

TP-00038

TP-00038

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey .. Shoreline (Photogrammetric) ..

Job No. .. PH-6902 .. Map No. TP-00038 ..

Classification No. .. Edition No. 1st ..

Field Edited: ..

LOCALITY

State .. Mississippi - Louisiana ..

General Locality .. Lake Borgne ..

Locality .. Grand Bayou ..

1969 TO 1970

REGISTRY IN ARCHIVES

DATE ..

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

TP-00038

1

OBJECT NO. (II):		
PH-6902		
FIELD OFFICE (II):	CHIEF OF PARTY	
Pass Christian, MISS.	Dale M. Fuller	
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE	
Atlantic Marine Center - Norfolk, VA	Alfred C. Holmes, Director, AMC	
INSTRUCTIONS DATED (II) (III):		
Office - Aerotriangulation - June 13, 1969 Office - Compilation - July 25, 1969 Office - Amendment I - Oct. 6, 1969 Office - Amendment 2 - Dec. 11, 1969 Office - Supplement I - May 13, 1970 Post Compilation Field No Date April 6, 1970 Field - April 28, 1969 Field - Supplement I - October 7, 1969 Review of Instructions - June 20, 1972		
METHOD OF COMPILATION (III):		
Wild B-8 Stereoplotter		
MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):	
1:10,000	1:15,000 Pantographed to 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III): High Water MEAN SEA LEVEL EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water	
N.A. 1927		
REFERENCE STATION (III):		
Stonewall, 1966		
LAT.:	LONG.:	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
30° 15' 47.909" 1475.2M.	89° 23' 38.503" 1029.3M.	
PLANE COORDINATES (IV):		STATE
Y = 217, 410. 40 Ft. x = 322, 981. 44 Ft.		Mississippi
		ZONE
		East
MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD
TP-00038

2

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - June 3, 1969, Date of Photography. Oct. 16, 1969 (After "Camille")		
PROJECTION AND GRIDS RULED BY (IV): Coradomat Auto Plotter		DATE
PROJECTION AND GRIDS CHECKED BY (IV): Coradomat Auto Plotter		DATE
CONTROL PLOTTED BY (III): Coradomat Auto Plotter		DATE
CONTROL CHECKED BY (III): Coradomat Auto Plotter		DATE
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R.E. Fisher		DATE Oct., 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY L.O. Neterer Rev. by: C.H. Bishop	DATE Jan. 26, 1970 Jan. 26, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R.J. Pate		DATE March 6, 1970
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): C.H. Bishop Compilation - Field Edit - C. Blood		DATE 3-14-70 9-20-71
REMARKS: Field Edit By: - Dale Fuller Date: Oct., 1970		

DESCRIPTIVE REPORT - DATA RECORD

TP-00038

3

CAMERA (KIND OR SOURCE) (III):

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69L(C) 9452 Thru 9456	June 3, 1969	14:54 C.S.T.	1:30,000	2.1 ft. above M.L.W.
69L(C) 6198 Thru 6204	Oct. 16, 1969	12:10 C.S.T.	1:20,000	0.0 ft. above M.L.W.
69L(C) 6220 Thru 6224	Oct. 16, 1969	12:10 C.S.T.	1:20,000	0.0 ft. above M.L.W.
69L(C) 6250 & 6251	Oct. 16, 1969	12:39 C.S.T.	1:20,000	0.0 ft. above M.L.W.

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Pensacola, FL		Tide 0.6'	1.3'
SUBORDINATE STATION: Bay St. Louis, MISS		0.8'	1.6'
SUBORDINATE STATION:			

Atlantic Marine Center
REVIEW BY (IV):

C. H. Bishop

DATE: Jan. 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

1

RECOVERED:

1

IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (III):

0

RECOVERED:

0

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

TP000038

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit.	Mar. 6, 1970	Superseded
Field Edit Applied	Sept. 20, 1971	Superseded
Final Review	Jan., 1974	

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT TP-00038

This 1:10,000 scale shoreline manuscript is one of 16 maps that comprise Project PH-6902, Lake Borgne, MISS. - LA. The project diagram on page five (5) shows the location of this map in the project.

The only field work done before compilation was recovery and identification of horizontal control required for bridging.

Bridging was done on the C-5 and C-8 Stereo-planigraphs, using 1:30,000 scale photographs taken in June 1969 before Hurricane Camille, which crossed the area on August 6, 1969. Diapositives of the same photography were used for compilation of interior details on the Wild B-8 plotter. In October, after the hurricane, new photography was flown at 1:20,000 scale. This was used for compilation of shoreline and alongshore features and photo-hydro support.

Field edit was done in October 1970.

Final review was done at the Atlantic Marine Center in January, 1974.

The original manuscript was a stabiline sheet five (5) minutes in latitude by six (6) minutes in longitude.

A cronaflex positive and a negative of the final reviewed map were forwarded for record and registry.

FIELD INSPECTION REPORT

PH-6902

TP-00038

There was no field inspection prior to compilation.

Shoreline Mapping, Lake Borgne, La.

FIELD

JOB PH-6902

Premark was done in accordance with Instructions received 29 April, 1969.

All stations were premarked using panel array no. 2.

MILT, 1969 was established in target area no. 4 on flight line 30-1. Permission to establish MILT, 1969 as third-order was obtained from C-1113.

Photography was completed on 3 June 1969.

Respectfully Submitted,

Dale M. Fuller

Dale M. Fuller

Photo Party 61

Pass Christian, Miss

Photogrammetric Plot Report
Lake Borgne, Miss.
Job PH-6902

October 1969

21. Area Covered

This project dealt with an area on the Mississippi Gulf Coast in the Mississippi Sound - St. Louis Bay area. T-sheets covering this area are as follows:

1:10,000 sheets:

TP-00036, TP-00037, TP-00038, TP-00039

1:20,000 sheets:

TP-00041

22. Method

Strip #1 (Photos 69-L(C)-9449-62) was bridged on the Zeiss C-8 stereoplanigraph. Strip #3 (Photographs 69-L(C)-9408-16) was bridged on the Zeiss C-5 stereoplanigraph.

Strip #2 was not bridged. It was decided that the side overlap of Strips #1 & 3 was such that the bridging of Strip #2 was unnecessary. Model 9469-70 in Strip #2 can be controlled using tie points 69-L(C)-57801, 12801, 13801, 13802, 13803 and 13804 from the other strips.

Strips #1 and #3 were adjusted using the conventional aerotriangulation strip adjustment method.

23. Adequacy of Control

The location and number of horizontal control points was adequate for both Strip #1 and Strip #3. All control was held to within acceptable limits.

Strip #1 was adjusted using five of the eight horizontal control stations in the strip. Strip #3 was adjusted using all three control stations in the strip plus tie point #65801 from Strip #1.

24. Supplemental Data

None

-2-

25. Photography

The photography for this project was acceptable but was darker than desired. Darkness became especially objectionable near the corners of the models. All of the photography suffered from this trouble.

For some reason no fiducials appeared on the photography. The fiducial lights in the camera were probably not operating at the time of photography.

Submitted,



Robert E. Fisher

Approved and forwarded,



Henry P. Eichert
Chief, Aerotriangulation
Section

MAP T- TP-00038 PROJECT NO. PH-6902 SCALE OF MAP 1:10,000 SCALE FACTOR None

[illegible]

COMPUTED BY R.J. Pate

DATE Feb. 17, 1970

CHECKED BY R. White
C. H. Bishop

DATE	Mar. 3, 1970	Feb. 17, 1970
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

COMPILATION REPORT

TP-00038 PH-6902

31. DELINEATION:

This sheet was compiled graphically from color ratios, the scale of which ran from good to poor.

The photographs were generally dark and in most areas the shoreline was very difficult to determine and required inking with vermilion pigment ink to be seen through the density of the sheet material.

Detail along the northern limits of the sheet was restricted by inadequate Photo coverage.

32. CONTROL:

Shoreline control points were dropped by means of the "B-8" from diapositives of 1:30,000 scale.

Additional points where needed were cut-in graphically by holding these and identifiable bridge points for control.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage consists chiefly of marsh streams and ditches and have been delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

A berm line visible on the photographs against a white sand beach was delineated as the mean high water line, which is to be verified during field edit by measurements from identifiable points

on the photographs at approximately half mile intervals.

The approximate mean low water line, piers or pier ruins, groins etc. were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS:

Two Forms 76-40, Landmarks for Charts, were submitted to the Rockville office in February, 1974 (one for Aeronautical Charts Branch). *Chart Letter No. 252.*

TP-00038

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions have been made with TP-00036 to the north, TP-00039 to the east and TP-000178 to the west. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with U.S. Geological Quadrangle WAVELAND, MISS., and BAY ST. LOUIS, MISS., both scale 1:24,000, dated 1956.

In the Waveland quadrangle numerous canals have been dug in land development projects in the vicinity from Joes Bayou to Bayou La Croix, Lat $30^{\circ} 19'$ to $30^{\circ} 20'$ and Long. $89^{\circ} 22'$ to $89^{\circ} 25'$.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Charts 876-SC fourth edition dated Nov. 1968 and 878-SC second edition dated Aug., 1968.

The incompletd portion of roads and canals extending southward from the area mentioned under item 46 were not delineated due to inadequate photograph coverage.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles H. Bishop

for R.J. Pate
Cartographic Technician
March 9, 1970

Approved for forwarding:

J. G. Carlen
Jeffrey G. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Jan. 28, 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6902 (Mississippi Sound, Miss.-La.)

TP-00038

Bayou La Croix

Bay St. Louis

Breath Bayou

Cameron Island

Clermont Harbor

Edwards Bayou

Four Dollar Bayou

Grand Bayou

Jackson Ridge

Joes Bayou

Mississippi Sound

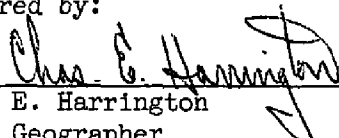
Mud Bayou

Sand Bayou

Watts Bayou

Waveland

Prepared by:


Chas. E. Harrington
Staff Geographer

PHOTOGRAMMETRIC OFFICE REVIEW

T-P-00038

16

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY Coradomat Auto Plotter		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X	7. PHOTO HYDRO STATIONS X
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT Bridge W.O.	11. DETAIL POINTS X
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE X	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES CHB
16. AIDS TO NAVIGATION X	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES CHB		21. NATURAL GROUND COVER CHB	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS X	29. RAILROADS X	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES X X		32. PUBLIC LAND LINES X X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB		34. JUNCTIONS CHB	35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS CHB
40. REVIEWER Charles H. Bishop		Date 3-14-70	
SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.			
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILED H. Gann		Date Sept., 71	
Reviewer C. Blood		Date Sept., 71	
43. REMARKS Field Edit Applied From - Field Edit Ozalid Field Edit Cronaflex Print Photographs 69L 6222 thru 69L 6225 69L 6220, 69L 6202			

FIELD EDIT REPORT
TP 00038
GRAND BATOU
PH 6902
LAKE BORGNE, MISSISSIPPI-LOUISIANA

52. ADEQUACY OF COMPILATION

Compilation was adequate considering no previous field inspection. A large number of piers, piling, groins and storm drains were omitted during compilation and are delineated on the cronaflex print.

Several measurements were made to MHWL from selected photo points. It should be noted that the foreshore area is generally flat and the MHWL is subject to continuous change due to the profile of the foreshore area and local wind conditions.

54. RECOMMENDATIONS

None.

56. LANDMARKS AND AIDS TO NAVIGATION

Five landmarks were recommended for charting; their positions were located during compilation and field verified. No aids to navigation appear on this sheet.

57. ADDITIONAL INFORMATION

Field edit notes appear on the following color prints: 69L6222, 69L6223, 69L6224, 69L6225, 69L6220 and 69L6202. Field edit notes were made in violet ink on the photographs, ozalid and cronaflex copies of the manuscript. All corrections to the manuscript were indexed on the ozalid copy. All triangulation stations were recovered and a Form 526 submitted for each.

Respectfully submitted,

Dale M. Fuller
Survey Technician, October, 1970

Roger P. Hewitt
Roger P. Hewitt
LTJG/NOAA
Chief, Photo Party 61

[illegible]

[illegible]

REVIEW REPORT TP-00038

SHORELINE

JANUARY 29, 1974

61. GENERAL STATEMENT:

See summary on page six (6) of this Descriptive Report.

An ozalid comparison print is bound with the original of the Review Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey T-9379 S/2, 1:10,000 scale, dated August 1956 and with Survey T-9788, 1:20,000 scale, dated September 1956. No attempt was made to show cultural differences, many of which were caused by Hurricane Camille in August, 1969. No large shoreline differences were noted. Small differences were considered insignificant because in this area shoreline is normally changeable by wind and storm action.

At the north edge of this map, land development has caused the addition of numerous canals in the area between Bayou La Croix and Joes Bayou.

TP-00038 supersedes previous topographic surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangles WAVELAND, MISS., and BAY ST. LOUIS, MISS., both 1:10,000 scale and both dated 1956. The USGS maps are copies of the C & GS maps. Therefore, differences with TP-00038 are the same.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with boat sheets for surveys H-9177 and H-9199, both 1:10,000 scale and both dated 1970. Three piles, which are not visible on the photographs, were shown on the comparison print in purple. There were no other significant differences.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 876-SC, 1:40,000 scale, 8th edition, dated Nov., 1972 and 878-SC, 1:40,000 scale, 7th edition, dated Aug., 1973. Many differences in cultural features along the shore were noted. The more significant of these were shown on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets the requirements for National Standards of Map Accuracy.

Reviewed by:

Charles H. Bishop

Charles H. Bishop
Cartographer

Approved for forwarding:

Jeffrey G. Carlen

Jeffrey G. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

69-L(C)-6190

Jackson
Ridge

Clermont Harbor

pond

Marsh

Mud Bayou

marsh

Marsh

culvert

15' 30"

culvert

sand

Drain

Groin

• Piling

COMPARISON PRINT


Red = Chart 878 SC

putting

o pipe

Pilgrimage

charted items in red are not visible on photographs used for compilation.

$\notin rd$  MHWL (edge of rd)

piling

$30^{\circ}15'00''$

$$x = 315,000 \text{ FT.}$$

89° 25'

24° 30''

TP-00038
1:10,000

69-L(C)-6225

BEAC



15'30"

69-L(c)-6224

30° 15' 00"

23'30"

$X = 325,000 \text{ FT. } 89^{\circ} 23'$

TP-00038
1:10,000

24

)-6201

TANK 1970
(Steel) ht = 131 (151)

Waveland

culvert

Pier in ruins

Pile

Piling

Pr ruins

Pile
pilingNot visible
on photosCharted items in red
are not visible on photographs
used for compilationCH SPIRE 1970
ht = 66 (72)

16'30"

COMPARISON PRINT

Red = Chart 876 SC
Purple = H-9177

69-L(C)-6222

TP-00038
1:10,000

89° 22'

30° 16' 00"

Pile not visible on photos

89° 20' 30"

25

Bay St Louis

69-L(C)-6203

SOUTH BEACH BLVD

ST LOUIS 2 1966

charted items in red are
not visible on photographs
used for compilation.

COMPARISON PRINT

Red - Chart 876 SO

TP-00038
1:10,000

30° 17' 00"

89° 21'

69