

9262

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. 742-10-2-71.....
Office No. H-9262.....

LOCALITY

State MISSISSIPPI.....
General Locality LAKE BORGNE.....
Locality HALF MOON ISLAND TO POLECAT BEND.....

1971-72

CHIEF OF PARTY
John D. Stachelhaus.....

LIBRARY & ARCHIVES

DATE 5/1/75.....

9262

HYDROGRAPHIC TITLE SHEET

H-9262

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.

742-10-2-71

State Mississippi

General locality Lake Borgne

HALF MOON Is. to Polecat Bend
Locality Grassy Island

Scale 1:10,000

Date of survey 19 Oct. 71 to 15 Mar. 72

Instructions dated 25 Oct. 1968 and 11 Nov. 71 Project No. OPR-468

Vessel Launches 1259, 1247, 1260

Chief of party Lt. John Stachelhaus

Surveyed by LTJG. Carl F. Peters

Soundings taken by echo sounder, hand lead, pole DE, 723 Raytheon

Graphic record scaled by Party Personnel

Graphic record checked by Party Personnel

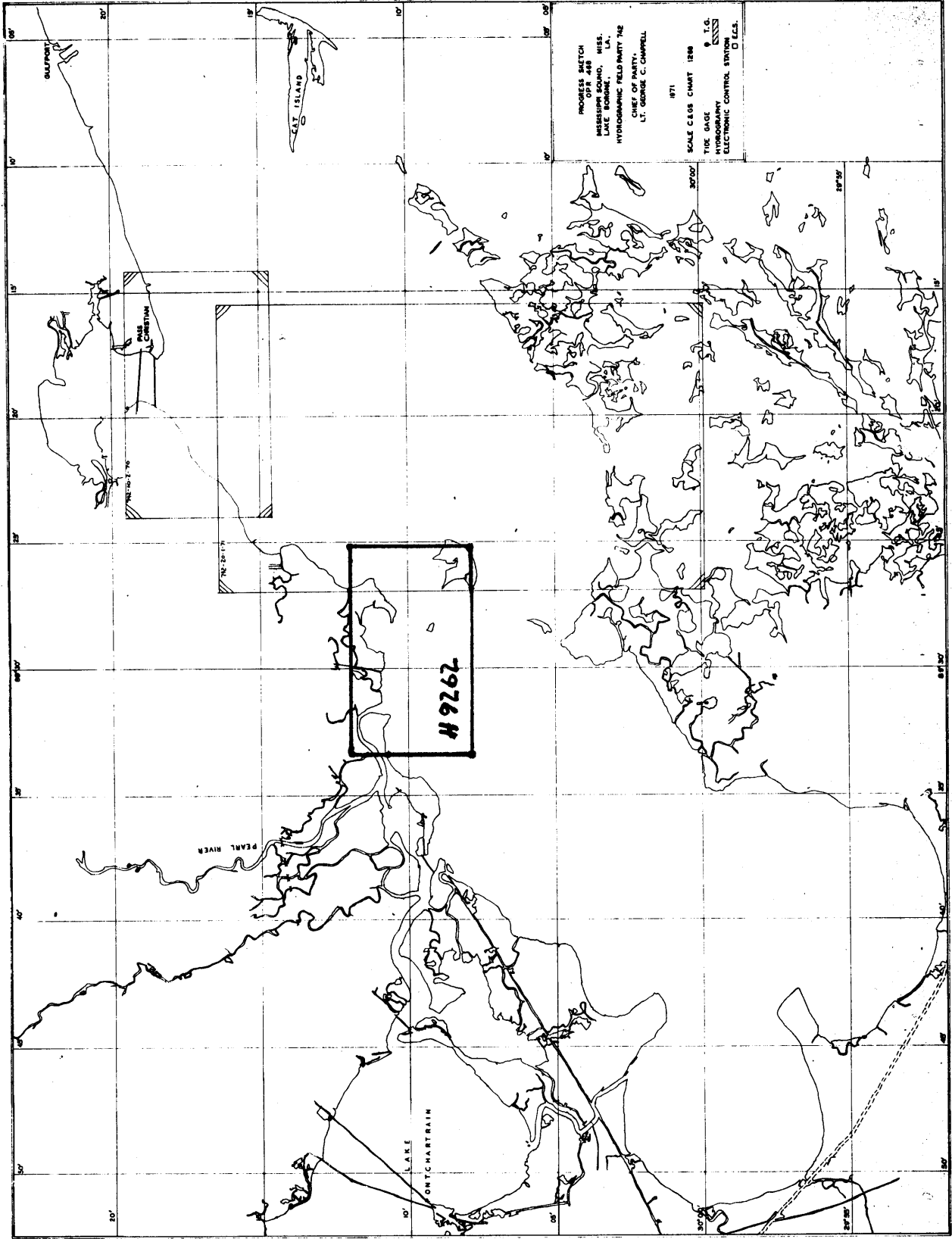
Automated Plot by AMC - CALCOMP 6/8
~~Projected by~~

Soundings penciled by _____

Soundings in ~~sublimate~~ feet at MLW ~~NEWT~~

REMARKS:

Applied to plots 5/16/75
CSB



PROGRESS SKETCH
OF R 488
MISSISSAUGA AND NISSE
LAKE ONTARIO
HYDROGRAPHIC FIELD PARTY 742
CHIEF OF PARTY,
LT. GEORGE C. CAMPBELL

1871
SCALE C&GS CHART 1268
TIDE GAUGE
HYDROGRAPHIC
ELECTRONIC CONTROL STATION
T.G.
E.L.S.

H 9262

PEARL RIVER

LAKE
ONTARIO

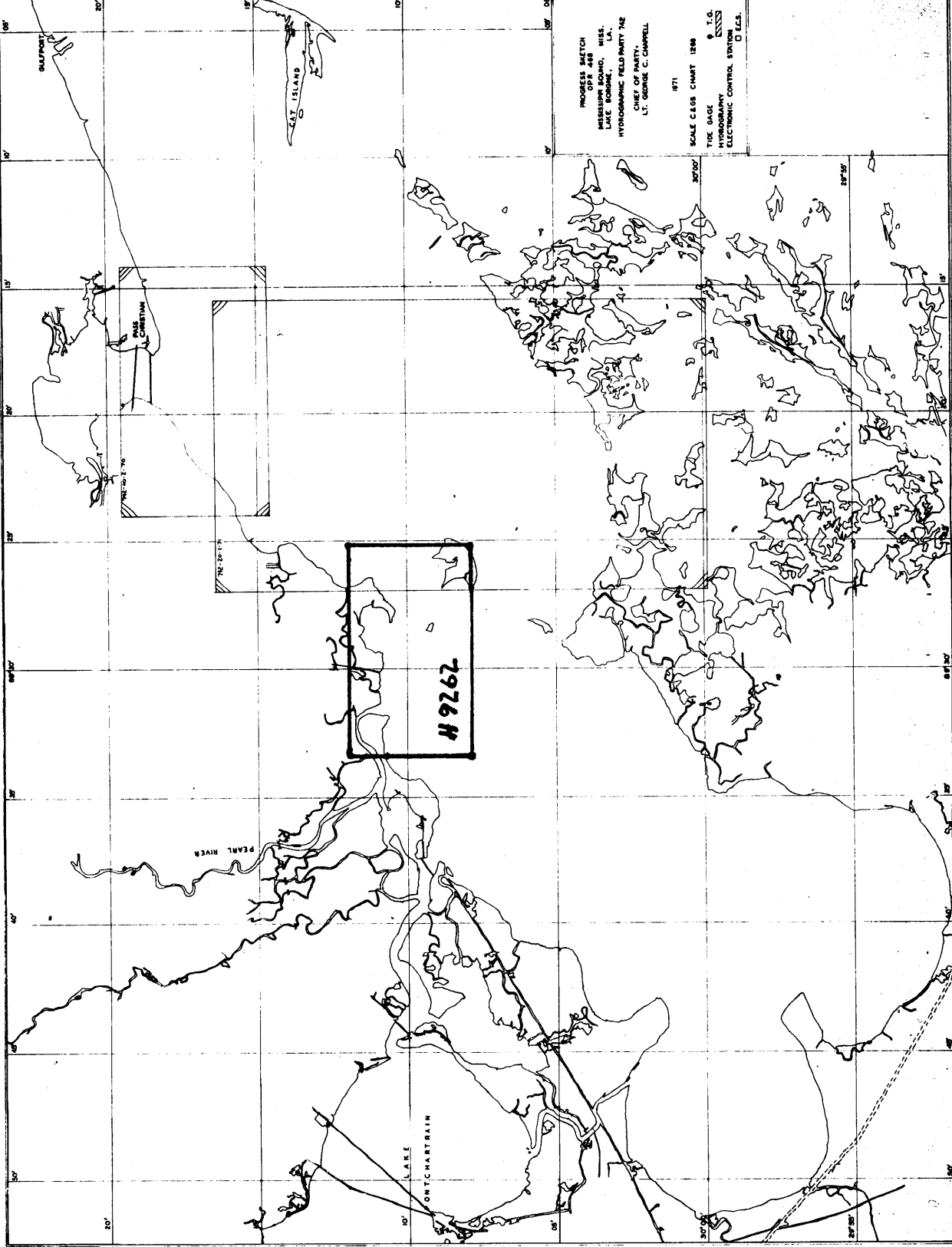
GALVESTON

ISLAND

CHRISTIAN

742

742



DESCRIPTIVE REPORT
TO ACCOMPANY
HYDROGRAPHIC SURVEY H-9262
(FIELD NO. 742-10-2-71)

SCALE: 1:10,000 Hydrographic field party 742
CHIEF OF PARTY: Lt. John Stachelhaus
SURVEYED BY: Ltjg. Carl F. Peters

* * * * *

A. Project

Work on project OPR-468 was done according to instructions dated 25 October 1968 and supplemental instructions dated 11 November 1971. ✓

B. Area surveyed

This survey covers the mouth of the Pearl River in Lake Borgne, Louisiana, eastward to Lower Point Clear, Mississippi. This area is bounded by latitude 30°08.0'N to 30°11.5'N, and longitude 89°25.5'W to 89°33.5'W. ✓

Field work began 19 October 1971 and ended 15 March 1972.

Junction was made with the following sheets:

Northeast-H9199, 1:10,000
Southeast-H9200, 1:20,000
South -H9261, 1:20,000

C. Sounding vessels-

Soundings were obtained with the following launches:

1247-position numbers are violet
1259-position numbers are red
1260-position numbers are blue ✓

D. Sounding equipment

Raytheon fathometers, type DE 723, serial numbers 1885, 535, and 1889 were used for echo soundings. A sounding pole was used in water too shallow for accurate fathometer operation. ✓

Corrections applied to echo soundings were determined by averaging daily bar checks.

E. Smooth sheet

The smooth sheet will be plotted by the Atlantic Marine Center using punched paper tapes prepared by party personnel. ✓

F. Control

Horizontal control was provided by a DR-S Raydist system on a frequency of 3306.4 kilocycles.

Shore station and calibration point positions are given in the Control Report of Photo Party 61. ✓

Three intersection stations were used as calibration points:

		Red	Green
East Pearl River Entrance Lt.	#8	581.78	655.65
East Pearl River Entrance Lt.	#1	618.43	646.27
Grand Island Lt.	#3	527.58	537.40

Calibration was accomplished by positioning the launch as close to the light as conditions permitted and setting the raydist navigator to the appropriate lane count.

After calibrating at Lt. #8 and checking calibration at Lt. #1 the red lane was approximately 0.2 greater than its computed calibration value and when checking calibration at Lt. #3 the red lane was approximately 0.4 greater than its computed calibration value. These differences were probably due to attenuation therefore the navigator was calibrated each day to the point that was nearest to the area of hydrography for the day.

Approximately 200 raydist calibration sextant fixes were taken along the shoreline to determine attenuation effects. These simultaneous raydist and sextant positions are plotted on the overlay boatsheet and show an approximate 20 meter difference in position. These fixes were only taken within 200 meters of the shoreline therefore due to lack of data more than 200 meters from shore no attempt was made to correct observed positions for attenuation.

G. Shoreline

Shoreline detail was taken from incomplete manuscripts TPO041, TPO040, and TPO0179.

The low water line is not defined by the soundings in most areas because of the low tidal range in this area at the time of hydrography. ✓

H. Crosslines

Crosslines were run at 10% of the principal system of sounding lines. There were no discrepancies at crossings. ✓

I. Junctions

Agreement was made in depths at all junctions. ✓

J. Comparison with prior surveys

There are three numbered presurvey review items within this survey: ✓

J. continued

PSI #47- Sunken wreck, Lat. 30°10.75'N, Long. 89°31.81'W.

Position is in an area of tidal flats and was searched visually at a time of extremely low tide. Existence disproved; recommend deletion. *Comparison with charts in house*

PSI #48- Submerged piles, lat. 30°08.95'N, long. 89°31.71'W. Bottom was dragged as shown on overlay with a modified shrimp trawl and three pilings were found. Recommend these new positions be charted and the older positions deleted. *Concur*

Sources in CL 73/1950. (Copy of report)

PSI #49- Obstruction P.A., Lat. 30°08.90'N, Long. 89°33.27'W. Bottom was dragged as shown on overlay and nothing was found. Recommend deletion. *Retain PA position*

Sources in NH 57/1968.

A comparison of this survey was made with sheet 1055a, a 1:40,000 sheet completed in 1870. Depths are in good agreement throughout the entire sheet. *A limited drag search was not adequate to disprove this feature.*

K. Comparison with chart

A comparison of this survey was also made with chart 878-SC, scale 1:40,000, fifth ed. July 1971. ✓

Two parallel pipelines are charted, both running southwest to northeast. There are no submerged features of the easterly, older line but the westerly line shows evidence of recent dredging. In addition to the trench for the pipeline, six foot shoals are present along most of the line.

<u>Feature</u>	<u>Location (pos. approx.)</u>	<u>Remarks</u>
✓ line of piles	30°10.75'N 89°33.25'W	Previously charted. Line of 13 evenly spaced piles 4.5' offshore pile bares 2.2' in 5.5' at MEW; inshore pile bares 2.4' in 2.8' at MEW. Recommend charting. <i>pos. 7117-7118</i>
✓ wooden ruins	30°10.33'N 89°32.20'W	Possibly beacon ruins, bares 5.6' in 7.4' at MEW. Recommend charting. <i>MHW pos. 7373</i>
✓ concrete blocks	30°10.85'N 89°31.85'W	Previously charted at erroneous position. 3 concrete blocks at points of triangular base. Blocks bare 5.2' in 4.8' at MEW. Recommend charting. <i>MHW pos. 1242</i>

<u>K. continued</u> <u>Feature</u>	<u>Location</u>	<u>4.5'</u> <u>Remarks</u>
concrete blocks	30°10.65'N 89°27.90'W	Same description as previous. Bares 2.2' in 4.4' at MLW. MHW CONCUR Recommend charting. <i>para 215</i>
concrete pile <i>Sign</i>	30°09.96'N 89°31.48'W	Previously charted. Gulf Refining Company pipeline marker. 3.0' diameter, bares 5.0' at MLW. Recommend charting. <i>para 234</i> CONCUR
obstruction P.D. <i>LNM 30/71</i>	30°09.5'N 89°30.8'W .75'	Previously charted. Searched for this with fathometer, nothing found. Recommend deletion. <i>investigated more thoroughly and should be retained as charted.</i> <i>have been</i>
sign <i>LNM 57/71</i>	30°09.4'N 89°32.2'W .05' .14'	Previously charted. No evidence of a sign in this area. Recommend deletion. <i>area was investigated</i>
concrete obstruction	30°10.41'N 89°27.81'W .01'	4' square obstruction. Bares 1.0' in 3.2' at MLW. Recommend charting. <i>para 513</i> CONCUR <i>merged pile</i>
shoal <i>CL 157/1944</i> <i>Coast Guard investigation</i>	30°09.0'N 89°31.4'W .08'	Previously charted as 6' shoal in 9'. No evidence of shoal remains. Recommend deletion. <i>para 1826-29</i> CONCUR
shoal	30°10.27'N 89°28.56'W 5	Least depth 3.8' at MLW. Recommend charting. <i>L.I. investigation</i> <i>para 2384-55</i> CONCUR <i>2483</i>
shoal	30°10.14'N 89°31.36'W	Least depth 4.4' at MLW. Recommend charting. <i>L.I. investigation</i> <i>para 2435</i> CONCUR <i>2019-2020</i>
shoal	30°10.83'N 89°31.30'W	Least depth 3.2' at MLW. Recommend charting. <i>L.I. investigation</i> <i>para 2434</i> CONCUR
submerged snag <i>CL 463/1948</i>	30°10.25'N 89°31.45'W	Previously charted. Searched with shrimp trawl; nothing found. Recommend deletion. <i>improved was snag</i> CONCUR

L. Adequacy of survey

This survey is complete and adequate to supersede prior surveys for charting. ✓

M. Aids to Navigation

There are seven floating aids and seven fixed aids to navigation. A comparison was made with the Light List, 1971 and chart 878-SC and all aids to navigation were found on both these sources. The aids adequately serve the purpose intended. ✓

<u>N. Statistics</u> <u>Launch</u>	<u>total number</u> <u>of positions</u>	<u>miles of</u> <u>sounding line</u>
1259	581	77.2 nm. ✓
1247	1019	115.1 nm. ✓
1260	2435	363.2 nm.

This survey covers twenty square nautical miles.
Fifty-eight bottom samples were taken.

O. Miscellaneous

206 Raydist calibration sextant fixes were taken
along the shoreline. These data are in a separate volume
titled Sextant Fixes. ✓

Respectfully submitted,

Ltjg. Carl F. Peters
Ltjg. Carl F. Peters

Appendix "A"

Settlement and Squat Correction



Launch 1259- no correction

<u>Launch 1260</u>	<u>Depth</u>	<u>Correction</u>
Table 1 (1400 rpm)	0.0 to deeper	+0.2
Table 2 (2000 rpm)	0.0 to 5.0 5.1 to deeper	+0.6 +0.4
Table 3 (1000 rpm)	0.0 to deeper	0.0
<u>Launch 1247</u>		
Table 4 (1500 rpm)	0.0 to deeper	+0.2
Table 5 (2000 rpm)	0.0 to 10.0 10.1 to deeper	+0.4 +0.2
Table 6 (1000 rpm)	0.0 to 5.0 5.1 to 9.0 9.1 to deeper	+0.4 +0.2 0.0

Appendix "B"

Corrections to Echo Soundings



Launch 1260

Fathometer DE723, Ser. 1885

Table 1 (before 040 day)
 [Day 292 (Oct 19, 1971) to 040 (Feb 9, 1972)]
 Table 2 (040 day and later)

Depth	Correction
0.0 to deeper	0.0
0.0 to 9.0	-0.2
9.1 to deeper	-0.4

Launch 1259

Fathometer DE723, Ser. 1889

Table 3

0.0 to 4.0	-0.6
4.1 to 6.0	-0.4
6.1 to 22.0	-0.2
22.1 to deeper	0.0
0.0 to deeper	0.0

DAY 066

Launch 1247

Fathometer DE723, Ser. 535

Table 4

0.0 to 4.4	-0.2
4.5 to 22.0	0.0
22.1 to deeper	+0.2

Table 5 (day 024 and 027)

0.0 to 6.0	0.0
6.1 to 20.0	+0.2
20.1 to 22.0	+0.4
22.1 to 24.0	+0.6
24.1 to deeper	+0.8

Velocity corrections should be determined from printout of TRA & VELOCITY table printout.

Appendix "C"

Tide Note

1. Project no: OPR 468
2. Field Unit: HFP 742
3. Year: 1971,1972
4. Meridian Time Zone: 90°W
5. Tide Station Name: Lower Point Clear
6. Position: Lat. 30°10.44'N Long. 89°27.78'W
7. Plane of Reference: MLW corresponds to 1.4 feet on the tide staff for the period of hydrography.
8. Hourly heights were scaled and logged from field marigrams.
9. Tidal Zoning: Not applicable
10. Remarks: Soundings for positions 1384-1762 and 5073-5135 were inked on the boatsheet after reducing them with tides from Catfish Point, Louisiana instead of Lower Point Clear, Mississippi as the later gage was inoperative at the time of hydrography. These soundings do not agree with the others, consequently, depth curves were drawn through these areas with dotted lines.

Appendix "D"

Approval Sheet to Accompany
Hydrographic Survey H-9262



This field and office work was accomplished prior to my assuming command of this party.

The hydrography, records, and descriptive report were completed by Ltjg. Carl F. Peters and are complete and adequate to the best of my knowledge.

Approved and forwarded,

A handwritten signature in cursive script, appearing to read "Ned Austin".

LT. Ned Austin
OIC, HFP 742

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

VESSEL	PROJ. NO.	YEAR	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAM- PLER	AP- PROX. TRA- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, corals, etc., depth, nature of bottom, etc.)	OBS. INIT.
			LATITUDE	LONGITUDE								
HEP-742	OPR-468	1972										
SERIAL NO.	DATE		LATITUDE	LONGITUDE	DEPTH	WEIGHT	AP-PROX. TRA-TION	LENGTH OF CORE	COLOR OF SEDI-MENT	FIELD DESCRIPTION	REMARKS	OBS. INIT.
7971	2/8/72		38° 18.6'	89° 31.7'	6.0	-	-	-	-	SP1 gy M		
7972	"		10.7'	32.2'	6.1	-	-	-	-	SP1 br M		
7973	"		10.8'	32.8'	5.4					SP1 br M		
7974	"		10.4'	33.5'	6.0					SP1 br M		
7975	"		09.9'	33.3'	6.8					SP1 br M		
7976	"		09.5'	33.3'	7.0					SP1 br M		
7977	"		08.8'	33.3'	14.0					SP1 br M		
7978	"		08.8'	32.9'	8.5					SP1 br M		
7979	"		09.3'	32.8'	6.8					SP1 br M		
7980	"		09.8'	32.9'	7.0					SP1 br M		
7981	"		10.2'	32.8'	6.8					SP1 br M		
7982	"		10.3'	32.3'	6.8					SP1 br M		
7983	"		09.9'	32.3'	7.5					SP1 br M		
7984	"		09.3'	32.3'	7.5					SP1 br M		
7985	"		08.8'	32.3'	9.0					SP1 br M		
7986	"		08.6'	31.6'	12.0					SP1 br M		
7987	"		09.2'	31.7'	11.0					SP1 br M		

Use more than one line per sample if necessary.

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

VESSEL		PROJ. NO.		YEAR		CHECKED BY		DATE CHECKED			
HEP-742		OPR-468		1971							
SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAM- PLER	AP- PROX. TRAC- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, coherence, density, cutters, size, nature, type of bottom relief, etc.)	OBS. INT.
		LATITUDE	LONGITUDE								
5140	11/29/71	30° 08.2'	89° 26.0'	—	—	—	—	—	SP 1 gy M		
5141	"	08.2'	27.2'						SP 1 gy M		
5142	"	08.3'	27.7'						SP 1 gy M		
5143	"	08.3'	28.3'						SP 1 gy M		
5144	"	08.4'	28.8'						SP 1 gy M		
5145	"	08.3'	29.2'						SP 1 gy M		
5146	"	08.3'	29.7'						SP 1 gy M		
5147	"	08.3'	30.3'						SP 1 gy M		
5149	"	08.3'	30.7'						SP 1 gy M		
5149	"	08.3'	31.2'						SP 1 gy M		
5150	"	08.3'	31.8'						SP 1 gy M		
5151	"	08.2'	32.3'						SP 1 gy M		
5152	"	08.3'	32.7'						SP 1 gy M		

Use more than one line per sample if necessary.

CONTROL REPORT
BOAT SHEET HFP 742 10-2-71
Prepared by PHOTO PARTY 61
NATIONAL OCEAN SURVEY
March 1972

CONTROL REPORT
BOAT SHEET HFP 742 10-2-71
Prepared by
NATIONAL OCEAN SURVEY
PHOTO PARTY 61
March 1972

1. Authority

Hydro support was performed in accordance with Instructions-
Post Compilation Field- Job PH 6902, Shoreline Mapping, Lake
Borgne, Louisiana, dated 6 April, 1970.

2. Purpose

To provide necessary Raydist calibration points and signals
for visual control and Radist control on Boat Sheet HFP 742
10-2-71. Boat sheet preparation was not performed by this
party.

3. Locality of Control

Lake Borgne in the vicinity of the mouth of Pearl River East
extending eastward to St. Joseph Light and including Grand
Island to the south.

4. Control

Hydrographic control consists of seven recovered triangulation
stations, two traverse stations, and five intersection stations.
There were no photo-hydro stations used for control on this
sheet.

5. Recommendations

None.

6. Disposition of Data

All field records for traverse and intersection stations have
been forwarded with this report to HFP 742 for inclusion in
survey records of Boat Sheet 10-2-71.

7. Attached

Signal list including triangulation and ground located stations.
Positions of triangulation, traverse, and intersection stations
are included on this list. Positions of Radist stations are also
included in the signal list.

Respectfully Submitted,


Richard D. Olson

LT. NOAA
Chief, Photo Party 61

9262

BOAT SHEET HFP 742 10-2-71
SIGNAL LIST

<u>Signal No.</u>	<u>Triangulation Stations</u>	<u>Positions</u>			
002	ARK, 1934	30 08	25.609	89 26	01.980+
004	DAVE 2, 1966	30 10	39.778	89 31	54.450+
005	CLEAR 2, 1966	30 10	27.588	89 27	46.444+
006	CHUCK, 1966	30 07	50.540	89 26	49.835+
009	DAMP, 1952	30 09	13.670	89 28	27.365-
010	STEW, 1966	30 08	42.049	89 25	08.357x
014	PEAR, 1952	30 11	39.295	89 32	04.943-
<u>Traverse Stations</u>					
013	CAMP, 1971	30 11	26.382	89 30	01.763-
015	HERO, 1971	30011	10.610	89 27	17.085-
<u>Intersection Stations</u>					
001	East Pearl River Entrance Lt. #1	30 09	20.782	89 31	27.629*-
003	Grand Island Lt. #3	30 09	31.924	89 28	19.945***-
008	East Pearl River Entrance Lt. #8	30 10	56.075	89 31	25.690*-
011	St. Joseph Light	30 11	03.913	89 25	32.784**-
012	Signal 12	30 08	36.762	89 26	28.742**-
<u>Positions of Radist Antennas</u>					
Red	HENDERSON 2, 1966	30 18	14.540	89 17	18.719
Green	CREOLE, 1966	30 07	31.751	89 13	20.585

* position as of 7/06/71
 ** position as of 3/15/72
 *** position as of 8/17/71

ATLANTIC MARINE CENTER
ELECTRONIC CONTROL PARAMETERS

1. Project # OPR-468 2. Reg. # H-9262 3. Field # 742-10-2-71
 4. Type of Control: RAYDIST (Hi-Fix, Raydist, EPI, etc.)
 5. Frequency 3306.4 (for conversion of electronic lanes to meters)
 6. Mode of Operation (check one):

Range-Range

Range-Visual

Range One (R₁)
 Station I.D. HENDERSON 2
 Range Two (R₂)
 Station I.D. CREOLE Blv

Lat. 30° 18' 14.5395"
 Long. 89° 17' 18.7193"
 Lat. 30° 07' 31.751"
 Long. 89° 13' 20.585"

Hyperbolic (3-station)

Hyper-Visual

Slave One
 Station I.D. _____
 Master
 Station I.D. _____
 Slave Two
 Station I.D. _____

Lat. _____° _____' _____"
 Long. _____° _____' _____"
 Lat. _____° _____' _____"
 Long. _____° _____' _____"
 Lat. _____° _____' _____"
 Long. _____° _____' _____"

7. Location of Survey:

Range-Range

Imagine an observer is standing at R₁ Station and looking directly at R₂ (check one):

Survey area is to observer's Right A=0

Survey area is to observer's Left A=1

Hyperbolic

Looking from survey area toward Master Station:

Slave One must be to observer's Left;

Slave Two must be to observer's Right.

8. This form is submitted as an aid in preparing a boat sheet.

This form applies to all data on this survey.

This form applies to part of the data on this survey.

Vessel EDP #	From Time Day	To Time Day	Position Numbers (inclusive)
_____	_____	_____	_____ to _____
_____	_____	_____	_____ to _____
_____	_____	_____	_____ to _____

9. Remarks: _____

CFN3-1
2-18-71

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

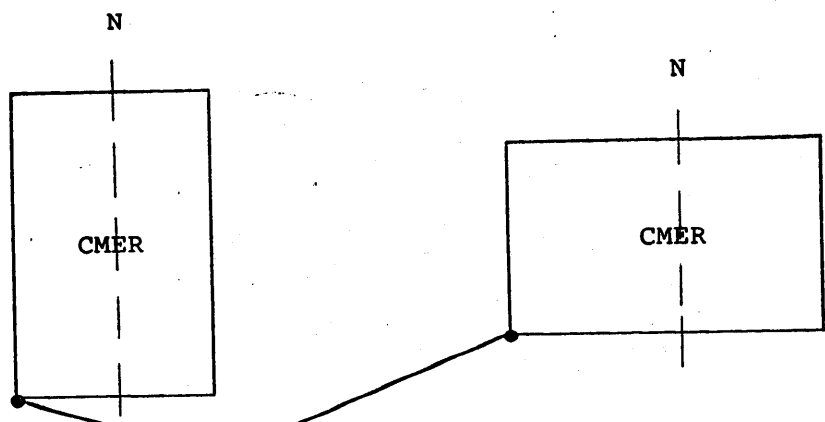
POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. OPR 468 4. Requested By LT. GEORGE CHAPPEL
2. Reg. No. _____ 5. Ship or Office HFP 742
3. Field No. 742-10-2-71 6. Date Required A.S.A.P.

7. Polyconic Modified Transverse Mercator
8. Central Meridian of Projection 89 ° 29 ' 00 "
9. Survey Scale: 1: 10,000

10. Size of Sheet (check one):
36 x 54 36 x 60 Other Specify _____

11. Sheet Orientation (check one):
NYX = 1 NYX = 0



12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)
Latitude 30 ° 07 ' 25 "
Longitude 89 ° 33 ' 35 "

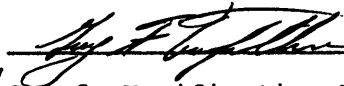
13. G.P.'s of triangulation and/or signals attached
14. Material Desired: Tracing Paper Mylar
Smooth Sheet Other Specify _____

15. Remarks: TWO BOATSHEETS REQUESTED

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H-

- 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.

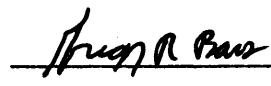
Date: 5/1/75

Signed: 

Title: Act 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: 5/1/75

Signed: 

Title: Chief, Processing Division

ATLANTIC MARINE CENTER
 VERIFICATION OF SHOOTH TIDES

SURVEY H-9262 ✓

PLANE OF REFERENCE MLW OR MLLW
 TIME MERIDIAN GMT
 HEIGHT DATUM OR STAFFS 1. LA 2. _____ 3. _____

TIDE STATIONS	POSITION	TYPE GAGE	TIME CORR.		HEIGHT CORR.*	
			H.W.	L.W.	H.W.	L.W.
1. Lower Point Clear, Miss.	ϕ 30° 10' 30" W Y 87° 27' 28" 45" STD.					
2.	ϕ					
3.	ϕ					

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

Zone direct west to 89° 30'
 Applied range ratio of 0.867 to remaining sheet

TIDE CORRECTIONS COMPILED BY COMPUTER VERIFIED BY: R. Coan
 MANUALLY VERIFIED BY: _____

HEIGHT OF MHW ABOVE PLANE OF REFERENCE 1.5 feet

TIDE CORRECTIONS VERIFIED ON SOUNDING PRINTOUT BY: R. Coan & G. Hendrix

DATE OF VERIFICATION 7 June 1974

SCALE RATIO

EXAMINED & APPROVED

5/13/74

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): Lower Point Clear

Period: Oct. 19 - Dec. 9, 1971, January 11 - Mar. 15, 1972

HYDROGRAPHIC SHEET: H9262

OPR: 468

Locality: Mississippi Sound

Plane of reference (mean ~~low~~ low water): 1.4 ft.

Height of Mean High Water above Plane of Reference is 1.5 ft.

Remarks: Recommended zoning

1. Zone direct west to $89^{\circ}30'$
2. Apply range ratio of 0.867 to remaining sheet

James R. Hubbard
per Chief, Tides Branch

GEOGRAPHIC NAMES

H-9262 ✓

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 ATLAS	U.S. LIGHT LIST				
GAMBLERS BEND											1
GRASSY ISLAND											2
HALF MOON ISLAND											3
HERON BAY											4
HERON BAY BAYOU											5
HERON BAY POINT											6
LAKE BORGNE											7
LIGHTHOUSE POINT											8
MISSISSIPPI SOUND											9
PEARL RIVER											10
PEARL RIVER ISLAND											11
POKEY DUTCH											12
POLECAT BEND											13
ST. JOE PASS											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25

Approved
 Chas. E. Harrington
 Staff Geographer
 17 JUNE 1975

HYDROGRAPHIC SURVEY STATISTICS
 HYDROGRAPHIC SURVEY NO. H-9262 (742-10-71)

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		4	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES	1000					
CAHIERS	2 1000 (fathograms)					
VOLUMES	21					
BOXES			1 & 1 Package	1-Bundle		
T-SHEET PRINTS (List) TP-0040, TP-0041, TP-0042, TP-0043, TP-0044, TP-0045						
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				4093
POSITIONS CHECKED		400	120	520
POSITIONS REVISED		175	0	175
DEPTH SOUNDINGS REVISED		660	30	690
DEPTH SOUNDINGS ERRONEOUSLY SPACED			0	-
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				2
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		8	8	16
JUNCTIONS		8	24	32
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		24	45	69
SPECIAL ADJUSTMENTS				
ALL OTHER WORK		262 18	18	280
TOTALS		302	95	397
PRE-VERIFICATION BY		BEGINNING DATE	ENDING DATE	
VERIFICATION BY <i>Harry R. Smith</i> Harry R. Smith		BEGINNING DATE 12/4/74	ENDING DATE 1/15/75	
REVIEW BY <i>George M. Frank</i> George M. Frank		BEGINNING DATE 6/21/75	ENDING DATE 8/7/75	

George M. Frank 12/9/75

paid RHC 3/20/76
 U.S. G.P.O. 1972-769-552/439 REG.#6

Reg. No. H-9262

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-9262

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 9-23-82 TIME REQ'D _____ INITIALS JAC

REMARKS:

H-9262

Items for Future Presurvey Reviews

There are no noteworthy changes between the prior and present surveys. However, attention is directed to the following for consideration of future presurvey review items.

1. The obstruction, PD, charted at latitude 30°09.25', longitude 89°30.75' was reported to be an underwater obstruction, approximately 2 feet below the surface of the water. Source is Local Notice to Mariners No. 31 of 1970.

2. The sign charted at latitude 30°09.05', longitude 89°32.14' and reported in Local Notice to Mariners No. 57 of 1971 was not located on the present survey. Its condition is unknown.

<u>Position 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>
300	893	3	2	50
301	893	3	2	50
300	894	3	2	50
301	894	3	2	50

OFFICE OF MARINE SURVEYS AND MAPS
MARINE SURVEYS DIVISION
HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9262

FIELD NO. 742-10-2-71

Mississippi, Lake Borgne, Half Moon Island to Polecat Bend

SURVEYED: October 19, 1971 - March 15, 1972

SCALE: 1:10,000

PROJECT NO.: OPR-468

SOUNDINGS: Raytheon DE-723 Depth
Finder, Sounding Pole,
Leadline

CONTROL: Raydist (Range-
Range Mode)

Chief of Party J. Stachelhaus
Surveyed by C. F. Peters
Automated Plot by Calcomp 618 (AMC)
Verified by H. R. Smith
Reviewed by G. M. Frank
..... Date: August 7, 1975
Cursory inspection made--survey G. K. Myers
processing considered complete Date: December 9, 1975

1. Control and Shoreline

The source of control is adequately covered in part F of the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts TP-00040 and TP-00044 based on 1969 air photography and a 1972 field edit, and TP-00041, TP-00045, and TP-00179 based on 1969 air photography and a 1971 field edit.

The mean high water line on the present survey is shown for guidance only, and the true position is shown on the topographic surveys previously mentioned.

2. Hydrography

A. Sounding line crossings are in good agreement.

B. The usual depth curves were adequately delineated. The 3-foot depth curve was added to more adequately delineate the bottom configuration.

C. The development of bottom configuration and investigation of least depths are considered adequate.

3. Condition of the Survey

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

A. Data pertaining to areas swept by an improvised drag is missing in the sounding records.

B. Investigations effected by a modified wire drag of most charted submerged features are substantiated by boat sheet information and comments made in the Season's Report. The use of the trawl board drag stated in the Descriptive Report is considered to be in error.

C. The submerged obstruction charted on the edge of the Intracoastal Waterway in latitude $30^{\circ}09.25'$, longitude $89^{\circ}30.75'$ was not investigated by the hydrographer on the present survey. ✓

D. Location of the tide station noted in the Descriptive Report was not plotted on the smooth sheet.

E. Heights of features above the sounding datum were incorrectly applied to the smooth sheet during verification.

4. Junctions

Adequate junctions were effected with H-9199 (1971) on the northeast, H-9200 (1972) on the east, H-9261 (1971) on the south, H-9347 (1972-73) on the west, and H-9279 (1972) on the north.

5. Comparison with Prior Surveys

A.	H-545	(1856)	1:20,000
	H-1055a	(1870)	1:40,000
	<u>H-1055c</u>	<u>(1870)</u>	<u>1:20,000</u>

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

B. H-3960 (1917) 1:40,000

This smaller scale prior survey covers the entire area of the present survey. In general, a comparison between prior and present depths reveals only minor differences, except in areas of dredging and spoil banks.

Since 1917, extensive differences in shoreline have occurred. These changes are considered to have been caused by storms and current activity.

The larger scale and more completely developed present survey is adequate to supersede the prior survey in the common area.

6. Comparison with Charts 11367 (latest print date, June 28, 1975)
11371 (latest print date, Jan. 18, 1975)

A. Hydrography

Most of the charted hydrography originates with the previously discussed prior survey, which requires no further consideration, supplemented by partial application of depths from the boat sheets (Bps 83093-94) and verified smooth sheet of the present survey and from prior and subsequent information furnished by the Corps of Engineers and other sources. Specific mention is made of the following:

(1) The line of ruins charted in ^{34.8"} the immediate vicinity of latitude $30^{\circ}10.58'$, ^{9"} longitude $89^{\circ}32.15'$ which extends more than 1,000 meters in a north-south direction from shore was erroneously applied from the boat sheet and should be deleted from the chart.

(2) The piling charted at latitude $30^{\circ}08.99'$, longitude $89^{\circ}31.9'$ from a U.S. Geological Survey quad "English Lookout" of 1956 was adequately investigated by an improvised wire drag and is considered disproved on the present survey. This piling should be deleted from the chart.

(3) The piling located at latitude $30^{\circ}09.02'$, longitude $89^{\circ}31.71'$ on chart 11367 was erroneously applied from the boat sheet and should be deleted from the chart.

(4) The submerged pile charted at latitude $30^{\circ}08.94'$, longitude $89^{\circ}31.71'$ originates with Corps of Engineers information (Chart Letter 73 of 1950). The pile was adequately investigated by an improvised wire drag and is considered disproved. It should be deleted from the chart.

(5) The obstruction, PD, charted at latitude $30^{\circ}09.25'$, longitude $89^{\circ}30.75'$ was neither proved nor disproved on the present survey and should be retained on the chart.

Attention is directed to the disposition of additional features mentioned in sections J and K of the Descriptive Report.

(6) The sunken wreck charted in latitude $30^{\circ}10.75'$, longitude $89^{\circ}31.81'$ from 1963 air photography was not verified or disproved by the present survey and should be retained on the chart.

Except for items noted above and in the Descriptive Report, the present survey supersedes the charted information in the common area.

B. Controlling Depths

The charted controlling depth notes of the Pearl River approach channel and Intracoastal Waterway are based on data by the U.S. Corps of Engineers subsequent to the date of the present survey.

C. Aids to Navigation

The charted aids to navigation along the Intracoastal Waterway and Federal Project Channel serve the purpose and mark the features intended within the common area of the present survey.

7. Compliance with Instructions

The survey adequately complies with the Project Instructions.

8. Additional Field Work

This survey is considered to be a good basic survey, and no additional field work is recommended.

Examined and Approved:

a. J. Petril
Chief
Marine Surveys Division

R. H. [Signature]
Associate Director
Office of Marine Surveys
and Maps

3900	H.A. Seron	40000	1916-17
3961	" " "	40000	1917
4000	" " "	40000	1916-17
9965	W.D. E.K. McCaffrey	40000	9965
9925	A.J. Patrick	10000	9925
9904	J.D. Boon, III	20000	9904
9970	A.J. Patrick	10000	9970
9979	G.C. Chappell	10000	9979
9200	" " "	20000	9200

