# 

Diag. Cht. Nos. 1239-2 & 1240-2.
Form 504
U. S. DEPARTMENT OF COMMERCE  COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
Type of Survey Topographic
Field No. Ph-154 Office No. T-10303
LOCALITY
State South Carolina
General locality St. Helena Island
Locality Otter Islands
57
19 <del>55 +</del> 1960
CHIEF OF PARTY J. E. Waugh, Photogrammetric Party No. 1 William F. Deane, Balto. District Officer
LIBRARY & ARCHIVES
DATE Sept. 1963

сомм-рс 61300

### DESCRIPTIVE REPORT - DATA RECORD

T-10303

Project No. (II): Ph-154

Quadrangle Name (IV):

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

Chief of Party:

J. E. Waugh

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: W. F. Deane

Instructions dated (II) (III): 16 August 1955 (Field and Office)

Copy filed in Division of

19 October 1953 (Project Ph-81) Par. 4

Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

1.000

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): MSL

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):

ASH, 1914

Lat.: 32° 29' 19.511" (601.0m)

Long.: 80° 25' 00.170" (4.4m)

**Adjusted** 

DEPLEMENTAL STATE

Plane Coordinates (IV):

State: 5. C.

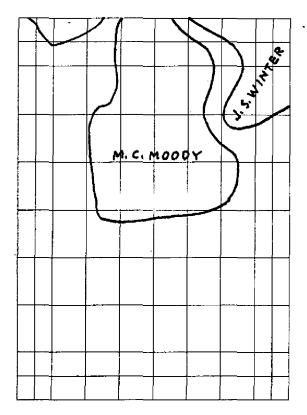
Zone:

South

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.



Areas contoured by various personnel (Show name within area)
(II) (III)

### DESCRIPTIVE REPORT - DATA RECORD

(3)

W. M. Reynolds

Field Inspection by (II): B. F. Lampton, Jr.

I. Y. Fitzgerald

M. C. Moody

Planetable contouring by (II): M. C. Moody

J. S. Winter

Jan.-Feb. 1954

Date: Feb. 1954

July 1955

Aug. 1955

Date: Aug. 1955

July 1955

Completion Surveys by (II): G.E. VARNADOE

Date: 1966

Mean High Water Location (III) (State date and method of location): 1955 photographs - Field inspection and office interpretation.

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

Date: 8/19/55

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

Date: 8/19/55

Control plotted by (III): B. F. Lampton

Date: 10/31/55

Control checked by (III): E. L. Williams

Date: 10/31/55

Radial Plot TEXASSE PERSONNE

CONTRACKS SERVICE by (III): B. Frank Lampton

Date: 12/15/55

Planimetry

Contours

Stereoscopic Instrument compilation (III):

Date:

Date:

Manuscript delineated by (III): J. Councill

Date: 6/17/58

Photogrammetric Office Review by (III): R. Glaser

Date: 6/20/58

**Elevations on Manuscript** 

checked by (II) (III):

R. Glaser

Date: 6/20/58

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III): 9 lens (C&GS)

(4)

		PHOTOGRAPHS	(III)	
Number	Date	Time	Scale	Stage of Tide
35988 and 35989	3/17/52	0952	1:10,000	4.2 above MLW
49266 and 49267	3/23/55	1355	11	-0.7 below MLW
49313	3/23/55	1430		-0.5 below MLW
52229 and 52230	11/21/55	1022	ti .	4.8 above MLW

Refer to Field Edit Report for nos. OF Fiero Edit photos

Tide (III)
From predicted Tide Tables

Reference Station:

Savannah River Entrance

Subordinate Station:

Combahee Bank

Subordinate Station:

Washington Office Review by (IV): 5.6. BLANKENGAKE N

Spring

Range

JUNE 1963

8.1

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Ratio of Mean

Date:

Date:

Date:

Range

6.8

Ranges

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 4

8 mi. Shoreline (More than 200 meters to opposite shore) (III): 10 mi.

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

1 Identified: 1 Recovered: Number of Triangulation Stations searched for (II): Recovered: Identified: Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

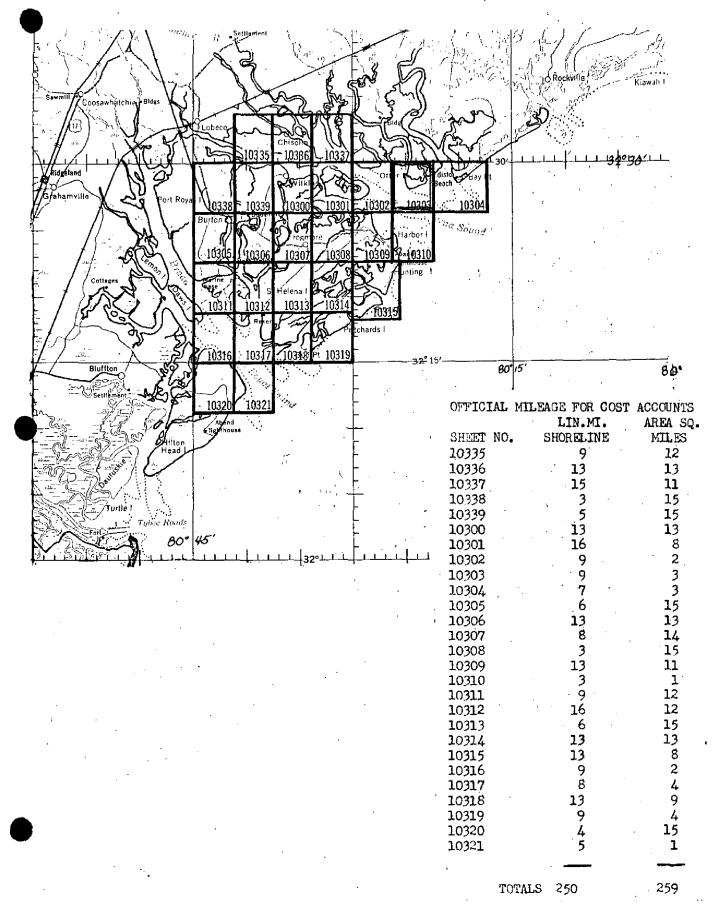
Number of Third-Order Stations established: Identified: 1

Number of Recoverable Topographic Stations

established:

rji)

## SHORELINE MAPPING PROJECT 6154 ST. HELENA SOUND TO PORT ROYAL SOUND, S. CAROLINA



### Summary to Accompany Descriptive Reports T-10303 and T-10304

These topographic maps are a part of Project 154. The remainder of the project is comprised of 25 planimetric maps. T-10303 and T-10303 were completed - field edited-in 1960 in conjunction with the completion of PH-81 maps (topographic) to the north. The PH-81 maps will be reduced, edited, and published by the Geological Survey as standard topographic maps.

The subject maps (T-10303 and T-10304) will not be published - recent Geological Survey Quadrangles cover the area.

Items to be registered under T-10303 and T-10304 will include Descriptive Reports and Cronar positives of the manuscripts.

FIELD INSPECTION REPORT
Project 6154
Map T-10303

Please refer to the Field Inspection Report for Map T-10315 for all data pertaining to this map.

110 OCT 1955

Joseph K. Wilson Cartographer

Approved & Forwarded: 10 OCT 1955

J. E. Waugh

Chief of Party

MAP T. 10303 Ph-154 SCALE OF MAP 1:10,000 COAST AND GEODETIC SURVEY CONTROL RECORD DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

MAP T. 10303		PROJEC	PROJECT NO.	Ph-154	7	SCALE OF MAP. 1:	1:10,000	SCALE FACTOR	сток
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	OR #-CO	ORDINATE SORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE LINE FROM GRID OR PROJECTION LINE IN METERS K) FORWARD (BACK)
АЅН, 1914	G-1669 p. 63	NA 1927	32 80	25	19.511			601.0 (1247.2)	1.2)
COMBAHEE BANK LIGHT, 1955	Field Comp.	=	32 80	28 26	03.111				(4,5)
PELICAN BANK DAYBN "A", 1955	=	=			56.609				1.5)
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-									
TET = 3046006 METER COMPUTED BY. J. C. CRESSA.	Cregan	DA	DATE 10/18/55	3/55		CHECKED BY. H. R. Rudolph	. Rudolpi		COMM- DC- 57843

### COMPILATION REPORT Survey T-10303

The Photogrammetric Plot Report is a part of Descriptive Report, T-11125.

### 31. DELINEATION

This manuscript was delineated by graphic methods.

The Nov. 1955 photographs were office interpreted and used to correct the earlier field inspection where such changes were deemed necessary.

### 32. CONTROL

Identification, density and placement of horizontal control is considered to be adequate.

### 33. SUPPLEMENTAL DATA

For names, an annotated USGS Quadrangle, Edisto Island, S. C., was used.

### 34. CONTOURS AND DRAINAGE

Contours: The field contours were adequate except along the beach where the 5-foot contour had to be moved to agree with the changes in the MHWL - as shown on 1955 photographs.

### 35. SHORELINE AND ALONGSHORE DETAILS

The south shoreline of Otter Islands changed with each succeeding group of photographs. The high and low water lines now on the manuscript were delineated from the latest photographs available (Nov. 1955).

### 36. OFFSHORE DETAILS

The extensive offshore shallows were determined from the most recent available low-water pictures (March 1955).

### 37. LANDMARKS AND AIDS

There are no landmarks.

There is herewith submitted Form 567 for two aids to navigation.

### 38. CONTROL FOR FUTURE SURVEYS

Form 524 for four recoverable topographic stations have been previously submitted. They are: TRAY, 1954; ACHE, 1954; LITE, 1954; and ISLE, 1954.

Item 49 was not used because these forms have already been furnished to the hydrographic party.

### 39. JUNCTIONS

T-10303 joins T-11123 (Ph-81) to the north. T-10304 to the east, all water junction with T-10310 to the south and T-10302 to the west.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Not applicable.

### 46. COMPARISON WITH EXISTING MAPS

Quadrangle (USGS) Edisto Island, S. C., scale 1:62,500, edition of 1919 reprinted 1944.

C&GS T-5169, South Edisto River, scale 1:10,000; from photographs of 1933.

### 47. COMPARISON WITH NAUTICAL CHART

This manuscript has been compared with chart No. 793, scale 1:40,000, published September 1937, corrected to June 16, 1956.

Items to be applied to nautical chart immediately: None. Items to be carried forward: None.

Respectfully submitted June 17, 1958

Approved and forwarded

Wiliam F. Ver

William F. Deane

CDR C&GS

Baltimore District Officer

Judson Councils

Judson Y. Councill

Carto. Photo. Aid

M-2623-12

50-

43. Remarks:

### PHOTOGRAMMETRIC OFFICE REVIEW

т- 10303

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
CONTROL STATIONS  4a. Classification label
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Recks, shoals, etc15. Bridges16. Aids
to navigation17. Landmarks18. Other alongshore physical features19. Other along -
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features
CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms  40. Pullanu Supervisor, Review Section of Unit
40. Polase Joseph Steinberg
40. Politica Joseph Sleinberg Supervisor, Review Section of 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.

F.E. REPORTS (12)

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FIELD EDIT REPORT PROJECT PH-81 QUADS. T-11123 & T-10303

51. Methods. All roads were ridden out to check their classification and to visually inspect the planimetry and contours, except on that part of Femwick Island south of Femwick Cut, where the
roads were walked out. Some road 7's that have been abandoned and
have become impassable through disuse were deleted. Roads that have
been constructed since the field inspection have been classified on
the 1959 photographs and cross referenced on the field edit sheets.

Additional acreage has been added to the Bear Island Game Management Area south of Grooked Greek. The section of the new boundary line appearing on photograph 595-9084 was taken from an aerial photograph (approx. 1:4800 scale) which is on file at the Game Management Headquarters on Bear Island. A small scale map, as furnished to hunters, showing this area is a part of the data for T-11123 and is labeled Field Edit Sheet No. 5.

Features that are new since the field inspection, principally dikes and ditches, appear on the 1959 photography. These have been classified and cross referenced on the field edit sheets. New buildings and others that were not mapped have been circled on the 1959 photographs where they are discernible. Those that have been built since photography or are obscured by trees have been blocked in and circled. All buildings are class I unless otherwise classified.

The Intracoastal Waterway and other inland waters, where questions arose, were inspected by boat and changes noted on the photographs, in many areas. Note old boat wreckage on shoal approximately one mile Northwest of Ferwick Cut, on photograph 59S-9061.

Aids to navigation that are known to have been moved or rebuilt since the field inspection were located by direct identification on the photographs where clearly discernible and by sextant fixes for others. Asimuths of the ranges were determined by occupying the front range and measuring the angle from a triangulation station to the rearrange with a sextant held directly over the front range.

All aids are charted except Daybeacon 5 at Lat. 32 32.0 Long. 80 23.6 (approx.) and a Marker (large single pile) at Lat. 32 31.5 Long 80 22.5 (approx.).

Forms 567 are being submitted for all sids located since 1
June 1960 when forms 567 for sids prior to this date were submitted
with Quad. T-11122. These forms are being submitted to the Ehotogrammetric Office only and are to be forwarded to their proper designations
when accurate positions are determined.

The M H W L along the Sound side of Otter Island in T-10303 was inspected and located by walking the shoreline. Inspection by boat was impractical because of the vast area offshore which was bare or very shallow when the area was inspected.

Field edit information is shown on the following: Five field edit sheets for T-11123 and one field edit sheet for T-10303. One ratio print each of photographs Nos. 59S-9048, 9050, 9052, 9054, 9059, 9061, 9063, 9082, 9084 and 9086.

Violet ink was used for all additions and corrections and green ink was used for all deletions on all photographs and sheets.

- 52. Adequacy of The Compilation. Due to the long lapse of time since the field inspection many changes have occurred and new features built. The M H W L along the sound side of Otter Island should be corrected from the inspection of 5 Aug. 1960, on photograph 59S-9054 and the 5 feet contour should be corrected as discussed in letter to Chief, Photogrammetry Division dated 11 June 1960 and reply No. 762/AKH dated 21 June 1960. When these and other corrections and additions are applied from the field edit data the compilation will be adequate and complete.
- 53. Map Accuracy. No horizontal accuracy tests were made. Contours were tested in two separate areas in T-11123. A total of 33 points on the contours were tested all of which were in error less that one half contour interval. See form 187 (Summary and abstract of vertical accuracy test) attached. Contours along the Sound side of Otter Island in T-10303 were visually inspected while walking the area. Except for the 5 foot contour, which has shifted with the M H W L in places, the contours are good as to shape and size.

55. Examination of the proof copy. No one was requested to examine a proof copy of the map as no one contacted was believed to be qualified.

Respectfully submitted, 18 August 1960

George E. Varnadoe Supervisory Cartographer.

# Review Report Topographic Map T-10303 June 1963

### 61. General Statement

Differences exist between T-10303 and a 1956 Geological Survey Quadrangle (St. Helena Sound, S. C., scale 1:24,000). The differences are discussed under item 63 of this report.

T-10303 will not be published by the Geological Survey (refer) to the "Summary" for this report).

### 62. Comparison with Registered Topographic Surveys

5169 1:10,000 1933

T-10303 supersedes the prior survey for nautical charting pruposes. Purposes

### 63. Comparison with Maps of Other Agencies

St. Helena Sound, S. C. 1956 1:24,000

Differences exist. They are, for the most part, differences to be expected due to the elapsed time between the surveys and sclae difference.

There are differences in apparent shoreline resulting from a difference in selection of details to represent this feature. In addition, there are some differences in contours.

### 64. Comparison with Hydrographic Surveys

Inapplicable.

### 65. Comparison with Nautical Charts

793 revised 12/4/61 1:40,000 scale

Differences exist. However, there are no items to be applied immediately.

### 66. Adequacy of Results and Future Surveys

This map complies with the National Map Accuracy Standards and meets Bureau requirements.

Reviewed by:

Approved by:

Chief, Cartographic Branch Photogrammetry Division

T-10303.

Geographic Names.

Ashepoo River

Beaufort County

Colleton\_County\_ Combahee Bank

Fish Creek

Hutchinson Island

Jefford Creek

Otter Creek Otter Islands

Pelican Bank Pine I<sub>s</sub>land Pine I<sub>s</sub>land C<sub>r</sub>eek

St. Helena Sound South Carolina

> Names approved 9-10-58 L.Heck

OF COMMERCE COAST AND GEODETIC SURVEY U.S. DEPARTI

# NONFLOATING AIDS OR/LAPPINABING POR /CHIMING

STRIKE OUT ONE TO BE CHARTED 179/月年/伊东小武林66/

Burton, South Carolina

19 Sept. , 19 55

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

The positions given have been checked after listing by Joseph K. Wilson

						!	J. E.	J. E. Waugh			hief of	Chief of Party.
BTATE	SOUTH CAROLINA			_	POSITION			METHOD		⊢	TRAN:	
		.	3	LATITUDE*	LONG	LONGITUDE		LOCATION	DATE	DE CH	33101	CHARTE
CHANTING	DESCRIPTION	BIGNAL	٥	D. IC. METERS	1 0	" D.P. METERS	DATOM	No.	LOCATION			
LT.	COMBAHER BANK LIGHT, 1955		32 28	95.8	80 26	11511	NA 1927	Triang.	1955	M	7.0	793, 1239 1240
DAYBN	PELICAN BANK DAYBEACON "AL", 1995	7	32 26		80 26	136.5	=	=		×	79	3, 1239, 240
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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.

# TABULATE SECONDS AND METERS

Comm-DC 28356

### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. 1-10303

### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

- 2. In "Remarks" column cross out words that do not apply.
  3. Give reasons for deviations, if any, from recommendations

CHART	DATE	CARTOGRAPHER	REMARKS
793	7-6-64	J H Eaton	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. IHE used copy of adv manuscript for full ap XXD veryind with variet copy after review, Indianofican shoreline deferences between the two have not below
			shoreline deferences between the two have not being 7-6
			Full Part Before After Verification Review Inspection Signed Via
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