

# 11308

ORIG.

Diag. Cht. No. 1239-2.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric
Field No. 6126	Office No. T-11308
LOCALITY	
State	South Carolina
General locality	Charleston County
Locality	Cummings Point
1956	
CHIEF OF PARTY	
Ira R. Rubottom, Chief of Party	
V. Ralph Sobieralski, O-in-C., Portland	
Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	JUN 13 1958

CGMM-DC 61300

# 11308

DESCRIPTIVE REPORT - DATA RECORD

T - 11308

Project No. (II): 6126

Quadrangle Name (IV):

CUMMINGS POINT

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

Chief of Party: Ira R. Rubottom

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 30 1957

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 3 MAR 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 (2) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): CUMMINGS 1933

Lat.:  $32^{\circ} 44' 17.044''$  525.0m  
(1323.3m)

Long.:  $79^{\circ} 52' 24.287''$  632.4m  
(929.8m)

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State:

Zone:

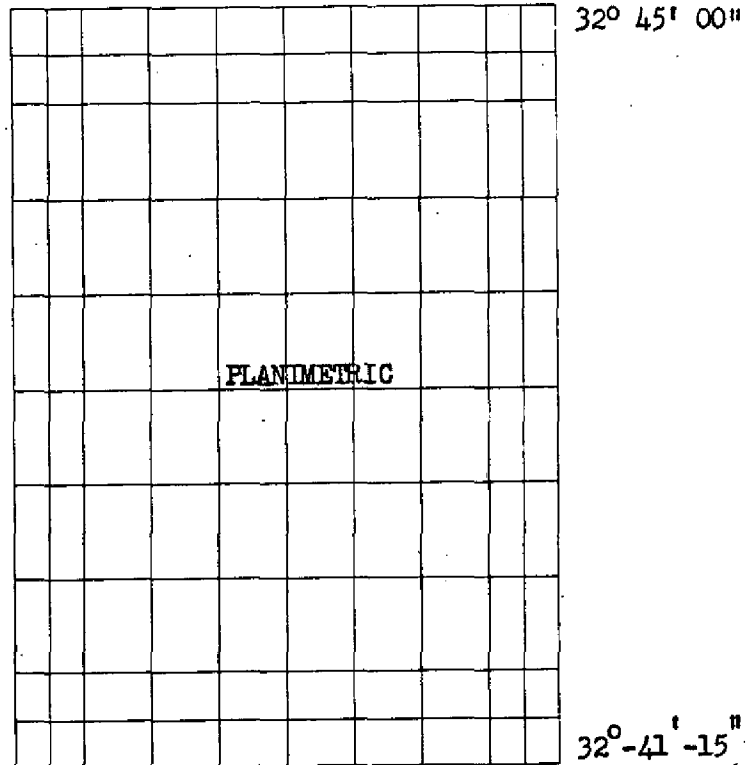
Y=

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



79° 52' 30"

Areas contoured by various personnel 79°-48'-00"

(Show name within area)

(II) (III)



DESCRIPTIVE REPORT - DATA RECORD

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

Date: Mar., 1956  
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 9-lens photographs of November 1955 and office examination and refinement.

Projection and Grids ruled by (IV):

A. Ruxy

Date: 12/21/55

Projection and Grids checked by (IV):

A. Ruxy

Date: 1/3/56

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

Date: 10/11/56

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

Date: 10/11/56

Radial Plot or Stereoscopic LTJG Clinton D. Upham

Date: 12/3/56

Control extension by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): LTJG Clinton D. Upham (Rough Draft)  
" " " " (Scribing)  
C.C. Harris (Stick-up)

Date: 12/14/56  
12/21/56  
4/8/57

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

Date: 5/15/57

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

Date:



## DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

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

Number	Date	Time	Scale	Stage of Tide
49286 and 49287	3/23/55	14:08	1:10,000	0.3 ft. below M.L.W.
52206	11/21/55	10:08	1:10,000	4.4 ft. above M.L.W.

Tide (III)

FROM TABLE OF PREDICTED TIDES

Reference Station: Charleston, S. C.  
Subordinate Station: Fort Sumter  
Subordinate Station: Sullivans Island

Ratio of Ranges	Mean Range	Spring Range
	5.1	6.0
	5.0	5.9
	5.2	6.1

Washington Office Review by (IV):

A.K. Hexwood

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): 1

Shoreline (More than 200 meters to opposite shore) (III): 2.0

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 6 \*

Recovered: 5 \*\*

Identified: 2 \*\*\*

Number of BMs searched for (II): 3 #

Recovered: 3

Identified: 0

Number of Recoverable Photo Stations established (III): 1 ##

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

Remarks:

\* Plus 15 north of map

\*\* Plus 11 north of map

\*\*\* Plus 2 north of map

# Tidal Bench Marks

Plus 20 searched for, 20 recovered and 2 identified north of the map

## Station COTE 1956 falls on T-11308 and not on T-11307 as listed in field inspection report.



## FIELD INSPECTION REPORT

Project Ph-126

Map Manuscript T-11308

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 Report  
in Library*



## PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11308

Project Ph-126

The control extension for this map manuscript was completed as part of a combined radial plot comprising map manuscripts No'd. T-11306 thru T-11308, T-11311 and T-11312. The Photogrammetric Plot Report is included in the Descriptive Report for map manuscript T-11306.





## COMPILATION REPORT

Map Manuscript T-11308

Project Ph-126

31. Delineation:

All statements under this heading in the Compilation Report for T-11306 also apply to T-11308 except those about buildings.

Because of the inadequate photograph coverage parts of both jetties at the entrance to Charleston Harbor and particularly for the north jetty, are probably of sub-normal horizontal accuracy. Poor definition and the slim angle of radial intersections also contributed to this condition.

The jetties were detailed from graphically located detail points although many of these were of doubtful identification. The few points considered to have strong locations were rigidly held when compiling the detail. The points of doubtful location and the plotted triangulation station located on the south jetty were used to maintain the direction in which the jetties run out into the sea. The curves of both jetties and the location of the offshore ends are of questionable horizontal accuracy. Chamber lines were disregarded when delineating the jetties because it was necessary to take most of the detail from Photograph No. 49286.

Field Photograph No. 49286 indicates a submerged jetty for the length of the south jetty between the shoreline and the inshore end of the rock jetty above water. This is not in agreement with nautical charts of the area which show a 28 ft. depth of water 300 meters wide through one section of this indicated submerged jetty.

Paragraphs 32 thru 36:

ACCORDING TO THE CHART THE LEAST DEPTH OVER THIS SUBMERGED JETTY IS 7'. NO INDICATION OF THE JETTY COULD BE SEEN ON THE PHOTOGRAPHY. IT IS NOT SHOWN ON THE MANUSCRIPT.

37. Landmarks and Aids:

Form 567 is submitted for one aid to navigation namely:

FORT SUMPTER RANGE FRONT LIGHT

This light was not included in the aids to navigation



for charting submitted by the field party for the project. The light list does not show any change since the time of location of this structure by traingulation methods.

38. Control for Future Surveys:

Form 524 is submitted for a recoverable topographic station namely:

COAT 1956

This station has been listed under Paragraph 49, "Notes to the Hydrographer".

39. Junctions:

A satisfactory junction was made with T-11307 to the West. A contemporary survey was not furnished to the north for junction purposes. To the east and south is the Atlantic Ocean.

40. Horizontal and Vertical Accuracy:

Refer to remarks under Paragraph 31, "Delineation" of this report.

46. Comparison with Existing Maps:

Comparison was made with the Army Map Service 7½ minute quadrangle "The Jetties, S. C." Scale, 1:25,000, First Edition 1943.

Comparison was made with C&GS Air Photo Compilation No. T-5180 of 1933, Scale 1:10,000.

\*47. Comparison with Nautical Charts:

Comparison was made with nautical chart No. 491, Scale 1:20,000, published Dec. 1936 (1st edition) last corrected 6/23/52.

There are slight differences between the map manuscript and the chart in the positions of the jetties at the entrance to Charleston Harbor.

"Items to be applied to nautical chart immediately"

None.

"Items to be carried forward"

None.

\* REFER ALSO TO ITEM # 47  
DESCRIPTIVE REPORT T-11307 RELATIVE  
TO FAST LAND ON TIP OF COMMINGS  
POINT.  
AAA



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-11308

Geographic Names.

Atlantic Ocean

Charleston Harbor Entrance (used on chart 1238 and as title of 491)

Charleston County

Cummings Point

Morris Island

North Jetty

South Carolina

South Jetty

Names approved 12-6-57.

L. Heck. L. H.



49. Notes to the Hydrographer:

To verify remarks made in Paragraph 31. "Delineation" of the Descriptive Report for this manuscript it is suggested that horizontal accuracy tests be made for the location of the jetties shown on the manuscript at the Entrance to Charleston Harbor.

One monumented recoverable topographic station was located along the Atlantic Ocean shoreline. It is:

COAT 1956

## PHOTOGRAMMETRIC OFFICE REVIEW

T-11308

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) X 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 None 16. Aids to navigation X 17. Landmarks None 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 X 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X40. \_\_\_\_\_  
Reviewer*J. Edward Deal*  
Supervisor, Review Section or Unit

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:

**TO BE CHARTED**  
~~CONFIDENTIAL~~

Portland, Oregon 9 September, 1957

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

**V. Ralph Sobleralski**  
*Chief of Party.*

[illegible]

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.

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	1927
714	1:20,000	1858	4856	1:10,000	1931
964	1:10,000	1864	6074	1:10,000	1931
			5154	1:20,000	1931

These manuscripts supersede 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 Cove was not verified by field inspection.



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	1880
491	1:20,000	1854	3943	1:20,000	1927
714	1:20,000	1858	4856	1:10,000	1937
964	1:10,000	1864	6074	1:10,000	1938
			5154	1:20,000	1938

These manuscripts supersede 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
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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 4 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 Aer. Folly Cr.	Fixed Bridge	Vt.el.10'	11'
		Horiz.el.57'	54'
Oak Island Cr.	Fixed Bridge	Vt.el. 3'	Skiff ch.
		Horiz.el.28'	

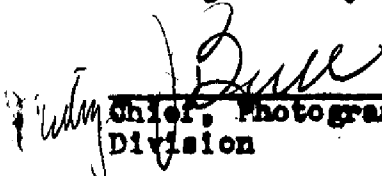
Reviewed by


  
A. K. Heywood

Approved

  
Chief, Review Branch  
Photogrammetry Division

  
Chief, Nautical Chart Branch  
Charts Division

  
Chief, Photogrammetry  
Division

  
Chief, Coastal Surveys  
Division

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS CONTINUED

T-11307

Refer to Item 4<sup>6</sup> 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	OVERD CAB	48'	59'
Polly Beach Aer. Polly Cr.	Fixed Bridge	Vt.el.10'	11'
		Horiz.el.57'	54'
Oak Island Cr.	Fixed Bridge	Vt.el. 3'	Skiff el.
		Horiz.el.28'	

Reviewed by

*A. K. Heywood*  
A. K. Heywood

Approved

*L. C. Rende*  
Chief, Review Branch  
Photogrammetry Division

*Max E. Little*  
Chief, Nautical Chart Branch  
Charts Division

*J. D. ...*  
Chief, Photogrammetry  
Division

*W. B. ...*  
Chief, Coastal Surveys  
Division

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-11308

### 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.