68°		35 ft.	38 ft. fram.chart
4	Latitude Longitude	29°34.40° 93°24.22°		35 ft.	38 ft. Disragard
5	Latitude Longitude	29°33.07° 93°29.50°	North West	35 ft.	37 ft. from chart

The items were plotted on tracing vellum overlays to avoid unnecessary congestion on the boatsheet. Position numbers were assigned beginning with 8000 to differentiate development from the regular system of sounding lines. The developments were recorded on the printout, not on the punched tape. The survey records for these items, including the overlays, are forwarded separately in an envelope labelled "Pre-Survey Review Items 1 - 5".

# K. COMPARISON WITH CHARTS (See Review Par. 7)

A comparison of this survey with C&GS Charts 1278 (4th Edition, Dec. 19, 1960; Revised Oct. 9, 1961) and 1279 (6th Edition, August 28, 1961; Revised March 4, 1963) indicates good, general agreement. Depths on this survey were found to be shealer, in general, than those on Charts 1278 and 1279.

A shoal area was located near the entrance to Calcasieu Pass at Latitude 29°44.5' North, Longitude 93°20.1' West, which extends approximately 2 nautical mile in a north-south direction. This shoal is

probably a result of dredging operations in the area.

An iron pipe, which is the outermost pipe of a series, perpendicular to the beach, was located at Latitude 29°45.53 North, Longitude 93°34.21 West. The location is contained in Volume V, Page 6, of launch hydrography. At the time of the survey, the pipe was approximately 1 foot above water. plotted as \$3'

An iron piling was located at Latitude 29°45.54 North, Longitude 93°23.9. West. The location is contained in Volume VI, Page 33, of launch hydrography. At the time of the survey, the piling was approximately 3 feet above water. Plotted as (2)

#### L. ADEQUACY OF SURVEY

This survey is complete and adequate for charting purposes. The shoreline delineation is not complete due to inadequate tide ranges at the time of launch hydrography.

#### M. AIDS TO NAVIGATION

All floating and non-floating aids to navigation were located using Raydist control. Positions of all floating aids were verified using U.S. Coast Guard Light List, Volume II, Atlantic and Gulf Coasts, 1964. The following offshore oil structures were located and are listed in Eighth Coast Guard District Local Notice to Mariners No. 76 dated July 1. 1964:

ck Number	Structure Number	er or Lette	r Latitude	Longitude
GAO GAO GAO	WC-45-1 WC-45-4 WC-45-5		29°40'20" N. 29°39'02'' N. 29°40'25" N.	93°36'30" W. 93°35'40" W. 93°36'16" W.
GAO	WC-45-8		29°40°40° N•	93°35'53" W.
GAO	WC-45-7		29°41'03" N.	93°35'35" W.
BA	WC-20-8		29°41'28" N.	93°35'15" W.

29°41'30" N. 93°35'03" W.

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796
USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Sta	ructure Sign De ock Number, Str	esignating Company, Area	Latitude	Longitude
	TGT	WC-40-A	29°40°49" N.	93°20'42" W.
	GAO	WC-45-2	29°39'41" N.	93°35'48" W.
	BR-AM	WC-11 P L MKR	29°45'00" N.	93°36145" W.
	CALCO	WC-17-3	29°41'38" N.	93°43'08" W.
	:	S-45 (new structure)	29°42°03" N.	93°43'06" W.
	PO	WC-3-1	29°45'18" N.	93°12'33" W.
	PO	WC-2-1	29°45'52" N.	93°11'50" W.
	TGT	WC-40-B	29°41'14" N.	93°20146" W.
	PO	WC-2-A	29° <del>46'08</del> " N.	93°יבנ 93° w.
	PO	WC-2-B	29°45'30" N.	93°11'45" W.
	GAO	WC-45-9	29°41'12" N.	93°35'13" W.
	BA	WC-20-7	29°41'30" N.	93°34'39" W.
	BA	WC-20-1	29°41'27" N.	93°36120" W.
	BA	WC-20-3	29°41'26" N.	93°36'47" W.
	GAO	WC-45-6	29°41'56" N.	93°36'40" W.
	GAO	WC-45-10	29°41'08" N.	93°36'30" W.
	BA	WC-20-A	29°41'36" N.	93°35'50" W.
	BA	WC-20-2	29°41'29" N.	93°35'55" W.
	GAO	WC-45-3	29°40'30" N.	93°36' 50" W.
	BA	WC-20-9	29°41'30" N.	93°35'42" W.

	Designating Compar tructure Number or		Longitude
BA	WC-20-4	29°41'30" N.	93°35129" W.
MOBIL	WC-110-A	29°31'06" N.	93°17'06" W.
MOBIL	WC-110-D	29°30'42" N.	93°16'33" W.
MOBIL	WC-110-1	29°30'19" N.	93°16'42" W.
MOBIL	WC-111-B	29° 30° 27" N.	93°17'47" W.
PH	wc-118-3	29°30'52" N.	93°38135" W.
PH	WC-118-2	29°30'15" N.	93°38'19" W.
PH	WC-118-1	29°29156" N.	93°38124" W.
su	WC-149-B-1	29°26132" N.	93°25'44" W.

These locations were scaled from the uncorrected boatsheet positions.

Refer to "Report on Landmarks for Charts and Fixed Aids to Navigation" for information concerning the location of survey markers and other additional information.

#### N. STATISTICS

#### Vessel - Ship HYDROGRAPHER

Number of Positions	3746
Miles of Sounding Line	2398.1
Area in Square Nautical Miles	358
Number of Bottom Samples	478

#### Vessel - Leunch HY-1

Number of Positions	2384
Miles of Sounding Line	1174.7
Area in Square Nautical Miles	128
Bottom Samples	119

Within the area of this survey one Current Station (No. 4) was observed - Position - Latitude 29°39.0' North, Longitude 93°20.0' West.

#### O. MISCELLANEOUS

The 1964 field records for ship hydrography of this survey were recorded automatically by the DATEX Digital Recording System consisting of a literal printout and punched paper tape; this in conjunction with a corrector and velocity data tape will be used for automatic processing and mechanical plotting systems. All launch hydrography was originally recorded in sounding volumes and is to be logged into the DATEX system for similar reasons. Following is the format used for this survey:

#### (a) Original Hydrographic Data:

Time.	Phase Indicator	Depth	Position Number	Day Number	Feet/Fathoms	Raydist (Rl)	laydist (R2)
					P		æ
083000	01	<b>*</b> 0275	1867	275	1	078270	103250

<sup>\*</sup> For launch hydrography this will be the scanned depth.

USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

#### (b) Corrector Tape:

	cor	<b>~</b>	Jer.			Rayd: Correc	ist tions		oundi recti	
	Indicat	Depti	n Numb	ber	thoms	(R <sub>1</sub> )	(R <sub>2</sub> )			, Þ.
Time	Phase In	Scanned	Positio	Day Numb	Feet/Fa	Raydist	Raydist	Tide	Draft	Velocit
081300	01	0278	0028	252	1	100120	000120	1032	032	000

For complete information concerning the logging of data for the automatic plotting systems refer to Chief, Operations Division Memorandum WSC-210 dated December 7, 1964 (Subject: Revised Instructions for Logging the Corrector Tape). Copy of memorandum is appended to this report.

#### (c) Velocity Tape:

In making the Velocity Tape, all entries will consist of short words. Example below:

Depth Range	Velocity Correction	Velocity Tape Format
0 to 5.0 fms	+ 0.1 fms	000050 00 0001
5.1 to 7.0	+ 0.2	000070 00 0002
7.1 to 9.0	+ 0.3	000090 00 0003
9.1 to 11.0	+ 0.4	000110 00 0004
11.1 to 13.0	+ 0.5	000130 00 0005

For complete instructions concerning the Velocity Tape, refer to Chief, Operations Division Memorandum WSC-210 dated December 7, 1964. Copy of memorandum is appended to this report.

Within the area of this survey there is a mud slush layer, lying on the bottom, that may be detected by hand lead. Gain and stylus needle length settings on the fathometer are especially critical because of this condition. Gain checks were made to determine the proper gain setting for any given area.

USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

A number of suspicious spikes were noticed on the fathograms in the area of this survey. Two of the most prominent spikes were investigated by the Ships WAINWRIGHT and HILGARD by means of wire drag. Both areas were cleared well below the depth indicated by the spikes. At the time these spikes were observed, seismic investigations were in progress in the area. As a result of this investigation, it is recommended that these spikes be considered strays and disregarded. A copy of the special report on the wire drag operation is appended to this report.

#### P. RECOMMENDATION

None

#### Q. REFERENCES TO REPORTS

The reports listed below are necessary for a complete evaluation and understanding of this survey and have been submitted to the Washington Office:

#### Title of Report

Date Forwarded

Raydist Report, 1964 Field Season, Project OPR-427, Sabine Bank, Texas -Louisiana

Report on Corrections to Echo Soundings, 1964 Field Season, Project OFR-427, Sabine Bank, Texas - Louisiana

Report on Landmarks for Charts & Fixed Aids to Navigation, OPR-427, Sabine Bank, Texas - Louisiana

2/2/65

Season's Report, USC&GS Ship HYDROGRAPHER

1/19/65

1964 Field Season

Agnes V. Cellus Substant A. Barnes Jp., LTJG, USC&GS

Approved and Forwarded: MAR 5 1965
V. Ralph Sobieralski, CDR, USC&GS

DATE: 12/7/64

# Memorandum

TO

Commanding Officer

USC&GSS HYDROGRAPHER

Box 1259, St. Petersburg, Fla.

FROM

Commanding Officer

USC&GS Ships WAINWRIGHT & HILGARD 102 W. Olney Road, Norfolk, Va. 23510

SUBJECT:

Special Report, Sabine Bank, Wire Drag

Inserted in DR

In accordance with verbal instructions 14 September 1964, additional wire drag investigations were carried out in latitude 29°37.26¹, longitude 93°42.0¹; and latitude 29°36.51¹, longitude 93°38.9¹ to verify or disprove the existence of the 23.0¹ and 27.0¹ soundings indicated on boat sheet overlay supplied by the Hydrographer.

An approximate 0.42 square mile area was wire dragged to an effective depth of 28.0' in search of the indicated 23.0' sounding, and an approximate 0.24 square mile area was wire dragged to an effective depth of 31.5' in search of the indicated 27.0' sounding, with negative results.

Hourly heights were furnished by the Washington Office for tidal data and are herewith enclosed as Attachment #1. Effective depths are in feet at Mean Low Water.

No further investigation of either indicated sounding is deemed necessary and it is recommended the 23.0 and 27.0 soundings be removed from the contemporary survey.

Accepted hydrographic and wire drag methods were followed with 3point sextant fixes used for control. Existing control points (natural objects) were used in all cases as indicated on boat sheet

James S. Midgley

encl. #1 - Tidal Data; #2 Overlay CC: Op. Div.

LEG/jrb

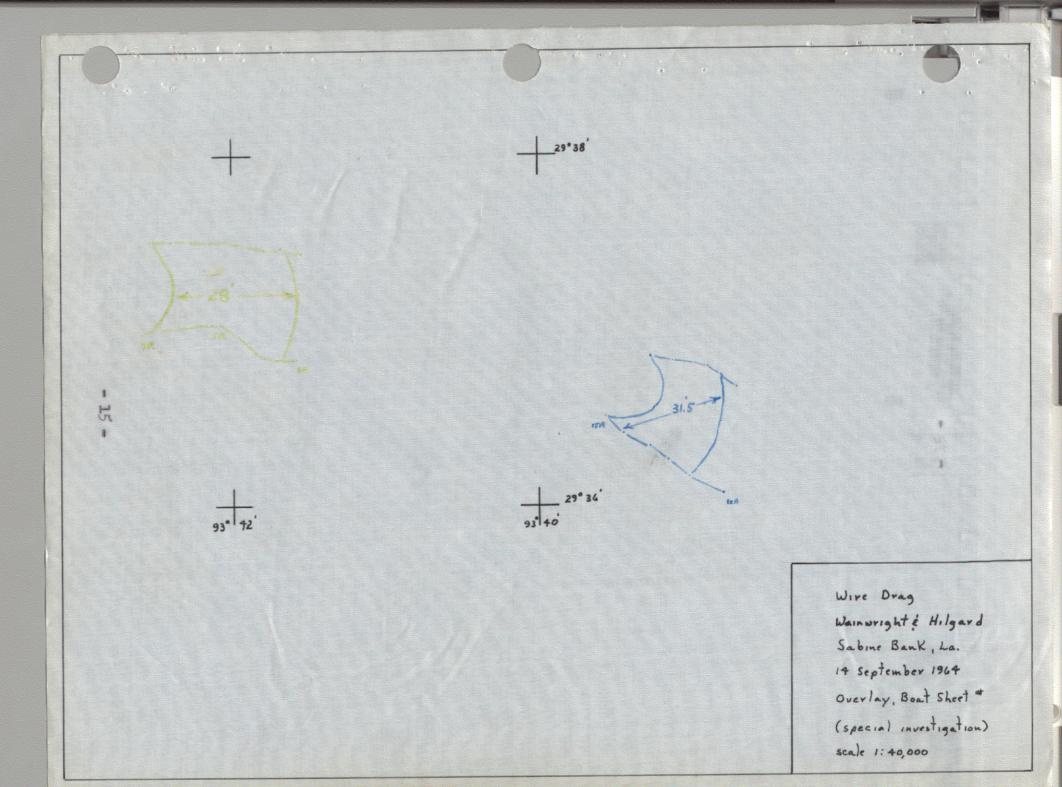
# Hydro LIST OF, SIGNALS

BIG Large oil rig with derrick, lat. 29°39.01, long. 93°35.61

DUD Large oil platform with large house & structure, no derrick lat. 29°41.6', long. 93°35.85'

DUM Large oil rig with derrick, lat. 29°42.05', long. 93°43.1'

ZOO large oil rig with derrick, lat. 29°39.81, long. 93°47.21



# APPROVAL SHEET

The attached report, related wire drag records and plotting sheets have been inspected by me and are approved.

James S. Midgley
Lieutenant, C&GS
Commanding
WAINWRIGHT & HILGARD

#### SIGNAL NAMES

Signal Name	T-Sheet or Triangulation
ADD	<b>T-1063</b> 0
ACE	T-10633
AMA	BRAMA, 1963
ANN	T-10629
ARM	T-10629
BED	<b>T-1</b> 0629
BIG	Sextant Cuts from shore
BOB	<b>T-10</b> 632
BUT	<b>T-10</b> 632
CAL	RBN CALCASIEU, 1955
CAR	<b>T-10629</b>
CON	<b>T-1</b> 0630
CUE	<b>T-10632</b>
DAY	<b>T-10632</b>
DIP	<b>T-10632</b>
DOL	<b>T-10</b> 629
DOT	<b>T-10633</b>
DUD	Sextant Cuts from shore
DUM	Sextant Cuts from shore
<b>EA</b> R	<b>T-10</b> 629
FAT	T-10629
FIN	<b>T-10629</b>
FOE	T-10632
FOG	T-10631
FOX	T-10631
FROST	FROST, 1963
GET	T-10633
GUS	<b>T-10629</b>
HACK	HACK, 1923
HOE	<b>T-10633</b>
ITS	T-10632
IVY	T-10631
JAR	T-10633
JAW	T-10630
JOE	T-10630
JOY	<b>T-10629</b>
JUG	<b>T-1</b> 0632

USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

(cont'd)

# SIGNAL NAMES

Signal Name	T-Sheet or Triangulation
Jut	T-10632
LEE	LEE, 1924
LYN	HOLLYND, 1955
MAN	MAN, 1924
Mast	JOHNSON'S BAYOU, GENERAL
	AMERICAN OIL COMPANY MAST, 1963
MIC	T-10629
MUG	T-10631
OCEAN	OCEAN, 1933
OIL	T-10631
OUT	T-10635
PAW	T-10631
PLY	T-10631
RAG	T-10631
RAM	T-10630
RIO	SUPERIOR B, 1955
ROLL	ROLLER, 1963
SAG	T-10631
SET	T=10630
SOW	<b>T-10630</b>
TAN	T-10631
TAX	T-10632
THY	T-10632
VET	PEVETO, 1963
WAX	T-10631
WOO	T-10632
	, =

# INDEX OF BOTTOM SAMPLES

#### SHIP

Day Number	Date	Position Number
288	October 14	2844
288	11	2850
288	Ħ	2858 + 2 min.
<b>2</b> 88	tt	2865
<b>2</b> 88	Ħ	2871
288	tt ·	2872
<b>2</b> 88	tt	2873
288	Ħ	2874
288	ij.	2875
288	ii .	2883
288	tt	2891
288	n	2892 <sub>←1909</sub> 3033
289	October 15	3033
289	n	304 <b>T</b>
289	11	3080
289	ij	3172
290	October 16	3386
290	n	3391
290	***	3395
290	Ħ	3406
291	October 17	3543
291	u	3547 + 1 min.
291	***	3594 + 2 min.
291	11	3598 + 1 min.
291	11	3603
291	ij	3614
291	•	3632
291	11	3637
291	#	3642
291	ű	3647
291	11	3648
291	11	3649
291	Ħ	3650

INDEX OF BOTTOM SAMPLES (SHIP) - cont'd.

Day Number	Date	Position Number	
291	October 17	3651	
291	11	3652	
291	11	3653	
291	tt	3654	
291	ij	3655	
291	11	3660	
291	11	3665	
291	11 .	3700	
291	ii.	3704	
291	n	3710	
292	October 18	3737	
292	31	3738	
292	H .	3739	
292	#	3740	
292	n	3741	

# INDEX OF BOTTOM SAMPLES

#### LAUNCH HY-1

Day Number	Date	Position Number	Volume
254	September 10	5071	I
255	September 11	5203	II
255	Ħ	5234	II
255	11.	5247	II
256	September 12	5424	II
258	September 14	5514	III
271	September 27	5987	VI
273	September 29	6182	VII
273	n	6189	VII
273	· <b>11</b>	6273	VII
274	September 30	6291	AIII
274	n	6300	VIII
285	October 11	6604	IX
286	October 12	6619 + 2 min.	IX
286	11	6630 + 2 min.	IX
286	in the second se	680li + 2 min	X
286	Ħ	6809	X
292	October 18	7131	XI
293	October 19	7285	XII

#### RAYDIST CORRECTIONS

#### PROJECT OPR-427

#### SABINE BANK, TEXAS - IOUISIANA

#### 1964 FIELD SEASON

The following listed corrections apply to both ship and launch hydrography. The times listed are those of actual hydrography:

#### SHIP

Day of the Year	Date	From	To	Corrections (R <sub>1</sub> ) (R <sub>2</sub> )
241	8-28	1038	2400	- 0.3 + 0.4
242 🗸	8 <b>-2</b> 9	0000 2057	0250 2400	- 0.3 + 0.4 - 0.3 + 0.4
243 /	8-30	0000 0245 2229	0220 0316 2400	- 0.3 + 0.1 - 0.3 + 0.1 - 0.3 - 0.6
244 /	8-31	0000 2122	0311 2400	- 0.3 - 0.6 - 0.3 - 0.6
245	9 <b>-</b> 1	0000 2053	0255 2400	- 0.3 - 0.6 - 0.3 - 0.6
246 🐇	9 <b>-</b> 2	0000 2107	03 <b>1</b> 5 2400	- 0.3 - 0.6 - 0.3 + 0.1
247	9 <b>-3</b>	0000	0245	- 0.3 + 0.1
253 ′	9 <b>-</b> 9	1937	2400	+ 0.6 + 0.1
254	9 <b>-1</b> 0	0000 2128	03 <b>1</b> 4	+ 0.6 + 0.4 - 0.4 + 0.1
255	9-11	0000 2030	0640 2400	- 0.4 + 0.4 - 0.4 + 0.1

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796
USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Raydist	Corrections	(Ship)	-	cont'd.

Day of the Year	Date	From	То	Corrections $(R_1)$ $(R_2)$
256	9 <b>-1</b> 2	0000 2107	5700 0557	- 0.4 + 0.4 - 0.4 + 0.4
257 ′	9-13 '	0000	2400	- 0.4 + 0.4
258	9-14	0000 2112	0425 2400	- 0.4 + 0.4 - 0.4 + 0.4
259	9 <b>-1</b> 5	0000 1318	0324 2400	- 0.4 + 0.4 - 0.4 + 0.4
260~	9-16	0000	0818	- 0.4 + 0.4
263	9-19	1807	2400	+ 0.6 + 1.4
264	9-20	0000	2400	+ 0.6 + 1.4
265	9 <b>-21</b>	0000 1252	0548 2400	+ 0.6 + 1.4 - 0.4 + 0.4
<b>266</b> ′	9 <b>-</b> 22	0000 2235	2234 2400	- 0.4 + 0.4 - 0.4 - 1.6
267	9 <b>-2</b> 3	0000 1846	0320 2400	- 0.4 - 1.6 + 0.6 + 1.4
<b>268</b>	9-24	0000	0713	+ 0.6 + 1.4
282 -	10-8	1654	2310	- 0.4 + 1.4
284	10-10	0711	2400	- 0.4 - 0.6
285	10-11	0000	0130	- 0.4 - 0.6

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796
USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Raydist	Corrections	(Ship)	-	cont'd.

Day of the Year	Date	From	To	Corrections (R <sub>1</sub> ) (R <sub>2</sub> )
287	10-13	1243	2400	+ 0.6 + 0.4
288	10-14	0000 0307 0424 0428 0437 0439	0139 0423 0427 0436 0438 0446 2400	+ 0.6 + 0.4 + 0.6 + 2.4 + 0.6 + 4.4 + 0.6 + 6.4 + 0.6 + 8.4 + 0.6 + 10.4 + 0.6 - 0.6
289	10-15	0000	2400	+ 0.6 - 0.6
290	10 <b>-1</b> 6	0000 0405 0407 0415 0525 1940	0404 0406 0414 0445 1727 2400	+ 0.6 - 0.6 + 0.6 + 3.4 + 0.6 + 7.4 + 0.6 + 9.4 + 0.6 - 0.6 + 0.2 - 1.2
291	10-17	0000	2400 .	+ 0.2 - 1.2
292	10-18	0000	0358	+ 0.2 - 1.2

Raydist Corrections (Launch HY-1)					
Day of the Year	Date	From	To	Corrections (R <sub>1</sub> ) (R <sub>2</sub> )	
246 /	9-2	1454	1836	- 0.3 + 0.4	
254	9-10	0648	1853	- 0.3 + 0.4	
255	9-11	0830	1830	- 0.3 + 0.4	
256	9 <b>-12</b>	0548	1741	- 0.3 + 0.4	
258	9-14	0557 1515	1106 1900	- 0.3 + 0.4 - 0.3 + 0.4	
259/	9 <b>-1</b> 5	0530	1053	- 0.3 + 0.4	
265~	9-21	0752	1005	- 0.3 + 1.4	
267 /	9 <b>-</b> 23	0557	<b>1</b> 659	- 0.3 + 0.4	
268	9-24	0816	1240	+ 0.7 + 0.4	
269 ∕	9-25	0756	1659	- 0.3 - 0.6	
270	9 <b>-2</b> 6	0947	1027	+ 0.7 + 0.4	
271	9 <b>-2</b> 7	11719 08171	1035 1820	- 0.3 - 0.6 + 0.7 + 0.4	
272	9-28	0807	1714	+ 0.7 + 0.4	
273	9-29	0914	1647	+ 0.7 + 0.4	
274	9 <b>-3</b> 0	0813	1632	+ 0.7 + 0.4	
281	10-7	1121 1507	1410 1521	- 0.3 - 0.6 + 0.7 - 0.6	
<b>285</b>	10-11	0533 1450	1435 2400	+ 0.7 - 1.6 + 0.7 + 0.4	

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796
USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Raydist Corrections (Launch HY-1) - cont'd.

Day of the Year	Date	From	To	Corrections $(R_1)$ $(R_2)$
286	10-12	0000 1325 1329 2053	1204 1328 1958 2400	+ 0.7 + 0.4 + 0.7 - 1.6 + 0.7 + 0.4 + 0.7 - 1.6
287/	10-13	0000	1008	+ 0.7 - 1.6
292	10-18	0640 1401	1331 2400	- 0.3 + 1.4 - 0.3 - 0.6
293	10-19	0000 1037 1142	0337 1055 2240	- 0.3 - 0.6 - 0.3 - 2.6 - 0.3 - 0.6
294 /	10-20	0023	0637	- 0.3 - 0.6

Listed below are the Total Draft Corrections, in feet, for the ship only. Only times of actual hydrography are listed.

Draft Correction is based on daily readings from an internal gage in the ship's engine room.

Settlement & Squat Correction is based on the following values for ship's speed: Full Speed + 1.0 feet, Half Speed + 0.3 feet, Slow Speed and Stop 0.0 feet.

Instrument or Index Correction is the amount the fathogram initial is in error.

#### ABSTRACT OF TOTAL DRAFT CORRECTIONS

Day of the Year	Date	From	<u>To</u>	Draft Corr.	S & S Corr.	Instr. or Index Corr.	Total Draft Corr.
241	8-28	1038	2359	+ 0.7	+ 1.0	0.0	+ 1.7
242	8-29	0000 2245	0250 2359	+ 0.6 + 0.5	+ 1.0 + 1.0	0.0 0.0	+ 1.6 + 1.5
243	8-30	0000 2229	0316 2359	+ 0.5 + 0.3	+ 1.0 + 1.0	0.0 0.0	+ 1.5 + 1.3
244	8-31	0000 2122	0311	+ 0.3	+ 1.0 + 1.0	0.0 +0.02	+ 1.3 + 1.2
245	9-1	2053 2053	0255 2359	+ 0.2 + 0.1	+ 1.0 + 1.0	0.0	+ 1.2 + 1.1
246	9 <b>-</b> 2	0005 2107 2202 2213	0315 2201 2212 2359	+ 0.1 + 0.1 + 0.1 + 0.1	+ 1.0 + 1.0 + 1.0 + 1.0	0.0 0.0 + 0.2 0.0	+ 1.1 + 1.1 + 1.3 + 1.1
247	9 <b>-3</b>	0000	0245	+ 0.1	+ 1.0	0.0	+ 1.1
253	9 <b>-</b> 9	1937 2312 2313	2311 2359	+ 0.9 + 0.9 + 0.9	+ 1.0 + 1.0 + 1.0	0.0 - 0.2 0.0	+ 1.9 + 1.7 + 1.9
254	9 <b>-10</b>	0000	0300	+ 0.9	+ 1.0	0.0	+ 1.9

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796
USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Abstract of Total Draft Corrections (Ship) contid.

Day of the Year	Date	From	<u>To</u>	Draft Corr.	S & S Corr.	Instr. or Index Corr.	Total Draft Corr.
254 (cont'd)	9-10	0301 2128 2231 2255	0314 2230 2254 2359	+ 0.8 + 0.7 + 0.7 + 0.7	+ 1.0 + 1.0 + 1.0 + 1.0	0.0 0.0 - 0.2 0.0	+ 1.8 + 1.7 + 1.5 + 1.7
255	9-11	0000 0214 0216 0403 2030	0213 0215 0259 0640 2359	+ 0.7 + 0.7 + 0.7 + 0.7 + 0.6	+ 1.0 + 1.0 + 1.0 + 1.0 + 1.0	0.0 - 0.2 0.0 0.0 0.0	+ 1.7 + 1.5 + 1.7 + 1.7 + 1.6
256	9-12	0012 0101 2107	0100 <b>0</b> 224 2359	+ 0.6 + 0.5 + 0.4	+ 1.0 + 1.0 + 1.0	0.0 0.0 0.0	+ 1.6 + 1.5 + 1.4
257	9 <b>-13</b>	0000 0008 0010 0323 0329 0901	0007 0009 0322 0328 0900 2359	+ 0.4 + 0.4 + 0.4 + 0.4 + 0.4	+ 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0	0.0 - 0.2 0.0 - 0.2 0.0 0.0	+ 1.4 + 1.2 + 1.4 + 1.2 + 1.4 + 1.3
258	9-14	2112	0425 2359	+ 0.2 + 0.2	+ 1.0 + 1.0	0.0 0.0	+ 1.2 + 1.2
259	9 <b>-1</b> 5	0000 0104 0113 0255 0303 1318 1759	0103 0112 0248 0302 0324 1524 2359	+ 0.2 + 0.2 + 0.2 + 0.2 + 0.2 + 0.1 + 0.1	+ 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0	0.0 - 0.2 0.0 - 0.2 0.0 0.0	+ 1.2 + 1.0 + 1.2 + 1.0 + 1.2 + 1.1 + 1.1
260	9 <b>-1</b> 6	0000 0108 0115 0117	0103 0114 0116 0818	+ 0.1 + 0.1 + 0.1 + 0.1	+ 1.0 + 0.3 + 0.3 + 1.0	0.0 - 0.2 0.0 0.0	+ 1.1 + 0.2 + 0.4 + 1.1

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796

Abstract of Total Draft Corrections (Ship) contid.

USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Day of the Year	Date	From	To	Draft Corr.	S & S Corr.	Instr. or Index Corr.	Total Draft Corr.
263	9-19	1807	2359	+ 0.7	+ 1.0	0.0	+ 1.7
264	9-20	0000 0133 0135 0658 0703 1439	0119 0134 0657 0702 1050 2359	+ 0.7 + 0.7 + 0.7 + 0.7 + 0.7 + 0.7	+ 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0	0.0 - 0.2 0.0 - 0.2 0.0 0.0	+ 1.7 + 1.5 + 1.7 + 1.5 + 1.7 + 1.7
265	9 <b>-21</b>	0004 0101 1252 1830	0100 0548 1609 2356	+ 0.7 + 0.6 + 0.6 + 0.6	+ 1.0 + 1.0 + 1.0 + 1.0	0.0 0.0 0.0 0.0	+ 1.7 + 1.6 + 1.6 + 1.6
266	9 <b>-2</b> 2	0018 1213 1649 1652 1701	1013 1648 1651 1700 2359	+ 0.5 + 0.5 + 0.5 + 0.5 + 0.4	+ 1.0 + 1.0 + 0.3 + 1.0 + 1.0	0.0 0.0 0.0 0.0 0.0	+ 1.5 + 1.5 + 0.8 + 1.5 + 1.4
267	9-23	0000 1846 2131 2336 2338 2343	0320 2130 2335 2337 2339 2352	+ 0.4 + 0.3 + 0.2 + 0.2 + 0.2 + 0.2	+ 1.0 + 1.0 + 1.0 + 0.3 0.0 + 1.0	0.0 0.0 0.0 0.0 0.0 0.0	+ 1.4 + 1.3 + 1.2 + 0.5 + 0.2 + 1.2
268	9-24	0004	0713	+ 0.2	+ 1.0	0.0	+ 1.2
282	10-8	1654	2058	0.0	+ 1.0	0.0	+ 1.0
284	10-10	0711 1001 1547 2101 2121	1000 1030 2100 2120 2359	+ 0.9 + 0.8 + 0.8 + 0.8 + 0.8	+ 1.0 + 1.0 + 1.0 + 0.3 + 1.0	0.0 0.0 0.0 0.0 0.0	+ 1.9 + 1.8 + 1.8 + 1.1 + 1.8

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796

USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

#### Abstract of Total Draft Corrections (Ship) cont'd.

Day of the Year	Date	From	<u>To</u>	Draft Corr.	S & S Corr.	Instr. or Index Corr.	Total Draft Corr.
285	10-11	0000	0130	+ 0.8	+ 1.0	0.0	+ 1.8
287	10-13	1243 1300 1309 1327 1440 1705 1727 1842 1854 2030 2139 2233 2251 2301 2303 2308 2311	1259 1308 1326 1439 1704 1726 1804 1853 2029 2138 2208 2250 2300 2302 2307 2310 2359	++++++++++++++++++++++++++++++++++++++	+ 1.0 + 1.0	0.0 - 0.2 0.0 - 0.2 0.0 - 0.2 0.0 - 0.2 0.0 - 0.2 0.0 - 0.2 0.0 - 0.2 0.0 0.0	+ 1.5 + 1.3 + 1.5 + 1.3 + 1.5 + 1.3 + 1.5 + 1.5
288	10-14	0000 0051 0307 0348 0358 0401 0537 0833 1231 1306 1307 1331 1340 1401 1404 2031 2043	0050 0124 0347 0357 0400 0446 0817 1020 1234 1305 1339 1400 1403 2030 2042 2359	+ + + + + + + + + + + + + + + + + + +	+ 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 0.0 + 1.0 0.0 + 1.0 0.0 + 1.0 0.0 + 1.0 0.0 + 1.0	0.0 - 0.2 - 0.2 + 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	+ 1.5 + 1.3 + 1.7 + 1.4 + 1.4

# USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Abstract of Total Draft Corrections (Ship) contid.

Day of	<u>.</u>	,	_	Draft	5 & 5	Instr. or	Total Draft
the Year	Date	From	To	Corr.	Corr.	Index Corr.	Corr.
289	10-15	0004	0037	+ 0.4	+ 1.0	0.0	+ 1.4
207		0038	01/10	+ 0.4	+ 1.0	- 0.2	+ 1.2
		01/1	0400	+ 0.4	+ 1.0	0.0	+ 1.4
		0401	<b>0419</b>	+ 0.3	+ 1.0	0.0	+ 1.3
		0426	0631	+ 0.3	+ 1.0	0.0	+ 1.3
		0632	0634	+ 0.3	0.05	0.0	<b>+ 0∙3</b> ⊗
•		0635	0708	+ 0.3	+ 1.0	0.0	+ 1.3
		0716	1543	+ 0.3	+ 1.0	0.0	+ 1.3
		1544	1547	+ 0.3	+ 0.3	0.0	+ 0.6
•		1548	1557	+ 0.3	0.0	0.0	+ 0•3
		1558	1751	+ 0.3	+ 1.0	0.0	+ 1.3
		1857	1906	+ 0.3	+ 1.0	0.0	+ 1.3
		1907	1910	+ 0.3	+ 1.0	- 0.2	+ 1.1
		1911	2359	+ 0.3	+ 1.0	0.0	+ 1.3
290	10-16	0000	0001	+ 0.3	+ 1.0	- 0.3	+ 1.0
		0002	0107	+ 0.3	+ 1.0	0.0	+ 1.3
		<b>010</b> 8	0130	+ 0.3	+ 1.0	- 0.2	+ 1.1
. *		0131	0330	+ 0.3	+ 1.0	0.0	+ 1.3
		0331	0345	+ 0.2	+ 1.0	0.0	+ 1.2
		0346	0356	+ 0.2	+ 0.3	0.0	+ 0.5
		0357	0802	+ 0.2	+ 1.0	0.0	+ 1.2
		0915	0930	+ 0.2	+ 1.0	0.0	+ 1.2
		0931	0938	+ 0.2	+ 1.0	- 0.2	+ 1.0
		0939	1225	+ 0.2	+ 1.0	0.0	+ 1.2
		1319	1349	+ 0.2	+ 1.0	- 0.2	+ 1.0
		1350	1433	+ 0.2	+ 1.0	0.0	+ 1.2
		1452	1510	+ 0.2	+ 1.0	0.0	+ 1.2
\$		1511	1514	+ 0.2	0.0	. 0.0	+ 0.2
		1515	1530	+ 0.2	+ 1.0	0.0	+ 1.2
		1531	1533	+ 0.2	0.0	0.0	+ 0.2
		1534	1542	+ 0.2	+ 1.0	0.0	+ 1.2
		1704	1705	+ 0.2	+ 1.0	- 0.2	+ 1.0
	•	1706	1728	+ 0.2	+ 1.0	0.0	+ 1.2
•		1940	2238	+ 0.2	+ 1.0	0.0	+ 1.2
		2239	2243	+ 0.2	+ 1.0	+ 0.2	+ 1.4
		<b>22</b> 44	2359	+ 0.2	+ 1.0	0.0	+ 1.2

# USC&GS SHIP HYDROGRAPHER - 196h - cont'd.

# Abstract of Total Draft Corrections (Ship) contid.

Day of the Year	Date Fr	:on		raft orr.	S & S Corr.	Instr. or Index Corr.	Total Draft Corr.
291	10-17 0			0.1	+ 1.0	- 0.2	+ 0.9
•	0	1004 O	625 +	0.1	+ 1.0	0.0	+ 1.1
		626 0		0.1	0.0	0.0	+ 0.1
	. 0	631 0	645 +	0.1	+ 1.0	0.0	+ 1.1
	•	646	+	0.1	0.0	0.0	+ 0.1
			751 +	~	+ 1.0	- 0.2	+ 0.9
			039 +		+ 1.0	0.0	+ 1.1
			042 +	0.1	0.0	0.0	+ 0.1
		.043 1	055 +	0.1	+ 1.0	0.0	+ 1.1
	1	.056 I	058 +	0.1	0.0	0.0	+ 0.1
			106 +	0.1	+ 1.0	0.0	+ 1.1
			203 +	~~	+ 0.3	0.0	+ 0.4
			336 +	0,1	+ 1.0	0.0	+ 1.1
	3	337 1	355 +	0.1	+ 1.0	- 0.2	+ 0.9
	1	356 1		0,1	+ 1.0	0.0	+ 1.1
	1	421 1	422 +	0,1	+0.05	0.0	+ 0 <b>.1</b> 6
	1	423 1	ήή <b>0 +</b>	0.1	+ 1.0	0.0	+ 1.1 <sub>.</sub>
	. 1	441 1	442 +	0.1	+ 0.05	0.0	+ 0 <b>.1</b> 6
		443 1	501 +		+ 1.0	0.0	+ 1.1
	1	.502 1		0.1	+0.05	<b>^ 0.0</b>	+ 0• <b>1</b> 6
	1	.504 1	845 +	0,1	+ 1.0	0.0	+ 1.1
	` 1	.846 1	847 +	0.1	0.0	0.0	+ 0.1
				0.1	+ 1.0	0.0	+ 1.1
			907 +	0.1	0.0	0.0	+ 0.1
				0.1	+ 1.0	0.0	+ 1.1
		.928 1		0.1	+ 1,0	- 0.2	+ 0.9
	1	.932 2		0.1	+ 1.0	0.0	+ 1.1
		232 2		0.1	0,0	0.0	+ 0.1
	2	235 2	238 +	0,1	+ 1,0	0.0	+ 1.1
		239 2	253 +	0.1	0.0	0.0	+ 0.1
			30 <u>0</u> +	0.1	+ 1.0	0.0	+ 1.1
			304    +	0.1	0.0	0.0	+ 0.1
	2	304 2	359 +	0.1	+ 1.0	0.0	+ 1.1

#### USCAGE SHIP HYDROGRAPHER - 1964 - cont'd.

Abstract of Total Draft Corrections (Ship) cont'd.

Day of the Year	Date	From	To	Draft Corr.	5 & S Corr.	Instr. or Index Corr.	Total Draft Corr.
292	10-18	0000 0003 0026 0046	0002 0025 0045 0358	0.0 0.0 0.0 0.0	+ 1.0 + 1.0 + 1.0 + 1.0	- 0.2 0.0 - 0.2 0.0	+ 0.8 + 1.0 + 0.8 + 1.0

Listed below are the Total Draft Corrections, in feet, for the launch only. Only times of actual hydrography are listed.

Draft Correction will remain at 0.0 feet. This is taken care of by Bar Check. (Abstract of Bar Checks appended to this report).

Settlement & Squat Correction is based on following values for the speed of the launch: 1230 R.P.M. and above = + 0.2 feet, all below 1230 R.P.M. = 0.0 feet.

Instrument or Index Correction is the amount the fathogram initial is in error.

Day of the Year	Date	From	To	Draft Corr.	S & S Corr.	Instr. or Index Corr.	Total Draft Corr.
246	9-2	1454 1551 1627	1550 1626 1836	0.0 0.0 0.0	+ 0.2 + 0.2 + 0.2	0.0 0.0 0.0	+ 0.2 + 0.2 + 0.2
254	9 <b>-1</b> 0	0648	1853	0.0	+ 0.2	0.0	+ 0.2
255	9-11	0830	1830	0.0	+ 0.2	0.0	+ 0.2
256	9-12	0548 1502 1723	1502 1723 1741	0.0 0.0 0.0	+ 0.2 + 0.2 + 0.2	0.0 + 0.2 0.0	+ 0.2 + 0.4 + 0.2
258	9-14	0557	1900	0.0	+ 0.2	0.0	+ 0.2
259	9-15	0530	1053	0.0	+ 0.2	0.0	+ 0.2
265	9-21	0752	1005	0.0	+ 0.2	0.0	+ 0.2

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796
USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

Abstract of Total Draft Corrections (Launch) cont'd.

Day of the Year	Date	From	To	Draft Corr.	S & S Corr.	Instr. or Index Corr.	Total Draft Corr.
267	9-23	0557 1232 1301	1232 1301 1654	0.0 0.0 0.0	+ 0.2 + 0.2 + 0.2	0.0 + 0.2 0.0	+ 0.2 + 0.4 + 0.2
268	9-24	0816 0823	0823 1240	0.0	+ 0.2 + 0.2	- 0.2 0.0	0.0 + 0.2
269	9-25	0756	1658	0.0	+ 0.2	0.0	+ 0.2
270	9-26	0947	1027	0.0	+ 0.2	0.0	+ 0.2
271	9-27	087/1	1605 1820	0.0	+ 0.2	0.0	+ 0.2 + 0.2
272	9-28	0808	1714	0.0	+ 0.2	0.0	+ 0.2
273	9=29	0914 1600 1616	1600 1616 1647	0.0 0.0 0.0	+ 0.2 + 0.2 + 0.2	0.0 - 0.2 0.0	+ 0.2 0.0 + 0.2
274	9-30	0813	1632	0.0	+ 0.2	0.0	+ 0.2
281	10-7	1122	1521	0.0	+ 0.2	0.0	+ 0.2
285	10-11	0534	2358	<b>0</b> •0	+ 0,2	0.0	+ 0•2
286	10-12	0000	2350	0.0	+ 0.2	0.0	+ 0.2
287 287	10-13	0548	0547 <b>1</b> 008	0.0	+ 0.2 + 0.2	0.0	+ 0. Z + 0.2
292	10-18	0641	2356	0.0	+ 0.2	0.0	+ 0.2
293	10-19	0000 0219 0235	0218 0234 2240	0.0 0.0 0.0	+ 0.2 0.0 + 0.2	0.0 0.0 0.0	+ 0.2 0.0 + 0.2
294	10-20	0023	0637	0.0	+ 0.2	0.0	+ 0.2

#### TIDE NOTE

Field No. HY-40-2-64

Registry No. H-8796

Tide Station:

Sabine Bank Lighthouse, Texas - Louisiana Latitude 29°28'20" North

Longitude

93°43'21" West

Plane of Reference:

MLW = 5.9 feet on the bubbler gage

Time Meridian:

90° West

Time Correction:

None

Height Correction:

In accordance with Chief, Marine Data Division letter 2321-307-982h dated November 13, 1963 (copy attached) boat sheet soundings were plotted using a reference: MLW = 4.9 feet on the gage. When the MLW value was redetermined to be 5.9 feet on the gage (Chief, Marine Data Division letter 2321-212-CSS 4 dated September 28, 1964 - copy attached) subsequent soundings were plotted using the first reference for purposes of contimuity.

Area Covered:

Entire area of Boatsheet HY-40-2-64 (See page 35)

An abstract of tide corrections (verified by Tide and Currents Branch) is appended to this report.

#### TIDE NOTE

Field No. HY-40-2-64

Registry No. H-8796

Tide Station:

Pleasure Pier, Galveston, Texas

Latitude Longitude 29°17'00" North 94°47'00" West

Plane of Reference:

MLW = 2.4 feet on the staff\*

Time Meridian:

90° West

Time Correction

minus 1 hour\*

Height Correction:

1.2 feet (Ratio)\*

Area Covered:

used only for Launch hydrography on sheet

HY-40-2-64 during the time Sabine Bank

Lighthouse gage was inoperative

\*Chief, Marine Data Division letter 2321-244-CSS 4, dated November 9, 1964. (copy appended)

## Memorandum

то

Commanding Officer

USC&GS Ship HYDROGRAPHER

DATE: November 13, 1963

In reply refer to:

2321-307-982h

FROM

G.

Chief, Marine Data Division

SUBJECT: TIDAI

TIDAL data OPR-427

Hourly heights from the bubbler gage record at Sabine Beach Lighthouse are to be used for sounding reductions on Project OPR-427, MLW is 4.9 ft. above gage zero.

Tabulations of the Galveston Pleasure Pier for September 19-30 are enclosed as requested. Heights at Galveston are referred to a datum which is 2.4 ft. below MLW.

Kenneth S. Ulm

The S. Whon

Enclosures

# Memorandum

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

IN REPLY REFER to: 2321-212-CSS 4

TO.

The Commanding Officer USCAGSS HYDROGRAPHER P.O. Box 448 Galveston, Texas

DATE: September 28, 1964

FROM:

Chief, Marine Data Division

SUBJECT: Sabine Bank Lighthouse tidal data.

Pressure gage records for the period July 16 - September 16 have been tabulated and reduced to mean values. The correction of -0.7 ft. to heights from 2000 July 17 to 1600 July 18 is verified. During the period 2000 August 5 to 0900 August 19, the correction to heights shown on the marigram should be-1.3 ft. Heights tabulated from the latest records received, August 19 to September 16, should be corrected by -0.2 ft. After these corrections are made, MLW is 5.9 ft. above the zero of tabulation.

William D. Barbee

# Memorandum

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

IN REPLY REFER TO: 2321-244-CSS 4

TO:

The Commanding Officer USCACES HYDROGRAPHER ...P.O. Box 448
Galveston, Texas

DATE: November 9, 1964

FROM:

Chief, Marine Data Division

SUBJECT: Sabine Bank Tidal Data

We are enclosing hourly height observations at Galveston Pleasure Pier for the reduction of soundings in the Sabine Bank area. Data for the period October 1-7, 1964 will be sent on as soon as possible.

Observations at Galveston Pleasure Pier should be corrected as follows for Sabine Bank: Subtract 1/2 hour from times of high and low waters, apply factor of 1.2 Tt. to range of tide.

William D. Barbee

Enclosures

POPER D (2) (1)-62-(PHEE MY A U 200-10) UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

# Memorandum

ΤÓ

Commanding Officer
USC&GS Ship HYDROGRAPHER

DATE: December 7, 1964

In reply refer to: WSC-210

FROM

: Chief, Operations Division

SUBJECT: Revised Instructions for Logging the Corrector Tape

Reference: Chief, Operations Division memo dated July 8, 1964

Effective immediately, velocity corrections shall be logged onto a separate tape, called the Velocity Tape, in lieu of logging these corrections onto the corrector tape. On the corrector tape, 000 shall be entered in the 3-diget space provided for the velocity correction. This change will greatly reduce the length of the corrector tape, as noticed in the following example, which utilizes the same correctors and changes, except for the velocity corrections, that were used in the example on page 3 of previous instructions, dated July 8, 1964:

### Corrector Tape Printout

cator	*	s ERa	nydist	ī	Sound	ina
ibu	Pos. Da	\_	rrecti	ons		ctions
Time 🔑 🛱 Dep	oth No. No		$R_1$	$R_2$	Tide	Trans. Vel.
083000 00 02	77. 0001 26	59 T T	001,20	000100	1032	032 000
083200 00 02	14.			•	•	•
0835 <b>00 00 15</b>	4.0					
083530 01 13	85		•			
083800 00 01	83.					
083920 01 01	99.			•		
084100 00 01	57, 0003 -26	9 1 1	.00120	000100	1034	032 000
084130 01 15	90			•	•	•
084400 00 09	65					• .
084500 00 08	30		**			1
085000 00 04	70 0005 26	9 1 1	.001,10	000100	1034	032 000

In making the Velocity Tape, all entries will consist of short words. The example shown on the following page illustrates the format to be used.



Depth	Range	Velocity Correction	Velocity Tape Format
0 t		≠ 0.1 Fms	00005,0 00 0001
5.1	7.0	0,2	000070 00 0002
7.1	9.0	0.3	000090 00 0003
9.1	11.0	0.4	000110 00 0004
11.1	13.0	0.5	000130 00 0005
13.1	16.0	0.6	000160 00 0006
16.1	20.0	0.8	000200 00 0008
20.1	24.0	1.0	000240 00 0010
24.1	28.0	1.2	000280 00 0012
28.1	32.0	1.4	000320 00 0014

In preparation for smooth sheet plotting, the computer will apply the velocity corrections to all soundings in relation to depth. If more than one set of velocity corrections are used on the same hydrographic sheet, a separate Velocity Tape shall be prepared for each set of corrections. The area covered by each set of corrections shall be described in the Descriptive Report, and in the Report on Corrections to Echo Soundings.

Due to the heavy backlog of marine data to be verified in the Washington Office at this time, the velocity correction data recently received from the Ship HYDROGRAPHER are being returned unverified. This data, along with other velocity correction data computed and checked during the 1964 season, shall be logged onto Velocity Tapes, and then forwarded with other pertinent hydrographic data to the Seattle Regional Office for smooth sheet plotting. The verification of velocity corrections will be done at Seattle as required.

Tide corrections shall be submitted on Form C&GS-8502 to the C&GS Rockville, Md. office for verification before the corrector tapes are made.

Horace G. Conerly

cc: 211 Seattle R.O. 35 C-835 DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-40-2-64) - H-8796 USC&GS SHIP HYDROGRAPHER - 1964 - cont'd.

#### VELOCITY CORRECTIONS

(SHIP)

During the periods July 17 to August 6 and September 9 to September 24 use TABLE I. 199 219 253

During the period August 11 to September 3, use TABLE II.

During the period October  $\frac{8}{2}$  to October  $\frac{18}{2}$ , use TABLE III.

All depths and corrections are in FEET.

TABI		TABLE		TABL	
25 3  Depth  12.0 - 13.0  15.0  17.0  19.0  21.0  23.0  25.0  27.0  29.0  31.0  33.0  35.0		Depth  12.0 - 13.0 14.8 16.6 18.4 20.3 22.1 23.9 25.7 27.5 29.4 31.2 33.0	2:17  Correction  0.0  + 0.1  + 0.2  + 0.3  + 0.4  + 0.5  + 0.6  + 0.7  + 0.8  + 0.9  + 1.0  + 1.1	TABLE 787 Depth 12.0 - 13.0 15.4 17.8 20.2 22.6 25.0 27.4 29.8 32.2 34.6 37.0 39.4	E III  292  Correction  0.0  + 0.1  + 0.2  + 0.3  + 0.4  + 0.5  + 0.6  + 0.7  + 0.8  + 0.9  + 1.0  + 1.1
37.0 39.0 41.0 43.0 45.0	+ 1.2 + 1.3 + 1.4 + 1.5 + 1.6	34.8 36.6 38.5 40.3 42.1	+ 1.2 + 1.3 + 1.4 + 1.5 + 1.6	41.8 44.2 46.6	+ 1.2 + 1.3 + 1.4

#### VELOCITY CORRECTIONS

(LAUNCH HY-1)

### ABSTRACT OF BAR CHECKS

September 2	<u>A</u>	25% - 2 September 10 - 5	sq s september 14 🗯 🗓
Depth	Correction	Depth	Correction
5.0 to 5.7 5.8 to 7.2 7.3 to 8.7 8.8 to 11.8 11.9 to 16.5 16.6 to 21.4 21.5 to 26.2 26.3 to 30.5 30.6 to 35.5 35.6 to 40.0	0.0 + 0.2 + 0.4 + 0.6 + 0.8 + 1.0 + 1.2 + 1.4 + 1.6 + 1.8	5.0 to 6.2 6.3 to 8.4 8.5 to 11.2 11.3 to 14.3 14.4 to 19.3 19.4 to 22.2 22.3 to 26.2 26.3 to 31.5 31.6 to 36.5 36.6 to 40.0	0.0 + 0.2 + 0.4 + 0.6 + 0.8 + 1.0 + 1.2 + 1.4 + 1.6 + 1.8
September 21 - Sep	274 otember 30	281 - 294 October 7 - Octo	==
Depth	Correction	Depth	Correction
4.9 to 6.4 6.5 to 7.9 8.0 to 9.5 9.6 to 14.3 14.4 to 20.7 20.8 to 27.2 27.3 to 32.0 32.1 to 38.5 38.6 to 44.0	0.0 + 0.2 + 0.4 + 0.6 + 0.8 + 1.0 + 1.2 + 1.4 + 1.6	5.0 to 6.2 6.3 to 8.4 8.5 to 11.8 11.9 to 19.3 19.4 to 29.0 29.1 to 40.0	0.0 + 0.2 + 0.4 + 0.6 + 0.8 + 1.0

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

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for Tides Branch

Tide Station Used (NOAA Form 77-12): Sabine Bank Lighthouse,

Texas & Louisiana

Period: July 16 - Sept. 16, 1974

HYDROGRAPHIC SHEET: H-8796

OPR: 427

Locality: Coast of Texas near Sabine Bank

Plane of reference (mean lower low water): 5.9 ft.

Height of Mean High Water above Plane of Reference is 2.6 ft.

Remarks: In accordance with Chief, Marine Data Division letter 2321-307-982h dated November 13, 1963 (copy attached) boat sheet soundings were plotted using a reference:

MLW = 4.9 feet on the gage . When the MLW value was redetermined to be 5.9 feet on the gage (Chief, Marine Data Division letter 2321-212-CSS 4 dated September 28, 1964 - copy attached) subsequent soundings were plotted using the first reference for purposes of continuity.

Chief, Tides Branch

#### APPROVAL SHEET

Field No. HY-40-2-64

Registry No. H-8796

The field work accomplished on this survey was under my immediate supervision. Daily inspections of the boat sheet, DATEX printout records and fathograms were made as the survey progressed.

On the basis of the boatsheet review, the survey is complete and adequate, and no additional field work is recommended.

V. Ralph Sobieralski, CDR, USC&GS

Commanding Officer

USC&GS Ship HYDROGRAPHER

FORM 197 (3-16-55)

GEOGRAPHIC NAMES

| Japan | Japa

GEOGRAPHIC NAMES			415	'A Shor	"/		, / ,	M'S	AL.	§ /
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SJOINE BJNK		<u> </u>	-		<u> </u>	<del> </del>			<u> </u>	5
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FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

#### U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

# HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. 8796

RECORD DESCRIPTION AMO		NUNT RECORD DESCR			RIPTION		AMOUNT		
SMOOTH SHEET			1		BOAT S	HEETS			1
DESCRIPTIVE RE	PORT		1		OVERL	AYS			1
DESCRIPTION	DEPTH RECORDS	HORIZ. C		PRINT	routs	TAPE ROLLS	PUNCHE	D CARDS	ABSTRACTS SOURCE DOCUMENTS
ENVELOPES	· · •								
CAHIERS	3			3					1
OLUMES	<b>1</b> 5								
OXES									· · · · · · · · · · · · · · · · · · ·
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				AMOUNTS					
PRO	OCESSING ACTIV	ITY		PRE- VERIFICATION		VERIFICATION	REVIÉW		TQTALS
POSITIONS ON SHEET									
POSITIONS (	CHECKED						20		
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DEPTH SOUNDING	SS REVISED				······································				
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SIGNALS ERRONE	OUSLY PLOTTED	ORTRANSF	ERRED						
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TOPOGRAPI	HC DETAILS						15	5 T	r
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VERIFICAT GRAPHIC RI	ON OF SOUNDINGS	FROM				No time	30		
SPECIAL AD	JUSTMENTS					Estimated	1		
ALL OTHER	WORK			Estimated Dew 103.		<del></del>			
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lass Fannie					U				,1975

Reg.	No.	8796
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The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey the following shall be completed:

## CARDS CORRECTED

DATE	TIME	REQ'I	)	INITIALS	3
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REMARKS

# H-8796 (1964) Items for Future Pre-Survey Review

The bottom is considered adequately developed on the present survey. A general shoaling of 1 to 2 feet has taken place throughout the survey area. However, west of the Calcasieu Pass Channel to Holly Beach a shoaling of as much as 7 feet has occurred.

Position	n Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
292	0932	4	. 6	25 Years
293	0932	4	6	25 Years
294	0932	4	6	25 Years
293	0933	4	5	25 Years
294	0933	5	6	10 Years
293	0934	4	5	25 Years
294	0934	4	5	25 Years
293	0935	4	4	25 Years
294	0935	4	4	25 Years

#### OFFICE OF MARINE SURVEYS AND MAPS

#### MARINE CHART DIVISION

#### HYDROGRAPHIC SURVEY REVIEW

REGIS	TRY	NO.	н-8796	

FIELD NO. HY-40-2-64

Louisiana, Gulf of Mexico, Vicinity of Calcasieu Pass

SURVEYED: August 28 through October 20, 1964

PROJECT NO.: OPR-427 SCALE: 1:40,000

SOUNDINGS: DE-723 Depth Recorders CONTROL: Sextant Fixes on

Shore Signals

Electronic-Raydist

Chief of Party V. R. Sobieralski	
Surveyed by J. P. Randall	
J. H. Allred	
S. J. Ruden	
····· W. R. Klesse	
N. A. Barnes, Jr.	
W. Y. S. Williams	
J. T. Smith	
M. A. Levitan	
Automated Plot by Gerber Digital Plotter (Pl	MC)
Verified and Inked by R. D. Lynn	
Reviewed by S. Baumgardner	
Date: Jan. 8, 1975	
Inspected by F. B. Powers	

#### 1. Description of the Area

This survey, located off the Louisiana coast, extends offshore for a distance of approximately 10 miles and includes Calcasieu Pass Channel, a small portion of Sabine Pass Channel and the outer limits of the Sabine Bank shoal.

The bottom slopes very gradually from the shoreline to maximum depths of 44 feet except for the southwest portion where the outer limits of the Sabine Bank shoal lie. In this area least depths are 25 feet.

The predominant bottom characteristics are mud, sand and shells.

#### 2. Control and Shoreline

The source of control is adequately described in Part F of the Descriptive Report.

The shoreline originates with incomplete photogrammetric manuscripts RS-808, RS-809, RS-810, and RS-811 based on 1963 photography and RS-807 based on 1963 photography and field edited in 1964.

#### Hydrography

Depths at crossings are in good agreement. The usual depth curves were adequately delineated. Supplemental curves were added to emphasize certain bottom features. The development of the bottom configuration and the investigation of least depths are considered adequate.

#### 4. Condition of the Survey

The sounding records, smooth plotting, various sounding printouts and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, supplemented by the Instruction Manual-Automated Hydrographic Survey except as listed below:

- A. Numerous detached positions were not given position numbers nor were times entered in the volumes as required by the Hydrographic Manual.
- B. A plus four tenths TRA corrector was disregarded for the ships work on Julian day 257 and positions 1129 to 1181, on Julian day 258. This corrector was applied by the reviewer only where the depth curves were effected.

#### 5. Junctions

An adequate junction was effected with H-8767 (1962) on the southwest and H-8738 (1962-63) on the southeast. The

junction with H-8795 (1964) on the west is discussed in the review of that survey. No contemporary survey junctions with the present survey on the east. However, present depths are in good agreement with charted depths.

#### 6. Comparison with Prior Surveys

A. H-1596a (1884) 1:80,000 H-1645 (1885) 1:80,000 H-1648 (1885) 1:20,000 H-1350 (1875-77) 1:600,000 H-487 (1855) 1:20,000

These prior surveys cover the area common to the present survey. A portion of H-1645 and H-487 has been compared with and is superseded by H-5334 discussed below. The sparcity of soundings on these prior surveys preclude a detailed comparison with the present survey; however, the present depths are generally 1-2 feet shoaler than prior depths in some areas.

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

#### B. H-3669 (1914) 1:20,000

This prior survey covers a small portion of the southeast corner of the present survey approaching the Sabine Bank shoal. A detailed comparison between the prior and present surveys reveals a shoaling of as much as 4 feet.

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

C. H-4332 (1922-23) 1:40,000 H-4372 (1924) 1:40,000 H-4364 (1924) 1:40,000 H-5334 (1933) 1:10,000 H-4365 (1923) 1:40,000

These surveys cover the area common to the present survey. A portion of H-4365 has been compared with and is superseded by H-5334. A detailed comparison between the prior and present surveys reveals a minor shoaling of approximately 1 to 2 feet. However, the area west of the Calcasieu Pass Channel to Holly Beach has shoaled as much as 7 feet since 1922.

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

### D. <u>F.E. No. 1 (1966) W.D.</u>

Effective depths from this wire-drag investigation do not conflict with depths on the present survey.

The 20-ft. cleared depth in lat. 29°42.69', long. 93° 19.38' was erroneously charted from F.E. No. 1, 1966 and 21 should be deleted from the chart.

The 16-ft. obstruction and 31 ft. depth in lat. 29°44.35', long. 93°15.80' and lat. 29°36.15', long. 93°17.80' were brought forward from the above wire-drag investigation.

7. Comparison with Chart 11344 (latest print date Sept. 7, 1974)
1279 (latest print date May 4, 1974)
11347 (latest print date June 15, 1974)

#### A. Hydrography

The charted hydrography originates with the partial application of depths from the boat sheet and verified smooth sheet of the present survey, supplemented by F.E. No. 1, 1966 and subsequent Corps of Engineers surveys. Only minor differences were noted between charted depths and present survey depths.

Attention is directed to the following items:

- (1) Items indicated on BP 90601-02, by the reviewer were charted subsequent to the date of the present survey. They supersede the present survey information, and should be retained on the chart.
- (2) The prior items listed below were neither verified nor disproven by the present survey and should be retained as charted.

  Chart 1347

Item			Lat.	Long.	Source
<b>#</b> ,403	(a)	Submerged wreck	29°28.42'	93°16.83'	Wreck List
	(b)	Visible Wreck PA	29°45.14'	93°22.68'	NM 21/63

Chart 1279			
(c) Oil Platform	29°40.34'	93°36.28'	BP60192 (60)
(d) Oil Platform	29°40.20'	93°36.52'	BP60192 (60)
(e) Pier ruins	29°45.10'	93°37.49'	CL: 333/55
# 426 (f) Visible Wreck PA	29 • 44 . 92 !	93°35.99'	NM 40/54
# 428 (g) Submerged wreck PA	29°45.80	93°26.20'	NM 36/56
(h) Oil Platform	29°41.00'	93°37.27'	CL 46/60
(i) Oil Platform	29°40.12'	93°44.18'	NM 52/63

- (3) Two oil platforms located in lat. 29°37.91', long. 93°22.72' and lat. 29°37.93', long. 93°22.91' were erroneously plotted from chart 651-SC Aid Proof No. 7 and should be deleted from the chart.
- (4) A survey marker located on the present survey in lat. 29°42.59', long. 93°20.02' is not presently charted.
- (5) The <u>vicinity of the reported shoal depths</u> listed below was investigated adequately to discredit the shoaling and the reported shoals should be deleted from the chart. It is probable that inaccuracy in the reported depths resulted from excessive settlement and squat.

Reported Depth (ft.)		Lat.	Long.	Charted From
34	. •	29°31'	93°16'	CL 426 (1958)
35		29°3216'	93°20.7'	NM 29/1960
35		29°32.2'	93°24.32'	CL 947 (1964)
35		29°33.1'	93°29.50'	CL 947 (1964)

Except as noted above the present survey is adequate to supersede the charted information within the common area.

### B. Controlling Depths

The charted controlling depth tables for Sabine Bank Channel and Calcasieu Pass Channel originate with subsequent Corps of Engineers information and should be retained on the chart.

## C. Aids to Navigation

The aids to navigation have been established subsequent to the date of the present survey. The aids presently charted adequately mark the features intended.

## 8. Compliance with Instructions

This survey adequately complies with the Project Instructions.

## 9. Additional Field Work

This is a good basic survey and no additional field work is recommended.

Examined and Approved:

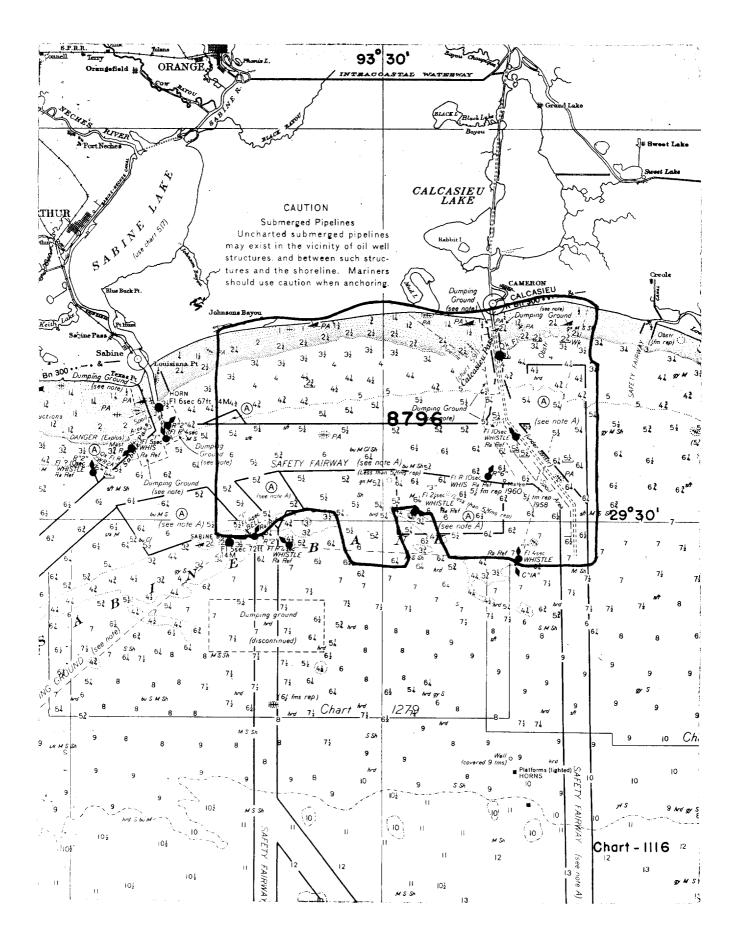
Chief

Marine Chart Division

RX Houle

Associate Director

Office of Marine Surveys and Maps



#### NAUTICAL CHART DIVISION

#### **RECORD OF APPLICATION TO CHARTS**

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

Letter all information.
 In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

	T	T	recommendations made under "Comparison with Charts" in the Review.
CHART	DATE	CARTOGRAPHER	REMARKS
591	2 27.67	En Methoging	Part Before Verification Review Inspection Signed Via
		0 1	Drawing No. add & Suday Suday on elit yeuros
	<u> </u>		stoods they new Survey.)
1116	4/11/67	Helmer	Part Before After Lion Review Inspection Signed Via
			Drawing No. Exam thru 59/ Dag 14a. Alded OPIle 93023'
			Hold further application until applied to 651-50
1279	5/22/67	H. Quenty	Part Before And Veriffention Review Inspection Signed Via
			Drawing No. less area covered by 651-5c
651-SC	10/27/67	Alwer	Part Before Review Inspection Signed Via
	12000	7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Drawing No. All sags recurves revised to show new hydrou
		<u> </u>	7
278	1/1/67	D. hundberg .	Part Before After Verification Review Inspection Signed Via
1134 -	7.7.	7. 10 11 11 11 11	Drawing No. All sdgs cornes revised to show new hydre thro
V-11/2			Pht 651-se and querlap.
1116	11/4/67	IN Howard	Before Atten Verification Review Inspection Signed Via
11345	11/4/67	14.V. HUV 410D	Drawing No. ALL sndgs & curves revised to show
1779	1-19/0	T1 11200	new hydro Shu Charts 1278 & 1279 \$ 6578e
1701	1-10-68	T.A. Wave	
()41			Prawing No. of Suc & Corner to show want hydro the cluby 1270 of Goy se (consider completed and)
1000	-1110		The close /278 & GS/ Se CAR VIRGINIA
1051 11345	5/14/68	TAure	Part Before After Varification Review Inspection Signed Via
11310			pylon thru the 1278. (complete till after some)
			buston thru the 1278. ( and the wife,
651- 11747-JU	2/16/79	JM Perkun	Pull Let After Verification Review Inspection Signed Via
11547-30			Drawing No./3
11344	10/17/89	Ed Mortine	Full <del>Part Before</del> After Verification Review Inspection Signed Via
			Drawing No. 97
11345	7-20-90	John Pierce	Fully applied; noturthercorrections, Dwg. 38; applithme has
11341	3-15-91	DAN BLACK	FULLY APP'D DWG #48 APP'D THRM 11347
-			
//330	1983		Full New Cht dig #1
11340	3-19'-91	DAN BLACK	FULLY APP'D DWG#72 APP'D THRU 11330
	10/16/91	DAN BLACK	FULLY APPID DWG 39 APPID THAN 11344
		DES ALL EDITIONS OF FO	RM CaGS-975 USCOMM-DC 8558-P63