10773

Original

10773

10773

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. *Office No.* T-10773

LOCALITY

State Alabama

General locality Mobile Bay

Locality Fort Morgan

1958-60 *

CHIEF OF PARTY

Roger F. Lanier, Chief of Field Party
Arthur L. Wardwell, Tampa District Office

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

* REFER TO PAGE 6 OF THIS REPORT

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T -10773

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

Field Office (II): Pascagoula, Mississippi Chief of Party: Roger F. Lanier

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)
(III) 7 Apr. 1959 (Office)
" 17 Aug. 1959 (Office Suppl.1)
" 17 Aug. 1959 (Field Suppl.2)

Copy filed in Division of Photogrammetry (IV)
(III) 9 Sept. 1959 Stereo Bridging
" 6 Oct. 1959 (Office Suppl.1)
" 10 Nov. 1959 (Field and Office Suppl.3)
~~29 Aug 1962 (Office Supp 4)~~

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): NOV 3 - 1959 Date reported to Nautical Chart Branch (IV):
FINAL - APRIL 15, 1968

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW
~~Horizontal~~ 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): FORT MORGAN 1846

Lat.: 30°13'42.022" (1293.9 m) Long.: 88°01'23.698" (633.7 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-57642

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

25

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Leo F. Beugnet
William M. Reynolds
Date: Aug. 1958

Planetable contouring by (II): Inapplicable
Date:

Completion Surveys by (II): C.H. Nixon
Date: March 1960

Mean High Water Location (III) (State date and method of location): Air photo compilation
Date of Inspection Aug. 1958

Projection and Grids ruled by (IV): P. Dempsey (W.O.)
Date: Oct. 1958

Projection and Grids checked by (IV): R. D. Shoup (W.O.)
Date: Oct. 1958

Control plotted by (III): R. J. Pate
Date: May 1959

Control checked by (III): R. R. Wagner
Date: May 1959

Radial Plot ~~or Stereoscopic~~
~~Controlextension~~ by (III): R. R. Wagner
Date: Aug. 1959

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

Manuscript delineated by (III): R. E. Smith
Date: Aug. 1959

~~Revision by F.A. Wright~~
~~Oct 1962~~

Photogrammetric Office Review by (III): W. H. Shearouse of compilation
Date: Aug. 1959

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

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

3 ~~4~~

Camera (kind or source) (III): 9-lens C&GS and Wild "L" Single-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
56760	9 Nov. 1957	14:29	1:10,000	+ 0.2 ***
56761	"	14:30	"	"
57L2524	"	14:30	" Ratio	"
57L2525	"	14:30	" "	"
~~62 W 4793-4794~~	~~7 May 1962~~	~~1500~~	" "	~~1.5 above MLW~~

Tide (III)

See Proj. Inst. 23 June 1958, Item 10

	Ratio of Ranges	Mean Range	Spring Range
Reference Station:			
Subordinate Station:			
Subordinate Station:			

Washington Office Review by (IV): Leo F. Bouchard, Atlantic Marine Center Date: Feb. 1968

Final Drafting by (IV): R.E.Smith and V.P, Cackowski, Date: June 1960
Final Drafting Review: I.I. Saperstein July 1960
Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 1
Shoreline (More than 200 meters to opposite shore) (III): 6
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 9* Recovered: 6*(4) Identified: 6*(4)
Number of BMs searched for (II): 6** Recovered: 6 Identified: 1
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Remarks: * Includes 2 stations established, 2 fourth order Alabama Geodetic Survey stations and 1 identified but destroyed (tank footings)
** Only tidal bench marks were searched for.
*** Item 10 of project instructions of 23 June 1958, states that the photographs were flown at approximately 0.2 ft. of tide.

ALABAMA GEODETIC SURVEY STATION "597" IS NOT CONSIDERED THIRD ORDER (SEE FIELD INSPECTION REPORT), AND IS SYMBOLIZED WITH A CIRCLE.

COMM-DC-57842

T-10773

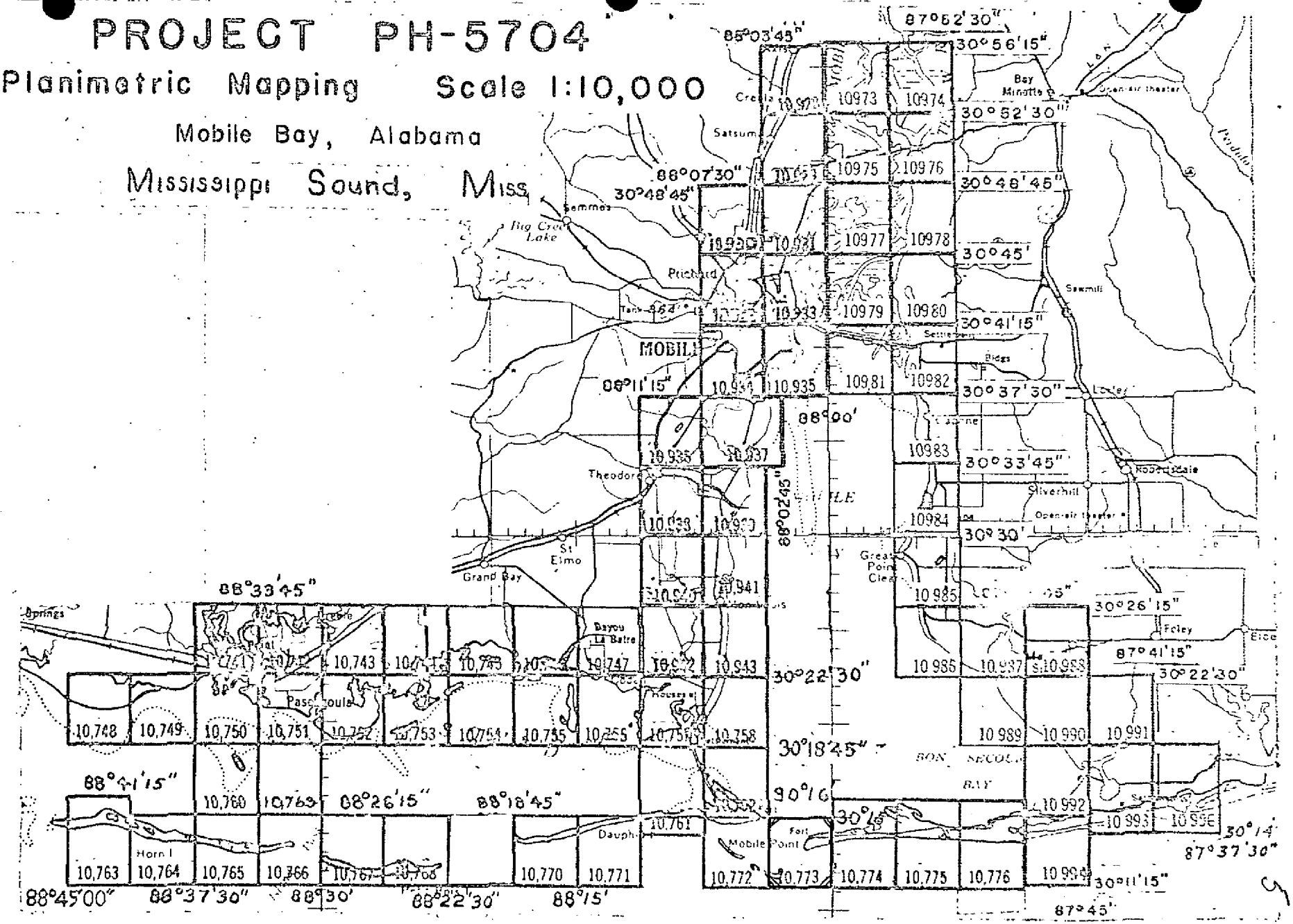
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	August 1959	
Field Edit	March 1960	
Final Review	February 1968	

PROJECT PH-5704

Planimetric Mapping Scale 1:10,000

Mobile Bay, Alabama

Mississippi Sound, Miss



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10773

Planimetric Survey T-10773 is one of seventy-four similar surveys in Project PH-5704. The primary purpose of the project was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be made in the same area. This survey covers the shoreline on the east side of the entrance to Mobile Bay in the Fort Morgan area. See page 5 of this report for the position of the survey within the project.

Field work preceded compilation. This consisted of recovery and/or establishment and identification of horizontal control, shoreline and field inspection, Geographic Names Investigation and Report on Boundaries.

Compilatiion was at 1:10,000 scale by graphic methods using the 9-lens photography of November 1959. Cronaflex copies of the manuscript along with specially prepared photographs and ozalid prints were furnished for preparation of the boat sheet, location of photo-hydro stations and field edit use.

The manuscript was a vinylite sheet 3 3/4 minutes in latitude by 3 3/4 minutes in longitude, which was scribed and reproduced on cronaflex. A cronar positive and cronar negative are provided for record and registry.

* This map was revised in 1962. Refer to pages 29 and 30 of this report.

Field Inspection Report
Quadrangles T-10773 through T-10776
Project Ph-5704

2. Areal Field Inspection

These quadrangles are located in southwestern Alabama, at the south end of Mobile Bay. The land area, with one exception, is a low, narrow peninsula made up of low, sand dunes, marsh and some swamp. The exception to the above is a low sandy island located approximately 2 miles southwest of Mobile Point.

The area has few permanent residents and is primarily a summer resort. Numbers of summer cottages are constructed along the beach.

Fort Morgan is located on Mobile Point in sheet number T-10773. This fort was used during the Civil War and is now a state park.

Field inspection was performed in accordance with project instructions dated 23 June 1958 and is believed complete. No items were deliberately left for field edit.

Photography was of fairly recent date and of good quality. No difficulty was encountered in their interpretation in the field. The tones range from white along the sand beaches, to grey in the light grassy areas, to black in the areas covered by marsh, swamp and trees.

The marsh and swamp limits have not been indicated in their entirety on the photographs but it is believed sufficient information has been furnished for the compiler to outline all limits on the manuscripts.

Field inspection has been indicated on the following nine-lens photographs: 56760 through 56769.

3. Horizontal Control

All Coast and Geodetic Survey control was searched for and where recovered was identified for control of the plot.

Five third-order intersection stations were established by the field party. Standard methods were used. These stations are Intracoastal Waterway, Pensacola-Mobile Light 267; Intracoastal Waterway, Pensacola-Mobile Light 277; Mobile Point Range Front Light; Mobile Point Range Rear Light, and Mobile Point Coast Guard Radio Tower. No adjustments were made by the field party.

Several traverse stations established by Alabama Geodetic Survey, CWA traverse line 9, Baldwin County, were recovered and identified. These stations were fourth-order. A traverse tie was made between EDITH 1935 and stations 497 and 498. Results of this tie and adjustments made by the Division of Geodesy are enclosed. A second tie was made between COLLINS 1935 and station 496. Results of this tie are enclosed.

The following stations were reported lost: FORT MORGAN TANK, 1934; FORT MORGAN TOWER, 1942; Traverse Station 596; NAVY, 1935; HOG 1935; Traverse Stations 578, 579, 581, 594; LEAR, 1918; THREE, 1935; Traverse Stations 493, 494, and 495.

FORT MORGAN TANK, 1934 was reported lost but was identified for the plot. The center of the four footings was identified for the station.

4. Vertical Control

The following Coast and Geodetic Survey Tidal Bench Marks were recovered: Fort Morgan, Mobile Point, Mobile Bay Entrance Bench Mark 1, 3, 4, 5, A 9 (U.S.E.) and A 10 (U.S.E.). Other Vertical control was not searched for.

5. Contours and Drainage

Contours are inapplicable. Drainage is primarily run-off from the peninsula into the bay and gulf. The few short streams are self-evident from the photographs.

6. Woodland Cover

Adequately covered by the photographs. See also item 2.

7. Shoreline and Alongshore Features

The mean high water line was inspected by skiff and jeep and has been indicated on the photographs. (56759 through 56769)

The foreshore is steep and the distance between the mean high and low water lines is too close for mapping at the project scale.

Bluffs worthy of symbolization have been indicated on the photographs.

Shore ends of submarine cables have been indicated on the photographs.

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

8. Offshore Features

The mast on a wreck was located by theodolite cuts. The wreck is charted approximately 0.5 mile southwest of Mobile Point. There are no other offshore features.

9. Landmarks and Aids

One landmark for nautical charts was located and identified on the photographs. Form 567 will be submitted for the entire project at a later date.

Two aeronautical aids are located in sheet T-10773. The Coast Guard Radio Tower and Sand Island Lighthouse have both been located by triangulation.

There are five fixed aids to navigation in this area. These were located by triangulation.

10. Boundaries, Monuments, and Lines

Location of public land lines was not required for this project. There are no corporate limits within the area covered by this report. The Baldwin-Mobile County Line will be covered by a special report at a later date.

11. Other Control

Eight recoverable topographic stations were identified for location by the plot. All stations are natural objects and are indicated on the photographs as follows:

T 10773	T 10774
Top, Small Building on Piling	East Gable House, Galvanized Roof
	Abandoned Lookout Tower
	Small Water Tank
T 10775	**T 10776**
Pole, on Highest Dune	East Gable Large House
	East Gable House, Black Roof
	East Gable House, Green Roof

12. Other Interior Features

All roads and buildings were field inspected and classified in accordance with project instructions.

There are no bridges or cables over navigable waters.

There is one small landing field located in T-10773. The limits of the landing area has been indicated on the field inspection photographs.

13. Geographic Names

Geographic Names will be covered by a special report to be submitted at a later date.

14. Special Reports and Supplemental Data

Special Report Geographic Names, Project Ph-5704
Special Report Boundaries, Project Ph-5704
Special Report Coast Pilot, Project Ph-5704

All of the above reports will be submitted at a later date.

Submitted,

William M. Reynolds
William M. Reynolds

Approved and Forwarded:

Roger F. Lanier
Roger F. Lanier
LT, C&GS
Chief of Party

FORM 164
(4-23-54)

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

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T-10773 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)
MOBILE POINT RANGE REAR LT. 1958	Field Pos	NA 1927	30 13 59.375			1212.4 (635.1)	R.I. R.I.P. 7 May
			88 01 27.148			725.9 (778.5)	RPW
MOBILE POINT C.G. RADIO TOWER 1958	Field Pos	"	30 13 37.658			1159.5 (188.0)	"
			88 01 24.859			664.2 (938.9)	
MOBILE POINT RANGE FRONT LT. 1958	Field Pos	"	30 13 17.429			536.7 (1310.8)	"
			88 01 36.586			978.4 (626.2)	
SAND ISLAND LIGHTHOUSE 1930	P.C. 17	"	68,589.33	2 0906.1			"
			326,032.47	9 9374.9			
FORT MORGAN 1846	G.Ps 7	"	30 13 42.022			1293.9 (553.6)	"
			88 01 23.698			633.7 (970.7)	
597 A.G.S. 1939	Letter 26 Aug 58 T-10773	"	83,779.39	2 5536.0			"
			339,032.75	10 3337.4	4th Order Station		

1 FT = .3048006 METER

COMPUTED BY R.R. Wagner DATE 20 Apr 59 CHECKED BY R.G. Pate DATE 20 APR 59

COMM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT

21. AREA COVERED

Photogrammetric Plot No. 1 of Ph-5704 was for the entrance to Mobile Bay and all of Dauphin Island (manuscripts T-10757, T-10758, T-10761, T-10762, T-10770 through T-10772), and also eastward along a narrow peninsula between Bon Secour Bay and the Gulf of Mexico (manuscripts T-10773 through T-10776).

The sketch on page 14* of this report shows the arrangement of manuscripts, the identified control, index of control, photograph centers and the adjoining manuscripts.

22. METHOD

Radial Plot:

Map manuscripts: -- The projections are 3'45" in latitude and longitude with the exceptions of T-10774 through T-10776 which are 4'45" in latitude. The western limit of T-10770 was extended to 88°19'. See letter (copy attached) to Chief, Photogrammetry Division, dated 17 September 1959. The northern limit of T-10771 was extended to 30°15'30" to accommodate detail in this area.

The plot was run on the joined manuscripts.

Photographs: -- The nine-lens photographs of 19 November 1957 at a scale of 1:10,000 were used to run the plot.

Contact single-lens infra red photographs were taken simultaneously with the nine-lens photographs with Camera "L" being used.

Only those single-lens photographs were located where it was believed they would aid the compiler in locating the photohydro stations. They were fixed in position by holding pass points located by the nine-lens photographs.

Templets: -- Vinylite templets were made from nine-lens photographs using master templet 53605 (1956-1957) for correction of transforming errors and paper distortion.

Closure and adjustment to control:-- The plot was run from east to west with conventional methods being used. Two Alabama Geodetic Survey control stations could not be held in the plot. See letter (copy attached) to Chief, Photogrammetry Division, dated 8 September 1959.

* DESCRIPTIVE REPORT FOR T-10757

23. ADEQUACY OF CONTROL

The control was adequate and all of it was positively identified. In the northern part of T-10758, it could not be determined which of two stations was in error, and MON LOUIS RM 2 1930 and JULIET R.M.A. 1910 were returned to the field for verification. It was found that JULIET R.M."A" actually had been destroyed at the time of the original identification and should not have been identified. (See 1959 recovery). A new substitute station was located for MON LOUIS and was held in the plot.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The nine-lens photographs gave adequate coverage, however the quality of the photographs was poor. Most of the photographs have a muddy appearance and on 56758 three fiducial marks were missing in the wing chambers. See attached letter dated 1 September 1959, Subject "Washboard Affect of nine-lens photographs".

None of the photographs were sufficiently tilted to justify special measures.

26. GENERAL

Dates of completion of the photogrammetric plot by maps are as follows:

T-10757	8 September 1959	T-10772	28 August 1959
T-10758	8 September 1959	T-10773	14 August 1959
T-10761	3 September 1959	T-10774	14 August 1959
T-10762	4 September 1959	T-10775	13 August 1959
T-10770	21 September 1959	T-10776	13 August 1959
T-10771	21 September 1959		

Respectfully submitted

Robert R. Wagner
Cartographer(Photo)

APPROVED & FORWARDED

William R. Kochel

for Arthur L. Wardwell
Tampa District Officer

COPY

P. O. Box 221
Pascagoula, Miss.
15 August 1938

To: Chief, Photogrammetry Division
Coast and Geodetic Survey
Washington 25, D.C.

Subject: Control, maps 10773 through 10776, Ph-5704

Control on subject manuscripts has been recovered or established and identified as shown on the enclosed project diagram. However we noted that the Alabama Geodetic Survey stations there are classed as fourth order, and to check them, a traverse was run from EDITH 1935 through 498 to 497. Initial azimuth was EDITH-COLLINS. A sun azimuth taken at 497 closely checked the azimuth carried through the traverse. The results are listed below. As you can see, our traverse distrance between 498 and 497 agrees reasonably with the original, but both are out of position by 13 feet. The traverse was measured carefully in both directions.

	498 (Ala. Geo. Survey)		497 (Ala. Geo. Survey)	
	X	Y	X	Y
new	378,893.25	86,507.01	380,032.60	86,682.29
old	378,880.4	86,508.7	380,019.9	86,683.9

No other ties or checks have been made between C & G S control and the Alabama Geodetic Survey control. Please advise whether we should check further.

In regard to another matter, the instructions for the Chantilly Airport Survey stated that two substitute stations would be required for each horizontal control station. Is that to be a general requirement for all projects, or only for that particular project? At certain places here two substitute stations would be difficult to identify.

Roger F. Lanier
LT, C&GS
Chief of Party

C O P Y

732/rrj

21 August 1958

To: LT Roger F. Lanier
Chief, Photo Party No. 720
Coast and Geodetic Survey
P. O. Box 221
Pascagoula, Mississippi

Subject: Horizontal Control, Maps T-10773 thru T-10776, Project PH-5704

Reference: Your letter, same subject, dated 15 August 1958

The Geodesy Division is checking into the possibility of determining a datum difference for all stations on Line 9, Baldwin County. It might be necessary for you to forward your field records for their use. Do not do so until you receive a request for them.

You will be required to establish control in two areas if a datum difference cannot be determined. This will be the subject of a separate letter after Geodesy completes their check.

Identification of two substitute points at each station is not required on Project PH-5704. This practice is of little benefit to radial line plots when positive identification is made by an experienced photogrammetrist.

Two substitute points at each station were required on the Chantilly Project because of the difference in the bridging methods. Two points are a distinct advantage on single strip stereoscopic instrument bridges.

L. W. Swanson, Chief
Photogrammetry Division

C O P Y

732/rrj

26 August 1958

To: LT Roger F. Lanier
Chief, Photo Party No. 720
Coast and Geodetic Survey
P. O. Box 221
Pascagoula, Mississippi

Subject: Horizontal Control, Maps T-10773 thru T-10776
Project PH-5704

Reference: A. Your letter, same subject, dated 15 August 1958
B. Bureau letter, same subject, dated 21 August 1958

Geodesy Division has completed their investigation of CWA traverse line 9, Baldwin County, Alabama. New plane corrdinates for stations 499, 577, 580, 595 and 597 were determined from a readjustment of a section of the line.

The readjustment was made for the section from FORT MORGAN TANK 1934 to station 498. Your new corrdinates for the latter station as listed in reference A were held. The stations and their new coordinates are:

Station	X	Y
499	371,542.24	86,620.38
577	370,206.76	86,340.77
580	353,693.89	84,642.17
595	346,770.62	84,465.02
597	339,032.75	83,779.39

New coordinates of the following stations are repeated from reference A:

497	380,032.60	86,682.29
498	378,893.25	86,507.01

These coordinates are considered satisfactory for the radial line plots. No further control identification will be required in this area.

COPY

LT Roger F. Lanier 26 August 1958

There appears to be an error of apprixmately 20 feet in the original field measurements. The original azimuth error amounted to approximately 1'45" and is acceptable. The tie made at EDITH, 1935 did not isolate the measurement error. To further isolate the error, make a tie from either station 495 or 496 to COLLINS, 1935. Forward your field records for both ties to Chief, Photogrammetry Division.

A copy of this letter and of references A and B will be included in the descriptive report for the subject maps. Copies of each letter are being furnished for this purpose.

L. W. Swanson, Chief
Photogrammetry Division

COMPILATION REPORT
T-10773

PHOTOGRAMMETRIC PLOT REPORT

Submitted with ~~T-10757~~ this Descriptive Report.

31. DELINEATION

The graphic method was used.

The nine-lens photographs were of fair scale.

The single-lens photographs were very clear but of poor scale.

The Field inspection was adequate. With the aid of the infra-red single lens photographs no difficulties were encountered.

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.
No L.W.L. was shown. Refer to paragraph 2 of Item 7.

36. OFFSHORE DETAILS

The only offshore detail is a wreck located at approx. lat. 30°12'50" long. 88°02'08".

37. LANDMARKS AND AIDS

~~Form 567 for Landmarks and Aids is submitted with this report.~~

Forms 567 dated 15 July 1960 have been submitted to the Washington Office.

38. CONTROL FOR FUTURE SURVEYS

One topographic station has been located and is listed under Item 49. The station is a natural object and no Form 524 is submitted.

39. JUNCTIONS

Junctions were made with T-10774 to the east and T-10772 to the west. There are no maps to the north and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS Air Photo Compilation T-5536, Mobile Bay Entrance, scale 1:10,000 a reproduction of the original drawing without contours, compiled from air photographs taken June 23, 1934. Shoreline and culture changes have taken place.

Comparison was made with U.S.G.S. FORT MORGAN quadrangle 1:24,000 edition of 1958. The comparison is favorable except for the shapes of Fort Morgan and Sand Island.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 873 scale 1:40,000, 2nd edition, July 2, 1951 revised to March 23, 1959. Only minor differences are noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. E. Smith
Carto Photo Aid

Approved and Forwarded:

Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST

Names were taken from U.S.G.S. FORT MORGAN quadrangle.

- ALABAMA
- BALDWIN COUNTY
- DIXIE GRAVES PARKWAY
- FORT MORGAN
- FORT MORGAN STATE PARK
- GULF OF MEXICO
- MOBILE BAY
- MOBILE POINT
  MOBILE COUNTY
- SAND ISLAND
- STATE HIGHWAY 180
- U. S. COAST GUARD STATION

Names approved
June 26, 1968
A. J. Wright
Frank W. Puckett

49. NOTES FOR THE HYDROGRAPHER

The following is a topographic station:

TOP(SMALL BUILDING ON PILING) 1958.

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

21 45

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10773

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

4a Classification label Unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines I.I.S. 32. Public land lines XX

MISCELLANEOUS

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

40. Irving I Saperstein — Reviewer
Irving I. Saperstein

Milton M. Slavney — Supervisor, Review Section or Unit
Milton 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.

Rexford E. Smith Jr. — Compiler

M. M. Slavney — Supervisor

43. Remarks:

COMM-DC 34529

FIELD EDIT REPORT
(Shoreline)
Quadrangles T-10773 through T-10776
Project PH-5704

51. Methods.

The distance to the MHWL was spot checked along the shoreline. Additions and corrections to the manuscript have been noted on the field-edit sheet in red and on the photographs in violet.

Field-edit information has been shown on field-edit sheets for T-10773, T-10774, T-10775 and T-10776. Additional information is shown on photographs infra-red 9Nov57L2523 and 9Nov57L2524 and nine-lens 56766 and 56768.

52. Adequacy of compilation.

The map compilation appears complete and adequate.

53. Map accuracy.

The shoreline of the maps is accurate except where it has been corrected on the field-edit sheet T-10773 near Fort Morgan and the east end of Sand Island.

54. Recommendations.

No recommendations.

55. Examination of proof copy.

The following person is able to read a map of this area with assurance and has agreed to examine a proof copy of the map for possible errors.

Mr. Byrd L. Moore
P. O. Box 143
Fairhope, Alabama

56. Investigation of discrepancies.

Geographic Names
(T-10776)

People Contacted

	Name	Address	No. Years Resident
A.	G. C. Strong	Fort Morgan Highway Gulf Shores, Ala.	66
B.	Ralph L. Smith	Fort Morgan Highway Gulf Shores, Ala.	59
C.	William Galloway	Gulf Shores, Ala.	54

GATOR LAKE: According to A., B., and C. GATOR LAKE has always been known as BIG HEAD.

The small lake just west of GATOR LAKE has, according to A., B., and C., always been known as LITTLE HEAD.

Boundaries
(T-10773)

The corrected U. S. Coast Guard Boundary is shown in violet on photographs infra-red 9Nov57L2523 and 9Nov57L2524.

Submitted:

Charles H. Nixon

Charles H. Nixon
Photo-Hydro
Support Unit 720

Approved:

Michael L. Olivier

Michael L. Olivier
O-in-C
Photo-Hydro
Support Unit 720

REVIEW REPORT T-10773
PLANIMETRIC
February 9,1968

61. GENERAL STATEMENT:

See Summary accompanying the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of T-5536, which was compiled from photographs taken June 23, 1934. The only area common to these two surveys is that on the eastern side of the entrance to Mobile Bay in the vicinity of Mobile Point. The following differences were noted:

The shoreline has receded since the survey of 1934, however, the erosion is no greater than that which can be expected with the passage of time.

Two houses on piling on survey T-5536 located at 30° 13' 51"-88° 01' 17" and 30° 14' 05"-88° 00' 39" are not shown on survey T-10773 nor is there any evidence of them on photography of the area.

Survey T-10773 supersedes the prior survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS FORT MORGAN, ALA., 1:24,000 scale 7½ minute quadrangle, edition of 1958. The following differences were noted:

The mean high water line in the vicinity of Mobile Point is not in agreement between the two surveys.

Piling located at the following positions on the quadrangle are not shown on survey T-10773 and are not visible on photography of the area:

	Latitude	Longitude
pile	30° 13' 23"	88° 01' 16"
pile	30° 13' 24"	88° 01' 18"
Group of six (6)piling	30° 14' 03"	88° 00' 40"

The two surveys are not in agreement as to the position or shape of Sand Island. Evidently there was a major change in the island between 1958 and 1960. The island as delineated on surveys T-10772 and T-10773 is from a planetable survey of March 1960. See pages 27 and 28 of this report for differences in the surveys.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of smooth sheet H-8526, ECFP-10-3-60. The two surveys are in good agreement, the shoreline for the smooth sheet having been obtained from a copy of the Advance Manuscript.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 872-SC, 3rd edition, corrected thru NM 37, September 16, 1967. The following differences were noted:

The mean high water line of Sand Island on the chart was obtained from photography subsequent to March 1960, the time at which it was located by planetable methods for the manuscript.

Two submerged wrecks located at latitude 30° 13' 53", longitude 88° 01' 33" and 30° 14' 00" - 88° 01' 00" respectively are not shown on this survey and are not visible on the photographs of the area.

An obstruction at latitude 30° 14' 02", longitude 88° 00' 03" and a pipe at 30° 13' 56" - 88° 01' 02" on the chart are not shown on this survey and are not visible on photographs of the area.

Two submerged piling at latitude 30° 13' 22", longitude 88° 01' 18" and 7 piles in the area of an old pier at approximately latitude 30° 14' 00", longitude 88° 00' 44" are not shown on this survey. See pages 27 and 28 of this report for visual comparison purposes.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

For R.E. Stark
J. Bull, RADM, USESSA
Director, Atlantic Marine Center

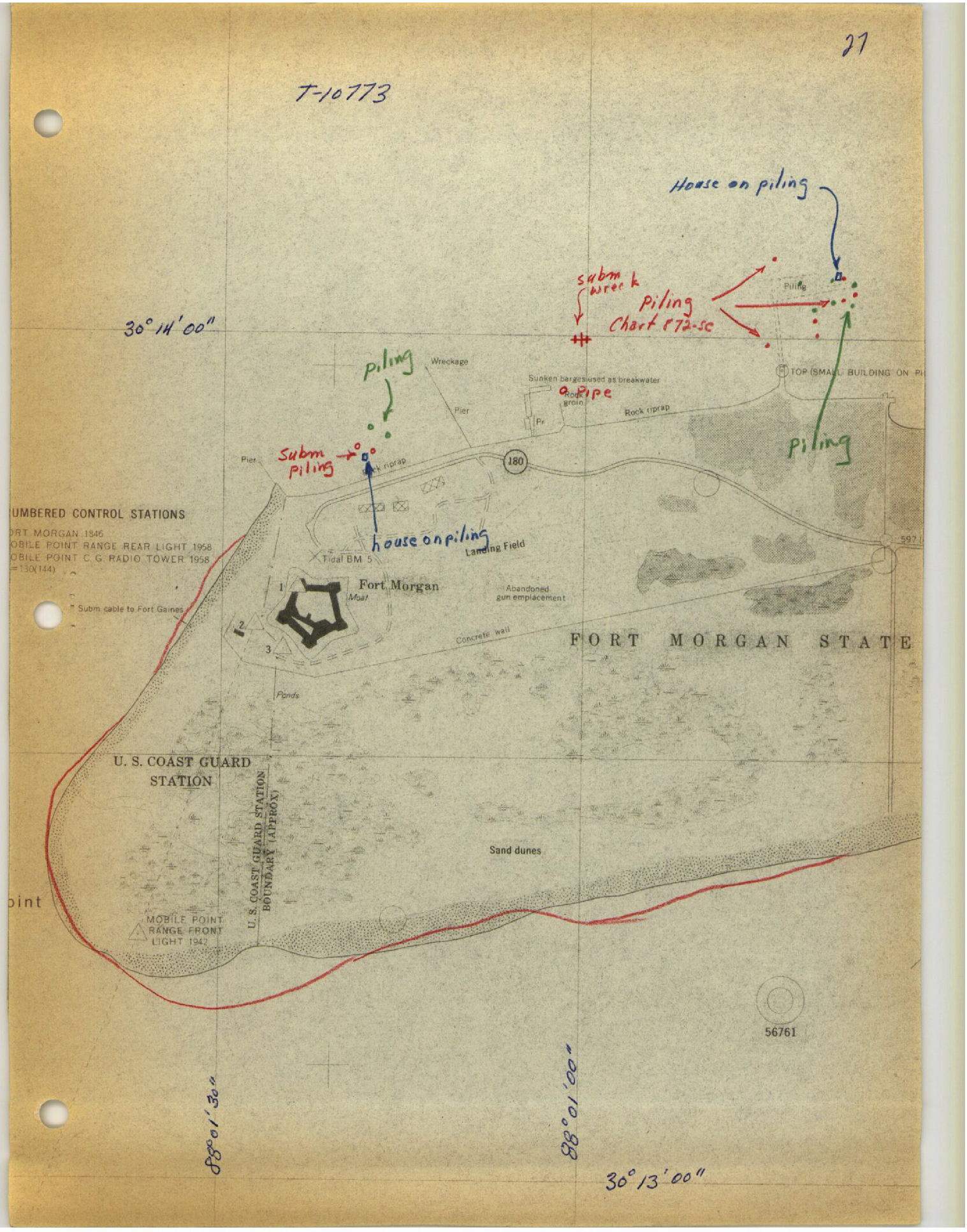
Approved by:

Charles Leeuwe
Chief, Photogrammetric Branch

R.H. Houlder
Chief, Photogrammetry Division

John O. Boyer
Chief, Nautical Chart Division

T-10773


House on piling
subm wreck
Piling
Chart #72-SC
Piling
30° 14' 00"
Piling
Wreckage
Sunken barges used as breakwater
Rock groin
Pipe
Pier
Rock riprap
TOP (SMALL BUILDING ON PI
Piling
Subm piling
Pier
180
house on piling
Landing Field
Tidal BM 5
Fort Morgan
Moat
Abandoned gun emplacement
Concrete wall
FORT MORGAN STATE
Ponds
U. S. COAST GUARD STATION
U. S. COAST GUARD STATION BOUNDARY (APPROX)
Sand dunes
MOBILE POINT RANGE FRONT LIGHT 1942
UMBERED CONTROL STATIONS
ORT MORGAN 1846
OBILE POINT RANGE REAR LIGHT 1958
OBILE POINT C. G. RADIO TOWER 1958
=130(144)
Subm cable to Fort Gaines
56761
88°01'30"
88°01'00"
30°13'00"

T-10773

12'30"

y=75,000 FT

From Chart 872-SC

12'

Sand Island

Sand dunes

(Shoreline of SAND ISLAND mapped by planetable in March 1960; subject to frequent change.)

Sand Is.

From USGS Quadrangle FORT MORGAN, ALA.

11'30"

=70,000 FT

30° 11' 30"

88° 03' 00"

SAND ISLAND LIGHTHOUSE 1930

30°11'15"

88°03'45"

03'30"

x=325,000 FT.

03'

PH-5704
Revision Data
RS-892 (T-10773)

This map was one of 18 project maps revised in 1962 with 1962 photography. Refer to project revision diagram on ~~the following~~ page 30.

Revision Survey information was not carried forward to the original shoreline surveys. The revised details have been applied to contemporary hydrographic surveys.

Copies of the revision surveys will be filed with other project (PH-5704) data in the Federal Records Center.

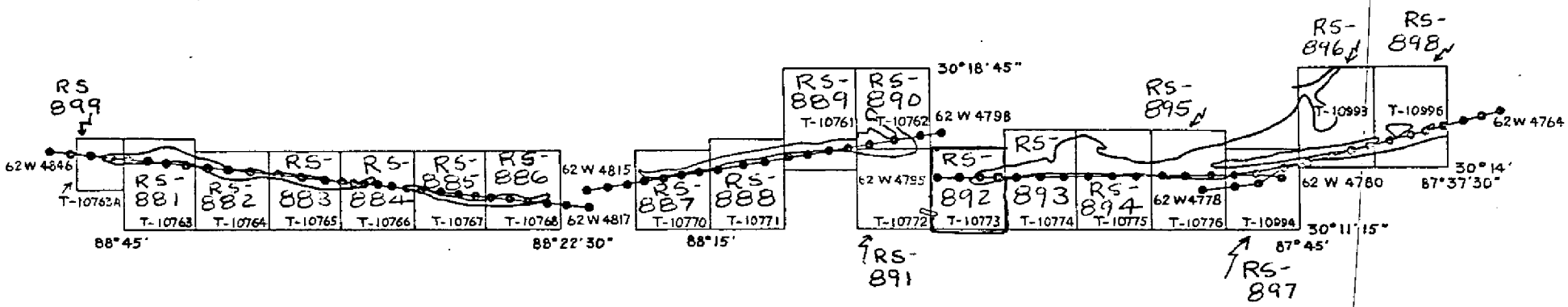
Compilation reports for some revision surveys are lost. Available reports are included in the Descriptive Reports for the registered shoreline surveys.

No report was found for RS-892.

PROJECT PH-5704 (REVISION)

MOBILE BAY, ALABAMA – MISSISSIPPI SOUND, MISS.

SCALE - 1:10,000
SEPTEMBER, 1962



• 1:20,000 RC-8 (Pen.) Photographs. Photographs also 1:10,000 ratio prints for Hydro Support.