

9389

Diag. Cht. No. 1270.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-60(49)B Office No. T-9389

LOCALITY

State Louisiana

General locality Chandeleur Sound

Locality New Harbor Island

194 50-51

CHIEF OF PARTY

P.L.Bernstien, Chief of Field Party

J.E.Waugh, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE June 27, 1957

9389

DATA RECORD

T-9389

Project No. (II): **Ph-60(49)B** Quadrangle Name (IV):

Field Office (II): **Gulfport, Mississippi**

Chief of Party: **Percy L. Bernstein**

Photogrammetric Office (III): **Tampa, Florida**

Officer-in-Charge: **J. E. Waugh**

Instructions dated (II) (III): **8 August 1950**

Copy filed in Division of
Photogrammetry (IV)

Office Files

Method of Compilation (III): **Graphic**

Manuscript Scale (III): **1:20,000**

Stereoscopic Plotting Instrument Scale (III): **Inapplicable**

Scale Factor (III): **None**

Date received in Washington Office (IV):

APR 7 - 1952

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **3-20-57**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

Vertical Datum (III): **M.S.L.**

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

Reference Station (III): **CHANDELEUR LIGHTHOUSE, 1910** (on T-9386)

Lat.: **30° 02' 52".272 (1609.5m)** Long.: **88° 52' 18".293 (490.1m)**

Adjusted
20622183127X

Plane Coordinates (IV):

State: **La.**

Zone: **South**

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

DATA RECORD

Field Inspection by (II): J. H. Clark
W. M. Reynolds
C. H. Baldwin

Date: Nov 1950 to
Apr 1951

Planetable contouring by (II): J. H. Clark

Date: Nov 1950 to
Apr 1951

Completion Surveys by (II): *None*

Date:

Mean High Water Location (III) (State date and method of location):

~~28 March 1951~~ Air Photo compilation : *photographs 1950 E/HK*

Projection and Grids ruled by (IV): T. L. J. (W.O.)

Date: 23 Feb. 1951

Projection and Grids checked by (IV): H. D. W. (W.O.)

Date: 26 Feb. 1951

Control plotted by (III): I. I. Saperstein

Date: 16 Aug. 1951

Control checked by (III): R. J. Pate

Date: 16 Aug. 1951

Radial Plot ~~as Stereoscopic~~

Date:

~~Control extension~~ by (III): M. M. Slavney

24 Aug. 1951

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Inapplicable

Contours

Date:

Manuscript delineated by (III): R. E. Smith Jr

Date: 28 Nov. 1951

Photogrammetric Office Review by (III): J. A. Giles

Date: 7 March 1952

Elevations on Manuscript

Date:

checked by ~~RM~~ (III): J. A. Giles

5 March 1952

Camera (kind or source) (III):

USCAGS Nine-lens Camera Focal Length 8.24 inches

Number	Date	Time	Scale	Stage of Tide
25874	9 May 1950	10:22	1:20,000	0.5
25875	"	10:23	"	0.5
25876	"	10:24	"	0.5
25877	"	10:25	"	0.5
26053	15 May 1950	16:15	"	0.2
26056	"	16:30	"	0.2
26058	"	16:30	"	0.2
26212	16 May 1950	11:27	"	1.2
26213	"	11:27	"	1.2

PHOTOGRAPHS (III)

Diurnal

Tide (III)

Reference Station: **PENSACOLA**
 Subordinate Station: **CHANDELEUR LIGHT**
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
0.9	-	1.2

Washington Office Review by (IV): *Everett H. Ramey*

Date: *7 Feb 1955*

Final Drafting by (IV): *John H. Frazier*

Date: Dec 2, 1955

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **6**
 Shoreline (More than 200 meters to opposite shore) (III): **39**
 Shoreline (Less than 200 meters to opposite shore) (III): **2**
 Control Leveling - Miles (II): **None**
 Number of Triangulation Stations searched for (II): **2** Recovered: **0** Identified: **0**
 Number of BMs searched for (II): **None** Recovered: Identified:
 Number of Recoverable Photo Stations established (III): **7**
 Number of Temporary Photo Hydro Stations established (III): **0**

Remarks:

Five recoverable topographic stations and three unmarked stations were located by triangulation or traverse and identified. All are less than third-order.

Summary to Accompany Topographic Map T-9389

This topographic map is one of eleven similar maps of Part B of Project Ph-60. Part B covers the islands in Mississippi, Chandeleur and Breton Sounds in Louisiana and Mississippi.

Project Ph-60 is a graphic compilation project. Field work in advance of compilation included the establishment of some additional control, complete field inspection, the delineation of 5-foot contours directly on the photographs by planetable methods, and the investigation of geographic names and political boundaries.

None of the maps of Part B of Project Ph-60 were field edited. All were compiled at a scale of 1:20,000, using nine-lens photographs taken in 1950. With the addition of hydrographic data, these maps will be forwarded to the Geological Survey for publication as standard 7-1/2-minute topographic maps.

Items registered under each map number will include a descriptive report, ~~cloth-backed~~ copies of the manuscript and the published map.
CRONAR

2. AREAL FIELD INSPECTION

The land area consists of a part of North Island, a part of the Chandeleur Islands and all of the islands of the New Harbor group. Chandeleur Islands are a narrow strip of barrier beaches which divide Chandeleur Sound from the Gulf of Mexico. The Gulf side of the island is a sand and shell beach, with a few scattered groups of sand dunes. The Sound side of Chandeleur Islands is marsh and mangrove swamp. The New Harbor Islands and North Island are all marsh and mangrove with a shell fringe along the shore in some sections.

Just south of North Island is Shoalwater Bay. This bay provides safe anchorage for small boats from northerly or easterly weather and is used only by those who possess local knowledge. The bay is shallow and will only accommodate boats of 6 ft. or less draft. Between the New Harbor Islands and Chandeleur Islands is a deep, natural channel known as Smack Channel. This channel is narrow and not marked and can be navigated safely only by those with local knowledge of the area.

Field inspection is believed complete and adequate with no items left for field edit.

The photographic tones range from white through various shades of gray to black. The white tones are sand and shell beach. The gray tones range from the marsh covered by grass to the sand and mud shoals located west of the main island. The black tones are marsh that is covered by a dense growth of mangrove.

Field inspection is shown on photographs 25874, 25875, 25876, 25877, and 26055.

3. HORIZONTAL CONTROL

Stations LUR 1921 and ISLE 1921 were reported lost.

The following eight stations of less than third-order accuracy were established and identified for radial line plot control and recoverable topographic stations BACK, BAND, ALMA, ZONE, and AXIS; and unmarked traverse stations W, AA, and FF. A control point was identified off the center of each photograph within 30 degrees normal to the flight line. The intermediate stations are supplementary.

See "Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds",* forwarded to the Washington Office 16 April 1951.

** Filed under project data, Div. of Photogrammetry. ^{err}*

Horizontal control was identified on photographs 25874, 25875, 25876, and 26056.

4. VERTICAL CONTROL

No vertical control of any kind exists. To provide control for the contours the elevation of the water was determined from the predicted tide tables. This value was used for the short planetable traverses necessary to contour the area.

No other vertical control of any kind was established by the field party.

5. CONTOURS AND DRAINAGE

Contouring was done directly on nine-lens photographs by standard planetable methods. The contouring was mainly spot elevations throughout the area.

There is no drainage pattern except tidal drainage of marsh and mangrove swamp.

Contouring is shown on photographs 25874, 25875, 25876, 25877, and 26055.

6. WOODLAND COVER

There is no woodland cover other than mangrove.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along the Gulf of Mexico was located by azimuths and distances from stations in previously mentioned traverse. When the traverse stations were of appreciable distance apart, identifiable photographic detail was used for reference measurements to the mean high water line.

The shoreline on the Sound side is all apparent, except for the shoals immediately west of the Chandeleur Islands, some of which are above mean high water.

The shoreline of New Harbor Islands is all apparent.

The low water line was not located.

There are no shoreline structures of any kind.

8. OFFSHORE FEATURES

The shoal area west of the Chandeleur Islands is the only offshore feature within the area. The parts of the shoal which are above mean high water have been indicated on the field inspection photographs. Other parts of the shoal bare with a sustained northerly wind. See §35

9. LANDMARKS AND AIDS

There are no landmarks or aids of any kind.

10. BOUNDARIES, MONUMENTS, AND LINES

The entire area is in St. Bernard Parish, Police Jury Ward No. 7. See "Special Report, Boundaries, Project Ph-60(49)",^{*} to be forwarded at a later date.

** Filed under Project data, Div. of Photogrammetry.*

No boundary monuments or section corners were recovered by the field party.

11. OTHER CONTROL

The following recoverable topographic stations were established by traverse or triangulation: BEAK 1950, WELL 1950, BACK 1950, BAND 1950, ALMA 1950, ZONE 1950, and AXIS 1950.

12. OTHER INTERIOR FEATURES

There are no roads, buildings or structures, or other interior features.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-60(49)",^{*} to be forwarded at a later date.

** Filed in Geographic Names Section, Div. of Charts.*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds", forwarded to the Washington Office 16 April 1951.

"Special Report, Boundaries, Project Ph-60(49)", to be forwarded at a later date.

"Special Report, Geographic Names, Project Ph-60(49)", to be forwarded at a later date.

Data, Quadrangle T-9389, letter of transmittal 60-9, forwarded to the Tampa Photogrammetric Office 19 April 1951.

Submitted
16 April 1951

William M. Reynolds
William M. Reynolds
Cartographic Survey Aid

Approved
19 April 1951

Percy L. Bernstein
Percy L. Bernstein
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

This report is filed as part of the Descriptive Report
for T-9383 and covers maps T-9383 thru T-9393.

COMPILATION REPORT T-9389

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9383.

31. DELINEATION.

Compiled by graphic methods. The field inspection was inadequate.*
The field man used photographs 25877, 25876, 25875 and 25874. These photographs were dark and the shoreline was not clear. Photographs 26056, 26055 and 26053 were clear so these were used to delineate most of the shoreline on the western side of CHANDELEUR ISLAND.

** Most changes were refinements in the field inspector's shoreline. 502*

Only a few of the measurements to the MHWL from the topographic stations agree with the measurements from the traverse stations on the eastern or Gulf side of CHANDELEUR ISLAND. Since the traverse stations were closer to the MHWL they were used to delineate the shoreline.

(Except at Topo. Sta. "WELL", measurements agreed closer than 0.5 mm.) 502

32. CONTROL.

A sufficient number of well placed secondary control points were established by the radial plot.

33. SUPPLEMENTAL DATA.

None.

See § 14

34. CONTOURS AND DRAINAGE.

No difficulty was encountered in contour delineation.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was inadequate. Refer to Item 31.

The shoal and low-water lines shown on the map manuscript are approximate. They are based on the information from the field prints and from office interpretation and delineated with the expectation that these features will be of help to the hydrographer.

36. OFFSHORE DETAILS.

Reference Item 8.

37. LANDMARKS AND AIDS.

Reference Item 9.

38. CONTROL FOR FUTURE SURVEYS.

Seven recoverable topographic stations are being submitted on Form 524 with this report. They have been listed under Item 49.

39. JUNCTIONS.

Survey T-9387 on the north - in agreement.

Survey T-9391 on the south - in agreement,

Survey T-9388 on the west - in agreement.

No contemporary survey on the east. (Bounded by water)

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

*See §66*41. PUBLIC LAND LINES.

No section corners were recovered, therefore it was not possible to locate section lines from General Land Office plats.

(The GLO plats in Wash. Office do not include these islands) SHX

46. COMPARISON WITH EXISTING MAPS.

None.

*See §62*47. COMPARISON WITH NAUTICAL CHARTS.

Comparison has been made with USC&GS Nautical Chart No. 1270, scale 1:80,000, published June, 1947, (second edition) and corrected to 19 March 1951. No outstanding discrepancies were noted.

See §65

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.



Relford E. Smith, Jr.
Cartographic Photo Aid

APPROVED AND FORWARDED:



J. E. Waugh, Chief of Party

49. NOTES FOR THE HYDROGRAPHER.

The following topographic stations may be useful to the hydrographer:

- ALMA, 1950
- AXIS, 1950
- BACK, 1950
- BAND, 1950
- BEAK, 1950
- WELL, 1950
- ZONE, 1950

The shoal and ~~low~~^{CH}-water lines as shown on the map manuscript are approximate. They are based on office interpretation and are subject to change. They are compiled on the map manuscript to assist the hydrographer when these features are verified.

48. GEOGRAPHIC NAME LIST.BRETON NATIONAL WILDLIFE REFUGECHANDELEUR ISLANDSCHANDELEUR SOUNDGULF OF MEXICOLOUISIANANEW HARBOR ISLANDSNORTH ISLANDSPOLICE JURY WARD 7*(Not mapped) EHK*REDFISH POINTSHOALWATER BAYSMACK CHANNELST BERNARD PARISH

*Names underlined in red
are approved. 8-21-52
L. Heck*

TIDE COMPUTATION

PROJECT NO. Ph60(49) T- 9389

Time and date of exposure **10:23 5-9-50**

Reference station

PENSACOLA

Mean range

Date of field inspection **MARCH 1951**

Subordinate station

CHANDELIER LIGHT

Ratio of ranges **0.9**

	Time		Height feet	Height x Ratio of ranges		Time	
	h.	m.				h.	m.
High tide	16	31	1.0	0.9	High tide at Ref. Sta.	16	31
Low tide	3	05	0.0	0.0	Time difference	-0	30
Duration of rise or fall	13	26		0.9	Corrected time at Subordinate station	16	01
					Corrected time at Subordinate station	2	35

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T. XXXX	16	01	Ht. H. T. or L. T. XXXX	0.9	Feature bares		25875
Required time	10	23	Tabular correction	0.4	Stage of tide above MLW		
Interval	5	38	Stage of tide above MLW	0.5	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		

Mean range

Ratio of ranges

	Time	
	h.	m.
Low tide at Ref. Sta.	20	11
Time difference	-0	30
Corrected time at Subordinate station	19	41

	h.	m.		feet		feet	Photo. No.
Time <i>11/14</i> L. T. Required time Interval 19 41 16 30 3 11			<i>11/14</i> L. T. Tabular correction Stage of tide above MLW	-0.1 0.3 0.2	Feature bares Stage of tide above MLW Feature above MLW		26056
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T. 9389

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations XXX 8. Bench marks XXX 9. Plotting of sextant fixes XXX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. XXX 15. Bridges XXX 16. Aids to navigation XXX 17. Landmarks XXX 18. Other alongshore physical features XXX 19. Other along-shore cultural features XXX

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. 23. Stereoscopic instrument contours XXX 24. Contours in general XXX 25. Spot elevations J.G. 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads XXX 28. Buildings XXX 29. Railroads XXX 30. Other cultural features XXX

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines XXX

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G. 40. Jesse A. Giles William A. Rasine
Reviewer Supervisor, Review Section or Unit

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.

Compiler_____
Supervisor

43. Remarks:

Review Report
Topographic Map T-9389
7 February 1955

62. Comparison with Registered Topographic Surveys:

T-548	1:20,000	1855
T-549	"	"
T-3917	"	1922
T-3918	"	"
T-3985	"	"

There have been considerable changes in shoreline since these surveys. For the area it encompasses, T-9389 is to supersede these prior surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies: None.

64. Comparison with Contemporary Hydrographic Surveys: None.

65. Comparison with Nautical Charts:

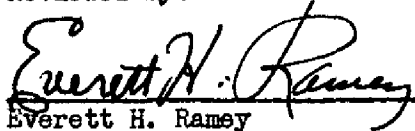
1270 1:80,000 1947, corrected to 54-10/18

No significant differences exist.

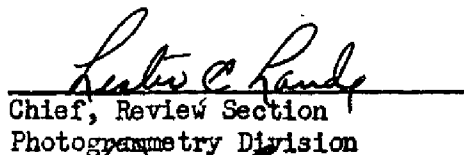
66. Adequacy of Results and Future Surveys:

This map meets the National Map Accuracy Standards and fulfills Bureau requirements.

Reviewed by:

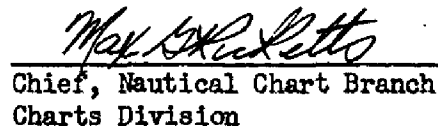

Everett H. Ramey

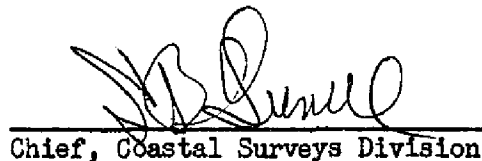
APPROVED:


Chief, Review Section
Photogrammetry Division


Chief, Photogrammetry Division

27 June '57


Chief, Nautical Chart Branch
Charts Division


Chief, Coastal Surveys Division

History of Hydrographic Information for T-9388 through T-9392

Hydrography was added to the map manuscript in accordance with the Photogrammetry Division General Specifications of 18 May 1949.

Depth curves and soundings are in feet at Mean Lower Low Water datum and originate with the following O&S Nautical Chart:

<u>No.</u>	<u>Scale</u>	<u>Corrected to</u>
1270	1:80,000	11-28-55

Hydrography was compiled by Bernard J. Colner (T-9388 and T-9389 on 15 May 1956, and T-9390 through T-9392 on 17 May 1956), and verified by O. Svendsen.

Applied to chr 1270 by Frey
HFA 12-8-52