

9050

140 ch 57

Diag. Cht. No. 1282-2 & 1283.

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. 718-20-2-69
Office No. H-9050

LOCALITY

State TEXAS
General Locality GALVESTON ISLAND
Locality SAN LUIS PASS

1969

CHIEF OF PARTY
Mark E. Harbert

LIBRARY & ARCHIVES

DATE 6/12/75

411 NC, 3E

9050

HYDROGRAPHIC TITLE SHEET

H-9050

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.

HFP 742-20-2-69

State Texas

General locality Galveston Island

Locality San Luis Pass

Scale 1:20,000 Date of survey July 17- August 21, 1969

Instructions dated 24 June 1969 Project No. OPR-428

Vessel Skiff 570

Chief of party Mark E. Harbert

Surveyed by Lewis, Piner, Gilden, George and Campton

Soundings taken by echo sounder, hand lead, pole _____

Graphic record scaled by Party Personnel

Graphic record checked by Party Personnel

Protracted by ETC Automated plot by Calcomp plotter No. 618 (AMC)

Soundings penciled by up

Soundings in XXXXX feet at MLW XXX

REMARKS: _____

*Applied to stds 7/11/75
CAB*

DESCRIPTIVE REPORT

TO ACCOMPANY

Hydrographic Survey H-9050 (742-20-2-69)

Project OPR-428

SCALE: 1:20,000

Hydrographic Field Party 742

CHIEF OF PARTY:

LT Mark E. Harbert

SURVEYED BY:

Robert A. Lewis
Walter H. Piner
Floyd R. Gilden
Virgil George
John P. Campton

* * * * *

A. Project

Work on Project OPR-428 Galveston Bay, Texas was done in accordance with Instructions dated 24 June 1969. See letter from Director, Atlantic Marine Center, 14 August 1969 authorizing deletion of hydrography in Chocolate Bayou Channel as outlined in paragraph 2 of OPR-428 Project Instructions.

B. Survey Limits and Dates

This survey is in the vicinity of San Luis Pass at the southwestern tip of Galveston Island, Texas. Survey limits extend from lat. $29^{\circ} 01.5'$ to lat. $29^{\circ} 08'$; long. $95^{\circ} 03.5'$ to long. $95^{\circ} 10'$.

This survey makes junction with contemporary survey H-8873 (HFP 20-2-65) on the north

C. Sounding Vessels

Skiff 570, a 17-foot Boston Whaler, was equipped with a fathometer and ^{was} used for the majority of the survey. Two privately owned craft designated skiffs 57 and 5 were used for the shallow water work. Skiff 57 was a 14-foot aluminum dinghy and skiff 5 a 12-foot fiberglass canoe.

<u>ID</u>	<u>Vessel</u>	<u>Identifying Color</u>
1721	Skiff 570 vol. 1-7, pos. 1-1773	blue
1722	Skiff 57 vol. 8 pos. 3000-3176	red
1723	Skiff 5 vol. 9 pos. 5000-5056	violet

D. Sounding Equipment

Raytheon Fathometer Model DE-723 serial nos. 1889 & 806 were used on skiff 570.

Corrections to be applied to echo soundings were determined from daily bar checks. An abstract of these corrections is tabulated in Appendix "B" of this report.

A sounding pole was used to obtain soundings on both skiff 57 and 5.

No unusual difficulties were encountered with the sounding equipment.

E. Smooth Sheet

The smooth sheet will be plotted by AMC.

F. Control

Horizontal control was obtained by standard visual three-point sextant fix methods. Appendix "A" of this report contains a complete list of control used and its quality and source. Skiff 570 was piloted from a Raydist Station established at signal 022.

G. Shoreline

Shoreline detail was taken from Manuscripts T-10794, and T-10795, T-10790(1) and T-10791(1)

The shoreline in the immediate vicinity of San Luis on Follets I. Pass shows considerable change as indicated on the boat-south of 29°04.6' sheet in red. Special attention should be given to this area by the smooth plotter before he inks shoreline on the smooth sheet.

H. Crosslines

Crosslines were run at approximately 10% of the regular system of lines. Good agreement was obtained at all crossings.

I. Junctions

(1965-66)

Depths at the junction with survey H-8873 (HFP 20-2-65) are in good agreement and depth curves can be adequately drawn.

J. Comparison with Prior Surveys

A comparison with Prior Survey No. 5488, 1933-1934, scale 1:10,000 and Survey No. 5489, 1933-1934, scale 1:20,000 indicates major changes have occurred in the immediate vicinity of San Luis Pass in depths less than 18 feet. The 30 foot curve shows no change while the 18 foot shows a slight change. Shoaling is evident by the offshore 6-foot curve which now extends completely across the Pass. It should be noted that the area awash at MLW on the prior survey

see
Review

at lat. $29^{\circ} 04.7'$; long. $95^{\circ} 06.8'$ is now covered with depths of 4 to 5 feet.

The prior survey was not complete enough in Cold Pass for a detailed comparison, however, the present survey does agree in most respects in as much as a 5 foot controlling depth still exists in the pass.

Following is a discussion of Pre-Survey Review Items:

- ✓ Item No. 1- The pile at lat. $29^{\circ} 06'30''$, long. $95^{\circ} 09'04''$ ~~from H-5488~~ was searched for using a ^{modified} chain drag. Remains ~~Concur~~ of the pile were not found and it is recommended this feature be deleted from the chart. (Vol. 7 pg. 34 & 35) *pas. 1727-1735*
- ✓ Item No. 2- The pile charted at lat. $29^{\circ} 06' 52''$, long. $95^{\circ} 08' 01''$ was located as an 8" dia. pile, bare 5 feet at MHW (Vol. 7 pg. 33) *pas. 1726*
- ✓ Item No. 3- The pile charted at lat. $29^{\circ} 06' 42''$, long. $95^{\circ} 07' 13''$ was not searched for because a 4" iron ^{carried} pipe, bare 8 feet at MHW was located ~~200~~ ²⁸⁰ meters NNE. (Vol. 7 pg. 33). It is recommended this pipe be charted. *pas. 1725*
- ✓ Item No. 4- The ruins charted at lat. $29^{\circ} 07' 37''$ long. $95^{\circ} 05' 32''$, were located as submerged piles protruding 1 foot above bottom. (Vol. 7 pg. 32) *see Review pas. 1716*
- ✓ Item No. 5- The pile charted at lat. $29^{\circ} 06' 29''$ long. $95^{\circ} 06' 46''$, was transferred incorrectly to the boat sheet, consequently the chain drag investigation failed to prove or disprove its existence. *Pile added at Review from T-10795 (Field Edit Apr. 1970)*
- ✓ Item No. 6- The pile at lat. $29^{\circ} 05' 27''$, long. $95^{\circ} 07' 45''$ ~~from H-5488~~ was searched for using a chain drag. Nothing ~~Concur~~ was found and it is recommend this feature be deleted from chart. (Vol. 7 pg. 35 & 36) *pas. 1736-1739*
Hydro. sta Pile

✓ The shell bank awash at MHW, from H-5489 at lat. $29^{\circ} 07.52'$, long. $95^{\circ} 05.72'$, was searched for visually and by ~~Concur~~ wading around in the vicinity. No indication of the shell bank was found, therefore, it is recommended this feature be deleted from the chart.

K. Comparison with Chart

A comparison with Chart 887-SC, 2nd Ed., Nov. 9, 1968 reveals the same general conclusions as those mentioned above, only items recommended for charting will be discussed. *The recommended items have been added to chart 887-SC*

K. Comparison with Chart Cont'd

<u>Item to be Charted</u>	<u>Position</u>	<u>Remarks</u>
✓ Pipe (not on T-10794) pipe on chart 887-SC	29° 06. 47' 95° 09. 33'	This was located as an iron pipe, bare 3' MLW. (3) Vol. 1 pg. 36 Pos # 102
Pipe (not on T-10791) Pipe on chart 887-SC	29° 07. 77' 95° 05. 46'	This was located as an 3" iron pipe, bare 0.6 (2) (1.6) feet MLW Vol. 1 pg. 65. pos. 208 Pos # 208
✓ Iron posts (not on T-10795) Iron posts on chart 887-SC	29° 04. 57' 95° 07. 38'	This was located and described as an obstruction, iron posts, bare 2 1/2 foot MLW. Vol. 4 pg. 70. Pos # 996 charted as subm, revise accordingly (2)
✓ Steel rod (not on T-10791) Iron rod on chart 887-SC slightly out of pos. - ink	29° 07. 59' 95° 05. 59'	This 5/8" steel rod, bare 2 feet MLW, Vol. 7 pg. 32. (2) Pos # 1715
Pile (on T-10795) pile on chart 887-SC	29° 06. 61' 95° 06. 32'	Located as an 8" pile, bare 3 1/2 feet MLW. Vol. 7 (2) pg. 36. Pos # 1740
✓ Obstr. (not on T-10794) subm. obstr. on chart 887-SC	29° 05. 43' 95° 09. 92'	This feature was located as a metal obstruction covered 1 foot MLW. Vol. 7 pg. 36. Pos # 1741
✓ Pipe (not on T-10794) pipe on chart 887-SC	29° 06. 08' 95° 09. 15'	This feature located and described as 2, 2" pipes, bare 2.5 feet MLW. Vol. 7 pg. 50. Pos # 1764 (2)
✓ Pile (not on T-10794, 10795) pile on chart 887-SC	29° 05. 99' 95° 07. 53'	Located as a pile bare 2 feet MLW. Vol. 8 pg. 43. (2) Pos # 3120

✓ L. Adequacy of Survey

This survey is complete and adequate to supersede prior surveys for charting purposes. see Review
 San Luis Pass was closed by breakers 90% of the time we were in the area. On days we were able to get outside efforts were concentrated on hydrography and, as a result, bottom samples were not taken offshore.

M. Aids to Navigation

There are no aids to navigation within the limits of this survey. Serious consideration should be given to establishing several aids to navigation in order to help the small boat operators navigate the waters from West Bay to the Gulf. It is virtually impossible to navigate these waters without running aground repeatedly. One (1) privately maintained day beacon "13" on Survey at $\phi 29^{\circ}06.60'$ $\lambda 95^{\circ}08.31'$

N. Statistics

<u>Vessel</u>	<u>Number of Positions</u>	<u>Naut. Mi. Sdg. line</u>
Skiff 570	1773	325.8
Skiff 57	177	20.0
Skiff 5	<u>41</u>	<u>8.3</u>
	1991	354.1

Total area surveyed: 16.0 sq. Miles

Bubbler gages were installed at San Luis Pass $\phi 29^{\circ}05.52'$ $\lambda 95^{\circ}06.75'$ Christ $\phi 29^{\circ}04.81'$ $\lambda 95^{\circ}10.29'$ mas Point and Alligator Point. See Appendix "C" TIDAL NOTE for information on these stations. $\phi 29^{\circ}10.00'$ $\lambda 95^{\circ}07.50'$

O. Miscellaneous

Settlement and squat tests were run on skiff 570 before beginning hydrography. Results of this test indicated no corrections need be applied. See volume 1 page 7, and fathogram for 198 day.

A modified chain sweep was utilized to search for submerged objects. This sweep consisted of two small trawl boards, identical to those used by shrimp trawlers as "try net" boards, with a 75 foot length of small chain (rod size 3/16") between them. The trawl boards were bridled and fowed in such a manner as to drag along the bottom.

Respectfully submitted,

Robert A. Lewis

Robert A. Lewis
Cartographer

APPENDIX A

List of Signals
to Accompany

Hydrographic Survey H-9050 (742-20-2-69)

001 243	T-10794 (tripod)
002 243	" (pole)
003 243	" Hydro (pole)
004 243	" (NW car. ho.)
005 243	" (NE car. ho.)
006 243	T-10795 (tower)
007 243	T-10795 & T-10794 (water tank)
008 Δ 139	Wreck, 1933-69 T-10794
009 243	T-10794 (pier)
010 243	T-10794 (NW car. ho.)
013 243	T-10794 ch4-Δ on T-10794, not on later Field Edit copy
not so 015 Δ 139	Mud Island South Base T-10794 (USE), 1906-69
016 243	T-10794 (NE car. stack)
017 243	Mud Island North Base (USE), 1906-69 T-10794
018	Fort Bayou (USE), 1906 not recovered-top. sta
019 243	T-10794 (Day ho. #13 - Piv. maint'd.)
021 Δ 139	Motto, 1933-69 Δ on T-10795
022 243	T-10795 T-10795 #13
023 243	" (pole)
024 243	" (pole)
025 243	" (pole)
026 243	" (pole)
027 243	" (tripod)
028 243	" (pole)
029 243	" (tree SE of two)
030 243	" (NE car. ho.)
031 243	" (" " ")
032 243	" (" " ")
035 243	" (NW car. shed)
037 243	T-10795 T-10790 (E. gab. ho.)
020 243	T-10795 (Pipe)

LIST OF SIGNALS FOR H-9050

001 ²⁴³	29	02	1333	095	09	0951	XXX
002 ²⁴³	29	02	1665	095	09	0632	XXX
003 ²⁴³	29	03	0335	095	09	0024	XXX
004	29	03	0808	095	08	1048	XXX
005	29	03	1472	095	08	0380	XXX
006	29	04	0390	095	07	0651	XXX
007	29	04	0912	095	07	0810	XXX
008 ¹³⁹	29	04	1318	095	07	1303	XXX
009	29	04	1500	095	08	0048	XXX
010	29	04	0086	095	08	0388	XXX
013 ^v	29	04	0857	095	08	1314	XXX
015 ¹³⁹	29	05	0101	095	08	0708	XXX
016	29	05	0992	095	08	1162	XXX
017	29	05	1637	095	09	0264	XXX
018	29	06	1292	095	09	1419	XXX
019	29	06	1128	095	08	0366	XXX
020	29	06	0124	095	06	1160	XXX
021 ¹³⁹	29	05	1365	095	06	1066	XXX
022	29	05	0946	095	06	1115	XXX
023	29	05	1534	095	06	0433	XXX
024	29	06	0070	095	05	1586	XXX
025	29	06	0479	095	05	1084	XXX
026	29	06	0874	095	05	0592	XXX
027	29	06	1300	095	05	0018	XXX
028	29	06	1624	095	04	1291	XXX
029	29	07	0328	095	05	0100	XXX
030	29	06	1258	095	06	0224	XXX
031	29	06	1126	095	06	0292	XXX
032	29	06	1054	095	06	0340	XXX
035	29	08	1702	095	06	0840	XXX
037	29	08	0266	095	09	0936	XXX
999	29	05	31250	095	06	43900	244

APPENDIX B

Corrections to Echo Soundings
 Hydrographic Survey H-9050 (742-20-2-69)

<u>Vessel</u>	<u>Days</u>	<u>Fath. No.</u>	<u>Depth in feet</u>	<u>Correction feet</u>
Skiff 570	198 & 199	DE.723 #1889	2.6 to 3.5	0.0
			3.6 " 4.5	+0.2
			4.6 " 5.5	+0.4
			5.6 " 6.0	+0.6
			6.1 " deeper	+0.8
Skiff 570	199 to 233	DE.723 #206	3.0 to 3.8	0.0
			3.9 to 5.2	+ 0.2
			5.3 to 7.5	+ 0.4
			7.6 to 12.0	+ 0.6
			12.1 to 16.9	+ 0.8
			17.0 to 20.4	+ 1.0
			20.5 to 24.0	+ 1.2
			24.1 to 26.6	+ 1.4
			26.7 to 28.6	+ 1.6
			28.7 to 30.0	+ 1.8
			30.1 to 31.1	+ 2.0
31.2 to 32.1	+ 2.2			
32.2 to 32.8	+ 2.4			
32.9 to Deeper	+ 2.6			

APPENDIX D

APPROVAL SHEET TO ACCOMPANY

Hydrographic Survey H-9050 (742-20-2-69)

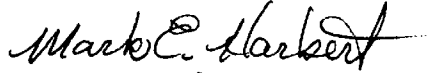
Project OPR-428

The field and office work was accomplished under my supervision. ✓

The hydrography and descriptive report was done by Lewis, Piner, Gilden, George and Campton.

The report and records for this survey are complete and adequate to the best of my knowledge.

Approved and forwarded,



Mark E. Harbert
Chief of Party

ATLANTIC MARINE CENTER
 VERIFICATION OF SMOOTH TIDES

SURVEY H- 9050

PLANE OF REFERENCE: MLW OR MLLW
 TIME MERIDIAN: 000
 HEIGHT DATUM ON STAFFS: 1. 2.2 2. 2.4 3. _____ 4. _____

TIDE STATIONS	POSITION	TYPE GAGE	TIME CORR.		HEIGHT CORR.*	
			H.W.	L.W.	H.W.	L.W.
1. San Luis Pass, Texas	ϕ 29°05. ⁵² ₄₉ ' λ 95°06.75'	Bubbler				
2. Galveston Pleasure Pier <i>off limits H-9050</i>	ϕ 29°17.2' λ 94°47.4'	Bubbler				
3.	ϕ λ					
4.	ϕ λ					

HOURLY HEIGHTS: FROM ROCKVILLE OFFICE
 FROM FIELD MARIGRAMS VERIFIED BY: _____

TIDE ZONING: NOT APPLICABLE
 BY COMPUTER
 FROM TWO OR MORE GAGES

LIMITS AND DESCRIPTION OF ZONING METHODS:

1. Inside West Bay - direct on San Luis Pass
2. Approximately 29°05' to Bird Island - Apply range ration 0.80 to Pleasure Pier gage.
3. Gulf of Mexico to entrance to San Luis Pass (29°07') - Direct on Pleasure Pier gage.

TIDE CORRECTIONS COMPELED: BY COMPUTER VERIFIED BY: R. Cram
 MANUALLY VERIFIED BY: _____

HEIGHT OF MHW ABOVE PLANE OF REFERENCE: 1.0, 2.1

TIDE CORRECTIONS VERIFIED ON SOUNDING PRINTOUT BY: R. Cram

DATE OF VERIFICATION: 17 October

*OR RATIO

EXAMINED AND APPROVED

ATLANTIC MARINE CENTER
PROJECTION PARAMETERS
POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

Project No. OPR-428 4. Requested By Verification Branch
Reg. No. H-9050 5. Ship or Office AMC
Field No. 742-20-2-69 6. Date Required _____

Polyconic Modified Transverse Mercator

Central Meridian of Projection 95 ° 07 ' 00 "

Survey Scale: 1: 20,000

Size of Sheet (check one):

36 x 54 36 x 60 Other Specify 36" x 42"

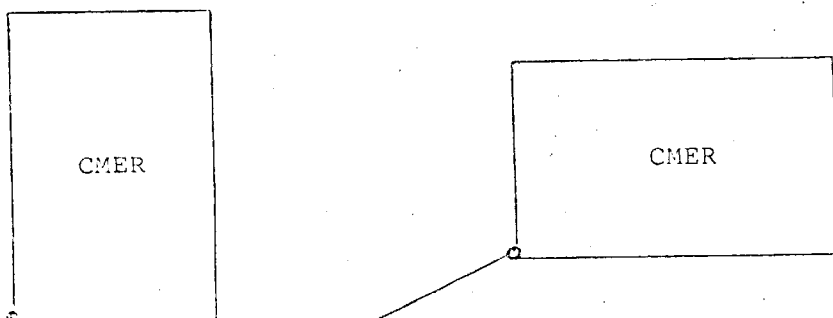
Sheet Orientation (check one):

NYX = 1

NYX = 0

N

N



Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)

Latitude 29 ° 00 ' 00 "

Longitude 95 ° 13 ' 00 "

G.P.'s of triangulation and/or signals attached

Material Desired: Tracing Paper Mylar

Smooth Sheet Other Specify _____

Remarks: _____

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H-9050
(742-20-2-69)

- A. All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/~~XXXXXX~~ been made. A new final sounding printout has/~~XXXXXX~~ been made.

Date: May 30, 1975

Signed: 
Guy F. Trefethen

Title: Chief, Verification Branch
(Acting)

- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report.

Date: May 30, 1975

Signed: 
Jeffrey G. Carlen, CDR., NOAA

Title: Chief, Processing Division

10/21/74

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 Form 362

Tide Station Used (NOAA Form 77-12): San Luis Pass $29^{\circ}05.52'N$ $95^{\circ}06.75'W$
Galveston Pleasure Pier
 ~~$29^{\circ}17.2'N$ $94^{\circ}47.4'W$~~

Period: July 17 - August, 1969

HYDROGRAPHIC SHEET: H9050

OPR: 428

Locality: Gulf of Mexico, Entrance to West Bay, Texas

Plane of reference (mean ~~lower~~ low water): 2.2 ft. (San Luis Pass)
2.4 ft. (Galveston Pleasure Pier)

Height of Mean High Water above Plane of Reference is
1.0 ft. West Bay
2.1 ft. Gulf Mexico

Remarks: Recommended Zoning

1. Approximately east of $95^{\circ}07.3$ Direct on San Luis Pass.
Inside West Bay
2. ~~North of $29^{\circ}07'$ to approximately~~ Apply 0.8 range ratio
~~Bird Island to Bird Island~~ to Pleasure Pier.
3. Gulf of Mexico north to Direct on Pleasure Pier.
approximately $29^{\circ}07'$

J. R. Hildbrand
Chief, Tides Branch

APPENDIX C

Tidal Notes

Hydrographic Survey H-9050 (HFP 742-20-2-69)

Gage Location: San Luis Pass Galveston Bay, Texas
Lat. $29^{\circ}05.49'52''$
Long. $95^{\circ}06.75'$

Gage Type: Bubbler

Staff: Vitified scale, MLW on 1969, 2.2

Gage Location: Christmas Point, Galveston Bay, Texas
Lat. $29^{\circ}04.81'$ *not used*
Long. $95^{\circ}10.29'$

Staff: Vitrified scale, MLW on 1969, 2.1

Gage Location: Alligator Point, Galveston Bay, Texas
Lat. $29^{\circ}10.00'$ *not used*
Long. $95^{\circ}07.50'$

Staff: Vitrified scale, MLW on 1969, 1.4

Time Meridian: 90th meridian time was used at the stations.

Tide sta. used on H-9050 were San Luis Pass ^(above) and Galveston Pleasure Pier @ $29^{\circ}17.2'$ $94^{\circ}47.4'$

GEOGRAPHIC NAMES

HL-9050

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	RANDOMLY	U.S. LIGHT LIST			
BASTROP BAY ✓											1
BIRD ISLAND ✓											2
CHRISTMAS BAY ✓											3
CHRISTMAS POINT ✓											4
CHURCHILL BAYOU ✓											5
COLD PASS ✓											6
FOLLETS ISLAND ✓											7
GALVESTON ISLAND ✓											8
GULF OF MEXICO ✓											9
GUYTON CUT ✓											10
MOODYS ISLAND ✓											11
MUD ISLAND ✓											12
SAN LUIS ISLAND ✓											13
SAN LUIS PASS ✓											14
TITLUM TATLUM BAYOU ✓											15
WEST BAY ✓											16
WEST BEACH ✓											17
											18
											19
											20
											21
											22
											23
											24
											25

Approved

Chas. G. Huntington

Staff Geographer CS1K2

18 Nov 1975

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. H-9050
(742-20-2-69)

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET & 2-Overlays	1	BOAT SHEETS	1
DESCRIPTIVE REPORT	1	OVERLAYS	3

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
Accordion ENVELOPES	1		2			
CAHIERS	1 & P/O.		1			
VOLUMES	9					
BOXES			1			

T-SHEET PRINTS (List) T-10791, 10794, 10795 Y-10791, 10794 & 10795

SPECIAL REPORTS (List) Control and Photogrammetric Report and Data

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			TOTALS
	PRE-VERIFICATION	VERIFICATION	REVIEW	
POSITIONS ON SHEET				1991
POSITIONS CHECKED		190	✓	
POSITIONS REVISED		35	✓	
DEPTH SOUNDINGS REVISED		300	✓	
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0	0	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0	1	
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		24	20	
JUNCTIONS		0	7	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		40	10	
SPECIAL ADJUSTMENTS		-	0	
ALL OTHER WORK		273	90	
TOTALS		337	127	

PRE-VERIFICATION BY W.H. Guy, R.R. Hill, B.J. Stephenson	BEGINNING DATE 4-30-70	ENDING DATE 4-24-75
VERIFICATION BY B.J. Stephenson	BEGINNING DATE 5-19-75	ENDING DATE 5-22-75
REVIEW BY <i>J.T. Gallahan</i>	BEGINNING DATE 12-1-75	ENDING DATE 1-12-76

R.W. Derkazarian 1/20/76 3 hrs

Reg. No. _____

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'D _____ INITIALS _____

REMARKS:

Reg. No. H-9050

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

MAGNETIC TAPE CORRECTED

DATE 6/10/80 TIME REQ'D. _____ INITIALS JHE

REMARKS:

H-9050

Items for Future Presurvey Reviews

The area of this survey is of a highly changeable nature with the constant shifting of shoreline, low water areas, and natural channels.

<u>Position</u>	<u>Index</u>	<u>Bottom Change</u>	<u>Use</u>	<u>Resurvey</u>
<u>Lat.</u>	<u>Long.</u>	<u>Index</u>	<u>Index</u>	<u>Cycle (Years)</u>
290	0951	6	2	25

B. The standard depth curves were adequately delineated. The supplemental 3-foot curve was drawn to conform with charting practices.

C. The development of the bottom configuration is considered adequate.

3. Condition of the Survey

The sounding records, smooth plotting, Descriptive Report, and printouts are adequate and conform to the requirements of the Hydrographic Manual and the Instruction Manual - Automated Hydrographic Surveys except as follows:

A. The number of bottom samples taken were insufficient to satisfy the requirements of the Hydrographic Manual.

B. A landmark (tank) was not shown on the smooth sheet.

C. The hydrographer delineated a portion of the low water line in red-orange on the boat sheet (instead of the standard orange curve). This was misinterpreted as a high water line revision by the smooth plotter and was transferred to the smooth sheet. It was corrected at the time of review.

4. Junctions

An adequate junction was effected with survey H-8873 (1965-66) on the north in West Bay.

No contemporary surveys join the present survey on the south, east, and west; however, present survey depths are in harmony with those charted in that area.

5. Comparison with Prior Surveys

A.	H-5489	(1933-34)	1:20,000
	H-5521	(1934)	1:20,000
	H-6253	(1937)	1:40,000

These prior surveys taken together cover an area of the present survey not covered by H-5488 (1933-35) which is discussed below. The depths in the center portions of West Bay have changed little; however, considerable shoaling has taken place in Titlum Tatlum Bayou and in the connecting channel between Bastrop Bay and West Bay.

The configuration of Galveston Island north of latitude 29°06' on the West Bay side has changed from a smooth shoreline to one with many indentations and numerous offshore islets.

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

B. H-5488 (1933-34) 1:10,000

This prior survey covers the greater portion of the present survey. Major changes of both hydrographic and topographic nature have transpired. The following are some of the changes which have occurred:

(1) There is considerable change where the shoreline has retreated as much as 100 meters in the area southwest of San Luis Pass. Cold Pass no longer empties into the Gulf of Mexico.

(2) The shape of several offshore islands in West Bay has changed considerably.

(3) The areas adjacent to Bird Island have shoaled extensively.

(4) An area formerly awash at mean low water lying in the vicinity of the entrance to San Luis Pass is now covered to depths of 4 to 9 feet.

(5) The natural channel in San Luis Pass has shifted southwestward and has been accompanied by extensive shifting of the bottom in depths less than 18 feet. The controlling depth on the bar in San Luis Pass decreased from 9½ feet to 4 feet.

With the exception of the pipe (PSR item no. 3) at latitude 29°06.70', longitude 95°07.20' and some bottom characteristics carried forward, the present survey is adequate to supersede this prior survey within the common area.

6. Comparison with Charts 11322 (887-SC), latest print date
November 2, 1974
1283, latest print date December 15,
1973

A. Hydrography

The charted hydrography originates with the boat sheet information of the present survey (Bp 77294), contemporary junctional

survey H-8873 (1965-66), and the previously discussed prior surveys which require no further consideration. Attention is directed to the following:

(1) A chain drag investigation disproved the existence of the piles charted at latitude $29^{\circ}06.48'$, longitude $95^{\circ}09.08'$ and at latitude $29^{\circ}05.45'$, longitude $95^{\circ}07.75'$. It is recommended that these piles, which are presurvey review items, be deleted from the chart.

(2) The charted ruins and submerged piles at latitude $29^{\circ}07.60'$, longitude $95^{\circ}05.52'$ identify the same objects. It is recommended the ruins, originating from prior survey H-5489 (1933-34), (presurvey review item no. 4) be deleted from the chart.

(3) The obstruction bearing 1 foot at mean low water at latitude $29^{\circ}05.18'$, longitude $95^{\circ}06.91'$ on the present survey originates with T-10795 (1957-69). It is recommended that this obstruction, which is an auto body and falls just outside the low water line, be charted. LMM /76

B. Topography

(1) The mean high water line charted from latitude $29^{\circ}02.58'$, longitude $95^{\circ}09.70'$ to latitude $29^{\circ}04.53'$, longitude $95^{\circ}07.38'$ is in error. This mean low water line was mistakenly applied from the boat sheet (Bp 77294) as the mean high water line. This shoreline should be revised to agree with the present topographic manuscript.

(2) The islet charted in San Luis Pass in latitude $29^{\circ}05.15'$, longitude $95^{\circ}06.75'$ was compiled from the incomplete manuscript application to the boat sheet. The field edited topographic manuscript does not show the islet; therefore, it is to be considered nonexistent and should be removed from the charts.

Except as noted above, and with the additional information concerning charting in Paragraphs J and K in the Descriptive Report, the present survey is adequate to supersede the charted hydrography in the common area.

C. Aids to Navigation

There are no charted aids to navigation within the area of the present survey. The charted marker at latitude $29^{\circ}06.60'$, longitude $95^{\circ}08.31'$ originates with Chart Letter 1064 of 1969, is identified as daybeacon no. 13, and is privately maintained.

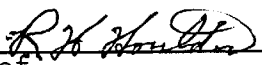
7. Compliance with Project Instructions

This survey adequately complies with Project Instructions.

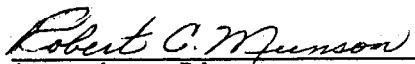
8. Additional Field Work

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

Examined and Approved:

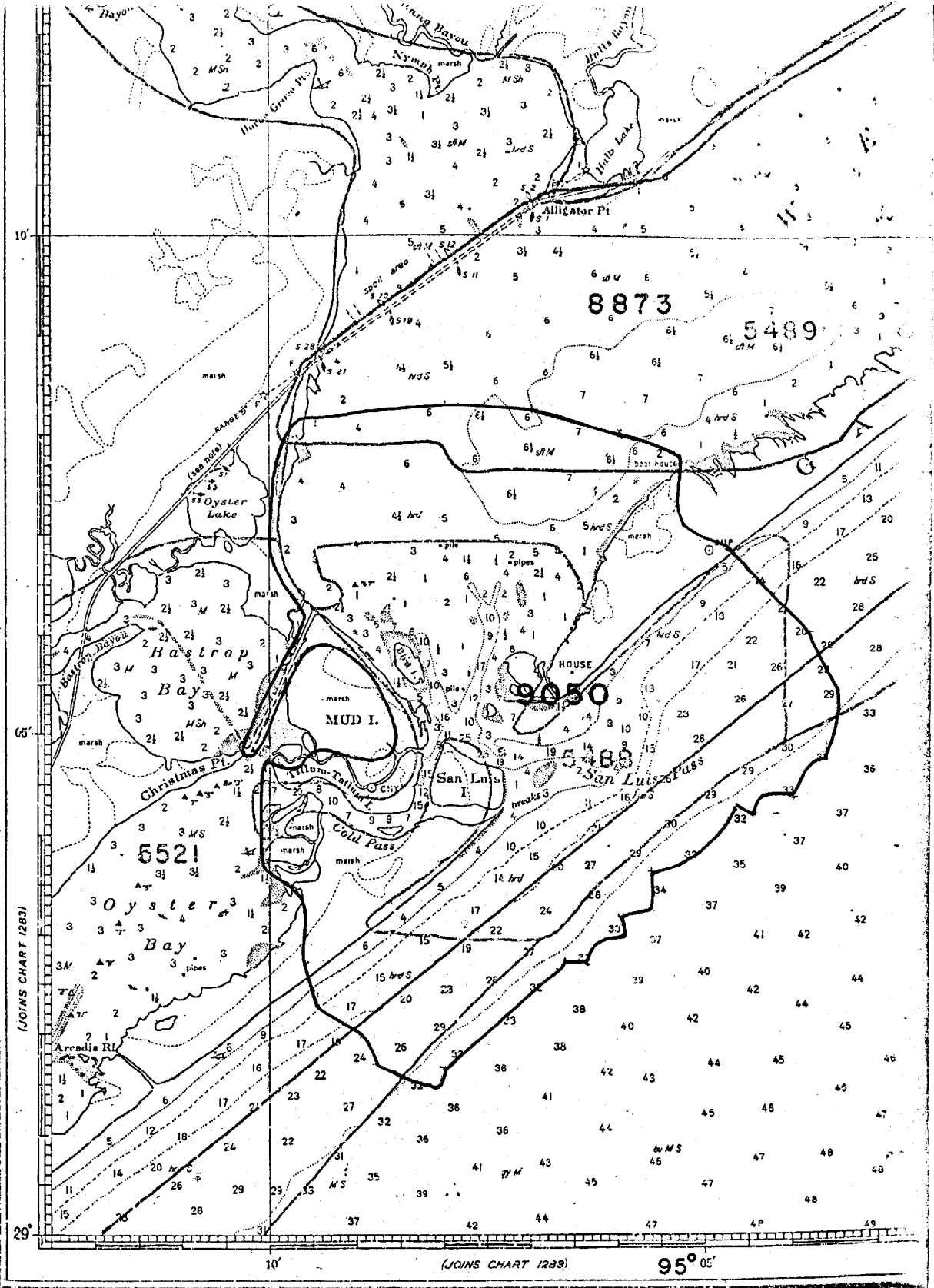


Chief
Marine Chart Division



Associate Director
Office of Marine Surveys
and Maps

1282



45-210, 46-219, 519, 1125, 47-1019

Chart -1282

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9050

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
887SC	9-1-76	J. DWYANG	Full Part Before After Verification Review Inspection Signed Via Drawing No. 10a FULLY APPLIED SOUNDINGS & CURVES, NEXT EDITION PULL T-SHEETS TO REVISE SHORELINE ACCORDING TO D.R.
1117	9-2-76	J. DWYANG	Full Part Before After Verification Review Inspection Signed Via Drawing No. 33 REVISED SOUNDINGS
1282	1-21-77	D. Wylie	Full Part Before After Verification Review Inspection Signed Via Drawing No. 56 (Applied thru 887 sc where applicable)
1283	9-21-78	D. Williams	Full Part Before After Verification Review Inspection Signed Via Drawing No. 26 (Appd thru 887-SC common area)
^{P.H.} 1130(1117)	1-25-80	D. Wylie	Full Part Before After Verification Review Inspection Signed Via Drawing No. 37
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.

Digitized 6-7-79

Header Cards 6-13-79