

11306

Diag. Cht. No. 1239-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. 6126 Office No. T-11306

LOCALITY

State South Carolina

General locality Charleston County

Locality James Island

1945-56

CHIEF OF PARTY

I.R. Rubottom, Chief of Field Party  
V.R. Sobieralski, Portland Photo. Off.

LIBRARY & ARCHIVES

DATE May 23, 1958

11306

DESCRIPTIVE REPORT - DATA RECORD

T - 11306

Project No. (II): 6126

Quadrangle Name (IV):

CHARLESTON County, S.C.

Field Office (II): Charleston, S. C.

Chief of Party: Ira R. Ribottom

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: V. Ralph Sobieralski

Instructions dated (II) (III): 13 December 1955

Copy filed in Division of  
Photogrammetry (IV)

Amendment dated: 20 March 1956

Portland Office assignment  
Letter 73-mkl dated 2 August 1956

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):

OCT 20 1957

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 3 MAY 1958

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X  
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): OSWALD 1934

Lat.: 32° 43' 01.599" 48.1m  
(1800.2m)

Long.: 79° 56' 15.199" 395.8m  
(1166.7m)

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State:

Zone:

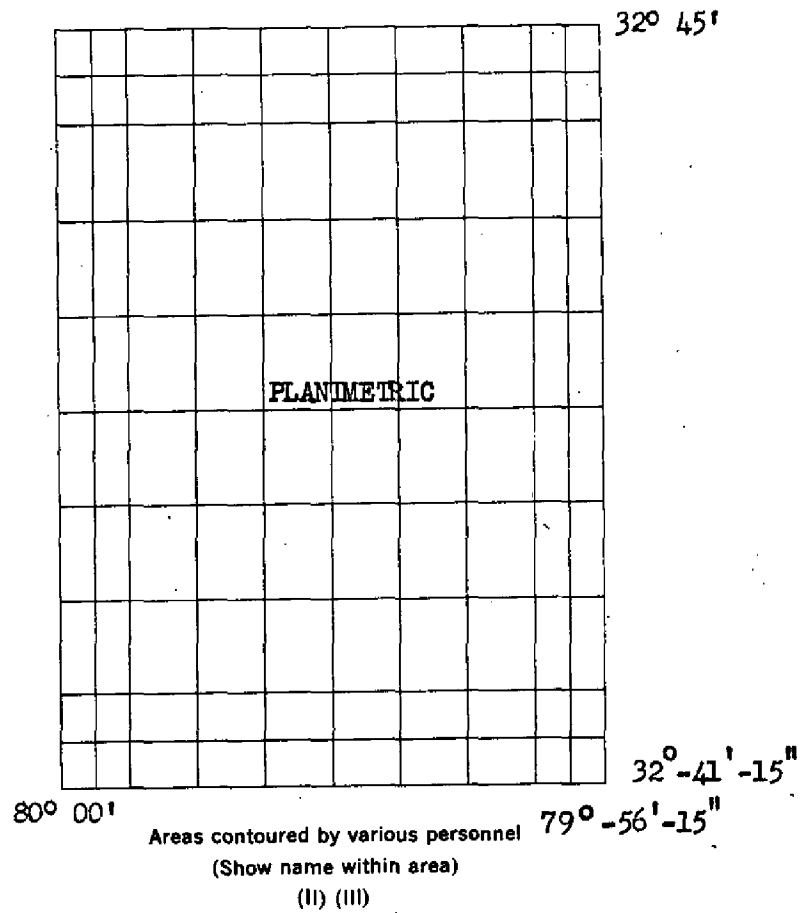
Y=

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



DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Martin C. Moody  
John S. Winter

Date: Jan., Feb. 1956  
Feb., Mar. 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): From field inspection of March 1956 made on 9-lens photographs of March 1955. Supplemented by Office examination and refinements.

Projection and Grids ruled by (IV): A. RILEY

Date: 8/7/56

Projection and Grids checked by (IV): A. RILEY

Date: 11/3/56

Control plotted by (III): LTJG Clinton D. Upham

Date: 10/10/56

Control checked by (III): J. L. Harris

Date: 10/11/56

Radial Plot or Stereoscopic LTJG Clinton D. Upham  
Control extension by (III):

Date: 12/3/56

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): J. L. Harris, (Rough draft)  
L. L. Graves (Scribing)  
D. N. Williams (Stick-up)

Date: 3/22/57  
4/25/57  
7/17/57

Photogrammetric Office Review by (III): J. E. Deal

Date: 7/18/57

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

Date:



## DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&amp;GS 9-lens - focal length 8.25 inches

Number	Date	Time	Scale	Stage of Tide
49245 & 49246	3/23/55	13:38	1:10,000	0.1 ft. below M.L.W.
49290	3/23/55	14:10	1:10,000	0.3 ft. below M.L.W.

## Tide (III)

Reference Station: Charleston, S. C.  
Subordinate Station: Legarville, S. C.  
Subordinate Station: Wappoo Creek (hwy. bridge)

Ratio of Ranges	Mean Range	Spring Range
	5.1	6.0
	5.2	6.1
	5.2	6.1

Washington Office Review by (IV):

A. K. Heywood

Date: FEB. 1958

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 16

Shoreline (More than 200 meters to opposite shore) (III): 9

Shoreline (Less than 200 meters to opposite shore) (III): 11 (measured along middle line of stream)

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 12\*

Recovered: 7\*

Identified: 3\*\*

Number of BMs searched for (II): 6#

Recovered: 6

Identified: 1

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

## Remarks:

- \* Plus five north of map
- \*\* Plus one north of map
- # Tidal Bench Marks north of map

## SUMMARY

This is a planimetric survey project consisting of ten sheets. It covers an area south of Charleston, South Carolina from the southeasterly entrance to Charleston Harbor, southwest to the Kiawah River. It is bounded on the west by project PH-81.

Two sheets T-11308 and T-11314 are  $4\frac{1}{2}'$  in longitude by  $3\frac{3}{4}'$  in latitude. The other eight are the standard  $3\frac{3}{4}'$  in longitude by  $3\frac{3}{4}'$  in latitude.

Field inspection was executed from January through March of 1956 under the direction of Ira R. Rubottom, in accordance with instructions issued 13 December 1955 and amended 20 March 1956.

One radial plot was laid for the project. The report is bound with Descriptive Report T-11306.

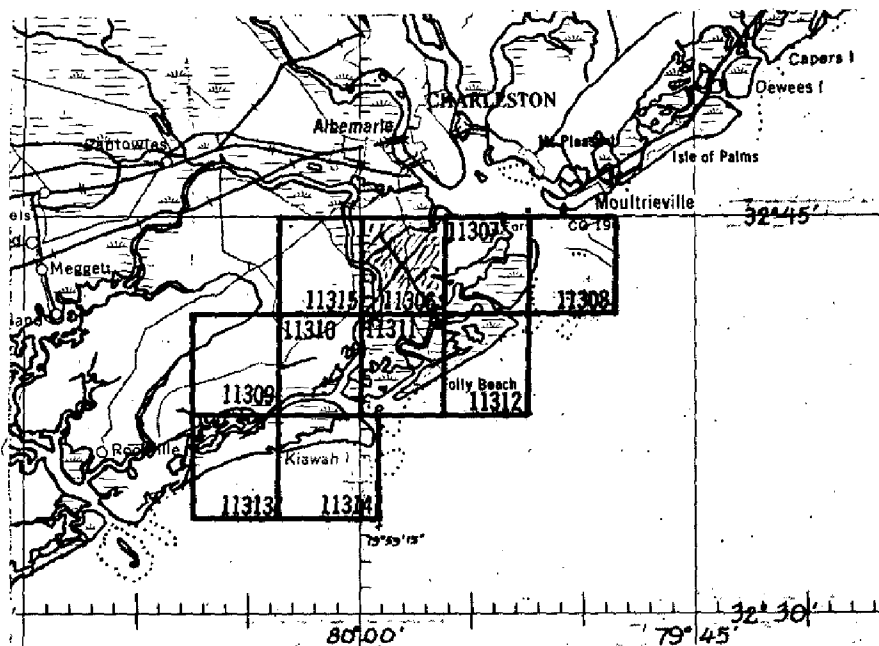
The sheets were compiled and scribed at the Portland Photogrammetric Office. At a scale of 1:10,000, from 1952, 1953 and 1955, nine-lens photography. This was accomplished under the direction of V. Ralph Sobieralski.

All sheets were given a final Washington Office Review in February 1958. One Review Report was submitted and is bound with descriptive report T-11306.

# PLANIMETRIC MAPPING PROJECT ~~6126~~ ~~27260~~

Charleston Harbor to North Edisto River, South Carolina

PH 126



## OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	AREA SQ.	LIN. MI.
	MILES	SHORELINE
11306	14	5
11307	9	10
11308	1	3
11309	15	3
11310	12	12
11311	8	10
11312	4	5
11313	5	10
11314	4	7
11315	14	5
TOTALS	96	70



## FIELD INSPECTION REPORT

Project Ph-126

Map Manuscript T-11306

Refer to Field Inspection Report, Project 6126, Map Manuscripts T-11306 to T-11315 inclusive, year 1956, Ira R.

Rubottom, Chief of Party. *Filed in Project completion report in Library*



## PHOTOGRAMMETRIC PLOT REPORT

Map Manuscripts No'd. T-11306 thru T-11308,

T-11311 and T-11318

Project Ph-126

21. Area Covered:

This photogrammetric plot covers a land area approximately seven miles wide adjacent to the South Carolina Coastline from the Entrance to Charleston S. C. Harbor to The Stono River. It comprises Map Manuscripts No'd. T-11306 thru T-11308, T-11311 and T-11312.

22. Method:

A radial line photogrammetric plot was completed, utilizing hand templets of nine lens photographs which were drawn on acetate material. These were assembled on five joined polyconic projections, scale 1:10,000 which were ruled on Mylar material in the Washington, D. C. Office. Master Templet No. 48340 was used for the correction of transforming errors and paper distortion of the nine lens photograph prints. One triangulation station, which is listed in Paragraph 23 of this report, was not held. The radials of all other identified horizontal control stations were rigidly held to their plotted positions on the map manuscripts. Except as stated in 23, "Adequacy of Control", excellent locations were obtained for the pass points selected for resection in this horizontal control extension.

23. Adequacy of Control:

Horizontal control identification was not furnished for the one triangulation station situated on the south jetty at the Entrance to Charleston Harbor. For this reason the templets of the photographs covering the jetties were subject to swing during the orientation and there is a possibility that the pass points which were located on both jetties are of sub normal horizontal accuracy. Poor photograph coverage, which also contributed to the presumed sub normal horizontal accuracy at this place, is discussed in Paragraph 25, "Photography" of this report.

Elsewhere in the radial plot area the identification and density of horizontal control stations were adequate.

Refer to copies of correspondence included in this descriptive report relative to triangulation station FORT MOULTRIE, NEW TANK, 1953 which was not held in the radial plot.

24. Supplemental Data:

None.

25. Photography:

Photograph coverage was insufficient to accurately delineate the jetties at the Entrance to Charleston Harbor. The offshore end of the north jetty appears on one photograph only. Part of this north jetty appears on two photographs and these give radial resections of slim angles. The inshore part of the jetty and the south jetty are covered by three photographs. A pass point was selected as far offshore as possible on the north jetty which would have a resection of three radials. Poor definition and the slim angle of the intersection made the accuracy of the location of this pass point doubtful. Methods used to compile these jetties are described in the Descriptive Report for Map Manuscript T-11308, Paragraph 31, "Delineation". Elsewhere in the radial plot area the photographs were adequate as to coverage, overlap and definition.

Approved:

*V. Ralph Sobieralski*

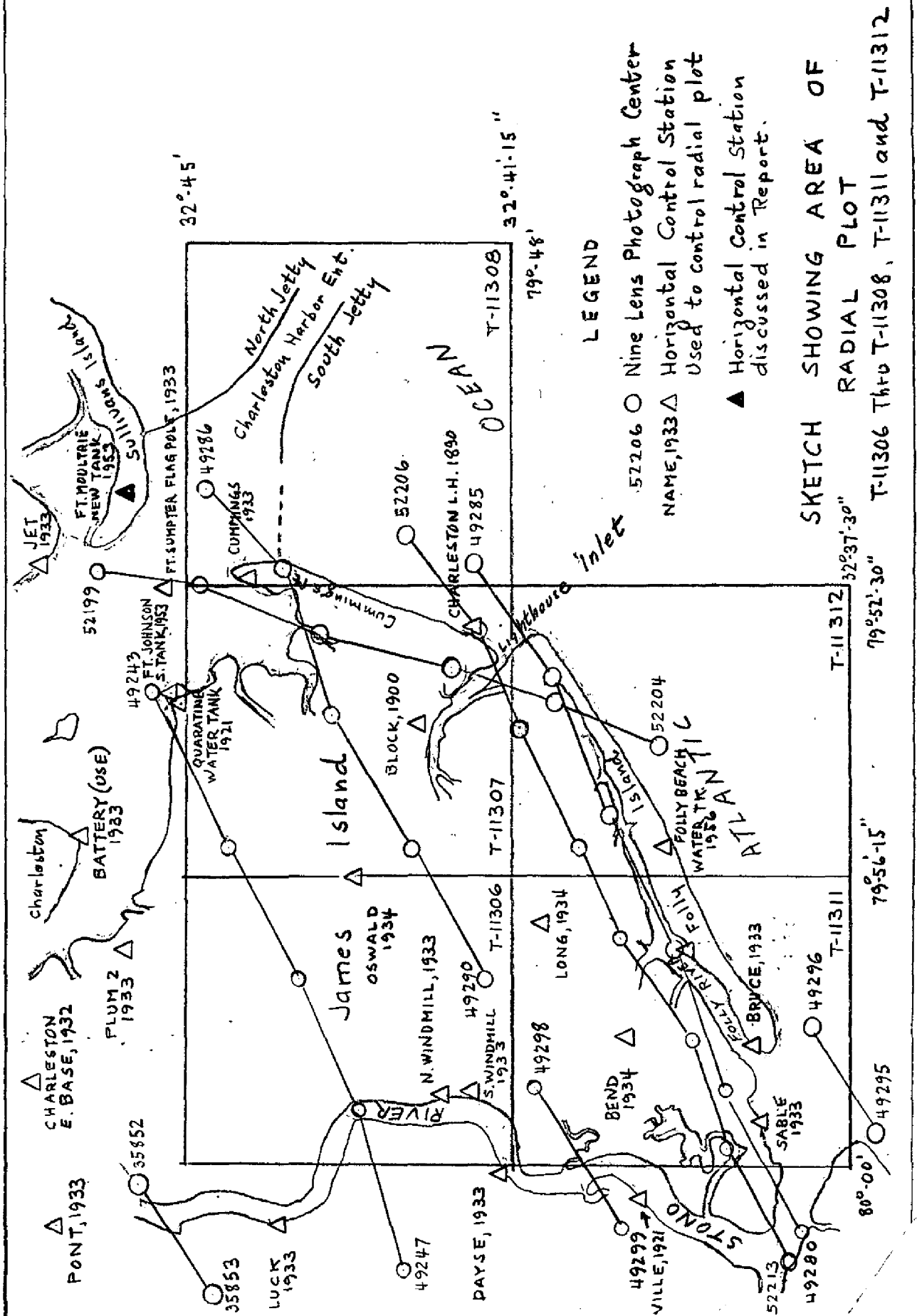
V. Ralph Sobieralski  
LCDR C&G Survey  
Officer-in-Charge

Respectfully submitted;

*J. Edward Deal*

J. Edward Deal  
Cartographer  
C&GS





SCALE FACTOR None

1 FT. = 3048006 METER	DATE	10/5/56	CHECKED BY	J.L.H.	DATE	10/8/56
COMPUTED BY	C.D.U.					

COMM. DC. 57843



## COMPILATION REPORT

Map Manuscript No. T-11306

Project Ph-126

31. Delineation:

Graphic methods were used to compile this map manuscript. The rough draft planimetric details were drafted in ink. Methods used are described in "General Instructions for Compiling, Scribing, Reviewing and Registering Photogrammetric Manuscripts", dated 11 January 1956, paragraphs as follows:

## 5 COMPILATION

5.2 Method 2 and 5.21

## 7 SCRIBING

7.2 Method 2, 7.21, 7.22, 7.23, and 7.3

Film base used for the contact positive is "Photolith Ortho A on Cronar material .004" thick.

Numerous buildings were not field inspected and others appear to be incorrectly circled on the field photographs. These were delineated in the office by careful stereoscopic examination of the photographs. This condition was general throughout most of the project and examples may be observed on field photographs No'd. 35852, 49245 and 49290 on which the buildings in question have been indicated by circles in yellow wax crayon pencil.

32. Control:

Refer to 23, "Adequacy of Control", of the Photogrammetric Plot Report which is included in this Descriptive Report.

33. Supplemental Data:

None.

34. Contours and Drainage:

Not applicable for contours.

35. Shoreline and Alongshore Details:

The inspection of the shoreline was adequate.

Low-water and shoal lines were based on data furnished by the field party and from careful study of the photography of 23 March 1955 which was taken at the time of a predicted minus low tide.

36. Offshore Details:

None.

37. Landmarks and Aids:

Form 567 is submitted for two landmarks falling within the limits of this map manuscript.

38. Control for Future Surveys:

None

39. Junctions:

Satisfactory junctions were made with T-11307 on East, T-11315 on West and T-11311 on South. Any contemporary survey that may have been made to the North was not available for junction purposes.

40. Horizontal and Vertical Accuracy:

46. Comparison with Existing Maps:

Comparison was made with the Army Map Service, James Island, S. C. 7½ minute quadrangle, Scale 1:25,000, first edition 1943.

Comparison was made with C&GS Air Photo Compilations of 1933 Nos. T-5182 and T-5185, Scale 1:10,000.

47. Comparison with Nautical Charts:

Comparison was made with nautical chart No. 792, Scale 1:40,000, Published June 1941 (2nd edition), last correction 6/27/55.



A landmark, "WINDMILL", shown on the chart at Lat.  $32^{\circ} 42' 15''$  and Long.  $79^{\circ} 59' 45''$  is not shown on the manuscript because identification of the structure was not made by the field party. Neither was Form 567 submitted by the field party for its deletion. Examination of the photographs at this place does not reveal a structure that can definitely be determined to be a windmill. For this reason a deletion of this landmark is not recommended by the photogrammetric office unless further investigation is made in the field.

"Items to be Applied to Nautical Charts Immediately"

None

"Items to be Carried Forward"

None

Approved:

*V. Ralph Sobieralski*

V. Ralph Sobieralski  
LCDR C&G Survey  
Officer-in-Charge

Respectfully submitted:

*J. Edward Deal*

J. Edward Deal  
Cartographer  
C&GS

T-11306

Geographic Names.

Baptist Church

Carolina Skyways (private airfield)

Centerville

Charleston County

Elementary School

Folly Beach Road

State 171

Folly Creek

Goat Island

James Island

James Island Creek

James Island High School

James Elementary School

James Island Presbyterian Church and Cemetery

Johns Island

Johns Island Airport

Kings Highway

Payne Chapel

Seaside

Seaside Creek

Secessionville

Secessionville Creek

Simpson Creek

South Carolina

Stono River

West Gresham Meggett School

Wolf Pit Creek Run

Names approved 12-6-57

L. Heck

L.H.

50

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 11306

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

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) None 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes None 10. Photogrammetric plot report X 11. Detail points X

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line X 14. Rocks, shoals, etc. X 15. Bridges X 16. Aids to navigation None 17. Landmarks X 18. Other alongshore physical features X 19. Other along-shore cultural features X

## PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general none 25. Spot elevations None 26. Other physical features X

## CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads None 30. Other cultural features X

## BOUNDARIES

31. Boundary lines None 32. Public land lines None

## MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X40. \_\_\_\_\_  
ReviewerJ. Edward Deal  
Supervisor, Review Section, Chart  
J. Edward Deal

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.

\_\_\_\_\_  
Compiler\_\_\_\_\_  
Supervisor

43. Remarks:

M-2623-12

**STRIKE OUT ONE**

**NONTECHNICAL LANDMARKS FOR CHARTS (T-11306)**

Portland, Oregon

I recommend that the following objects which have ~~(been examined)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing by **J. E. Deal**

**V. Ralph Sobieralski** *Chief of Party;*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



49. Notes to the Hydrographer:

None

REVIEW REPORT T-11306 thru T-11315  
PLANIMETRIC  
12 February 1958

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

296	1:20,000	1849	899	1:20,000	1862
491	1:20,000	1854	3843	1:20,000	1921
714	1:20,000	1858	4856	1:10,000	1934
964	1:10,000	1864	6074	1:10,000	1934
			5154	1:20,000	1934

These manuscripts supercede all the above surveys in common areas as source material for charts.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

James Island	1:25,000	AMS
The Jetties	"	"
Legareville	"	"
Kiawah Island	"	"

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

792	1:40,000	2nd Ed. 1941	Revised 9/9/57
491	1:20,000	1st Ed. 1936	Revised 1/21/57

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These maps comply with instructions and meet the National Standards of Map Accuracy.

They are of adequate accuracy for use as a base for future hydrographic surveys.

Pertinent comments applicable to each survey follows:

T-11306

Attention is directed to Item 47 for investigation by future hydrographic surveys.

The overhead power cable over Simpson Creek was not verified by field inspection.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS CONTINUED

T-11307

Refer to Item 46 and 47 of the Compilation Report.

T-11308

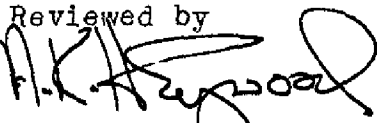
It is recommended that the positions of the north and south jetties be checked by the hydrographer. Refer to Item 25 of the Plot Report and Item 31 of the Compilation Report.

T-11311


Several Differences exist in clearances between the manuscript and the chart.


Location	Feature	Chart	Manuscript
East of Peas Island	OVHD CAB	48'	59'
Folly Beach Acr. Folly Cr.	Fixed Bridge	Vt. 61.10'	11'
		Horiz. 61.57'	54'
4 Oak Island Cr.	Fixed Bridge	Vt. 61.3'	Skiff cl.
		Horiz. 61.28'	


Reviewed by

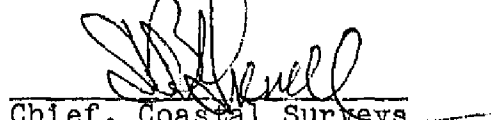
  
A. K. Heywood

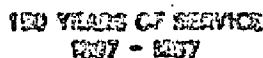
Approved

  
Chief, Review Branch  
Photogrammetry Division

  
Chief, Nautical Chart Branch  
Charts Division

  
Chief, Photogrammetry  
Division

  
Chief, Coastal Surveys  
Division



U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
WASHINGTON, D. C.

IN EARLY DECEMBER THE CHINESE  
GOVERNMENT ANNOUNCED THAT THE  
NEW 1954 CONSTITUTION OF THE PEOPLE'S

573 10-12-72 73 100. - 100. 100. 100.

*[Handwritten signature]*

10/10/2010 10:10:10 AM

\* *Van* ... estimated ...

\* OUTSIDE THE PROJECT LIMITS

Ad



5

AIR MAIL

27 November 1956

To: The Chief, Photogrammetry Division  
Coast and Geodetic Survey  
Department of Commerce  
Washington 25, D. C.

Subject: Triangulation Station, FORT MOULTRIE, NEW TANK  
1953

When laying the combined photogrammetric plot for T-11306 thru T-11308, T-11311 and T-11312, Project 25190, Charleston, S.C. the published position of station "FORT MOULTRIE, NEW TANK, 1953" cannot be held. A radial intersection of the identified tank was obtained 0.5mm north of the plotted published geographic position.

All operations performed at this office have been double checked and found to be correct. Ten other control stations within the area hold well when the published position of this tank is disregarded in the orientation of the templates. The intersection at the tank from WILT (USE), MILL (USE), BETTERY 3 (USE) shown on Page 307, GTZ-G-10090, Geographic positions appears very slim. The tank is No. 22 on Project 25190 index map.

Also the angles to the reference marks for PLUM 2, 1919 on Page 31, Pamphlet No. 203, South Carolina Coast appear to be listed 90 degrees minus in error.

J. Edward Deal  
Cartographer  
for:  
Fred Matella  
Comdr., C&G Survey  
Officer-in-Charge

JED/bpc

AIR MAIL

27 November 1956

To: The Chief, Photogrammetry Division  
Coast and Geodetic Survey  
Department of Commerce  
Washington 25, U. C.

Subject: Triangulation Station, FORT MOULTRIE, NEW TANK  
1953

When laying the combined photogrammetric plot for T-11306 thru T-11308, T-11311 and T-11312, Project 25190, Charleston, S.C. the published position of station "FORT MOULTRIE, NEW TANK, 1953" cannot be held. A radial intersection of the identified tank was obtained 0.5mm north of the plotted published geographic position.

All operations performed at this office have been double checked and found to be correct. Ten other control stations within the area hold well when the published position of this tank is disregarded in the orientation of the templates. The intersection at the tank from WILT (USE), MILL (USE), BATTERY 3 (USE) shown on Page 307, GIZ-G-10090, Geographic positions appears very slim. The tank is No. 22 on Project 25190 index map.

Also the angles to the reference marks for PLAIN 2, 1919 on Page 31, Pamphlet No. 203, South Carolina Coast appear to be listed 90 degrees minus in error.

J. Edward Deal  
Cartographer  
for:  
Fred Matella  
Comdr., C&G Survey  
Officer-in-Charge

JED/bpo

## NAUTICAL CHARTS BRANCH

SURVEY NO. *T-11306*

## Record of Application to Charts

[illegible]

M.2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.