

10986

Original

10986

10986

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No.	Office No. T-10986
LOCALITY	
State	ALABAMA
General locality	MOBILE BAY
Locality	MULLET POINT
1957-1961	
CHIEF OF PARTY	
Joseph K. Wilson, Chief Photo Party 720	
Arthur L. Wardwell, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 10986

Project No. (II): PH-5704

Quadrangle Name (IV):

Field Office (II): Fairhope, Ala.

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Tampa District Office

Officer-in-Charge: A. L. Wardwell

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

Supplement I dated 10 Feb. 1959 (Field)

Supplement II dated 17 Aug. 1959 (Field)

Location of Aids to Navigation dated 7 Oct. 1959

Office: 7 April 1959

Office Supplement I dated 17 Aug. 1959 and 6 Oct. 1959

Field Supplement III dated 10 Nov. 1959

Method of Compilation (III): Graphic

Copy filed in Division of
Photogrammetry (IV)

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

~~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): MULLET 2, 1960

Lat.: 30°24'58.14" (1790.3 m)

Long.: 87°54'30.59" (816.4 m)

~~Adjusted~~
Unadjusted

Plane Coordinates (IV):

State:

Zone:

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.

DESCRIPTIVE REPORT - DATA RECORD

PLANIMETRIC

Areas contoured by various personnel
(Show name within area)
(II) (III)
Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Joseph K. Wilson
W. M. Reynolds
Matthew A. Stewart
Date: Sept - Oct. 1959

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

Completion Surveys by (II): *W.M. Reynolds*
Date: *June 1961*

Mean High Water Location (III) (State date and method of location): Air Photo Compilation
Date of Photography: 20 November 1957

Projection and Grids ruled by (IV): J.E.T. (W.O.)
Date: Dec. 1959

Projection and Grids checked by (IV): Shoup (W.O.)
Date: Dec. 1959

Control plotted by (III): V. P. Cackowski
Date: Apr. 1960

Control checked by (III): M. V. Carver
Date: Apr. 1960

Radial Plot ~~or Stereoscopic~~
Control extension by (III): R. R. Wagner
Date: May 1960

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

Manuscript delineated by (III): R. E. Smith
Date: June 1960

of compilation
Photogrammetric Office Review by (III): W. H. Shearouse
Date: June 1960

Elevations on Manuscript
checked by (II) (III):
Date:

DESCRIPTIVE REPORT - DATA RECORD

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

4.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
57035	20 Nov. 1957	11:55	1:10,000	- 0.1
57036	"	11:55	"	"
57027	"	11:31	"	"
57028	"	11:32	"	"
57029	"	11:32	"	"
56872	19 Nov. 1957	15:44	"	+ 0.9
56873	"	15:44	"	"
56874	"	15:45	"	"
	"			

Predicted Tide (III)

Reference Station: Mobile, Ala.

Subordinate Station: Great Point Clear, Mobile, Ala.

Subordinate Station:

Ratio of Ranges	Diurnal	
	Mean Range	Spring Range
	1.5	
	1.4	

Washington Office Review by (IV):

Date:

Final Drafting by (IV): {Scribed L.L. Graves
{Sticked L.L. Graves

Date: Jan. 1962
Apr. 1962

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): 6 Linear Miles

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 8*

Recovered: 4

Identified: 2

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): None

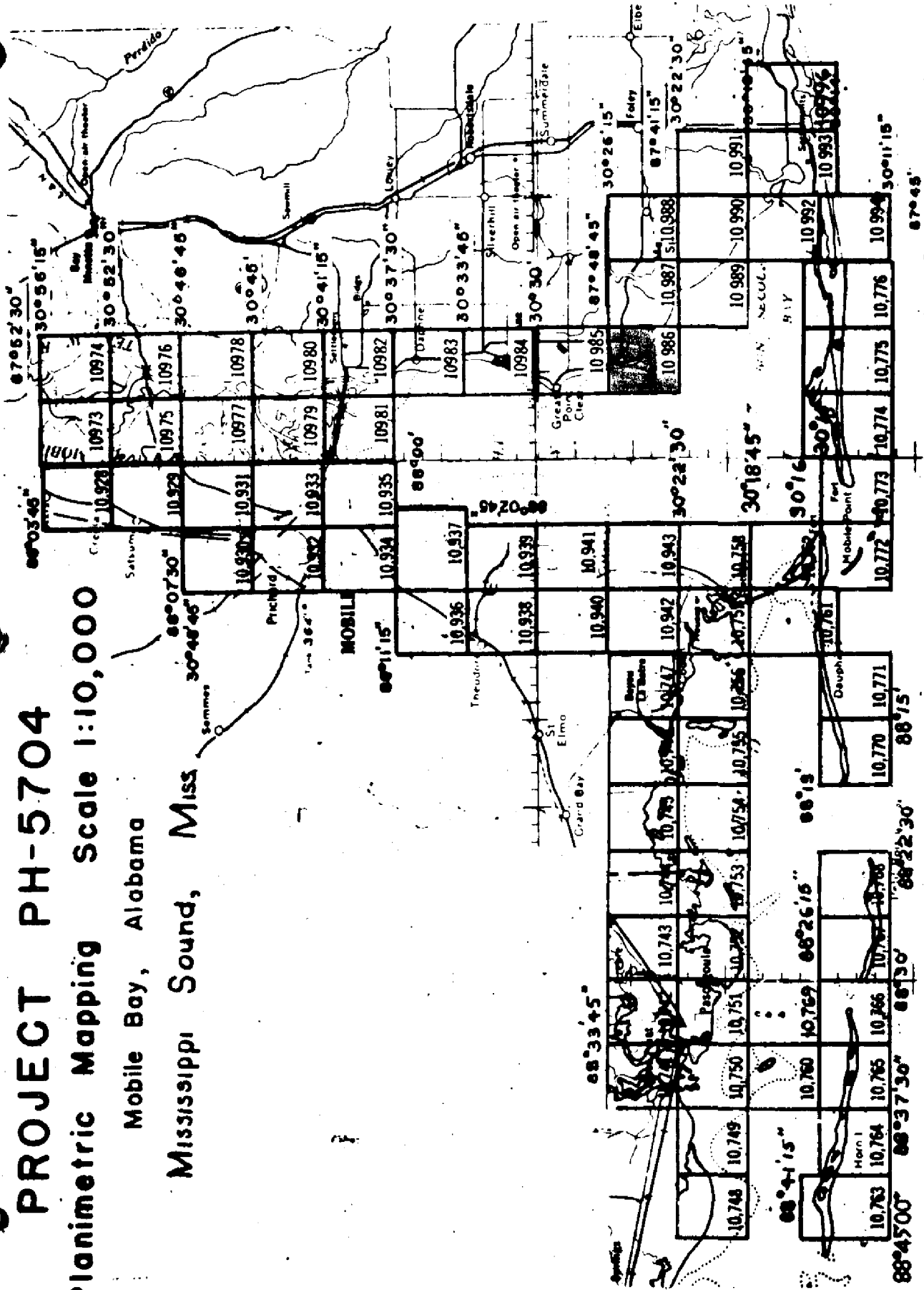
Remarks: * Including MULLET 2, 1960 which was established but no form 525 was submitted to this office.

PROJECT PH-5704

Planimetric Mapping Scale 1:10,000

Mobile Bay, Alabama

Mississippi Sound, Miss



FIELD INSPECTION REPORT
Project Ph-5704
Map T-10986

Please refer to the Field Inspection Report for Map T-10987 for all data pertaining to this map.

Submitted:

NOV 6 1959

Joseph K. Wilson
Joseph K. Wilson
Chief, Photo Party 720

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)		FORWARD	(BACK)	
MULLET	Camp,	N.A.	30 24	55.89				1721.0	✓	PR 9PC 1 Apr 60
BM 1 1935		1927	87 54	31.01				827.7	✓	✓ 0m 9C
704 AGS 1940	Baldwin Co.	"	150 710.27	✓	4	5936.6	✓			PR 9PC 11 Apr 60
	25	"	378 176.47	✓	11	5268.4	✓			✓ 0m 9C
703 AGS 1940	"	"	150 733.66	✓	4	5943.7	✓			
	"	"	376 907.58	✓	11	4881.6	✓			
702 AGS 1940	"	"	152 728.11	✓	4	6551.6	✓			
	"	"	372 312.94	✓	11	3481.2	✓			
701 AGS 1940	243	"	151 806.29	✓	4	6270.6	✓			
		"	371 739.00	✓	11	3184.4	✓			
211 AGS 1936	13	"	158 216.76	✓	4	8238.9	✓			
	G.P.S	"	378 289.14	✓	11	5302.8	✓			
LET 2 1934	39	"	30 23	42.66				1313.7	✓	"
		"	87 53	00.977				26.1	✓	"
MULLET 2, 1960	Field	"	30 24	58.14				1790.3	(57.3)	PR 9PC 22 June 60
	Camp	"	87 54	30.59				816.4	(785.1)	✓ RIP

COMM-DC-57843

COMPILATION REPORT
T-10986

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10928

31. DELINEATION

The graphic method was used. The photographs were clear and of fair scale. The field inspection was adequate.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and alongshore details have been delineated according to field inspection notes. The wooden bulkhead was only visible intermittently on the photographs. It would have been desirable for the field inspector to have taken some measurements to the bulkhead instead of merely labeling "Wo.BKHD." on the photographs.

The low water line was delineated where shown by the field inspector.

36. OFFSHORE DETAILS

All offshore platforms have been delineated according to the field inspection notes.

37. LANDMARKS AND AIDS

There is one daybeacon (Mullet Point Daybeacon) which could not be plotted as the 3 cuts did not intersect satisfactorily. This is being called to the attention of the field editor for relocation. *Re-located and Form 567 submitted under date of 15 Aug. 1961.*
There are no landmarks.

Tampa District Office
P. O. Box 190 Tampa 1 Florida

10 October 1960

To: Chief, Photogrammetry Division
Coast and Geodetic Survey
Washington, D. C.

Subject: Drainage - PH-5704 MOBILE BAY

The greater portion of the drainage in subject project consists of narrow fingers of swamp (500-1500 Ft. wide) with a perennial stream meandering through the swamp. The field inspector has complied with project instructions by delineating this drainage on the field photographs. Due to the density of the swamp trees, it is impossible to see the stream beds except for occasional short stretches.

We have carefully examined all the streams under the stereoscope on various office photographs. Comparison with the U. S. Geological Survey quadrangles indicates their drainage delineation to be more accurate than our field party's delineation. (Reference copy of memorandum to Wilson attached). One sample area has been returned to the field party and our conclusions were verified for that one particular stream.

We do not believe the streams warrant the expense of the field party traversing them for accurate location, neither do we believe that they should be mapped unless their position is fairly accurate. It appears that this drainage has been delineated on the field photographs without an adequate check with U.S.G.S. quadrangles and/or actual field investigation even though considerable time was probably spent on this phase of the field work. Considerable time has also been spent studying these discrepancies in the office.

It is suggested that the field parties be informed of a definite policy on how much time should be spent on accurately locating drainage, omitting it entirely, or using P.D.U.

On this project, since the narrow fingers of swamp indicate the drainage pattern fairly well, and the streams can be identified only in short stretches, we are omitting them as a whole.

Survey T-10938 is being scribed and will be forwarded in approximately four (4) weeks. The foregoing discrepancies will be noted on various field photographs for your attention.

It is thought that bringing this matter to your attention might eliminate similar difficulties in future projects.

(signed) William R. Kachel
LCR, C&GS
Tampa District Officer

WAR/o

38. CONTROL FOR FUTURE SURVEYS

One topographic station is listed under Item 49. Form 524 has been submitted.

39. JUNCTIONS

Junctions have been made with T-10985 to the north, T-10987 to the west. Mobile Bay is to the east and south.

40. HORIZONTAL AND VERTICALLY ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. quadrangle POINT CLEAR 1:24,000 edition of 1956. Comparison has also been made with Air Photo Compilation Maps T-5528 and T-5529, 1:20,000 dated 1934. No outstanding discrepancies were noted with the quadrangle. The air-photo compilations are obsolete.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Nautical Chart No 1266 scale 1:80,000 15th edition of 12 Mar. 1959, corrected to 16 Nov. 1959. The manuscript compares favorably with the chart.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. E. Smith Jr.
R. E. Smith Jr.
Carto Photo Aid

Approved and Forwarded:
William A. Pasare
for Arthur L. Wardwell
Chief of Party

11.
48. GEOGRAPHIC NAME LIST

Names were taken from the U.S.G.S. quadrangle POINT CLEAR; and see Item 13 in the Field Inspection Report.

ALABAMA

✓ BALDWIN COUNTY PARK
✓ BARNWELL CHURCH

CALDWELL SWAMP

EASTERN SHORE BOULEVARD

✓ GREENO BOULEVARD
GUM SWAMP

MOBILE BAY
MULLET POINT
MULLET POINT ROAD

✓ ST MARKS CHURCH

THE MEADOWS
TURKEY BRANCH

U.S. HIGHWAY 98

WEEKS BRANCH

*Names checked
and approved
12 - 10 - 65
A. J. Wraight*

49. NOTES FOR THE HYDROGRAPHER

One (1) topographic station was established.

EVER, 1959

50

PHOTOGRAMMETRIC OFFICE REVIEW
OF ADVANCE COMPILED MANUSCRIPT
10986

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 WHS 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 WHS 14. Rocks, shoals, etc. WHS 15. Bridges XX 16. Aids to navigation WHS 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 XX 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. W.H. Shearouse

W.H. Shearouse

Reviewer

M.M. Slavney
Supervisor, Review Section of 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.

R.R. Wagner
R.R. Wagner

Compiler

M.M. Slavney
M.M. Slavney

Supervisor

43. Remarks:

FIELD EDIT REPORT

Maps T-10983 thru T-10986

Project Ph-5704

51. METHODS

Field edit of the above manuscripts was limited to the areas immediately along the shoreline. The area was traversed by skiff running close to shore. The completeness of the compilation was checked and all additions or corrections have been noted.

One field edit sheet was used for each manuscript. All additions or corrections have been noted on the field edit sheet and cross-referenced to the field photographs. The additions consisted mainly of adding piers, which have been constructed since photography. All additions or corrections have been noted with violet ink on both the field edit sheet and the field photographs. The following field photographs were used during field edit; 56879, 56880, 56882, 57021, and 57022.

52. ADEQUACY OF COMPILATION

Measurements were taken to the mean high water line to check its delineation on the manuscripts. In most cases the delineation, as shown on the manuscript, is correct. The buildings, piers, etc., were checked visually and after application of the field edit information; the compilation will be adequate.

53. MAP ACCURACY

The area along the shoreline was checked and appears to be good.

54. RECOMMENDATIONS

None are offered.

55. EXAMINATION OF PROOF COPY

None of the people contacted during field edit were considered qualified to adequately read or correct a map. Therefore, none are recommended.

Submitted

William M. Reynolds
William M. Reynolds

Sub. Unit Photo Party 720

TIDE COMPUTATION

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. 5704 T-10986

Time and date of exposure 1545-19 Nov. 1957

Reference station

MOBILE, ALA.

Diurnal 1.4
Mean range

Date of field inspection Oct. 1957

Subordinate station

Great Point Clear, Mobile Bay

Ratio of ranges

	Time	
	h.	m.
High tide	21	03
Low tide	7	33
Duration of rise or fall	13	30

	Height feet	Height x Ratio of ranges
High tide	-0.1	1.4
Low tide	0.0	-0.2
Range of tide		1.6

	Time	
	h.	m.
High tide at Ref. Sta.	22	03
Time difference	-1	00
Corrected time at Subordinate station	21	03

	Time	
	h.	m.
Low tide at Ref. Sta.	8	33
Time difference	-1	00
Corrected time at Subordinate station	7	33

	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.
Time H. T. or L. T.	21	03	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	1.4	Feature bares	Stage of tide above MLW	Feature above MLW		56873
Required time Interval	15	48	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	0.5	Feature bares	Stage of tide above MLW	Feature above MLW		
	5	15	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	0.9	Feature bares	Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW		Feature bares	Stage of tide above MLW	Feature above MLW		
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.			Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW		Feature bares	Stage of tide above MLW	Feature above MLW		
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.			Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW		Feature bares	Stage of tide above MLW	Feature above MLW		
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		

Computed by P.E. Smith
Checked by W.P. Kachal

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. PH. 5704 T - 10986

Time and date of exposure 11:32 - 20 Nov 1959 Reference station MOBILE ALA

Durnal 1.4
Mean range

Date of field inspection Oct. 1959 Subordinate station Great Point, Mobile, Ala. Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Range of tide	Time	
	h.	m.				h.	m.
High tide	21	39	-0.1	1.5	High tide	22	39
Low tide	8	12	0.0	-0.4	Low tide	1	00
Duration of rise or fall	13	27		1.9	Corrected time at Subordinate station	21	39
					Corrected time at Subordinate station	8	12

	Time		Height feet	Height x Ratio of ranges	Range of tide	Time		Photo. No.
	h.	m.				h.	m.	
Time H. T. or L. T. Required time Interval	8	12	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	-0.4 0.3 -0.1	Feature bares Stage of tide above MLW Feature above MLW			57028
Time H. T. or L. T. Required time Interval	11	32	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	3	20	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			

COMM-DC-57848

Computed by G.E. J. [Signature] Checked by W.S. Kadel

Review Report
Planimetric Maps
T-10931 thru T-10988
November 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 charts and shoreline and horizontal control data for hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-5528	1:20,000	1934
T-5529	1:20,000	1934
T-5530	1:20,000	1934
T-3712	1:40,000	1918
T-3713	1:40,000	1918

Cultural and shoreline changes have been continuous. These maps are to supersede the above surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

Bridgehead	1:24,000	1953
Daphne	1:24,000	1953
Point Clear	1:24,000	1956
Weeks Bay	1:52,500	1950

See Item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-8562	1:10,000	1960
H-8574	1:10,000	1960
H-8588	1:10,000	1961
H-8635	1:10,000	1961
H-8636	1:10,000	1961
H-8592	1:10,000	1960

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

65. Comparison with Nautical Charts

1266

1:50,000

1965

Differences exist; however, there are to ^{none} be applied immediately.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the requirement for nautical charting.

Reviewed by

L.C. Lande
L.C. Lande

Charles Stenun
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

L.F. Woodcock
Chief, Photogrammetry Division