ORIGINAL

T-10981

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. ..... *Office No.* T-10981

LOCALITY

State ALABAMA

General locality MOBILE BAY

Locality COCHRANE BRIDGE

1957 – 1961

CHIEF OF PARTY
Joseph K. Wilson, Chief, Photo Party 720
Arthur L. Wardwell, Tampa District Officer

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

T-10981

T-10981

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

/.

T -10981

Project No. (II): Ph-5704 Quadrangle Name (IV):

Field Office (II): Fairhope, Alabama Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): (II) 23 June 1958 (Field)
10 Feb. 1959 (Field Suppl. 1)
Copy filed in Division of Photogrammetry (IV)

(III) 7 April 1959 (Office)
17 August 1959 (Office Suppl. 1)
17 August 1959 (Field Suppl. 2)
9 September 1959 (Stereo Bridging)
6 October 1959 (Office Suppl. 1)
10 November 1959 (Field & Office Suppl.3)

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): FEB 1 : 1962 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): COCHRANE, 1935

Lat.: 30°40'19.751" (608.2 m.) Long.: 87°56'56.640" (1507.8 m.) Adjusted ~~Unadjusted~~

Plane Coordinates (IV): COCHRANE, 1935 State: ALABAMA Zone: West

Y= 244,724.09 Ft. X= 358,819.07 Ft.

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

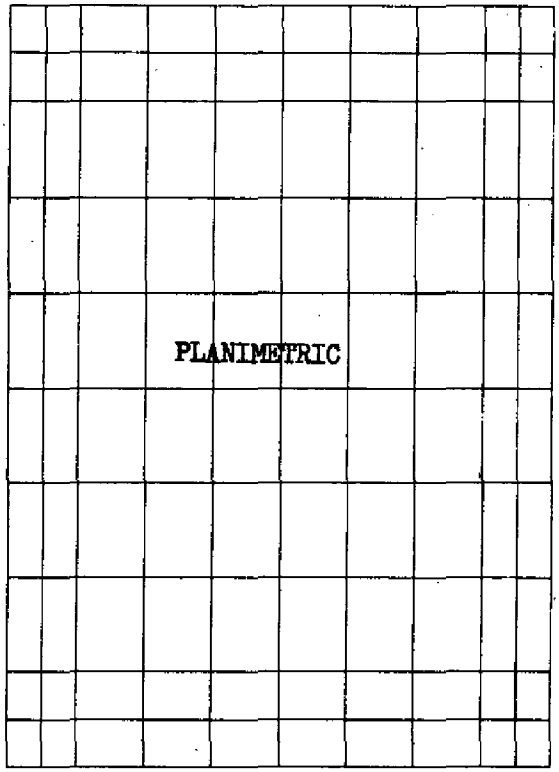
When entering names of personnel on this record give the surname and initials, not initials only.

COMM-DC-57842

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

Inapplicable

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. M. Reynolds Date: Sept. 1959

Planetable contouring by (II): Inapplicable Date:

Completion Surveys by (II): W. V. Hull Date: April 1961

Mean High Water Location (III) (State date and method of location): 19 & 20 November 1957, Date of Air Photo Compilation Photography

Projection and Grids ruled by (IV): JET (W.O.) Date: Dec. 1959

Projection and Grids checked by (IV): P. J. Dempsey (W.O.) Date: Dec. 1959

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

Control checked by (III): E. T. Ogilby Date: 8 Apr. 1960

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

Stereoscopic Instrument compilation (III): Planimetry Inapplicable Date:

Contours Date:

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

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

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

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

4

DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
56884	19 Nov. 1957	1550	1:10,000	+ 0.7
56885	19 Nov. 1957	1550	"	+0.7
56969	20 Nov. 1957	1055	"	-0.3
56970	20 Nov. 1957	1056	"	-0.3
56964	20 Nov. 1957	1047	"	-0.3

Tide (III)
Predicted

Diurnal

Ratio of Ranges	~~Mean~~ Range	Spring Range
-	1.5	-

Reference Station: MOBILE, ALA
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): Date:

Final Drafting by (IV): R. Dossett(Tampa District Office) Date: Dec. 1961
" " Reviewed by: W. H. Shearouse (Tamp. Dist. Off.) Jan. 1962
Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 2
Shoreline (More than 200 meters to opposite shore) (III): 19
~~Shoreline (Less than 200 meters to opposite shore) (II)~~:
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 4 Recovered: 0 Identified: 0
Number of BMs searched for (II): None Recovered: 0 Identified: 0
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

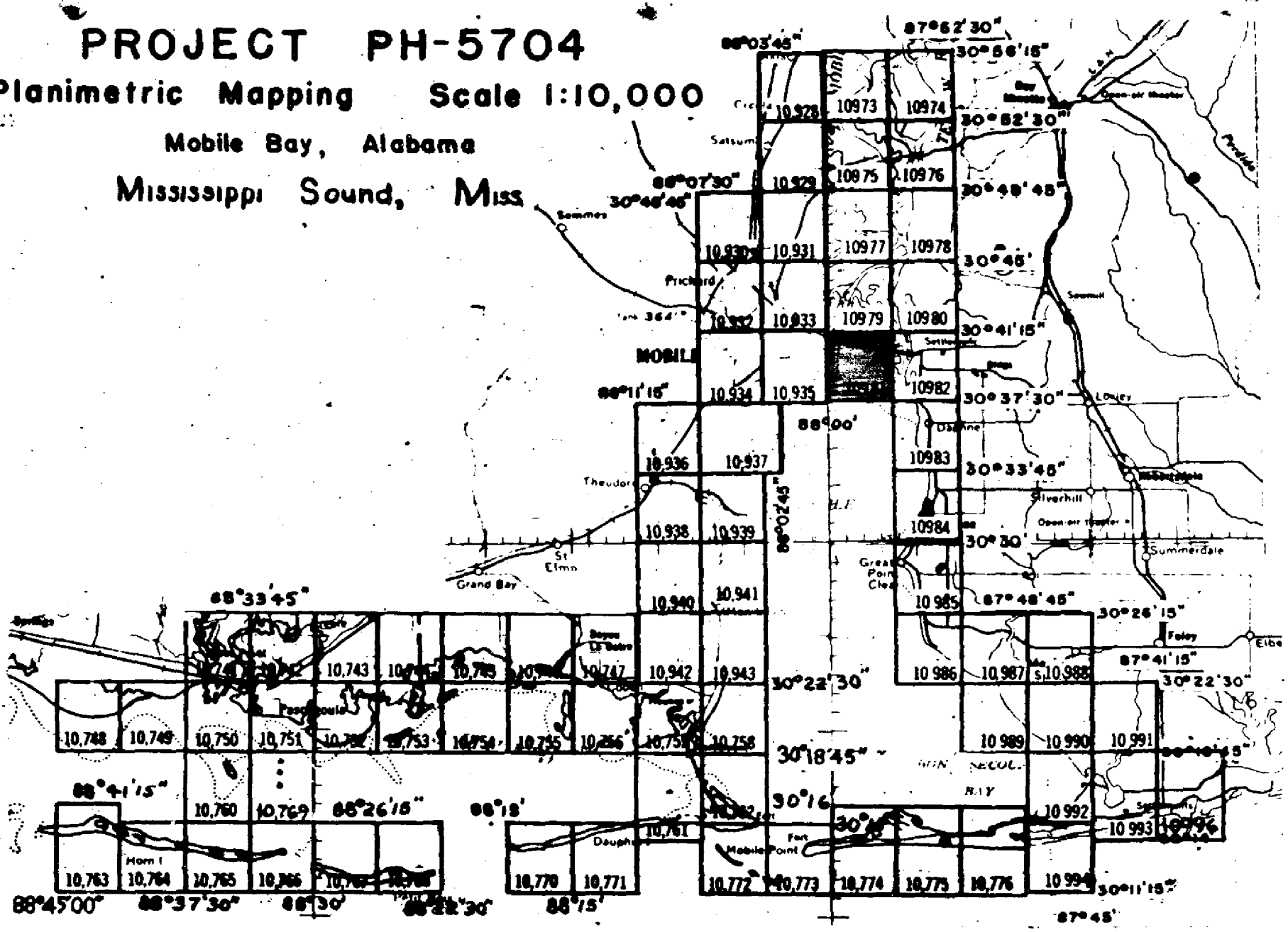
Remarks:

PROJECT PH-5704

Planimetric Mapping Scale 1:10,000

Mobile Bay, Alabama

Mississippi Sound, Miss.



FIELD INSPECTION REPORT
Project Ph-5704
Map T-10981

Please refer to the Field Inspection Report for Map T-10984 for all data pertaining to this map.

Submitted:

OCT 16 1959

Joseph K. Wilson

Joseph K. Wilson
Chief, Photo Party 720

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 10981 PROJECT NO. Ph 5704 SCALE OF MAP 1:10,000 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 FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
COCHRANE 1935	Baldwin Co. Pg xx	N.A. 1927	244,724.09 358,819.07	7 4592.1 10 9368.3	Not Recovered.		PI of PC 8 Apr 60 ✓ E.J.O.
569 AGS 1939	Page 21 Baldwin County	"	246,738.59 ✓ 347,650.36 ✓	7 5206.1 ✓ 10 5964.1 ✓	Lost		"
570 AGS 1939	"	"	247,198.00 ✓ 345,298.93 ✓	7 5346.1 ✓ 10 5247.3 ✓	Lost		"
182 AGS 1939	Pg xx "	"	244,237.89 ✓ 360,595.62 ✓	7 4443.9 ✓ 10 9909.8 ✓	Lost		"

1 FT. = .3048006 METER

COMPUTED BY: W W D DATE 29 Jan '60 CHECKED BY: HS DATE 29 Jan '60

COMM-DC-57843

COMPILATION REPORT T-10981

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10928.

31. DELINEATION

The graphic method was used. Photographs were clear and of fair scale. 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. Only the low-water line shown by the field inspector has been delineated. No shoal limits were shown. Shoreline inspection was adequate.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junction has been made with T-10979 on the north; T-10982 on the east; and T-10935 on the west; bounded by water on the south (Mobile Bay).

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U. S. Geological Survey Quadrangle BRIDGEHEAD, ALABAMA, scale 1:24,000 of 1939 revised 1953. Comparison was also made with C&GS Planimetric Map No. T-5530, scale 1:20,000, compiled from aerial photographs of 1934. Shoreline and cultural changes noted were to be expected due to the passage of time.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Nautical Chart No. 1266, scale 1:80,000, 15th edition, corrected to July 1960. Similar changes as noted under Item 46 apply here and are normal for the period of time involved.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

Rexford E. Smith, Jr.
Carto Photo Aid

APPROVED & FORWARDED

Arthur L. Wardwell
Tampa District Officer

48. GEOGRAPHIC NAME LIST

Geographic names were taken from Nautical Chart No. 1266 and U. S. Geological Survey Quadrangle BRIDGEHEAD, ALABAMA. There are no conflicts. Highway numbers were obtained from the latest available road maps.

ALABAMA
APALACHEE RIVER

BALDWIN COUNTY
BAY JOHN
BIG ISLAND

CHACALOOCHEE BAY
COCHRANE BRIDGE

DUCKER BAY

JUSTINS BAY

MOBILE BAY
MOBILE COUNTY

OLD SPANISH TRAIL

PASS PICADA

SARDINE PASS
STATE 16
STATE 42

TENSAW RIVER

U S 31
U S 90
U S 98

Names checked & approved
12-10-65
A. J. Wright

49. NOTES FOR THE HYDROGRAPHER

There were no topographic stations established.

COMPILATION RECORD	COMPLETION DATE	REMARKS
All planimetry compiled	Sept. 1960	Superseded
Revised from alongshore field edit.	June 1961	

FORM 182 (3-61) 50.

PHOTOGRAMMETRIC OFFICE REVIEW
T-10931

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
WHS	WHS 2a. Classification label unclassified	WHS	WHS

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)
WHS	XX

7. PHOTO HYDRO STATIONS	8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT
XX	XX	XX	MMS

11. DETAIL POINTS: WHS

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
WHS	WHS	XX	WHS

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES
XX	XX	WHS

19. OTHER ALONGSHORE CULTURAL FEATURES: WHS

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER
WHS	WHS
22. PLANETABLE CONTOURS	23. STEREOSCOPIC INSTRUMENT CONTOURS
XX	XX
24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS
XX	XX

26. OTHER PHYSICAL FEATURES: WHS

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS
WHS	WHS	XX

30. OTHER CULTURAL FEATURES: WHS

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
WHS	XX

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS
WHS	WHS

35. LEGIBILITY OF THE MANUSCRIPT	36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT
WHS	XX	WHS

38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
WHS	WHS
SIGNATURE OF REVIEWER: William H. Shearouse William H. Shearouse	SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT: M. M. Slavney M. M. Slavney

40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT-Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.

SIGNATURE OF COMPILER	SIGNATURE OF SUPERVISOR
R. Dossett R. Dossett	M. M. Slavney M. M. Slavney

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25363-P61

FIELD EDIT REPORT

for T-10981

Please refer to the Descriptive Report submitted for T-10928.

FORM 163
(4-27-54)

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-5704 T-10981

Time and date of exposure 1056-20 NOV. 1957 Reference station MOBILE ALA ~~Mean range~~ Diurnal 1.5

Date of field inspection July 1959 Subordinate station Ratio of ranges

	Time h.	Time m.
High tide	22	39
Low tide	9	12
Duration of rise or fall	13	27

	Height feet	Height x Ratio of ranges
High tide	1.6	1.6
Low tide	-0.4	-0.4
Range of tide		2.0

	Time h. m.
High tide at Ref. Sta.	
Time difference	
Corrected time at Subordinate station	

	Time h. m.
Low tide at Ref. Sta.	
Time difference	
Corrected time at Subordinate station	

	h. m.		feet		feet	Photo. No.
Time ~~H. T.~~ or L. T.	9 12	Ht. ~~H. T.~~ or L. T.	-0.4	Feature bares		56970
Required time	10 56	Tabular correction	0.1	Stage of tide above MLW		
Interval	1 44	Stage of tide above MLW	-0.3	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		
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		

COMM-DC-57848

Computed by P.E.J. Checked by 115

FORM 163
(4-27-54)

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-5904T-10981

Time and date of exposure 1550 - 19 NOV. 1957 Reference station MOBILE ALA Diurnal ~~Mean range~~ 1.5

Date of field inspection Sept. 1959 Subordinate station Ratio of ranges

	Time h. m.
High tide	22 03 ✓
Low tide	8 33 ✓
Duration of rise or fall	13 30 ✓

	Height feet	Height x Ratio of ranges
High tide	1.5	1.5 ✓
Low tide	-0.2	-0.2 ✓
Range of tide		1.7 ✓

	Time h. m.
High tide at Ref. Sta.	
Time difference	
Corrected time at Subordinate station	

	Time h. m.
Low tide at Ref. Sta.	
Time difference	
Corrected time at Subordinate station	

	h. m.		feet		feet	Photo. No.
Time H. T. ~~or L. T.~~ Required time Interval	2203 ✓ 15:50 ✓ 6:13 ✓	Ht. H. T. ~~or L. T.~~ Tabular correction Stage of tide above MLW	1.5 ✓ 0.8 ✓ 0.7 ✓	Feature bares Stage of tide above MLW Feature above MLW		56884
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 R.E.S. Checked by 115

Review Report
Planimetric Maps
T-10981 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 supersedethe 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	1:62,500	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 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

Differences exist; however, there are none to 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

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

Chief, Photogrammetry Division