8970

Diag. Cht. No. 1268.

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. ... 742-10-1-68

Office No. ... H-8970

LOCALITY

State ... MISSISSIPPI

General Locality ... MISSISSIPPI SOUND

Locality ... PASS CHRISTIAN TO LONG BEACH

1968

CHIEF OF PARTY

ICDR. A. J. PATRICK

LIBRARY & ARCHIVES

DATE ... 9-27-74

☆U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098

8970

FORM C&GS-537
(8-15-59)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REGISTER NO.

H-8970

HYDROGRAPHIC TITLE SHEET

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.

742-10-1-68

State MISSISSIPPI

General locality MISSISSIPPI SOUND

Locality PASS CHRISTIAN TO LONG BEACH

Scale 1:10,000 Date of survey 3/7/68 - 4/23/68

Instructions dated 20 September 1966 & 12 October 1967 (Supp.) Project No. OPR-468

Vessel Hydrographic Field Party 742 (Launch CS-1177 & Skiff 758)

Chief of party LCDR Archibald J. Patrick

Surveyed by Bernie T. Davis

oundings taken by echo sounder, hand lead, pole

Graphic record scaled by Party Personnel

Graphic record checked by Party Personnel

Protracted by ~~CAL-COM AMC~~ Automated plot by No. 618 CAL-COMP-AMC

Soundings penciled by ~~CAL-COM-AMC~~

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~

REMARKS: This survey was logged by A.M.C. Personnel

[redacted]

applied to stds 11/4/74 ~~CAS~~

USCOMM-DC 19086-P65

DESCRIPTIVE REPORT

TO ACCOMPANY

Hydrographic Survey H-8970 (742-10-1-68)

Project OPR-468

SCALE: 1:10,000 Hydrographic Field Party 742

CHIEF OF PARTY: ARCHIBALD J. PATRICK, LCDR

SURVEYED BY: BERNIE T. DAVIS

* * * * * * * * * * * *

A. PROJECT

Work on Project OPR-468 was executed in accordance with Instructions dated 20 September 1966 and Supplemental Instructions dated 12 October 1967.

B. AREA SURVEYED

This survey is in the vicinity of Pass Christian, Mississippi and covers an area of Mississippi Sound from the mainland south to Lat. 30°17.5'N between Long. 89°08.00'W to 89°16.40'W.

This survey makes junction with contemporary survey H-8925 (1965) ~~(742-10-1-67)~~ on the northeast. ~~Surveys on the southeast, south, and west have not been started as of this date.~~ JUNCTIONS WITH H-9004(1968-69) ON SE, H-9028(1970-71) ON S, AND H-9177 (1970) '71 ON W

Work on this survey commenced on 7 March 1968 and was completed on 23 April 1968.

C. SOUNDING VESSELS

Soundings were obtained with Skiff 758 and Launch CS-1177. Launch CS-1177 used positions 1 through 1100 which are shown blue on the boat sheet. Skiff 758 used positions 2000 through 3089 which are shown red on the boat sheet.

D. SOUNDING EQUIPMENT

A Raytheon Fathometer, Type DE-723, Serial No. 535 was used to obtain soundings on Launch CS-1177 and Fathometer No. 927 was used on Skiff 758. 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.

No unusual difficulties were encountered with the sounding equipment.

A sounding pole was used to obtain soundings on Skiff 758 on the following positions: 2015 thru 2042, 2205 thru 2269, 2898 thru 2918, 2999 thru 3034, 3045 thru 3055, and 3063 thru 3089.

E. SMOOTH SHEET

The smooth sheet ~~will be~~ WAS plotted by Atlantic Marine Center, Norfolk, Virginia.

F. CONTROL

Horizonal control was obtained by standard visual three point sextant fix methods. APPENDIX "A" of this report contains a complete list of control used and the geodetic position of each.

G. SHORELINE

Shoreline details were taken from manuscripts T-11807, T-11808, and T-11809. There is one shoreline change within the limits of this survey. This change is due to construction in Long Beach Harbor (Lat. 30°20.60' - Long. 89°08.55'). This change is noted on the boat sheet in red.

H. CROSSLINES

Crosslines were run at approximately 8% of the regular system of sounding lines. Crosslines were in good agreement with the regular system of sounding lines.

I. JUNCTIONS

Depths at the junction with the survey listed in Section "B" of this report are in good agreement and depth curves can be adequately drawn at this junction.

J. COMPARISON WITH PRIOR SURVEYS

This survey was compared with Prior Surveys No. 4000, scale 1:40,000, dated 1917 and No. 3960, scale 1:40,000, dated 1918. In general the prior surveys show depths of 1 and 2 foot deeper in areas of ouer 6 feet. There are two harbors om this survey which are not shown on the prior surveys. These are Long Beach Harbor and Pass Christian Harbor.

There were two Pre-Survey Review Items within the limits of this survey. These were as follows:

(1) PSI #23 - Sunken wreck Lat. 30°19.00' - Long. 89°08.00'. This wreck was seached for by running a system of sounding lines. There was no indication of a wreck in this vicinity.

Pos 1037 to 1100 not automated or smooth plotted. These lines covered ~~de~~ search for this wreck.

(2) PSI #24 - Sunken Wreck Lat. 30°17.40' Long. 89°15.58'
There was no indication of any wreck seen on the fathograms in this area. The oyster stakes about 0.3 miles to the eastward of this location no longer exist. shown as submerged However there are several small stakes running along a east - west line in this general vicinity. These stakes are very small and of a temporary nature, for this reason they were not located during this survey.

K. COMPARISON WITH CHART

A comparison was made with Chart 876-SC, scale 1:40,000, Third Edition, dated November 1967.

The following is a list of changes found when compared with the chart:

Charted Feature	Position	Remarks
3 ft. shoal	30°~~18.00'~~ 17.75 89°~~14.90'~~ 15.10	The 3 ft. shoal located in this area has NOT decreased in size from that shown on the chart. ~~The only 3 ft. Soundings in this area now are two small 3 ft. shoals located at the following positions: Lat. 30°17.75' - Long. 89°15.00' and Lat. 30°18.24' Long. 89°14.87'.~~
6 ft. curve	30°18.35' 89°15.15' & 30°18.50' 89°14.25'	The charted 6 ft. curve in these areas follow the channel into Pass Christian Harbor. This survey shows the 6 ft. curve crossing the channel in these areas. ✓
Long Beach Harbor	30°20.60' 89°08.55'	This area has changed from what is charted due to construction. These changes are shown on the manuscript with some additional changes shown on the boat sheet. There is also a 4 ft. channel entrance not shown on the chart. ✓
13 ft. Sounding	30°18.04' 89°12.10'	This survey shows 11 ft. soundings in this area. In general all the charted soundings south of the 6 ft. curve are 1 and 2 ft. deeper than this survey shows. ✓

Charted Feature	Position	Remarks
Rock	30°18.67' 89°14.65'	This area was investigated during low water. There was no sign of any rock at this location. Recommend this rock be deleted from the chart. CONCUR Probably part of HWL of Marina

The deeper 5 to 10 foot soundings which run parallel to the row of piling, Approx. 400 meters south of the beach, are the results of fill dredging done to maintain the man made beach.

L. ADEQUACY OF SURVEY

This survey is considered adequate and accurate to supersede prior surveys for charting purposes.

M. AIDS TO NAVIGATION

There are 4 fixed aids and no floating aids to navigation within the limits of this survey. These aids are maintained by the U.S. Coast Guard. There is one privately maintained aid within the limits of this survey. This aid is maintained by Gulf Park College. These aids adequately serve the purpose for which they were established.

N**STATISTICS

VESSEL	NO. POSITIONS	NAUTICAL MILES
Launch CS-1177	1100	190.9
Skiff 758	1090	128.6
TOTAL	2190	329.5

Total area surveyed 17.4 square nautical miles.
49 Bottom samples

A portable bubbler tide gage located at Bay St. Louis, Mississippi furnished tide control for this survey. See APPENDIX "C", TIDAL NOTE, for additional information on this station.

Submitted by

Bernie T. Davis

Bernie T. Davis
Surveying Technician

APPENDIX "A"

LIST OF SIGNALS H-8970 (742-10-1-68)

	o	'	m	o	'	m	
001	30	18	7171.2	89	16	1140.7	FOP
002	30	18	167.3	89	16	646.4	HOD
003	30	18	313.7	89	16	169.2	NON
004	30	18	529.2	89	15	1329.5	NUL
005	30	18	749.6	89	15	701.8	STY
006	30	18	261.8	89	15	443.2	NIP
007	30	18	1134.0	89	14	1322.4	WAN
008	30	18	1266.2	89	14	883.8	MID
009	30	18	1459.2	89	14	282.1	HOW
010	30	18	1005.6	89	14	320.1	PAS TRIANGULATION STATION: PASS CHRISTIAN LIGHT #2, 1951-67
011	30	18	1600.0	89	13	1460.3	DUD
012	30	18	1725.6	89	13	1194.7	DUO
013	30	18	1838.0	89	13	885.3	HON
014	30	19	164.8	89	13	472.6	MET
015	30	19	345.6	89	13	78.0	PUP
016	30	19	475.6	89	12	1268.3	SOX
017	30	19	635.8	89	12	858.7	WAX
018	30	19	777.8	89	12	412.4	PIN
019	30	19	862.8	89	12	62.6	NOD
020	30	19	916.8	89	11	1314.0	HUT
021	30	19	1057.0	89	11	806.8	FRO
022	30	19	1153.6	89	11	594.4	GUY
023	30	19	1348.0	89	10	1384.2	FOE
024	30	19	1536.0	89	10	896.6	DIF
025	30	19	1768.2	89	10	411.6	GOB

APPENDIX "A" (cont)

	° '	m	° '	m	
026	30 20	102.8	89 10	48.0	LOW
027	30 20	316.8	89 09	1168.5	FIX
028	30 20	531.8	89 09	645.2	GOT
029	30 20	817.4	89 09	314.8	NIL
030	30 20	807.8	89 08	1425.9	PIX
031	30 20	963.0	89 08	1022.1	SLY
032	30 20	1812.4	89 08	306.8	SPI
033	30 21	378.4	89 08	157.2	ACK
034	30 20	1793.0	89 07	1023.0	CAM
035	30 20	527.2	89 10	340.4	VAN
036	30 19	1777.4	89 11	737.4	JOY
037	30 20	1203.8	89 08	507.2	HOP
038	30 20	1481.9	89 08	67.5	SKI
039	30 20	1655.7	89 07	1349.5	BEE
040	30 18	1671.3	89 14	1140.1	NOW

Triangulation Stations

041 30 18 1733.6 89 14 1426.3 PAL
PASS CHRISTIAN MUNICIPAL WATER TANK, 1958-67

042 30 18 796.3 89 15 24.5 LET
PASS CHRISTIAN CHANNEL WEST ENTRANCE LIGHT 2
(PASS CHRISTIAN LIGHT NO 1, 1951)-67

043 30 19 1053.0 89 13 27.0 ANK
PASS CHRISTIAN GREY CASTLE HOTEL TANK, 1930-67

APPENDIX "B"

Corrections to Echo Soundings

Table 1

Launch CS-1177 Fathometer, DE-723, #535 All days	Depth (Ft.)	Corr. (Ft.)
	3.1 to 9.3	-0.2
	9.4 to Deeper	0.0

Table 2

Skiff 759 Fathometer, DE-723, #927 All days		
	0.0 to 4.8	0.0
	4.9 to 9.7	+0.2
	9.8 to Deeper	+0.4

Table 3

Pole Soundings		
	0.0 to 20.0	0.0

Index Corrections:

On position 2269 (22) thru position 321	-0.2
On position 2890 (89) thru position 2891	-0.2 DRM ~~+0.2~~

APPENDIX "C"

TIDAL NOTE

GAGE LOCATION: Bay Waveland Yacht Club
Bay St. Louis, Mississippi
Lat. 30°19.50' - Long. 89°19.50'

GAGE TYPE: PORTABLE, PRESSURE BUBBLE GAGE

TIME MERIDIAN: 90th

This gage was installed on the 6th of March 1968 and at the time of this report MLW value on the staff was not available to this party. It should also be verified as to any time or height corrections. This information will have to come out of the Rockville Office along with the hourly heights for the period of this survey.

APPENDIX "D"

APPROVAL SHEET TO ACCOMPANY

Hydrographic Survey H-8970 (742-10-1-68)

Project OPR-468

The field and office work was accomplished under my supervision.

The hydrography and descriptive report ~~was~~ WERE done by Bernie T. Davis.

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

Approved and forwarded

Archibald J. Patrick
LCDR, USESSA
Chief of Party

PAGE 1 OF 1 SURVEY H- 8970 ATLANTIC MARINE CENTER.

YEARS 1968 VESSELS Lch. 1177 & Sk.H 758

VESSEL	POSITION NOS. FROM	POSITION NOS. TO	JULIAN DAY	CALENDAR DAY	LETTER DAY	REMARKS
Lch. 1177	0001	0176	067	3-7-68	—	
" "	0177	0321	068	3-8-68		
" "	0322	0392	075	3-15-68		
" "	0393	0574	078	3-18-68		
" "	0575	0727	079	3-19-68		
" "	0728	0810	081	3-21-68		
" "	0811	0975	085	3-25-68		
" "	0976	1100	088	3-28-68		
Sk.H 758	2000	2167	092	4-1-68		
" "	2168	2204	093	4-2-68		
" "	2205	2391	096	4-5-68		
" "	2392	2567	099	4-8-68		
" "	2568	2654	100	4-9-68		
" "	2655	2788	101	4-10-68		
" "	2789	2934	102	4-11-68		
" "	2935	2998	103	4-12-68		
" "	2999	3062	106	4-15-68		
" "	3063	3089	114	4-23-68		

COMP. BY HLO CHECKED BY ____

LIST OF SIGNALS

H-8970
742 10-1-68

001	30	18	0071	089	16	1139	FOP
002	30	18	0167	089	16	0647	HOD
003	30	18	0314	089	16	0169	NON
004	30	18	0528	089	15	1328	NUL
005	30	18	0749	089	15	0702	STY
006	30	18	0262	089	15	0443	NIP
007	30	18	1134	089	14	1323	WAN
008	30	18	1266	089	14	0885	MID
009	30	18	1459	089	14	0282	HOW
010	30	18	1008	089	14	0320	PAS
011	30	18	1600	089	13	1462	DUD
012	30	18	1727	089	13	1195	DUO
013	30	18	1838	089	13	0888	HON
014	30	19	0165	089	13	0474	MET
015	30	19	0347	089	13	0077	PUP
016	30	19	0478	089	12	1267	SOX
017	30	19	0637	089	12	0860	WAX
018	30	19	0778	089	12	0413	PIN
019	30	19	0864	089	12	0065	NOD
020	30	19	0918	089	11	1316	HUT
021	30	19	1056	089	11	0807	FRO
022	30	19	1155	089	11	0464	GUY
023	30	19	1346	089	10	1386	FOE
024	30	19	1536	089	10	0898	DIF
025	30	19	1771	089	10	0411	GOB
026	30	20	0103	089	10	0050	LOW
027	30	20	0315	089	09	1170	FIX
028	30	20	0533	089	09	0677	GOT
029	30	20	0818	089	09	0315	NIL
030	30	20	0806	089	08	1426	PIX
031	30	20	0963	089	08	1022	SLY
032	30	20	1812	089	08	0421	SPI
033	30	21	0378	089	08	0272	ACK
034	30	20	1793	089	07	1023	CAM
035	30	20	0528	089	10	0340	VAN
036	30	19	1778	089	11	0610	JOY
037	30	20	1203	089	08	0508	HOP
038	30	20	1480	089	08	0067	SKI
039	30	20	1655	089	07	1350	BEE
040	30	18	1672	089	14	1141	NOW
041	30	18	1734	089	14	1426	PAL
042	30	18	0796	089	15	0025	LET
043	30	19	1054	089	13	0028	ANK

VELOCITY CORRECTOR TAPE

P H-6970
742 10-1-68
1968 SEASON

```
000093 0 1002 0001 000 000000 000000
000200 0 0000
000048 0 0000 0002 000 000000 000000
000097 0 0002
000200 0 0004
000200 0 0000 0003 000 000000 000000
```

X TC/TI TAPE

H-8970
742 10-1-68
1968 SEASON
LCH CS-1177

091230 0 0000 0001 067 000000 000000
104230 0 0000 0001 068 000000 000000
115200 0 1002
130515 0 0000 0001 075 000000 000000
091600 0 0000 0001 078 000000 000000
091345 0 0000 0001 079 000000 000000
141000 0 0000 0003 079 000000 000000
103415 0 0000 0001 081 000000 000000
095745 0 0000 0001 085 000000 000000
093515 0 0000 0001 088 000000 000000
093515 0 0000 0001 089 000000 000000

TC/TI P

		TC/TI	Vel Table No.			
093200	0	0000	0002	092	75800	001968
101800	0	0000	0003	092	75800	001968
113015	0	0000	0002	092	75800	001968
101130	0	0000	0002	093	75800	001968
090500	0	0000	0003	096	75800	001968
112115	0	0000	0002	096	75800	001968
095245	0	0000	0002	099	75800	001968
103430	0	0000	0002	100	75800	001968
110000	0	0000	0003	100	75800	001968
114115	0	0000	0002	100	75800	001968
104100	0	0000	0002	101	75800	001968
113030	0	0000	0003	101	75800	001968
113300	0	0000	0002	101	75800	001968
100515	0	0000	0002	102	75800	001968
131415	0	-002	0002	102	75800	001968
133015	0	0000	0003	102	75800	001968
145530	0	0000	0002	102	75800	001968
094230	0	-002	0002	103	75800	001968
095500	0	0000	0002	103	75800	001968
101515	0	0000	0003	106	75800	001968
114030	0	0000	0002	106	75800	001968
125830	0	0000	0003	106	75800	001968
132315	0	0000	0002	106	75800	001968
093500	0	0000	0003	114	75800	001968
093500	0	0000	0003	115	75800	001968
093500	0	0000	0000	400	75800	001968
091230	0	0000	0001	067	117700	001968
104230	0	0000	0001	068	117700	001968
115200	0	-002	0001	068	117700	001968
130515	0	0000	0001	075	117700	001968
091600	0	0000	0001	078	117700	001968
091345	0	0000	0001	079	117700	001968
141000	0	0000	0003	079	117700	001968
103415	0	0000	0001	081	117700	001968
095745	0	0000	0001	085	117700	001968
093515	0	0000	0001	088	117700	001968
093515	0	0000	0001	089	117700	001968
093515	0	0000	0000	400	117700	001968

***** TAPEMARK *****

***** TAPEMARK *****

FORM # 1

FIG. 15

PARAMETERS FOR DIGITAL COMPUTING
POLYCONIC PROJECTION

(1) PROJECT NO. OPR-468
(2) H NO. 8970
(3) FIELD NO. 742-10-1-68
(4) REQUESTED BY AMC
(5) ~~SHIP~~ OR OFFICE HYDRO. PROCESSING
(6) DATE REQUIRED —
(7) VISUAL ☒
(8) ELECTRONIC ☐ (FILL OUT FORM #3)

(10) XKN (SP 5) DISTANCE FROM CMER TO EAST EDGE (NYX = 1) OR WEST EDGE (NYX = 0). 7855.8 METERS

(11) YKN (SP 241) DISTANCE FROM EQUATOR TO SOUTH EDGE OF SHEET. 3,350,817.572 METERS

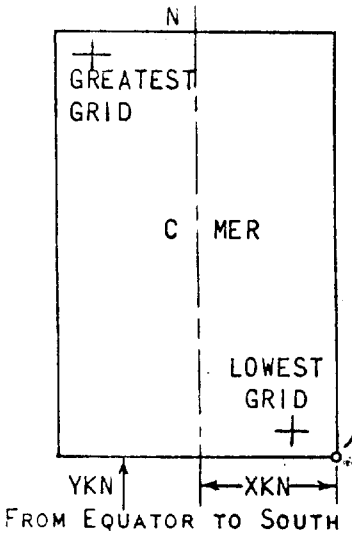
(12) CENTRAL MERIDIAN 89 ° 12 ' 00 "

(13) SURVEY SCALE 1: 10,000

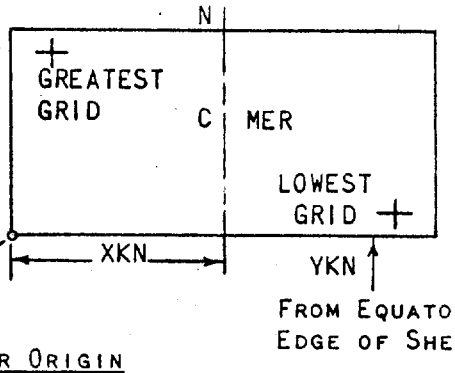
(14) SIZE OF SHEET (CHECK ONE) 36X54 ☐ 42X60 ☐ OTHER 36X60 ☒

(15) NYX, ORIENTATION OF SHEET (CHECK ONE)

NYX = 1 ☐



NYX = 0 ☒



(9) PLOTTER ORIGIN (CORNER OF SHEET)

LATITUDE 30 ° 16 ' 43 "
LONGITUDE 89 ° 16 ' 54 "

LIST G.P. OF ALL STATIONS TO BE PLOTTED ON THIS PROJECTION ON THE BACK OF THIS FORM. (DEG., MIN., SEC.)

GRID LIMITS

(16) GREATEST LATITUDE 30 ° 21 ' 30 "
(17) LOWEST LATITUDE 30 ° 17 ' 00 "
(18) DIFFERENCE ° 4 ' 30 "

(19) 0 ' 30 "
(20) 9 YSN

(21) GREATEST LONGITUDE 89 ° 16 ' 30 "
(22) LOWEST LONGITUDE 89 ° 07 ' 30 "
(23) DIFFERENCE ° 9 ' 00 "

(24) 0 ' 30"
(25) 18 XSN

(PROJECTION LINE INTERVAL, PAGE 4 HYDRO MANUAL)

Comp diam ✓ by WNF

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H-8970

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/~~has not~~ been made. A new final sounding printout has/~~has not~~ been made.

Date: Sept.16,1974

Signed: William L Jonns

William L.Jonns

Title: Chief, Verification Branch

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: Sept.16,1974

Signed: C Dale North

C.Dale North,Jr.LCDR,NOAA

Title: Chief, Processing Division

4/29/74

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 For 362

Tide Station Used (NOAA Form 77-12): Bay St. Louis

Period: March 7 - April 23, 1968

HYDROGRAPHIC SHEET: H8970

OPR: 468

Locality: Bay St. Louis

Plane of reference (mean ~~lower~~ low water): 2.8 ft.

Height of Mean High Water above Plane of Reference is 1.7 ft.

Remarks: Zone direct.

C. L. Shurland
Chief, Tides Branch

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No.

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
LONG BEACH										1
MISSISSIPPI SOUND (IN TITLE)										2
PASS CHRISTIAN										3
PITCHER POINT										4
WHITE HARBOR										5
										6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
					Approved by					17
					Chas. E. Harrington					18
					Staff Geographer					19
					18 Nov. 1974					20
										21
										22
										23
										24
										25
										26
										27

NOAA FORM 77-27
(9-72)
(PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

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

HYDROGRAPHIC SURVEY STATISTICS

HYDROGRAPHIC SURVEY NO. H-8970

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET & PNO	1	BOAT SHEETS	1
DESCRIPTIVE REPORT	1	OVERLAYS	2

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1					
VOLUMES	12					
BOXES			1			

T-SHEET PRINTS *(List)*

SPECIAL REPORTS *(List)*

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				2190
POSITIONS CHECKED			2	219
POSITIONS REVISED			2	70
DEPTH SOUNDINGS REVISED			51	150
DEPTH SOUNDINGS ERRONEOUSLY SPACED			0	-
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED			0	-
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		20	10	
JUNCTIONS		0	6	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		40	0	
SPECIAL ADJUSTMENTS		5	0	
ALL OTHER WORK		100	89	
TOTALS		165	105	

	BEGINNING DATE	ENDING DATE
PRE-VERIFICATION BY B. Davis and R. Hill	9/16/72	7/11/74
VERIFICATION BY R. G. Cram	August 3	August 28, 1974
REVIEW BY Charles D. Meader	4/9/75	5/18/75

Insp. PB Powers 33 hrs 7-2-75

* U.S. G.P.O. 1972-769-562/439 REG.#6

Reg. No. H-8970

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-8970

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 2/11/76 TIME REQ'D. 3 HRS. INITIALS WGL

REMARKS:

H-8970

Items for Future Presurvey Reviews

The bottom is adequately developed on the present survey. The prior and present surveys show this to be a stable bottom area.

Position Index Lat.	Long.	Bottom Change Index	Use Index	Resurvey Cycle
301	0891	3	2	50 years
301	0892	3	2	50 years
302	0891	3	2	50 years
302	0892	3	2	50 years

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8970 FIELD NO. 742-10-1-68

Mississippi, Mississippi Sound, Pass Christian to Long Beach

SURVEYED: March 7, 1968 thru April 23, 1968

SCALE: 1:10,000 PROJECT NO.: OPR-468

SOUNDINGS: Raytheon DE-723
Pole Soundings

CONTROL: Visual fixes on shore signals

Chief of Party ..... A. J. Patrick
Surveyed by ..... B. T. Davis
Automated Plot by ..... Calcomp Plotter (AMC)
Verified and inked by ..... R. G. Cram
Reviewed by ..... C. D. Meador
..... Date: May 1, 1975
Inspected by ..... F. B. Powers

1. Control and Shoreline

The origin of the control is adequately discussed in paragraph F of the Descriptive Report.

The shoreline originates with the final reviewed photogrammetric manuscripts T-11807 and T-11808 of 1966-67 and T-11809 of 1966-68.

The mean high water line as shown on this survey is for guidance only and, except for revisions in red determined by the hydrographer, the true position of this line is shown on the topographic surveys previously mentioned.

2. Hydrography

A. Depths at crossings are in good agreement.

B. Except for the low water line, the usual depth curves are adequately delineated. The supplemental 3-ft. curve was added to better show the bottom configuration.

C. The development of the bottom configuration and determination of least depths are adequate.

3. Condition of the Survey

The field work, sounding records, smooth plotting, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instructions Manual - Automated Hydrographic Surveys except for the following:

A. The final sounding printout was a duplication of the uncorrected preliminary sounding printout. This printout was hand corrected during review for its final form.

B. The letter "i" was dotted in words lettered offshore of the high water line.

4. Junctions

Adequate junctions were effected with H-8925 (1967) and H-9004 (1968-69) on the east. A partial butt junction was necessary with H-9177 (1970-71) on the west where changes of 2-6 ft. had occurred subsequent to the date of the present survey. The junction with H-9028 (1970-71) on the south will be discussed in the review of that survey.

5. Comparison with Prior Surveys

A.

H-256	1851	1:10,000	H-546	1856	1:20,000
H-488	1855	1:20,000	H-589	1857	1:20,000

These earlier surveys fall in the area of the present survey but are not discussed in the present review.

B. H-3960 1916-18 1:40,000
H-4000 1917 1:40,000

These two prior surveys taken together cover the entire area of the present survey. Extensive shoreline change has occurred due to land-fill and construction of piers and storm drains. A cut parallelling the shoreline was dredged since 1918 to obtain fill for maintaining the man-made beach. Although random shoaling of 1-4 ft. has occurred, the locations of deeps and shoals are in good agreement between these earlier surveys and the present survey. The small boat marinas at Pass Christian and Long Beach were built subsequent to 1918. The present survey is adequate to supersede these prior surveys within the common area.

C. F.E. No. 1 1965 W.D. 1:40,000

A detached area on this survey falls within the limits of the present survey. There are no conflicts between the present depths and the effective wire-drag depths.

The oyster stakes in the vicinity of lat. 38°17.38', long. 89°15.27', have been carried forward as submerged to supplement the present survey information. *

D. T-9379 N 1950-56 1:10,000
T-9380 1950-55 1:10,000

These topographic surveys made subsequent to the prior hydrographic surveys contain a number of items which are not considered disproved and have been carried forward to supplement the present survey information. As the high water line has receded as much as 40 meters since the time of these prior surveys, the low water line has probably shifted in position also and has not been carried forward.

The dashed lines charted from T-9380 in lat. 30°18.95', long. 89°14.00', and lat. 30°19.05', long. 89°13.80', apparently representing pier ruins do not appear on T-11808 or the second edition of T-11808 compiled from color photographs. The present survey provides no information regarding these ruins and they should be considered non-existent. *

6. Comparison with Chart 11372 (formerly chart 876-SC) (latest print date March 2, 1974)

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration and with the subsequent Corps of Engineers CL-1170 (1971), supplemented by the partial application of depths from the boat sheet (Bp. 74134) of the present survey. The sources of the charted soundings are indicated on Bp. 92354.

Attention is directed to the following:

1. Item #23, Presurvey Review, dated September 20, 1966, a sunken wreck P.A. charted in lat. 30°19', long. 89°08', originates with NM No. 42 of 1960. This wreck is not considered disproved and should be retained as charted. ok

2. A rock awash charted in lat. 30°18.67', long. 89°14.68', originates with T-9380 (1950-55). This rock is now within the HWL of the marina and should be deleted from the chart. Applied

3. The dashed line charted in the vicinity of lat. 30°18.74', long. 89°14.64', originates with C of E Bp. 58359 (1959) and represents the seaward limits of a spoil area. The term "spoil" should be added to the chart to describe this area. Applied

4. A one-foot sounding charted in lat. 30°18.36', long. 89°15.76', is actually a four-foot sounding originating with the boat sheet (Bp. 74134) of the present survey. Applied

5. A submerged pile symbol should be charted in lat. 30°18.14', long. 89°15.28'. (The charted position of "Pass Christian Channel West Entrance Light 1" was revised from Bp. 87459 (TP-00039) to lat. 30°18.24', long. 89°15.22', subsequent to the

LNM 11-VC-15 ok

date of the present survey. Since there is no information indicating that the structure was removed, the above recommendation is made).

6. The MHW line should be revised to reflect the information shown on the Class I manuscripts T-11808 (2) and T-11809 (2) of 1969-70 which are subsequent to the present survey.

7. Information enclosed by either orange squares or by brown squares on Bp. 92354 (1975) is subsequent to the date of the present survey and should be retained as charted.

8. A pile charted in lat. 30°20.44', long. 89°08.96', originates with a source not readily ascertainable. This feature does not appear on the topographic surveys contemporary with the present survey or on those subsequent to the present survey and should be charted as a submerged pile.

9. The pier charted in the vicinity of lat. 30°20.88', long. 89°08.03', originates with T-9380 (1950-55). This feature is shown as pier ruins on subsequent T-11809 (2) (1969-70).

10. As a result of storm damage from hurricane Camille in 1969, numerous pilings shown on the present survey do not appear on the subsequent 2nd edition of topographic surveys T-11808 and T-11809 of 1969-70. It is assumed that these pilings have broken off and where they are of sufficient importance for charting they should be charted as submerged piles.

B. Aids to Navigation

Two fixed aids to navigation have been relocated subsequent to the date of the present survey. There are no floating aids to navigation within the limits of the present survey. The fixed aids presently charted adequately mark the features intended.

7. Compliance with Instructions

This survey adequately complies with the Project Instructions.

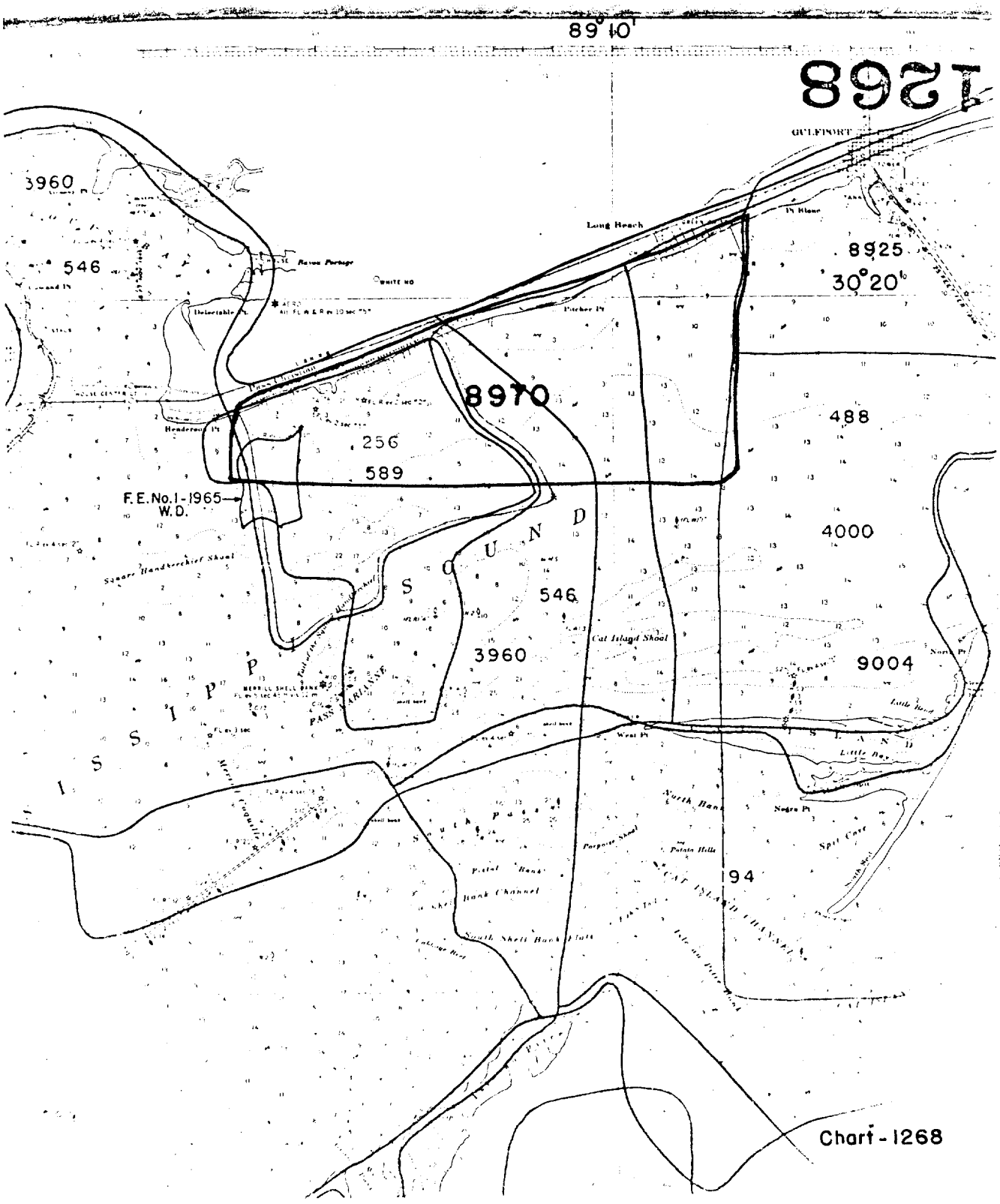
8. Additional Field Work

This is an excellent basic survey of the area prior to Hurricane Camille in 1969 and no additional field work is recommended.

Examined and Approved:

R K Houlton
Chief
Marine Chart Division

Robert C. Munson
Associate Director
Office of Marine Surveys
and Maps


89°10'
1268
GULFPORT
3960
546
Long Beach
8925
30°20'
8970
488
256
589
F.E.No.1-1965
W.D.
4000
546
3960
9004
94
Chart - 1268

FORM C&GS-8352
(8-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8970

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
11372	11/7/74	D. Wylie	~~Full~~ Part ~~Before~~ After Verification Review Inspection ~~Signed Via~~
(876-SC)			Drawing No. 10
11371	"	"	~~Full~~ Part ~~Before~~ After Verification Review Inspection ~~Signed Via~~
(1268)-80			Drawing No. 37-X
11372			
876 SC	6-1-77	J. OWYANG	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 12b fully applied D.R. and hydro sheet.
11371	4-4-85	Ken Rauscher	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 47
11371	10-6-93	M. Schmalhofer	~~Full~~ Part ~~Before After Verification~~ Review Inspection Signed Via
			Drawing No. 53 PARTIALLY REAPPLIED FOR METRIC CURVES
			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
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975

USCOMM-DC 8558-P63