

# 9263

Diagram No. 1268-2

NOAA FORM 76-35A

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

## DESCRIPTIVE REPORT

Type of Survey ..... Hydrographic .....  
Field No. .... 742-10-3-71 .....  
Office No..... H-9263 .....

### LOCALITY

State ..... Mississippi--Louisiana .....  
General Locality .. Lake Borgne .....  
Locality ..... Campbell Outside Bayou to  
..... Pearl River .....  
..... 1971 .....  
CHIEF OF PARTY  
LT J.D. Stachelhaus.....

### LIBRARY & ARCHIVES

DATE ..... April 26, 1985 .....

9263

ACPG  
CHTS Ref. Bp 83042

11371 } TO SIGN OFF SEE  
11367SLA } "RECORD OF APPLICATION"

HYDROGRAPHIC TITLE SHEET

H-9263

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.

742-10-3-71

State MISSISSIPPI--LOUISIANA

General locality LAKE BORGNE

Locality ~~BAY PEARL RIVER~~ CAMPBELL OUTSIDE BAYOU TO PEARL RIVER

Scale 1:10,000 Date of survey 8/22/71 to 2/2/72

Instructions dated 25 October, 1968 Project No. OPR-468

Vessel Launch 1259 and Skiff 570

Chief of party Lt. J. D. Stachelhaus

Surveyed by Floyd R. Gilden

Soundings taken by echo sounder, ~~1/4" pole~~ pole \_\_\_\_\_

Graphic record scaled by Party Personnel

Graphic record checked by Party Personnel

Projected by \_\_\_\_\_ Automated plot by XYNETICS 1201 Plotter (AMC)

Soundings penciled by \_\_\_\_\_

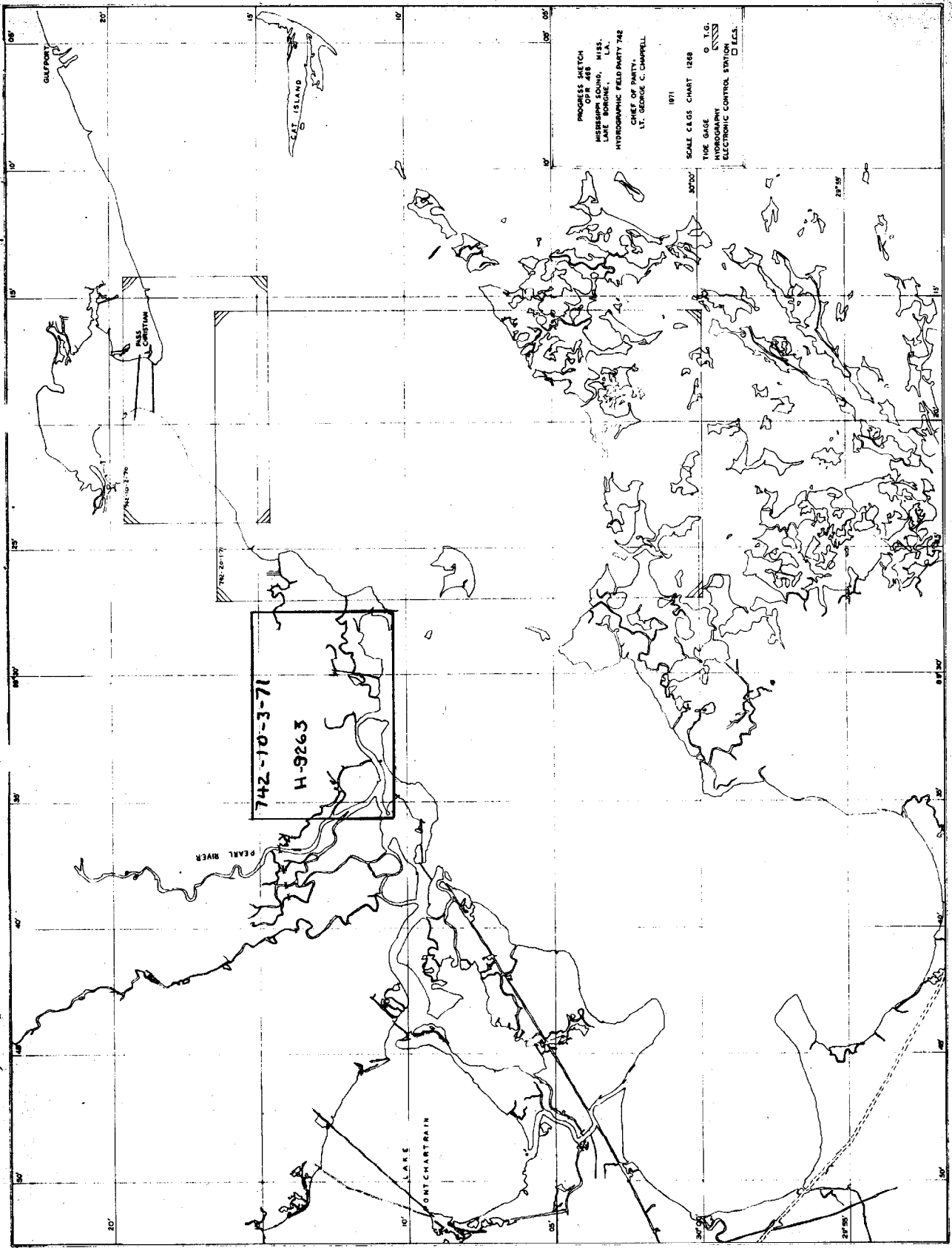
Soundings in 1/4" pole feet at MLW 1/4" pole

REMARKS: Surveyed by: F. R. Gilden, V. George, C. F. Peters, W. H. Pinner,  
M. D. Laing, R. A. Lewis, E. P. Krishner, J. S. Bradford.

Notes in the Descriptive Report were made in red during office processing.

AWOIS - 6/27/85 JAF

SURF - 6/27/85 JAF



PROGRESS SKETCH  
OF SOUNDINGS  
MADE BY  
MEMBERS OF THE  
LAKE PONTCHARTRAIN, LA.  
HYDROGRAPHIC FIELD PARTY 742  
CHIEF OF PARTY,  
LT. GEORGE C. CAMPBELL

1871  
SCALE CELS CHART 1288  
TIDE GAGE  
SOUNDING  
ELECTRONIC CONTROL STATION  
LEGS

742-10-3-71  
H-9263

GULFPORT

CAE ISLAND

LAKE CHARTRAIN

LAKE PONTCHARTRAIN

PEARL RIVER

DESCRIPTIVE REPORT

TO ACCOMPANY

H-9263, 742-10-3-71

OPR-468

SCALE: 1:10,000

Hydrographic Field Party 742

CHIEF OF PARTY:

Lt. John D. Stachelhaus

SURVEYED BY:

F. R. Gilden

\* \* \* \* \*

A. Project

Work on 742-10-3-71, Project OPR-468 was done in accordance with Project Instructions (GFN2) dated 25 October, 1968.

B. Area Surveyed

This survey includes various creeks and bayous near the mouth of the Pearl River. The area surveyed extends from  $30^{\circ} 10' 30''$  N to  $30^{\circ} 15' 00''$  N, and from  $89^{\circ} 27' 30''$  W to  $89^{\circ} 35' 30''$  W. The survey began on August 22, 1971, and was completed on February 2, 1972. No significant junctions were made with contemporary surveys.

C. Sounding Vessel

All of the work on this sheet was done using Launch 1259 (blue) with the exception of Pos. 710 to Pos. 752, which was done with Skiff 570 (red).

D. Sounding Equipment

Raytheon Fathometer, DE 723, s/n 1889 was used on Launch 1259 and DE 723, s/n 806 was used on Skiff 570. Sounding pole was used for soundings under 5 feet.

E. Smooth Sheet

The Smooth Sheet will be plotted by Atlantic Marine Center.

F. Control

Control for the entire sheet was obtained using the "See Boatsheet" method. All positions were assigned raydist values for automatic processing, using stations Red, Henderson 2 (Pos.  $30^{\circ} 18' 14.5395''$  N,  $89^{\circ} 17' 18.7193''$  W) and Green, Creole, 1966 (Pos.  $30^{\circ} 07' 31.751''$  N,  $89^{\circ} 13' 20.585''$  W).

G. Shoreline - See section 2.b of the Evaluation Report  
Shoreline details for this sheet were taken from Advance Manuscripts TP-00040, scale 1:20,000 (enlarged to 1:10,000) and TP-00041, scale 1:10,000.

H. Crosslines

Due to the nature of the survey, no crosslines were run on this sheet.

I. Junctions - See section 5 of the Evaluation Report.  
No significant junctions were made.

J. Comparison with Prior Surveys - See section 6 of the Evaluation Report.  
There were no pre-survey review items and no prior surveys for this sheet.

K. Comparison with the Chart - See section 7 of the Evaluation Report  
The largest scale chart of the area is not adequate for comparison with this boatsheet.

L. Adequacy of Survey

This survey is considered adequate for control depth charting of the surveyed bayous and creeks.

M. Aids to Navigation

There were no aids to navigation on this sheet. Various detached positions were taken on fixed bridges, piers, and bulkheads, and are listed in the sounding volumes.

N. Statistics

Positions 1 to 709 inclusive were done by launch 1259 for a total of 38.6 nautical miles sounding line. Positions 710 to 752 inclusive were done by Skiff 570 for a total of 3.5 nautical miles sounding line. The total area in square nautical miles was not computed and does not apply due to the nature of the survey.

O. Miscellaneous

Most of the creek and river bottoms in this survey are composed of a soft, muddy silt, at least several feet in thickness. Occasionally there are layers of shells close to the river banks which make the bottom considerably more solid.

The author of this descriptive report was not present during most of the actual survey, and consequently is not completely familiar with all the data observed.

P. Recommendations

At the time of this survey, the West Hancock County Harbor and Industrial Site beginning at the junction of the Pearl River and Cross Bayou, was under construction. This Harbor site was further investigated on Sheet 742-10-1-72, but was still under construction at that time. It may be desirable to conduct a complete 1:5,000 scale survey of this harbor at a later date when it is completed.

Q. References to Reports

1. Field Edit Reports for TP-00040 and TP-00041, submitted by Chief, Photo Party 61.
2. Control Report for 742-10-3-71, prepared by Photo Party 61 and submitted with Descriptive Report for 742-10-3-71.
3. HFP 742 Field Season's Reports January 1 to December 31, 1971, and January 1 to April 1, 1972(to be submitted).
4. Descriptive report 742-10-1-72, to be submitted at a later date.

Respectfully Submitted,

*Richard L. Baker*

Richard L. Baker  
LT, NOAA

APPENDIX "C"

APPROVAL SHEET TO ACCOMPANY SURVEY

H-9263 742-10-3-71

The field and office work for this survey was accomplished under LT George C. Chappell, LT John D. Stachelhaus, and LCDR Ned C. Austin.

The hydrography was done by Floyd R. Gilden, and the Descriptive Report was done by LT Richard L. Baker.

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

Approved and Forwarded,



LCDR Ned C. Austin  
Chief of Party

BOAT SHEET HFP 742 10-3-71  
SIGNAL LIST

<u>Signal No.</u>	<u>Triangulation Stations</u>	<u>Positions</u>
001	CLEAR 2, 1966	30 10 27.588✓ 89 27 46.444✓
002	DAVE 2, 1966	30 10 39.778✓ 89 31 54.450✓
008	PEAR, 1952	30 11 39.295✓ 89 32 04.943✓
 <u>Traverse Stations</u> 		
005	CAMP, 1971	30 11 26.382✓ 89330 01.763✓
010	POLE, 1971	30 10 38.945✓ 89 33 44.845✓
011	HAAS, 1971	30 12 21.646✓ 89 34 23.894✓
 <u>Intersection Stations</u> 		
006	East Pearl River Entrance Lt. #8	30 10 56.075✓ 89 31 25.690✓
009	PR 3	30 11 00.976✓ 89 33 24.268✓

*ck. JWD*



CONTROL REPORT  
BOAT SHEET HFP 742 10-3-71  
Prepared by PHOTO PARTY 61  
NATIONAL OCEAN SURVEY  
January 1972

---

CONTROL REPORT  
BOAT SHEET HFP 742 10-3-71  
Prepared by  
Photo Party 61  
National Ocean Survey  
January 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 the necessary Radist calibration points and signals for visual control and Radist control on Boat Sheet HFP 742 10-3-71. Boat sheet preparation was not performed by this party.

3. LOCALITY OF CONTROL

Lake Borgne, Pearl River, and surrounding bayous in the vicinity of East Pearl River to Lower Point Clear.

4. CONTROL

Hydrographic control consists of three recovered triangulation stations, three traverse stations and two inter-section stations. There were no photo-hydro stations used for control on this sheet.

5. RECOMMENDATIONS

None.

6. DISPOSITION OF DATA

Field records and computations for signals 005 and 006 (see signal list) will be transmitted to HFP 742 with the control report for Boat Sheet 10-2-71. All field records and computations for the remaining stations will be transmitted to Photogrammetry Branch, AMC, Attn: CAM 51 under the heading PH 6902 Lower Pearl River Traverse.

(cont.)

7. ATTACHED

A signal list is attached which includes calibration stations, visual signals, and Radist antenna positions used on this sheet.

Respectfully Submitted,



Richard D. Olson  
LI NOAA  
Chief, Photo Party 61

LI

9/3/75

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: September 22, 1971-February 2, 1972

HYDROGRAPHIC SHEET: H-9263

OPR: 468

Locality: Lake Borgne near the entrance to Pearl River.

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

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

Remarks: Zone direct.

*James R. Hubbard*  
for Chief, Tides Branch

GEOGRAPHIC NAMES

H-9263

Name on Survey	Source of Information										
	A	B	C	D	E	F	G	H	K		
ANSLEY											1
BALDWIN LODGE											2
BRUSH BAYOU											3
BRYAN BAYOU											4
CAMPELL ISLAND											5
CAMPELL INSIDE BAYOU											6
CAMPELL LAGOON											7
CAMPELL OUTSIDE BAYOU											8
CROSS BAYOU											9
ENGLISH LOOKOUT											10
GRAND PLAINS											11
GRAND PLAINS BAYOU											12
HERON BAY											13
HERON BAY BAYOU											14
JACKSON LANDING											15
JOHN CANE BAYOU											16
KING BEE BAYOU											17
LAKE BORGNE (title)											18
LOUISIANA (title)											19
MISSISSIPPI (title)											20
MULATTO BAYOU											21
PEARL RIVER											22
PEARL RIVER ISLAND											23
PETERS DITCH											24
POLECAT BEND											25

GEOGRAPHIC NAMES

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										
REDFISH BAYOU											1
WHITES BAYOU											2
WOODY BAYOU											3
											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25

Approved:

*Charles E. Harrington*  
Chief Geographer - N/C6243

29 DEC 1984

MOA 23-45-85 *rw*

LETTER TRANSMITTING DATA

DATA AS LISTED BELOW WERE FORWARDED TO YOU BY (Check):

- ORDINARY MAIL       AIR MAIL  
 REGISTERED MAIL       EXPRESS  
 GBL (Give number) \_\_\_\_\_

TO:

CHIEF, DATA CONTROL SECTION  
HYDROGRAPHIC SURVEYS BRANCH, N/CG243  
NATIONAL OCEAN SERVICE, NOAA  
ROCKVILLE, MD 20852

DATE FORWARDED

APR 16, 1985

NUMBER OF PACKAGES

2 (1 TUBE 1 BOX)

NOTE: A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

H-9263 (742-10-3-71) OPL-468  
MISSISSIPPI - LOUISIANA, LAKE BORGNE  
CAMPBELL OUTSIDE BAYOU TO PEARL RIVER

Pkg #1 (TUBE)

- ✓1 SMOOTH SHEET
- ✓1 SMOOTH POSITION OVERLAY
- ✓2 SMOOTH EXCESS OVERLAYS
- ✓1 FINAL FIELD SHEET
- ✓1 ORIGINAL DESCRIPTIVE REPORT

Pkg #2 (BOX)

- ✓4 Sounding Volumes
- ✓1 ENVELOPE CONTAINING DATA REMOVED FROM DESCRIPTIVE REPORT.
- ✓1 ENVELOPE CONTAINING SUPPLEMENTAL DATA FROM PRINTOUTS
- ✓1 CANIER CONTAINING FINAL CONTROL PRINTOUT, FINAL POSITION PRINTOUT, FINAL SOUNDING PRINTOUT AND L-FILE PRINTOUT.
- ✓1 ACCORDIAN FILE CONTAINING ECHOGRAMS AND FIELD DATA PRINTOUTS FOR:
  - LAUNCH 570: -ID: 033
  - LAUNCH 1259: -ID 265, 266, 267, 270, 271, 285, 292
  - 308 AND 312.

FROM: (Signature)

*D. B. MacFarland*

FOR DAVID B. MACFARLAND, LCDR, NOAA

Return receipted copy to:

HYDROGRAPHIC SURVEYS BRANCH, N/MOA232  
ATLANTIC MARINE CENTER  
NOAA - NATIONAL OCEAN SERVICE  
439 WEST YORK STREET  
NORFOLK, VA 23510

RECEIVED THE ABOVE  
(Name, Division, Date)

Dwayne S. Clark  
April 26, 1985  
N/CG243

**HYDROGRAPHIC SURVEY STATISTICS**  
**REGISTRY NO.:** H-9263

Number of positions	<u>755</u>
Number of soundings	<u>3143</u>
Number of control stations	<u>8</u>

	<u>TIME-HOURS</u>	<u>DATE COMPLETED</u>
Preprocessing Examination	<u>64</u>	<u>02/02/72</u>
Verification of Field Data	<u>224</u>	<u>09/19/84</u>
Quality Control Checks	<u>58</u>	
Evaluation and Analysis	<u>38</u>	<u>02/16/85</u>
Final Inspection	<u>6</u>	<u>02/23/85</u>
<b>TOTAL TIME</b>	<u>390</u>	
Marine Center Approval		<u>02/27/85</u>

Transmittal letter of survey and survey records will be included in the Descriptive Report to identify the records accompanying the survey.



ATLANTIC MARINE CENTER  
EVALUATION REPORT

SURVEY NO.: H-9263

FIELD NO.: 742-10-3-71

Mississippi -- Louisiana, Lake Borgne, Campbell Outside Bayou to Pearl River

SURVEYED: 22 September 1971 through 2 February 1972

SCALE: 1:10,000

PROJECT NO.: OPR-468

SOUNDINGS: Raytheon DE-723

CONTROL: See Boat Sheet  
Fathometer, Sounding Pole

Chief of Party.....J. D. Stachelhaus

Surveyed by.....F. R. Gilden  
.....J. S. Bradford  
.....C. F. Peters  
.....V. George  
.....W. H. Pinner  
.....M. D. Laing  
.....E. P. Krishner  
.....R. A. Lewis

Automated Plot by.....Xynetics 1201 Plotter (AMC)

1. INTRODUCTION

- a. No unusual problems were encountered during office processing.
- b. Notes in red were made in the Descriptive Report during office processing.

2. CONTROL AND SHORELINE

- a. The control is adequately discussed in section F and Q of the Descriptive Report.

Numerous positions were force plotted. This was done during office processing.

- b. West of Longitude 89°30'00"W, the shoreline originates with 1:20,000 scale final reviewed Photogrammetric Manuscript TP-00040 of 1969 and 1972. The 1:20,000 scale manuscript was enlarged and applied to the smooth sheet using a Kargl reflecting projector. East of Longitude 89°30'00"W, the shoreline originates with 1:10,000 scale final reviewed Photogrammetric Manuscript TP-00041 of 1969 and 1971.

In the vicinity of Latitude 30°11'00"N, Longitude 89°32'42"W, the hydrographer made shoreline changes in red on the final field sheet for an area being dredged. The final reviewed Photogrammetric

Manuscript has a later date and agrees with the hydrographer's revisions; the shoreline was applied to the smooth sheet in black from the reviewed manuscript.

The concrete bulkhead in the vicinity of Latitude 30°11'03"N, Longitude 89°30'05"W, in red on the hydrographer's final field sheet was drawn in black on the smooth sheet.

### 3. HYDROGRAPHY

a. Soundings at crossings agree within the criteria stated in sections 4.6.1 and 6.3.4.3 of the Hydrographic Manual.

b. The standard depth curves could not be drawn in their entirety due to lack of information and the nature of the survey area.

c. Development of the bottom configuration was limited because the majority of the area surveyed did not lend itself to more than single line hydrography in narrow bayous.

### 4. CONDITION OF SURVEY

The smooth sheet and accompanying overlays, hydrographic records and reports are adequate and conform to the requirements of the Hydrographic Manual with the following exceptions:

a. No bottom samples were taken as required by sections 1.6.3 and 4.7.1 of the Hydrographic Manual and section 13 of the Project Instructions. A discussion of the bottom composition is found in section 0 of the Descriptive Report, page 2.

b. No elevations were given for the pier ruins in Latitude 30°12'44"N, Longitude 89°29'27"W, and the two (2) private markers in the vicinity of Latitude 30°11'56"N, Longitude 89°31'03"W.

c. The pier ruins in Latitude 30°12'44"N, Longitude 89°29'27"W were not drawn in red on the final field sheet. The ruins were properly delineated on the smooth sheet during office processing.

### 5. JUNCTIONS

H-9262 (1971-72) to the south  
H-9279 (1972) to the south and west

The smooth sheets for the above surveys are archived at Headquarters and a standard junction was not made. A comparison between H-9262 (1971-72) and H-9279 (1972) and the present survey shows excellent agreement with soundings in the junctional areas with the following exceptions:

a. H-9279 (1972) soundings in the vicinity of Latitude 30°12'33"N, Longitude 89°35'24"W, are two (2) to fourteen (14) feet deeper than the present survey depths. This discrepancy can be attributed to the cross

channel being dredged after hydrography was completed on the present survey.

b. The cable across the channel in the vicinity of Latitude 30°13'30"N on the present survey is not shown on H-9279 (1972). The hydrography on H-9279 (1972) continues beyond the cable.

6. COMPARISON WITH PRIOR SURVEYS

There are no prior National Ocean Service surveys available within the areas of the present survey.

7. COMPARISON WITH USC&GS Chart 1268 (13th Ed., Dec 12/70)

a. Hydrography

There is no charted hydrography within the present survey area.

The hydrographer located an uncharted wooden bulkhead at Latitude 30°11'33.5"N, Longitude 89°33'40.5"W. It is recommended that the bulkhead be charted as shown on the smooth sheet.

b. Aids to Navigation

There are no fixed or floating aids to navigation within the present survey area.

8. COMPLIANCE WITH INSTRUCTIONS

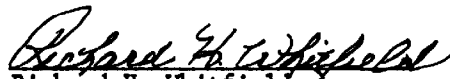
Except as listed elsewhere in this report, this survey adequately complies with the Project Instructions.

9. ADDITIONAL FIELD WORK

This is an adequate basic survey; no additional field work is recommended.



Franklin L. Saunders  
Cartographic Technician  
Verification of Field Data



Richard H. Whitfield  
Cartographic Technician  
Evaluation and Analysis




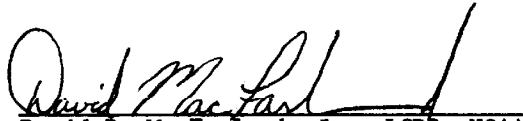
Lerby G. Cram  
Supervisory Cartographic Technician  
Verification Check

Inspection Report  
H-9263

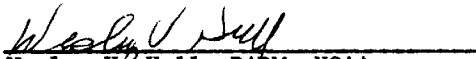
The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disproval of charted data. The digital data have been completed and all revisions and additions made to the smooth sheet during survey processing have been entered in the magnetic tape record for this survey. Final control, position, and sounding printouts of the survey have been made. The survey complies with National Ocean Service requirements except as noted in the Evaluation Report. The survey records comply with NOS requirements except where noted in the Evaluation Report.

Inspected

  
Robert G. Roberson  
Chief, Evaluation and Analysis Group  
Hydrographic Surveys Branch

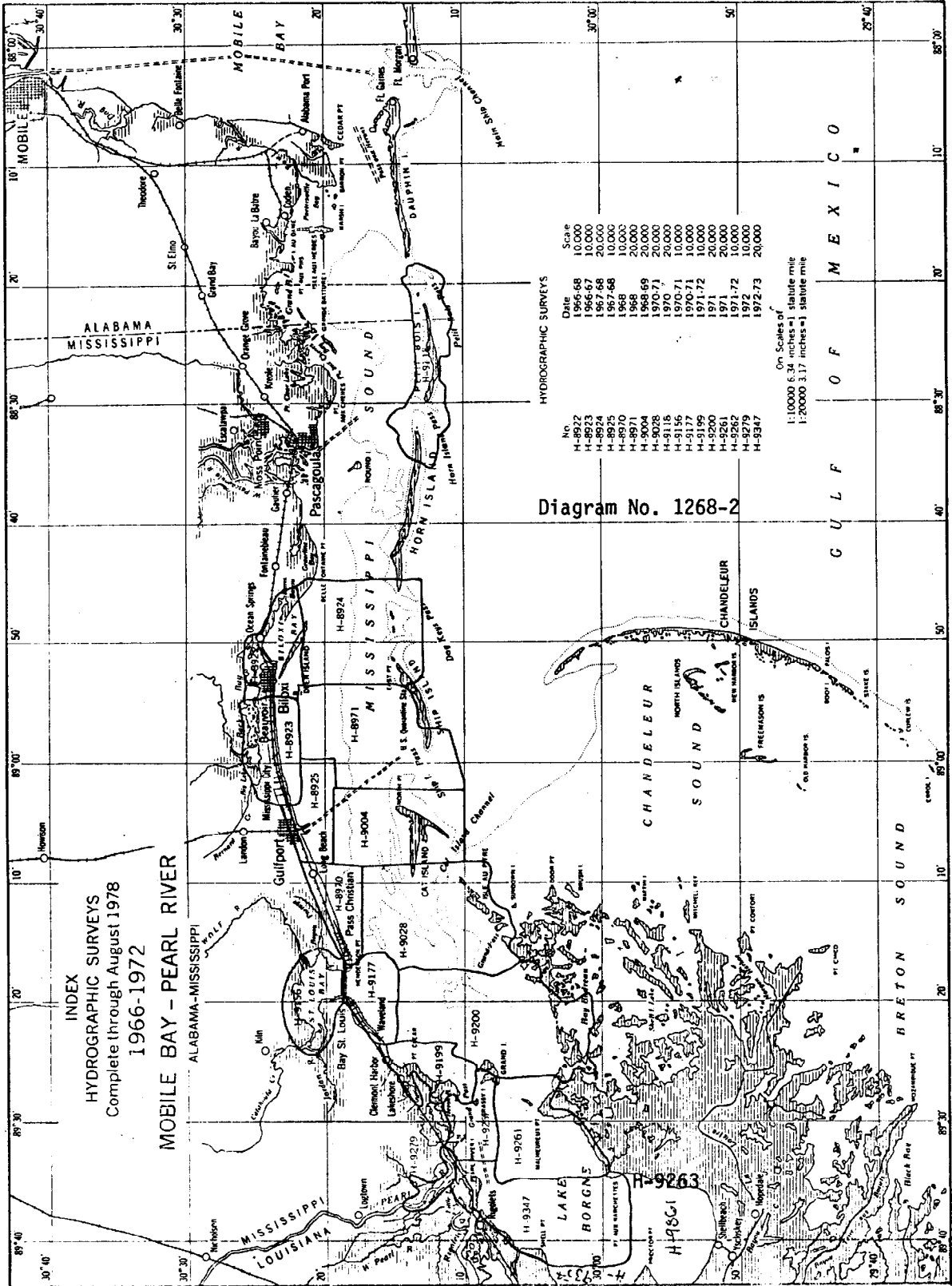
  
David B. MacFarland, Jr., LCDR, NOAA  
Chief, Hydrographic Surveys Branch

Approved February 27, 1985

  
Wesley V. Hull, RADM, NOAA  
Director, Atlantic Marine Center

DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Survey  
Rockville, Maryland

Hydrographic Index No. 86 E



HYDROGRAPHIC SURVEYS

No.	Date	Scale
H-8922	1966-68	10,000
H-8923	1967-68	20,000
H-8924	1967-68	20,000
H-8925	1967-68	10,000
H-8970	1968	20,000
H-8971	1968	20,000
H-9004	1968-69	20,000
H-9028	1970-71	20,000
H-9118	1970-71	20,000
H-9122	1970-71	10,000
H-9177	1970-71	10,000
H-9199	1971-72	10,000
H-9200	1971	20,000
H-9251	1971	20,000
H-9262	1971-72	10,000
H-9279	1972	10,000
H-9347	1972-73	20,000

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

Diagram No. 1268-2

INDEX  
HYDROGRAPHIC SURVEYS  
Complete through August 1978  
1966-1972

MOBILE BAY - PEARL RIVER

