

11307

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-11307
LOCALITY	
State	South Carolina
General locality	Charleston County
Locality	Morris Island
19 56	
CHIEF OF PARTY	
Ira R. Rubottom, Chief of Party	
V. Ralph Sobieralski, O-in-C., Portland	
Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	MAY 23 1958

COMM-DC 61300

11307

DESCRIPTIVE REPORT - DATA RECORD

T- 11307

Project No. (II): 6126

Quadrangle Name (IV):

MORRIS ISLAND
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 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): X

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): BLOCK 1900

Lat.: 32° 42' 18.590" 572.7m
(1275.6m)

Long.: 79° 54' 24.502" 638.1m
(924.6m)

Adjusted X
Unadjusted

Plane Coordinates (IV):

State:

Zone:

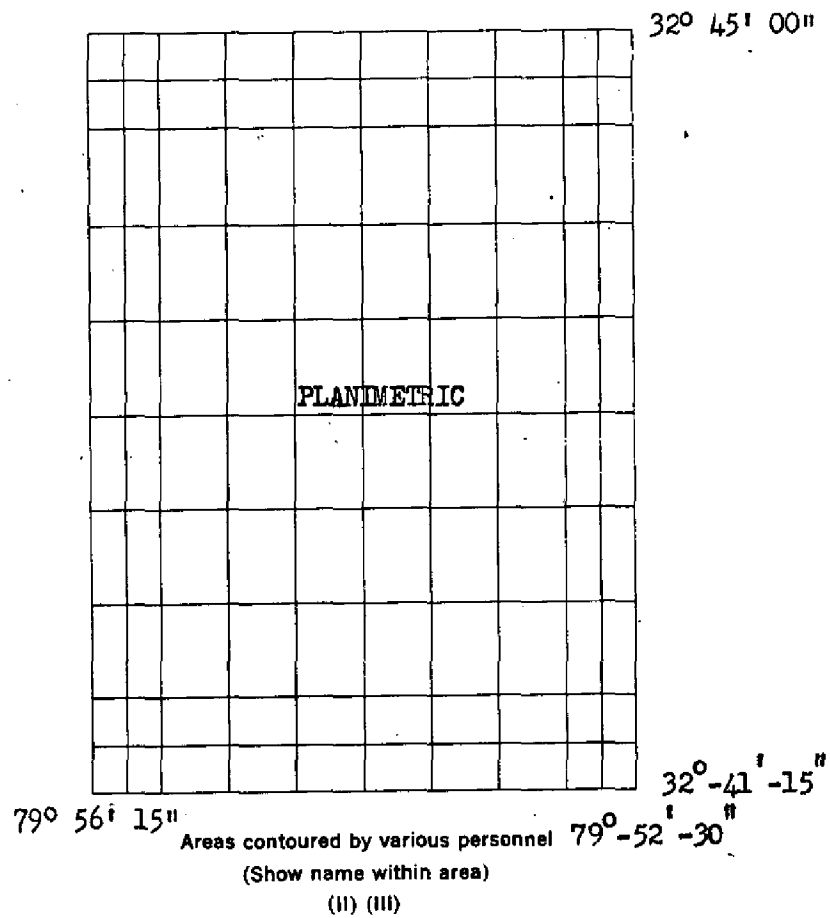
Y=

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
Leo F. Beugnet
John R. Smith
Richard H. Houlder
John S. Winter

Jan., Feb., 1956
Feb., Mar., 1956
Date: Mar., 1956
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.R. ~~LEY~~

Date: 8/7/55

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

Date: 1/3/56

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

Date: 12/3/56

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): L. L. Graves (Rough draft)
L. L. Graves (Scribing)
C. C. Harris (Stick-up)

Date: 1/18/57
1/29/57
4/5/57

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

Date: 5/16/57

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

Date:

5.
DESCRIPTIVE REPORT - DATA RECORDU.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
49288 & 49289	3/23/55	14:10		1:10,000	0.3 ft. below M.L.W.
52200 thru 52202	11/21/55	9:55		1:10,000	4.1 ft. above M.L.W.
52207	11/21/55	10:08		1:10,000	4.4 ft. above M.L.W.
49244	3/55	13:37		"	

Tide (III)
From Table of Predicted Tides

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

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

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): 13

Shoreline (More than 200 meters to opposite shore) (III): 12.6

Shoreline (Less than 200 meters to opposite shore) (III): 20.5 (measured along middle line of stream)

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 3 *

Recovered: 3 **

Identified: 1 ***

Number of BMs searched for (II): #

Recovered:

Identified:

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

Number of Temporary Photo Hydro Stations established (III):

Remarks:

* Plus 8 north of map

** Plus 6 north of map

*** Plus 3 north of map

Tidal Bench Marks north of map:

6 searched for, 6 recovered, 2 identified

Additional Recoverable Photo Station submitted by Photogrammetric Office

FIELD INSPECTION REPORT

Project Ph-126

Map Manuscript T-11307

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 Manuscript T-11307

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.

SCALE FACTOR None

COMPT. DC-5784C

DATE	10/8/56
CHECKED BY	J. L. H.
DATE	10/5/56
COMPUTED BY	C. D. U.

1 FT. = 3048006 METER

COMPILATION REPORT

Map Manuscript T-11307

Project Ph-126

Paragraphs 31 thru 36:

Refer to the Compilation Report for T-11306 which is included in the Descriptive Report for that manuscript.

37. Landmarks and Aids:

Form 567 is submitted for one aid to navigation falling within the limits of this map manuscript.

On the Form 567 for landmarks, submitted by the field party for the entire project, there is listed two tanks recommended for charting which lie north of the neat limits of T-11307. They are:

TANK, steel, water, 97 ft. high (106)
(FORT JOHNSON SOUTH TANK, 1953)

TANK, steel, water, 97 ft. high (102)
(QUARANTINE WATER TANK, 1921)

These are shown in their correct location on Nautical Chart No. 792 and because they are outside the neat limits of T-11307 and also of the project limits, Form 567 is not submitted by the Photogrammetric Office.

38. Control for Future Surveys:

Form 524 is submitted for MICHEL AZIMUTH MARK, 1956. This form was completed at the Photogrammetric Office and the station is not listed in Paragraph 11 of the Field Report. It is listed in Paragraph 49 of this report.

One other station, namely: COAT, 1956, listed in Paragraph 11 of the Field Report as being in T-11307 actually falls in T-11308 and will be submitted with that manuscript.

39. Junctions:

Satisfactory junctions were made with T-11306 on the West, T-11308 on the East and T-11312 on the South. * Any contemporary survey that may have been made to the north was not available for junction purposes.

* NO SURVEY HERE

40. Horizontal and Vertical Accuracy:

41. Disagreement with Recovery Note:

* The 1956 recovery note for station MORRIS, 1934 states that the 1934 published description for the station is adequate. This does not appear to be correct according to field inspection data and final geographic names sheet. The map manuscript shows this station to be about $\frac{1}{2}$ mile north of Lighthouse Creek and not on the south side of the creek as stated in the description. The station is on a marsh island that lies between Clark Sound and Nigger Head Creek.

* GEOSY NOTIFIED

46. Comparison with Existing Maps:

Comparison was made with the Army Map Service, James Island, S. C. 7 $\frac{1}{2}$ minute quadrangle, Scale 1:25,000, first edition 1943.

Comparison was made with C&GS Air Photo Compilations of 1933, Nos. T-5180, T-5181, T-5183 and T-5184.

The Atlantic Ocean shoreline has receded approximately 400 meters at Lighthouse Inlet. Northeasterly from Lighthouse Inlet the receding decreases and at Cummings Pt. there is an agreement on the ocean side. The tip of Cummings Pt. has built up considerably since the 1933 survey.

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.

The receding of the Atlantic Ocean shoreline mentioned in the previous paragraph is found less severe when comparison is made with this chart, it being but 150 meters at Lighthouse Inlet. The manuscript shows fast land at the tip of Cummings Point where the chart shows from 10 to 17 feet of water.

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

"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-11307

Geographic Names:

Atlantic Ocean

Bass Creek

Block Island Creek

Charleston County

Charleston Light

Clark Sound

First Sister Creek

Fort Johnson Creek

Goat Island

Heron Island

James Island

Kings Highway

Kushiwah Creek

Lighthouse Creek

Lighthouse Inlet

Long Island

Morris Island

Nigger Head Creek

Oceanview

Parrot ~~Creek~~ Point

Parrot Point Creek

Schooner Creek

Secessionville Creek

Second Sister Creek

South Carolina

Three Trees

Rat Island

Rat Island Creek

Names approved 12-7-57.

L. Heck. L. H.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11307

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 X 16. Aids to navigation X 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 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:

49. Notes to the Hydrographer:

One recoverable topographic station was located namely:

MICHEL AZIMUTH MARK, 1956

NONFLOATING AIDS ~~OBVIOUS MARKS~~ FOR CHARTS (T-11307)

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 ~~(20272028293031)~~ the charts indicated.

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

[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 shall 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	1902
491	1:20,000	1854	3243	1:20,000	1921
714	1:20,000	1858	4856	1:10,000	1931
964	1:10,000	1864	6074	1:10,000	1931
			5154	1:20,000	1937

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	"	"
Kiswah 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.

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	1362
491	1:20,000	1854	3843	1:20,000	1921
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

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None

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Pertinent comments applicable to each survey follow:

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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'
Polly Beach Aer. Polly Cr.	Fixed Bridge	Vt.el.10'	11'
		Horiz.el.57'	54'
Oak Island Cr.	Fixed Bridge	Vt.el. 3'	Skiff cl.
		Horiz.el.28'	

Reviewed by

A. K. Heywood
A. K. Heywood

Approved

L. A. Kande
Chief, Review Branch
Photogrammetry Division

May Skelton
Chief, Nautical Chart Branch
Charts Division

Ed. Bruce
Chief, Photogrammetry
Division

W. B. Skelton
Chief, Coastal Surveys
Division

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	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. A. Kande
Chief, Review Branch
Photogrammetry Division

May B. Little
Chief, Nautical Chart Branch
Charts Division

Ed. J. B. [Signature]
Chief, Photogrammetry
Division

[Signature]
Chief, Coastal Surveys
Division

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

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.