

Original

T-10943

T-10943

T-10943

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No.	Office No. T-10943
LOCALITY	
State	ALABAMA
General locality	MOBILE BAY
Locality	MON LOUIS ISLAND
1957 - 1960	
CHIEF OF PARTY	
Joseph K. Wilson, Chief of Field Party	
William R. Kachel, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	FEB 4 - 1968

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

L10943

Project No. (II): PH-5704

Quadrangle Name (IV):

Field Office (II): Pascagoula Mississippi

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: William R. Kachel

Instructions dated (II) (III): II 23 June 1958 (Field)

Copy filed in Division of
Photogrammetry (IV)

10 Feb. 1959 (Field Suppl.1)

III 7 Apr. 1959 (Office)

9 Sept. 1959 (Stereo Bridging)

17 Aug. 1959 (Office Suppl.1)

6 Oct. 1959 (Office Suppl.1)

17 Aug. 1959 (Field Suppl.2)

10 Nov. 1959 (Field and Office Suppl.3)

Location of Aids to Navigation dated 7 Oct. 1959

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV):

JAN 12 1961

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV): N.A. 1927

Publication date (IV):

Geographic Datum (III):

Vertical Datum (III): MHW

~~Horizontal Datum~~ 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): 316-1 Ala.Geod.Sur. 1940

Lat.:

Long.:

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: Alabama

Zone: West

Y= 147,669.4

X= 304,466.1

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.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PLANIMETRIC

(Show name within area)

(11) (111)

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **M. A. Stewart**
W. M. Reynolds

Date: **April 1959**

Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II): **M. L. Olivier**

Date: **Sept. 1960**

Mean High Water Location (III) (State date and method of location): **Air Photo Compilation**
Date of photography: 9 November 1957

Projection and Grids ruled by (IV): **P. J. Dempsey (W.O.)**

Date: **Aug. 1959**

Projection and Grids checked by (IV): **R. D. Shoup (W.O.)**

Date: **Aug. 1959**

Control plotted by (III): **R. R. Wagner**

Date: **Sept. 1959**

Control checked by (III): **V. P. Cackowski**

Date: **Sept. 1959**

Radial Plot of ~~Stereoscopic~~
~~contouring~~ by (III): **R. R. Wagner**

Date: **Oct. 1959**

Stereoscopic Instrument compilation (III):
Planimetry
Contours **Inapplicable**

Date:

Date:

Manuscript delineated by (III): **E. T. Ogilby**

Date: **Nov. 1959**

of compilation manuscript
Photogrammetric Office Review by (III): **W. H. Shearouse**

Date: **Dec. 1959**

Elevations on Manuscript
checked by (II) (III): **Inapplicable**

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **USC&GS 9-lens**

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
56584	9 Nov. 1957	11:43	1:10,000	- 0.3
56670	" "	12:54	"	-0.2
56799	" "	14:40	"	0.0

Predicted
Tide (III)

Diurnal

Reference Station: **Mobile, Mobile River**

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
		1.5

Washington Office Review by (IV):

Date:

Final Drafting by (IV): **V. P. Cackowski, Tampa District Office**

Date: **Nov. 1960**

" " Review by: **W. H. Shearouse** " " "

Nov. 1960

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **5**

Shoreline (More than 200 meters to opposite shore) (III): **5 lin. mi.**

~~Shoreline (Less than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II): **Inapplicable**

Number of Triangulation Stations searched for (II): **5**

Recovered: **3**

Identified: **3**

Number of BMs searched for (II): **None**

Recovered: **-**

Identified: **-**

Number of Recoverable Photo Stations established (III): **1**

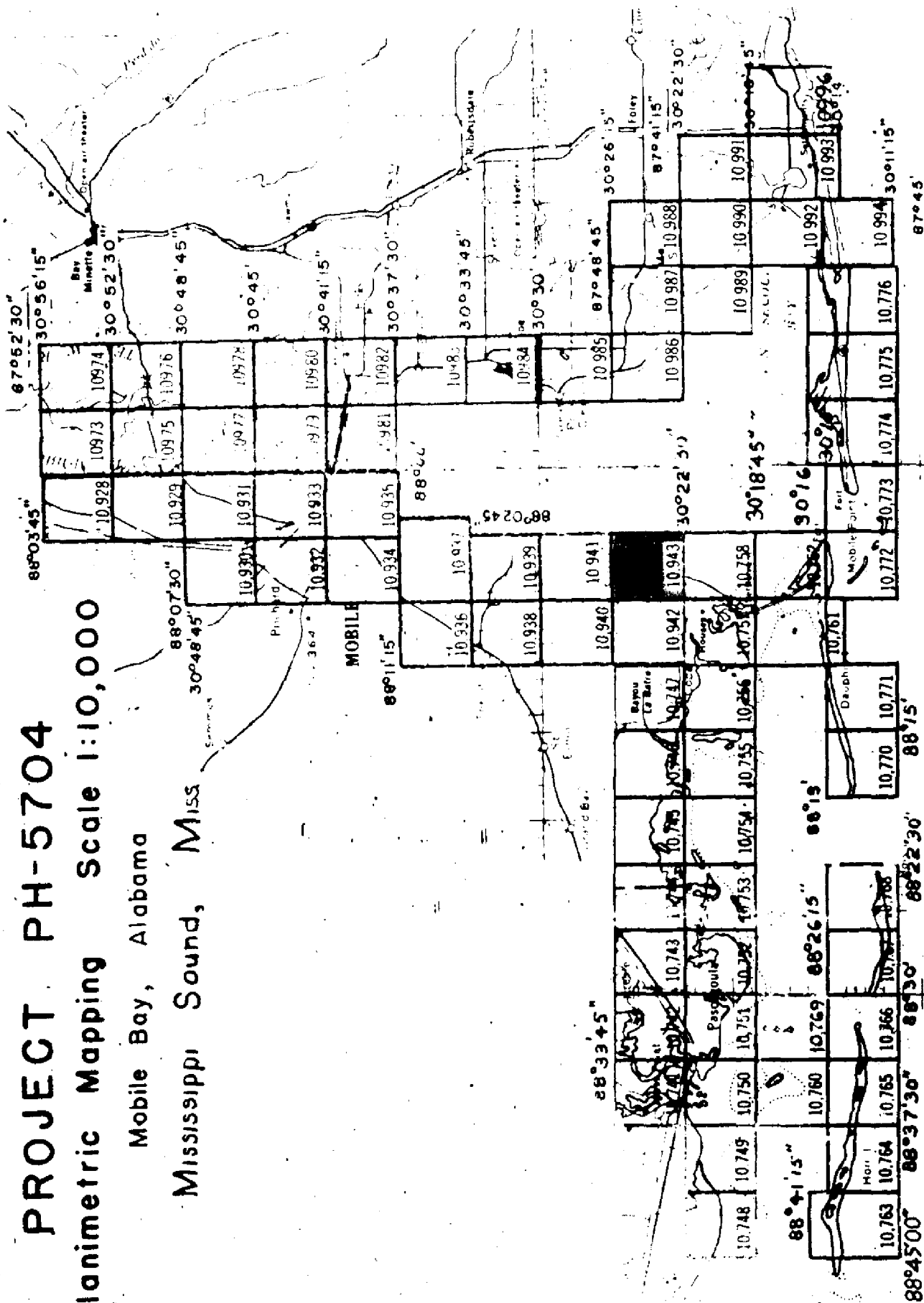
Number of Temporary Photo Hydro Stations established (III): **0**

Remarks:

Planimetric Mapping

Mobile Bay, Alabama

Mississippi Sound, Miss



FIELD INSPECTION REPORT

Project ph-5704

Maps T-10940 thru T-10943

2. AREAL FIELD INSPECTION

These maps are located along Mobile Bay in a sparsely settled area south of Mobile and just east of Bayou La Batre.

There are no incorporated towns, airports, landing fields or railroads within the limits of these maps. The area is served by State Highways 59, 163 and 188. Fowl River runs through a portion of all of these maps.

The Gulf-Mobile and Ohio Railroad has been discontinued. In most places, it has been shown as dismantled. In other places it is no longer a map feature.

Bellingrath Gardens, located in map T-10942, is one of the outstanding landmarks of the area. It is visited by many thousands each year. The gardens are privately owned and admission is charged.

Field inspection has been accomplished on the following nine-lens photographs: 56580, 56584, 56670, 56855, 56857, 56858, 56859, 56786, 56787, 56788, 56789, 56790, 56791, 56799, 56800, 56801, 56802, 56797.

The 1957 nine-lens photographs were of fair quality. Some prints were very clear while others were slightly distorted. The field inspection is believed to be complete and all phases adequately indicated.

3. HORIZONTAL CONTROL

All coast and Geodetic Survey and Alabama Geodetic Survey stations, within the limits of these maps, have been searched for and reported on form 526.

The following stations have been reported on form 526 as "distroyed", "lost", or "not recovered":

T-10940

331-5, Ala. Geod. S., 1940

334-1, Ala. Geod. S., 1940

304-1, Ala. Geod. S., 1940

T-10941

310-1, Ala. Geod. S., 1940

308-5, Ala. Geod. S., 1940

308-4, Ala. Geod. S., 1940

308-3, Ala. Geod. S., 1940

T-10942

328-3, Ala. Geod. S., 1940

328-1, Ala. Geod. S., 1940

304-4, Ala. Geod. S., 1940

304-5, Ala. Geod. S., 1940

304-6, Ala. Geod. S., 1940

304-7, Ala. Geod. S., 1940

315-4, Ala. Geod. S., 1940

T-10943

TAYLOR, 1935

10-E3, Ala. Geod. S., 1940

JULIET, 1910

The following stations were identified in connection with control requirements for maps T-10747, T-10757 and T-10758. This data was forwarded to Washington on 12 November 1958:

JULIET, 1910

304-9, Ala. Geod. S., 1940

CROSS, 1935

328-2, Ala. Geod. S., 1940

334-2, Ala. Geod. S., 1940

334-1, Ala. Geod. S., 1940

There was no supplemental control established.

4. VERTICAL CONTROL

There are no tidal bench marks within the limits of these sheets.

5. CONTOURS AND DRAINAGE

Contouring is inapplicable.

The drainage has been delineated throughout the limits of these maps. In many areas there is no definite drainage due to the flatness of the land.

All drainage within this area is toward either Mobile Bay or Fowl River.

6. WOODLAND COVER

The cover was classified in accordance with Project Instructions and the Topographic Manual. The field inspector has shown in its entirety all swamp and marsh limits. As a whole, the distinction between marsh and swamp can be easily seen. A few areas, which photographed as a light gray, are sometimes either swamp or marsh. Other areas, which photographed white are either marsh or fast land. These areas, which appear to be marsh and are not, are probably due to dead grass and unusually wet land.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high-water line is both apparent and fast. It has been shown in accordance with symbols as specified in the topographic manual. The shoreline was inspected by skiff or by walking along the shore. The area, adjacent to Mobile Bay, is very shallow inshore, therefore, the field inspector walked a great portion of this shoreline during the inspection.

The low water line was not determined. There is little or no fore-shore. The land area along Mobile Bay, is about 6 to 12 feet above sea level.

All docks, wharves, piers etc. have been indicated on the photographs.

Submarine and overhead cables crossing navigable waters have been shown on the photographs.

Shoreline inspection has been shown on the following nine-lens photographs:

56580, 56584, 56670, 56857, 56858, 56791, 56800, 56801, 56802.

8. OFFSHORE FEATURES

Several piling have been shown on the photographs. No other off-shore features were noted.

9. LANDMARKS AND AIDS

There are no landmarks for nautical charts, within this area.

One fixed aid to navigation was identified on the photograph. Form 567 will be submitted for it at a later date.

There are no aeronautical aids.

10. BOUNDARIES MONUMENTS AND LINES

There are no features, within the limits of these maps, which require boundaries.

Bellingrath Gardens is privately owned and no attempt was made to show its boundaries.

11. OTHER CONTROL

Two monumented topographic stations were established in map T-10943. These stations are SAND 1959 and BANK 1959. Form 524 is submitted for each. There were no photo-hydro objects identified.

12. OTHER INTERIOR FEATURES

Roads and buildings have been classified on the photographs in accordance with Photogrammetric Instructions 54 and 56.

In accordance with project instructions, there were no bridge clearances measured.

13. GEOGRAPHIC NAMES

A systematic Geographic Names Investigation was not required. Mr. William M. Reynolds submitted a Geographic Names Report for Part 1 and 2 of this project on 1-22-59. There are a few names, discussed in Mr. Reynolds report, which affect these maps.

There were no name discrepancies noted during the field inspection. One new name is recommended: BELLINGRATH GARDENS. This name is widely known and is recommended. See photograph 56857 for its location.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Geographic Names Report, Part 1 and 2, Project Ph-5704. Submitted to Washington 1-22-59.

Boundary Report Part 1 and 2, Project Ph-5704. Submitted to Washington 3-2-59.

Submitted:

Joseph K. Wilson
Joseph K. Wilson
Chief of Party

SCALE FACTOR

1 FT. = 3048006 METER	COMPUTED BY: RES	DATE: 23 Sept 64	CHECKED BY: F.T.O.	DATE: 23 Sept 64	COMM. DC-57843
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COMPILATION REPORT T-10943PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10928

31. DELINEATION

The graphic method of compilation was used. The field inspection and photographs were good and no difficulty was encountered. The single-lens Infragon "I" series photography furnished was used to assist in the interpretation of vegetation cover and other map details.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage including that in swamps was delineated by the field inspector, but when some of this delineation was disproved by the details on other photographs all the drainage that could not be seen was doubted. Only the drainage identified by stereoscopic examination has been shown on the manuscript. Please refer to the letter dated 10 October 1960 on DRAINAGE PH-5704 to Chief, Photogrammetry Division from Tampa District Officer for more information about this.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore detail was inked on the field photographs by the field inspector. The shoreline inspection was satisfactory. There were no shoals or mean low water line indicated. Grass in water was taken from the inspection.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

One marked topographic station was established, for which a form 52h is submitted.

39. JUNCTIONS

Junctions were made with T-10941 to the north, T-10942 to the west and T-10758 to the south. The east is bounded by Mobile Bay.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USC&GS Planimetric Map T-5533 scale 1:20,000 dated 1934 and Army Map Service Quadrangle CEDAR POINT scale 1:50,000 dated 1954 copied from USGS Quadrangle, scale 1:62,500 dated 1943. The only discrepancies were to be expected.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with USC&GS Chart No. 1266, scale 1:80,000 dated Sept. 1950, revised to Nov. 1959. The chart and map compare favorably.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

APPROVED AND FORWARDED

William R. Kachel
William R. Kachel
Chief of Party

E. T. Ogilby
E. T. Ogilby
Cartographer (Photo)

48. GEOGRAPHIC NAME LIST

Names were taken from the Geographic Name Quadrangle CEDAR POINT noted by L. Heck of the Washington Office and the field inspector.

ALABAMA
AUSTIN BAYOU

CEDAR PT ROAD

DELCHAMPS BAYOU

MOBILE BAY
MON LOUIS ISLAND

POINT JUDITH

STATE 163

WHITEHOUSE BAYOU

*Names approved
12 - 10 - 65*

A. J. Wright

49. NOTES FOR THE HYDROGRAPHER

None.

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 10943

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS
4a Classification label unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours XX 23. Stereoscopic Instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features WHS

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report WHS 38. Field inspection photographs WHS 39. Forms WHS
40. William H. Shearouse M. M. Slavney

W. H. Shearouse

Reviewer

Supervisor, Review Section

Unit M. M. Slavney

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.

Robert R. Wagner
Compiler

M. M. Slavney
Supervisor

43. Remarks:

15.
Field Edit Report
(Shoreline)
Project PH-5704
Map T-10943

Please refer to the Field Edit Report for Map T-10942 for
all data pertaining to this map.

Submitted:

Michael L. Olivier

Michael L. Olivier

Photo Hydro Support Unit 720

TIDE COMPUTATION

PROJECT NO. Ph- 5704 T. 10943

Time and date of exposure Nov. 9, 1957

Reference station

Mobile, Mobile RiverDurnal
Mean-range1.5

Date of field inspection

April 1959
March 1959

Subordinate station

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	High tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time		Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	Photo. No.
	h.	m.				h.	m.		
High tide	24	35	1.6	✓		24	35		
Low tide	11	04	-0.3	✓				11	04
Duration of rise or fall	13	31	1.9	✓					

	h. m.		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
	h.	m.					
Time H. T. or L. T. Required time Interval	1104	✓		-0.3			
	1254	✓		0.1			56670
	150	✓		-0.2			
Time H. T. or L. T. Required time Interval	1104	✓		-0.3			
	1440	✓		0.3			56799
	336	✓		0.0			
Time H. T. or L. T. Required time Interval	1104	✓		-0.3			
	1143	✓		0.0			56584
	39	✓		-0.3			
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							

Review Report
Planimetric Maps
T-10936 thru T-10943
December 1965

61. General Statement

Area - The project encompasses Mobile Bay and its approaches.

Purpose - The object of this project is to provide base maps for nautical charting and shoreline and horizontal control data for hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-3712	1:40,000	1918
T-3713	1:40,000	1918
T-3716	1:10,000	1919
T-5532	1:20,000	1934
T-5533	1:20,000	1934

There are cultural and shoreline changes due to the differences in time interval. T-10936 thru T-10943 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

Theodore	1:24,000	1953
Rollingers	1:24,000	1953
Coden	1:24,000	1956
Bellefontaine	1:24,000	1956

See Item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-8573	1:10,000	1961
H-8575	1:10,000	1961
H-8561	1:10,000	1961
H-8587	1:10,000	1961

Shoreline and control of subject surveys was furnished prior to the hydrographic surveys and apparently no differences of importance exist.

65. Comparison with Nautical Charts

1266	1:80,000	1965
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Because of the scale difference only a visual comparison was made. No notable differences exist.

66. Adequacy of Results and Future Surveys

These maps comply with the National Map Accuracy Standards and meet Bureau requirements.

Reviewed by:

L. C. Lande
L.C. Lande

Approved by:

Charles Henry
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

L. F. Woodward
Chief, Photogrammetry Division