# 9103 A & B

GEM 9/21/98

Diagram No. 1267-2

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. 742-20-2-70  Office No. H-9103
LOCALITY
StateMississippi
General Locality Mississippi Sound
Locality Ship Island
19 70
CHIEF OF PARTY LT. M.E.Harbert
LIBRARY & ARCHIVES
DATEJuly 12, 1984

☆U.S. GOV. PRINTING OFFICE: 1978-869-441

SMETIG. FUR APPELLETION IN OFF 10 IN OLD IN FMY 8252

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FORM	C&GS-537	

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

REGISTER NO.

#### HYDROGRAPHIC TITLE SHEET

H-09103 [see note below.]

XWW 9/20/91

filled in as completely as possible, when the sheet is forwarded to the Office.  H-8971 AD.WK.
State Mississippi
General locality Mississippi Sound
LocalityShip Island
Scale 1:20,000 Date of survey 2/24/70-5/27/70 25 Oct.1968,3 Sept. 1969
25 Oct.1968,3 Sept. 1969 Instructions dated 30 Oct.1969, 17 Nov.1969 Project No. OPR 468
Vessel H.F.P. 742
Chief of party Lt. Mark E. Harbert
Surveyed by Lt.jg Efrem R. Krisher
Soundings taken by echo sounder, hand lead, pole
Graphic record scaled by Party Personnel
Graphic record checked by Party Personnel
Protracted by Automated plot by
Soundings penciled by
Soundings in fathfolis feet at MLW MALA
REMARKS:
STANDANDS CE'D 8-1-84 C.Log
8-1-84 C. Loy
AWOIS/SURF MSM 7/29/87
9/20/91 The absence of a registry number in the appropriate block of
the Hydrographic Title Sheet and the inclusion of copies of the
review reports for H-08924 and H-08971 caused some confusion  regarding the relevant survey work addressed in this D.R. It is  concluded that this DR text addresses the survey work assigned  XWW
registry number H-09103. The copies of the review reports for
H-08924 and H-08971 were retained in this DR for reference purposes only. Survey H-09103 is an unverified survey (HDEG category 2).
X. W. W. 9/20/91

#### DESCRIPTIVE REPORT

#### TO ACCOMPANY

Hydrographic survey H-8971 Ad. Wk.

#### Project OPR-468

SCALE:

1:20,000

Hydrographic Field Party 742

CHIEF OF PARTY:

Lt. Mark E. Harbert

SURVEYED BY:

Lt.jg Efrem R. Krisher

A. PROJECT

Work on Project OPR-468 was executed in accordance with Project Instructions dated 25 October 1968, Supplemental Instructions dated 3 September 1969, 30 October 1969 and 17 November 1969.

B. AREA SURVEYED
This survey is in the area of Ship Island. It covers the area from 88°52' to 89°00' on the north side of Ship Island and 88°54' to 89°00' on the south side of Ship Island.

C. SOUNDING VESSELS

The following vessels were used to obtain hydrographic data.

Vessel Identifying Color Launch 1247 Red Skiff 570 Purple Party Personnel Walking Green

Raytheon Fathometer, DE-723, Serial No. 1885 was used on Launch 1247. All soundings taken on Skiff 570 and by party personnel walking were by sounding pole. See Appendix "B" of this report for corrections to echo soundings.

E. SMOOTH SHEET

The smooth sheet will be plotted at Atlantic Marine Center, Norfolk Va., using automated data processing punched tape produced by HFP-742 personnel.

#### F. CONTROL

Primary horizontal control was obtained by Raydist distance arcs. The zero foot curve was obtained by the

standard visual three-point sextant fix method.

The Raydist was calibrated each day by coming alongside the calibration points as closely as possible, usually within one to two meters. After calibrating, the launch circled the calibration point and then returned for a check. The calibration point used and calibration data is at the heginning of the Raydist Saw-Tooth Records. The Raydist was aso calibrated after the completion of hydrography for the day and these results are at the end of the Raydist Saw-Tooth Record.

All Raydist and sounding data was recorded on a trial "Position and Sounding Record" in place of sounding volumes. On the "Position and Sounding Record", the columns headed red and green refer to the red Raydist station and green Raydist station readings on the fix. Everything else is self-explanatory. Visual data was recorded in the sounding volume.

After completing the survey, a new position was obtained for calibration point"B", changing the Raydist values by one tenth of a lane on both red and green. This was corrected for in the corrector tape for the days pt."B" was used.

Special calibration checks were made behind the island and close to shore. The results of these checks will be in a supplementary report.

See Appendix "A" of this report for a complete list of control.

#### G. SHORELINE

Shoreline on the boatsheet was taken from pre-Hurricane Camille manuscripts.

#### H. CROSSLINES

Crosslines were run at 10% of the regular system of lines. Crosslines were in good agreement.

#### I. JUNCTIONS

Junction was made on the north south and west with prior survey H-8971, scale 1:20,000,1966-1968 and on the east with contemporary survey H-8924 Ad.Wk., scale 1:20,000,1969-1970. Junctions are in good agreement and depth curves can be drawn adequately.

#### J. COMPARISON WITH PRIOR SURVEY

A comparison was made with survey H-8971, scale 1:20,000, 1966-1968. Actual tides were applied to boat sheet soundings. Velocity and settlement and squat corrections were not applied to boat sheet soundings.

Good agreement between soundings wassestablished except in some cases under six feet. Depth curves are in good agreement with the exception of the 18 foot curve at Lat. 30°13.3' Long. 88°55.5' which receded westward approximately 500 meters and at the cut in the island caused by Hurricane Camille.

Items located by prior survey in the vicinity of this survey were located and found as described below.

FEATURE	POSITION	REMARKS
Pipe	30°14.08° 88°53.81°	12" iron pipe bares 2.0 ft. at M.L.W.
Rocks	30 <sup>0</sup> 13.76 <sup>1</sup> 88 <sup>0</sup> 53.91 <sup>1</sup>	Rock piles baring 4 ft. at M.L.W. Rocks are in a NS line approximately 20m long. DP is at southern end.
Rock	30 <sup>0</sup> 13,77¹ 88 <sup>0</sup> 53.90¹	Submerged rock 1.6 feet below M.L.W.
Pipe	30 <sup>0</sup> 14.78' 88 <sup>0</sup> 52.79'	3" marker pipe baring 2.1 ft. at M.L.W. Leaning 600 to the NW.
Pipe	30°14.85° 88°52.79°	3" pipe bare 0.4 ft. at M.L.W. Leaning 60° to the NE.
Pipe	30°14 <b>.38'</b> 88°53 <b>.62'</b>	3" marker pipe bares 7.6 ft. at M.L.W. Leaning 45° to the S.

J. COMP	ARISON WITH CHART	(CONT'D)
Pipe	30 <sup>0</sup> 14.481 88 <sup>0</sup> 53.631	3" marker pipe bares 10.6' at M.L.W.
Pipe	30 <sup>0</sup> 14.361 88 <sup>0</sup> 53.69	4" pipe covered 3.4 ft. at M.L.W. Leaning S
Obstructi	on 30 <sup>0</sup> 14.29 <sup>1</sup> 88 <sup>0</sup> 53.97 <sup>1</sup>	Unknown hang, possible tree. Clear to 8.4 feet below M.L.W.
Pipe	30°14.061 88°53.801	3" pipe bares 1.6 ft. at M.L.W. Leans 60° to the W.
Iron Rod	30 <sup>0</sup> 13.10† 88 <sup>0</sup> 55.30†	Remains of triangulation station Gull. 1" iron rod; Bares 1 ft. at M.L.W.
Piling	30°14.181 88°53.831	Piling was searched for visually. No evidence was found.
Piling	30 <sup>0</sup> 12 <b>.71</b> 1 88 <sup>0</sup> 58.381	Signal Ann. Was not seen while surveying.
Shoal	30°12.70° 88°59.75°	The 4 foot shoal has deepened to a least depth of 9 feet.
Deepening	30 <sup>0</sup> 12.62' 88 <sup>0</sup> 59.31	A 35 foot area has deepened to a maximum depth of 45 feet.

: .

N WITH CHART <b>Bosition</b>	Remarks	
30°12.5 88°59.1	The wreck was not searched for. It had been thoroughly searched for and had been recommended for deletion by survey H-8971.	ı
30°131 88°561	The spit has broken off from the main part of the island. See Vol. I pg. 31	
-4-		
	30°12.5 88°59.1 30°13' 88°56'	Remarks  30012.5  The wreck was not searched for. It had been thoroughly searched for and had been recommended for deletion by survey H-8971.  The spit has broken off from the main part of the island. See Vol. I pg. 31

#### K. COMPARISON WITH CHART (CONT'D)

Pier 30012.841 The position is the end of 88058.301 pier constructed over the remains of old pier which was destroyed by Hurricane Camille.

The following features are recommended for charting.

4 Pilings	30°12.66' 88°59.07'	Center of 4 pilings baring 4.8 ft. at M.L.W.
Remains of day beacon	30 <sup>0</sup> 12.66' 88 <sup>0</sup> 59.05'	Remains of day beacon bare $\mu^{2}$ 3.4 ft. at M.L.W.
Pilings	88 <sup>0</sup> 58.321 30 <sup>0</sup> 12.691	Bares 3.4 ft. at M.L.W. 2nd & piling Ø 030°10m.

The above comparison was made with Chart 876SC 5th Edition, dated March 1970.

#### L. ADEQUACY OF SURVEY

This survey is adequate to supercede prior surveys for charting purposes.

Μ.	വസ വ	ιሞΤΟ	TICS
171 .	OIF	*TTO	TIOO

Launch 1247 Skiff 570 Walking	No. of 897 37	Pos.	Miles of 191.3 2.2	Sdg. Line
Totals Total Area	975 Surveyed	9.5 sq.mil	193.5 Les	

## N. AIDS TO NAVIGATION

Aids to Navigation in the area of the survey are maintained by the United S ates Coast Guard. No D.P.s on aids to mavigation were taken due to the Coast Guard being in the area at the time of survey replacing and repairing these aids due to Hurricane Camille.

#### 0. Miscellaneous

On Launch 1247 a modified wire drag was used to locate submerged objects. A 100 foot chain between two trawl boards was used in this operation

AUTOMATED DATA PROCESSING

All data was taped by party personnel in the H.F.P. 742 field office.

There are no positions 872-899 and 906-999. Positions 6000-6078 include both skiff 570 and walking by party personnel as there is no difference in the processing.

A copy of the TRA/TI printout is included

with this report.

Respectfully submitted

Lt.jg Efrem R. Krisher

# APPENDIX "A"

#### List of Control

Raydist Station	Dave, 1969
Lat.	30 <sup>0</sup> 22'13.050"
Long.	88 <sup>0</sup> 46'50.860"
Raydist Station Lat.	Gulf, 19696 30°22'01.807" 89°05'06.400"

Third order positions determined by Photo Party 61.

Raydist Calibration Points	
Station B	Pipe Distance to Dave 74,264.16ft. Distance to Gulf 70,590.68ft.
Station C	Pipe Distance to Dave 54,796 ft. Distance to Gulf 78,208 ft.
Station F	Gulf Port Dir. Light Distance to Dave 80,907.66ft. Distance to Gulf 58,130.81ft.

# List of Signals

# Triangulation Stations

110	Ship Island Tank 3 1966
140	Stool 1970
150	Hip Abandoned Lighthouse
	Ship Island Lighthouse 1902
165	Signal 1966

# APPENDIX "A" (CONT'D)

# Photo-Hydro Signals

160 135 190 180 1 <b>7</b> 0		Day ERG BUS ART POR	T=13032 11 11 11
	Hydro Signals	i	
155		Vol.	I pg. 18,24
Signal	Lat.	L	ong.
110 140 150 165 160 135 190 180	30°13'1354. 30 12 1525. 30 12 1389. 30 12 1174. 30 12 1198. 30 13 336. 30 12 888. 30 12 1516. 30 14 66.	44 8 95 8 869 8 83 8 26 8 8	8°53'1155.36m 8 56 8857.18 8 57 1547.01 8 59 16.85 8 59 03.4 8 56 613.91 8 57 1209.40 8 57 413.6 8 59 03.29
155	150		147 <sup>0</sup> 35 '

80°251

150 160 170

APPENDIX "B"

# Correction to Echo Soundings

	To Depth	Correction
Table 1	in feet	in feet
Launch 1247	5.8	-0.2
Fath. #1885	19.4	0.0
55 thru 104 day	29.0	+0.2
	32.8	0.4
	36.0	0.6
	50.0	0.8

# Settlement & Squat Correction for Launch 1247

Depth(ft.) All Depths	R.P.M. 1400	Correction(ft.)
0.0-7.0	1800 1800	+0.4
7.0-50.0	1800	0.2

#### APPENDIX "C"

#### Tidal Note

Gage Location

Pt. Cadet, Biloxi Mississippi Lat. 30023.381 Long. 88051.451

Gage Type: Portable, pressure bubbler gage

M.L.W. corresponds to 2.5ft. Staff:

on staff.

Corrections:.

No time or height corrections were applied to the results obtained from the gage in reducing soundings.

90<sup>th</sup> meridian time was used at this tide station

#### APPENDIX "D"

APPROVAL SHEET TO ACCOMPANY

Hydrographic Survey H-8971 Ad. Wk.

The field and office work was accomplished under my supervision.

The hydrography and descriptive report was done by Lt.jg Efrem R. Krisher.

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

#### OFFICE OF MARINE SURVEYS AND MAPS

#### MARINE CHART DIVISION

#### HYDROGRAPHIC SURVEY REVIEW

#### REGISTRY NO. H-8924

FIELD NO. HFP 742-20-2-66

AREA: Mississippi, Mississippi Sound, Approaches to Biloxi Bay

SURVEYED: January 12, 1967 - March 5, 1968

SCALE: 1:20,000

PROJECT NO: OPR-468

SOUNDINGS: DE 723 Depth Recorder
Sounding Pole and Lead
Line

CONTROL: Sextant Angles on Shore Signals

#### 1. Description of the Area

This survey is located in Mississippi Sound, southeast of Biloxi, Mississippi and includes Biloxi East Channel, Dog Keys Pass, and Little Dog Keys Pass.

The bottom is generally flat and slopes gently to the south, except in the southern portion of the survey where sand bars with least depths of two feet between Ship and Horn Islands, and two natural passes with maximum depths of 35 and 37 feet through these bars provide a very irregular and changeable bottom.

The predominate bottom characteristics are mud and sand.

# 2. Control and Shoreline

The origin of control is adequately covered in Part F of the Descriptive Report.

The shoreline originates with reviewed photogrammetric Manuscripts T-11814, T-11815, T-13033, T-13034 and T-13035 of 1966-67.

#### 3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves are adequately delineated.
- C. The development of the bottom configuration and the determination of least depths are considered adequate.

#### 4. Condition of the Survey

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

- A. A holiday exists on the survey in lat. 30°20.2', long. 88°49.3'. Several soundings have been carried forward from H-4021 (1917) to partially fill this holiday.
- B. Two hydrographic signals, Bat and Joe, falling in the water area, have not been described but are assumed to be hydrographic buoys.

#### 5. Junctions

Adequate junctions were made with H-8650 (1962) and H-8651 (1962) on the east. Junctions with H-8971 (1968) on the west and H-8922 (1966) on the north will be considered in the reviews of those surveys. No contemporary surveys junction with the present survey on the south, however, survey depths are in general harmony with charted depths at the southern limit of the present survey.

## 6. Comparison with Prior Surveys

A. H-430 (1854) 1:20,000 H-489 (1855) 1:20,000 H-4021 (1917) 1:40,000

Comparison of the prior and present surveys reveals major changes throughout the survey area. The western tip of Horn Island has accreted about two and one quarter miles; Ship Island has migrated westerly about half a mile; and the southern tip of Deer Island has eroded more than half a mile since the earliest survey.

The area between Ship and Horn Island, consisting of sand bars and two deep passes through these bars into the Gulf, has changed radically with each survey because of continual shifting of the sand bars.

The area between the mainland of Ship and Horn Islands is now one to two feet deeper than the earliest surveys. Between 1854 and 1917 there was a general deepening trend throughout this area. This trend changed after the 1917 survey, evidently because of extensive dredging. Very little change occurred since that time except in the vicinity of East Biloxi Channel where shoaling of one to two feet has occurred.

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

#### 7. Comparison with Charts

374-SC (Latest print date October 14, 1972) 876-SC (Latest print date September 2, 1972)

#### A. Hydrography

The charted hydrography originates with the previously discussed surveys which require no further consideration, supplemented by information from the boatsheet (Bp 74010) and the unverified smooth sheet of the present survey.

Hydrography subsequent to Hurricane Camille in the vicinity of Ship and Horn Islands (Bp 79211) was applied to the chart. Information from this and later date aerial photography (1969) was used to revise the charted hydrography and shoreline and should be retained on the chart.

Attention is called to the following:

- (1) The wreck charted in Lat. 30°15.60' long. 88°48.80', from Notice to Mariners 16 of 1970 subsequent to the date of the present survey, should be retained on the chart.
- (2) The following items charted from Chart Letter 1593 of 1967, subsequent to the date of the present survey, should be retained on the chart:
  - a. The sunken wreck PA in Lat.  $30^{\circ}14.15$  Long.  $88^{\circ}49.85$

- b. The pole in Lat. 30°14.79' Long 88°49.98'
- c. The pole in Lat. 30°14.51' Long. 88°49.93'
- d. The submerged pipe in Lat. 30°14.60' Long. 88°49.45'
- e. The pole in Lat. 30°14.93' Long. 88°49.21'
- (3) The two submerged wrecks charted in approximate latitude 30 18.15', longitude 88 45.78' from H.O.N. to M. 32/66, 34/68, 30/70, and LNM 31/71 appear to be two different positions for the same wreck. It is recommended that the present survey position be used to chart this wreck.
- (4) The stranded wreck charted in Lat. 30°21', Long 88°50' from Notice to Mariners 17 of 1967 has been refloated and removed according to local information acquired by the hydrographer. An investigation of the area revealed no remains. This wreck should be deleted from the chart.
- (5) The pile charted in Lat. 30°20.89' Long. 88°45.05' originates with the boatsheet of H-8924 (1966) on which a zero sounding was mistaken for a pile. This pile symbol should be deleted from the chart.
- (6) The <u>islets</u> charted in Lat. 30°20.78' Long. 88°45.10' from 1963 air photos (Bp 98133) prior to the present survey neither appear on T-11815 (1966-67) nor are mentioned by the hydrographer and should be deleted from the chart.
- (7) The pipe located on the present survey in lat. 30°15.16', long. 88°48.52' should be charted.

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

#### B. Controlling Depths

The charted controlling depth notes of Biloxi Bay Channel are based on data furnished by the U.S. Corps of Engineers subsequent to the date of the present survey and supersede the present survey information.

#### C. Aids to Navigation

Many of the aids to navigation have been established or relocated subsequent to the date of the present survey.

The presently charted aids adequately mark the features intended.

## 8. Compliance with Instructions

This survey adequately complies with the project instructions.

# 9. Additional Field Work

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

Examined and Approved:

Chief, Marine Chart Division Associate Director, Office of Marine Surveys and Maps

#### OFFICE OF MARINE SURVEYS AND MAPS

#### MARINE SURVEYS DIVISION

#### MODIFIED HYDROGRAPHIC SURVEY REVIEW

#### REGISTRY NO. H-8971

FIELD NO. HFP-742-20-1-68

Mississippi, Mississippi Sound, Ship Island Pass and Vicinity

SURVEYED: March 18 - May 28, 1968

SCALE: 1:20,000

SOUNDINGS: DE-723 Depth Recorders,

Lead Line, and Sounding

Pole

PROJECT NO.: OPR-468

CONTROL: Sextant Fixes on

Shore Signals and

Buoys

 Chief of Party
 A. J. Patrick

 J. D. Boon III

 Surveyed by
 R. A. Lewis

 K. A. Boe

 Automated Plot by
 Calcomp-618 (AMC)

 Verified by
 M. W. Johnson

C V Muses

Cursory inspection made--survey G. K. Myers processing considered complete ...... May 17, 1976

#### 1. Control and Shoreline

The origin of control is adequately described in part F of the Descriptive Report.

The shoreline originates with final reviewed photogrammetric manuscripts T-13032 (1966-68), T-13033 (1966-67), and T-13034 (1966-67).

#### 2. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves are adequately delineated. The 3-foot depth curve was added to more adequately delineate bottom configuration.
- C. The development of bottom configuration and determination of least depths is considered adequate.

# Condition of the Survey

The sounding records, plotting, various automated printouts, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instruction Manual - Automated Hydrographic Surveys.

## 4. Junctions

Adequate junctions were effected with H-8924 (1967-68) on the east, H-8922 (1966-68) on the northeast, H-8923 (1966-68) on the north, H-8925 (1967-68) on the northwest and H-9004 (1968-69) on the west.

# 5. Comparison with Prior Surveys

Α.	H-194 H-430 H-488	(1848) (1854) (1855) (1902)	1:20,000 1:20,000 1:20,000 1:20,000
	T-2116	(1902)	1.20,000

These early surveys, which no longer serve as a source of present charted soundings, fall in the area of the present survey but are not discussed in the review.

B. H-4000 (1917) 1:40,000 H-4021 (1917) 1:40,000

The prior surveys taken together cover the entire area of the present survey and are prior to any alterations from dredging and spoiling created by Federal Channel Projects. In general, the bottom configuration has essentially remained the same except in those areas of manmade improvements. In addition, extensive shoreline differences in the area of Ship Island have occurred. The eastern part of the island has migrated about 200 meters northward and is presently about half its former size in width. The western end of the island has shifted about 250 meters southward and has accreted about 600 meters westward. These shoreline changes are considered to have been caused by wind and sea conditions, especially during storms.

Depths southwest of the end of Ship Island have shoaled about 6-15 feet and depict a general slope from the accreted shore in an area where depths of 30-35 feet existed.

Present soundings in the channel at Ship Island Pass are about 10-15 deeper than prior depths. This channel leads into Gulfport Channel.

With the addition of soundings brought forward from H-4000 and H-4021, the present survey is adequate to supersede the prior surveys within the common area.

 Comparison with Chart 876-SC (11372), 9th Edition, June 1, 1974 Chart 1267 (11373), 20th Edition, December 7, 1974

#### A. <u>Hydrography</u>

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by partial application of the present survey, some adjoining contemporary surveys, and additional field work of 1969-70 through boat sheet information (Bps. 74010, 74616, 74617, 76253, 79211, 81127, and CL-1372/72) and the verified smooth sheets of the present surveys. Many soundings appear on the chart from a prior 1967 Corps of Engineers condition survey (Bp. 72930) and subsequent 1968-74 Corps of Engineers condition and after-dredging surveys (Bps. 73538, 87566, 88220, and 88221).

Attention is directed to the following:

- (1) Items indicated on Bp. 91880 by the reviewer as having been charted subsequent to the date of the present survey, supersede the survey information and should be retained on the chart.
- (2) The <u>submerged pipe (PSI # 6-1)</u> charted at latitude 30°13.9', longitude 88°53.9' and the <u>submerged pile</u>, PA (PSI # 6-2) charted at latitude 30°14', longitude 88°54' were reported to be iron pipes visible at low water from NM 29/64 and NM 42/66, respectively. A <u>submerged pipe</u> located at latitude 30°13.96', longitude 88°53.94' on the present survey was found to be the only positive hang of a chain drag investigation in this area. It is assumed this pipe is the same feature previously mentioned, and therefore, should be charted in accordance with its revised position.
- (3) The <u>sunken rocks</u> charted in the immediate vicinity of latitude 30°12.77', longitude 88°58.35' from the advance manuscript of T-13032 should be revised to a breakwater in accordance with the present survey smooth sheet.
- (4) The <u>submerged wreck (PSI # 18)</u> charted in latitude 30°12.5', longitude 88°59.1' originates with NM 31/61. This wreck was adequately investigated by a chain drag and is considered disproved on the present survey. It should be deleted from the chart.
- (5) The <u>ruins</u> charted in the immediate vicinity of latitude 30°13.9', longitude 88°53.6'in 1968 from a source not readily ascertainable, formerly originated as a bridge from T-3701 (1916-17). This feature was not verified or disproved on the present survey and should be retained on the chart.

(6) Piles charted in latitude 30°13.84', longitude 88°53.72' from the advance manuscript T-13033 should be relabeled pile.

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

#### B. <u>Topography</u>

The shoreline charted in the area of Ship Island originates with information subsequent to the date of the survey and should be retained on the chart.

# C. Controlling Depths

The table of controlling depths is based on Corps of Engineers data subsequent to the present survey and supersedes the present survey information.

## D. Aids to Navigation

The charted aids adequately mark the features intended.

# 7. Compliance with Instructions

The present survey adequately complies with Project Instructions.

# 8. Additional Field Work

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

Examined and Approved:

Chief

Marine Surveys Division

Associate Director

Office of Marine Surveys

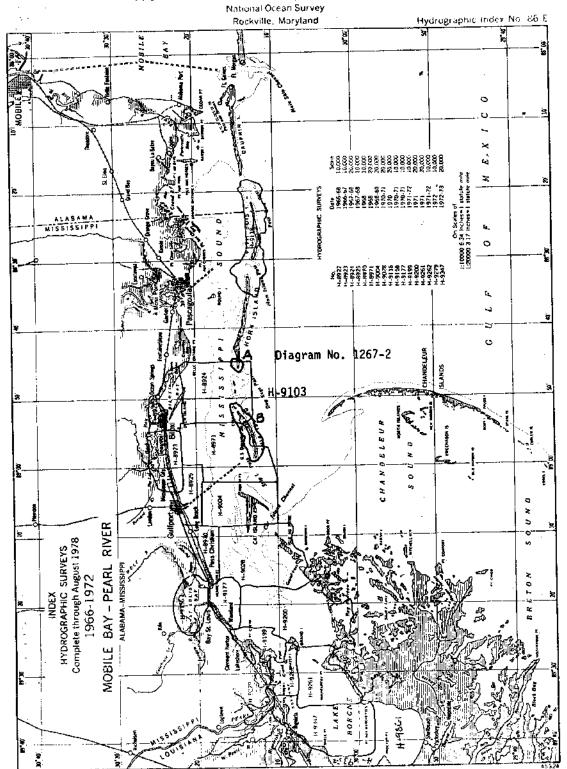
and Maps

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10/30/69
10/30/69 

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# DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration



#### NAUTICAL CHART DIVISION

## RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. \_\_\_\_\_H-9103

#### 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.

A 41	**	rom recommendations made under	"Commonings with (ha	rte" in the Keview
Y (live reasons for deviations	ir anv fi	rom recommendations made under	COMPANIANT ATOR CHE	its in the rection,
J. Give icasons for deviations,	** ***** , **	I DIM TEEO IMMOTERATION TO THE TEE		

HART	DATE	CARTOGRAPHER	Offices REMARKS
11372	10-4-89	John Pierce	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 22
1/374	12-13-89	Ed Martin	Full Pare Before After Verification Review Inspection Signed Via
	72-73-07	Eg mar irr	Drawing No. 23 A;B
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	8-13-90	CES WORTH	Drawing No. 45 three 11372 drag 22
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