10985

Original

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. ..... *Office No.* T-10985

LOCALITY

State ALABAMA

General locality MOBILE BAY

Locality GREAT POINT CLEAR

1957- 1961

CHIEF OF PARTY

Joseph K. Wilson, Chief Photo Party 720
Arthur L. Wardwell, Tampa District Office

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

10985

10985

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T- 10985

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): Field: 23 June 1958
Field Supplement I - 10 Feb. 1959
Field Supplement II - 17 Aug. 1959
Location of Aids to Navigation dated 7 Oct. 1959
Office: 7 April 1959
Office Supplement I - 17 Aug. 1959 & 6 Oct. 1959
Field Supplement III - 10 Nov. 1959

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III):

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): CLEAR 2 1935

Lat.: 30°28'58.823" (1811.4 m) Long.: 87°56'11.038" (294.4 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.

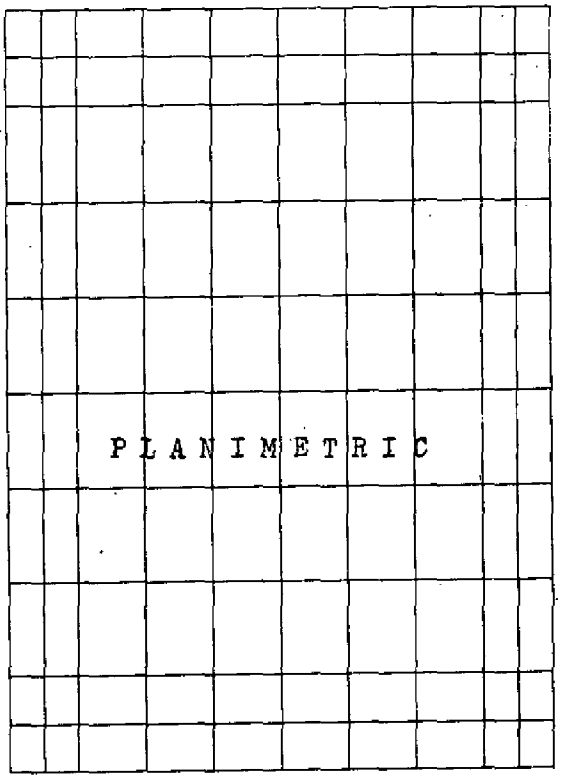
When entering names of personnel on this record give the surname and initials, not initials only.

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)

3.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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: 19 Nov. 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. Cackowski — Date: April 1960

Control checked by (III): M.CARVER — Date: April 1960

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

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

Manuscript delineated by (III): I. I. Saperstein of compilation — Date: June 1960

Photogrammetric Office Review by (III): W. H. Shearouse — Date: July 1960

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

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

4.

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U.S.C.& G.S. 9-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
56874	19 Nov. 1957	15:44	1:10,000	≠ 0.9
56875	" " "	15:45	"	"
56876	" " "	15:46	"	"
57025	20 " "	11:30	"	≠ 1.5
57026	" " "	11:31	"	"
57034	" " "	11:55	"	"

Predicted
Tide (III)

Diurnal

~~Ratio of~~ Ranges	~~Mean~~ Range	Spring Range
[illegible]	1.4	

Reference Station: MOBILE
Subordinate Station: GREAT POINT CLEAR, MOBILE BAY
Subordinate Station:

Washington Office Review by (IV): Date:

Final Drafting by (IV): {Scribed L.L. Graves / Stickup C.C. Harris} Date: Feb. 1962 / Apr. 1962

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 12
Shoreline (More than 200 meters to opposite shore) (III): 8 Linear miles
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 18* & ** Recovered: 7*** Identified: 7***
Number of BMs searched for (II): 1 Recovered: 1 Identified: 1
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III): 0
Number of Marked Topographic Stations established: 1

Remarks:
* Including 5 stations East and West of project limits.
** POINT CLEAR. GRAND HOTEL W.T. was established in 1959 but no Form 525b was submitted.
*** Includes 1 station West of project limits.

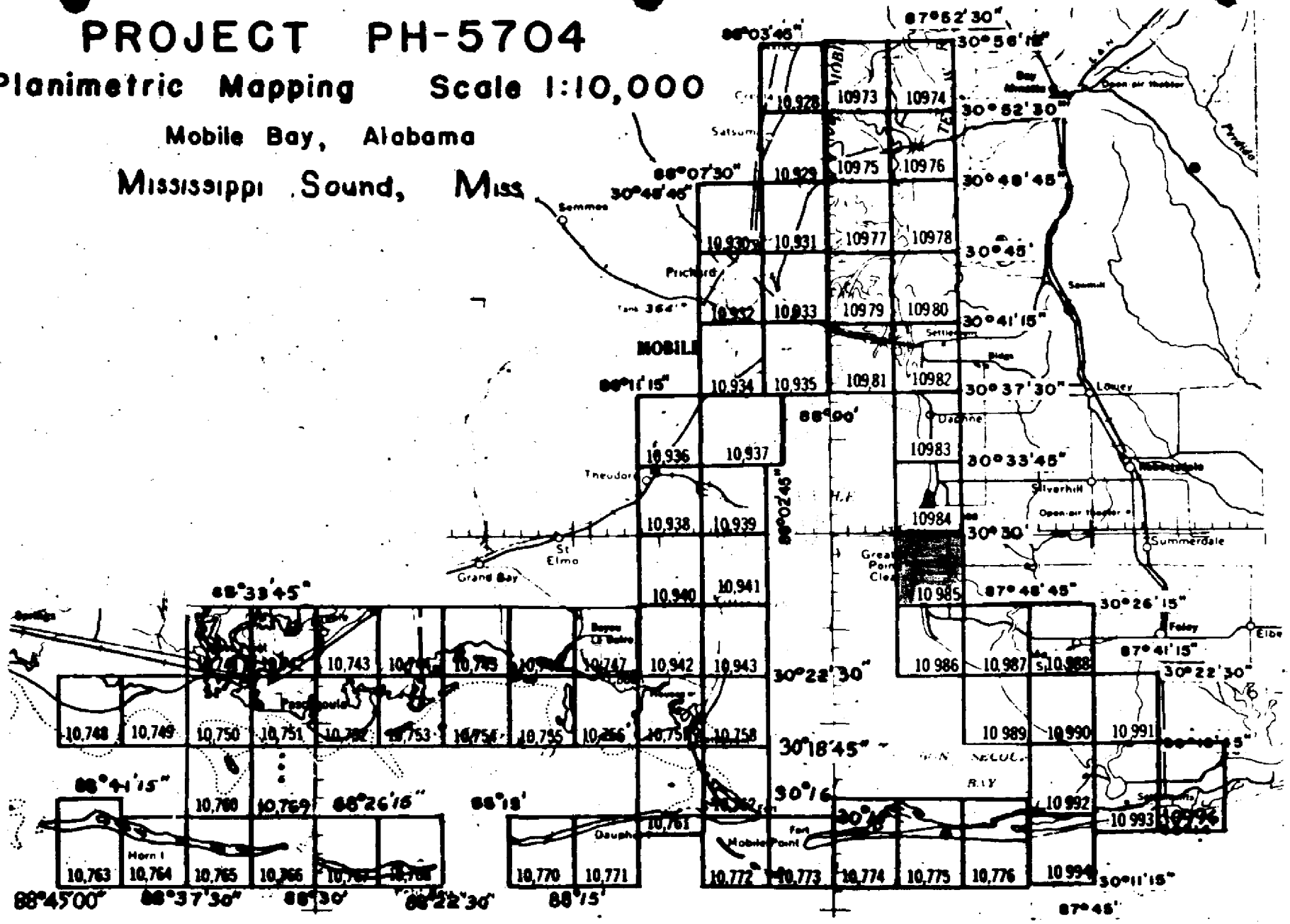
COMM-DC-57842

PROJECT PH-5704

Planimetric Mapping Scale 1:10,000

Mobile Bay, Alabama

Mississippi Sound, Miss



4

FIELD INSPECTION REPORT
Project Ph-5704
Map T-10985

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

FORM 164 (4-23-54)

U.S. DEPARTMENT OF COMMERCE — COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

182

MAP T-10985 PROJECT NO. 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)
	GPS		30 28 58.823 ✓				1811.4 ✓		Pl 9PC 11 Apr 60	
CLEAR 2 1935	58		87 56 11.038 ✓				294.4 ✓		✓ m.9.c.	
	Baldwin Co. Plane		181 292.83 ✓	5	5258.2 ✓				Pl 9PC 8 Apr 60	
278 AGS 1936	38		378 354.35 ✓	11	5322.6 ✓				✓ m.9.c.	
	P.C.		172 465.74 ✓	5	2567.7 ✓				"	
84 AGS 1936	31		368 069.95 ✓	11	2187.9 ✓				"	
			164 603.00 ✓	5	0171.1 ✓				"	
83 AGS 1936	3		369 092.60 ✓	11	2499.6 ✓				"	
			177 898.65 ✓	5	4223.6 ✓				"	
87 AGS 1936	3		364 203.41 ✓	11	1009.4 ✓				"	
			164 869.67 ✓	5	0252.4 ✓				"	
82 AGS 1936	3		372 644.24 ✓	11	3582.2 ✓				"	
GREAT POINT	GPS		30 28 41.231 ✓				1269.7 ✓		Pl 9PC 11 Apr 60	
CLEAR BEACON 1935	67		87 57 18.327 ✓				488.8 ✓		✓ m.9.c.	
	Baldwin Co.		159 992.90 ✓	4	8765.9 ✓				Pl 9PC 11 Apr 60	
700 AGS 1940	2		370 151.65 ✓	11	2822.4 ✓				✓ m.9.c.	
			161 955.19 ✓	4	9364.0 ✓				"	
699 AGS 1940	2		370 093.02 ✓	11	2804.6 ✓				"	
			160 824.04 ✓	4	9019.3 ✓				"	
119 (USE) AGS 1936	13		378 272.68 ✓	11	5297.7 ✓				"	
	P.C.		167 544.23 ✓	5	1067.6 ✓				"	
SMILEY 1930	3		373 162.29 ✓	11	3740.1 ✓				"	
	Baldwin Co.		176 127.27 ✓	5	3683.7 ✓				"	
186 AGS 1936	2		363 557.63 ✓	11	0812.6 ✓				"	

1 FT. = .3048006 METER

COMPUTED BY: DATE CHECKED BY: HWD DATE Jan 11 60

COMM-DC-57843

FORM 164
(4-23-54)

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

282

MAP T-10985 PROJECT NO. 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)
	Baldwin Co.		173 593.79 ✓	5	2911.5 ✓				PL 9/PC 11 Apr 60	
185 AGS 1936	2		367 306.24 ✓	11	1955.2 ✓				✓ 2nd	
	P.C.		1168 461.56 ✓	5	1347.1 ✓				11	
SMILEY AZ MK 1930	3		372 907.41 ✓	11	3662.4 ✓				11	
POINT CLEAR, GRAND HOTEL	Field		30 29 01.16				35.7		PI RLW	
WATER TANK 1953	Pos		87 56 01.89				50.4		✓ 11 5	

1 FT. = .3048006 METER

COMPUTED BY: DATE CHECKED BY: CWD DATE Jan 11 60

COMM-DC-57843

COMPILATION REPORT
T-10985

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10994

31. DELINEATION

The graphic method was used.

The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate except some of the shoreline along Pt. Clear Creek was difficult to discern because of high trees and the shadows cast from them.

No low water or shoal lines were shown, none being noted by the field inspector.

36. OFFSHORE DETAILS

The only offshore details are stakes, pier ruins and diving platforms.

37. LANDMARKS AND AIDS

One landmark has been established. One aid to navigation, GREAT POINT CLEAR LIGHT falls west of the manuscript but is listed on the Form 567 submitted in July 1960.

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
LCdR, C&GS
Tampa District Officer

WAR/o

38. CONTROL FOR FUTURE SURVEYS

One recoverable topographic station has been established and Form 524 submitted. This station has been listed under Item 49.

39. JUNCTIONS

Junction has been made with the following: T-10984 to the north, T-10986 to the south, Mobile Bay to the west. No contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. quadrangle POINT CLEAR, scale 1:24,000, topography in 1956. There are no appreciable changes. Comparison has also been made with Air Photo Compilation T-5529, 1:20,000 dated 1934; many cultural changes have occured since its compilation.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 1266, scale 1:80,000, revised 16 Nov. 1959.

The maps listed under Item 46 are probably the source of topography for the chart, except the chart has labelled the swamp areas along the coast Marsh.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Irving J. Saperstein
I. I. Saperstein
Cartographer (Photo)

Approved and Forwarded:

William A. Rosure
for Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST

Names were taken from the POINT CLEAR quadrangle.

ALABAMA
ANNE YORK CEMETERY
ANTIOCH CHURCH

BAILEY CREEK
BATTLES WHARF
BETHEL CHURCH AND CEMETERY

CALDWELL SWAMP
CONFEDERATE REST CEMETERY

DIXIE ROAD

EASTERN SHORE BOULEVARD

GHOST HEAD SWAMP
GREAT POINT CLEAR
GREENO BOULEVARD

LAKEWOOD COUNTRY CLUB
LILY LAKE

MOBILE BAY

POINT CLEAR

SACRED HEART CHURCH

TITI SWAMP
TURKEY BRANCH
TWIN BEACH CEMETERY

U. S. HIGHWAY 98

WATERHOLE BRANCH

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

49. NOTES FOR THE HYDROGRAPHER

One (1) recoverable topographic station has been established.

BANK, 1959.

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

50

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE COMPILATION MANUSCRIPT

T- 10985

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

4a Classification label Unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads WWD 28. Buildings WWD 29. Railroads XX 30. Other cultural features WWD

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WWD 34. Junctions WWD 35. Legibility of the manuscript WWD 36. Discrepancy overlay XX 37. Descriptive Report WWD 38. Field inspection photographs WWD 39. Forms WWD

40. W.W. Dawsey — Reviewer (W.W.Dawsey) — M.M. Slavney — Supervisor, Review Section or 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.

Irving L. Saperstein — Compiler (I.I.Saperstein) — M.M. Slavney — Supervisor (M.M.Slavney)

43. Remarks:

COMM-DC 34529

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

PROJECT NO. Ph- 5704 T- 10985

Time and date of exposure 1545 19NOV1957 — Reference station MOBILE — ~~Mean range~~ Diurnal 1.4

Date of field inspection Oct 1959 — Subordinate station Great Point Clear, Mobile Bay — Ratio of ranges H.W. -0.1 L.W 0.0

	Time h.	Time 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	1.5	1.4
Low tide	-0.2	-0.2
Range of tide		1.6

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

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

	h. m.		feet		feet	Photo. No.
Time H. T. ~~or L. T.~~	21 03	Ht. H. T. ~~or L. T.~~	1.4	Feature bares		56875
Required time	15 45	Tabular correction	0.5	Stage of tide above MLW		
Interval	5 18	Stage of tide above MLW	0.9	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		

M-2617-12

Computed by 115 — Checked by E.G.O.

Review Report
Planimetric Maps
T-10951 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	1:62,500	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

L. F. Woodcock

Chief, Photogrammetry Division