

10304

orig

Diag. Cht. Nos. 1239-2 and 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-10304
LOCALITY	
State	South Carolina
General locality	St. Helena Sound
Locality	Bay Point
52 19 55 -9960	
CHIEF OF PARTY	
J. E. Waugh, Photogrammetric Party No. 1	
William F. Deane, Balto. District Officer	
LIBRARY & ARCHIVES	
DATE	Sept. 1963

COMM-DC 61300

10304

DESCRIPTIVE REPORT - DATA RECORD

T- 10304

Project No. (II): Ph-154

Quadrangle Name (IV):

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

Chief of Party: J. E. Naugh

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: W. F. Deane

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

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

Copy filed in Division of
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): NA 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): POINT, 1902

Lat.: 32° 28' 55.215" (1700.8 m) Long.: 80° 20' 16.553" (432.2 m)

Adjusted
XXXXXXXX
Unadjusted

Plane Coordinates (IV):

State: S. C.

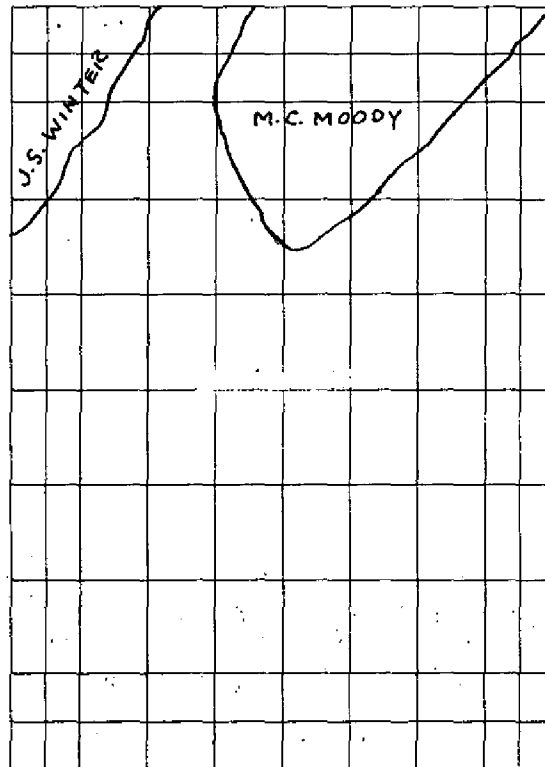
Zone: South

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.



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): B. F. Lampton, Jr.
J. K. Wilson
M. C. Moody
I. Y. Fitzgerald

Date: Jan.-Feb., 1954
Mar. 1955
June-July, 1955
July 1955

Planetable contouring by (II):

M. C. Moody
J. S. Winter

Date: July 1955
July 1955

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

Date: 1960

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: 8/9/55

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

Date: 8/9/55

Control plotted by (III): J. C. Cregan

Date: 10/5/55

Control checked by (III): B. Kurs

Date: 10/7/55

Radial Plot of Stereoscopic

Control extension by (III): B. Frank Lampton

Date: 12/15/55

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. Y. Council

Date: 7/15/58

Photogrammetric Office Review by (III): R. Glaser

Date: 8/15/58

Elevations on Manuscript
checked by (II) (III): R. Glaser

Date: 8/15/58

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

C&GS Nine-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
35875 - 76	3/16/52	1417	1:10,000	2.3 above MLW
49268	3/23/55	1356	"	-0.6 below MLW
52227 and 8	11/21/55	1020	"	4.9 above MLW

Tide (III)

From Predicted Tables

Reference Station: Savannah River Entrance
Subordinate Station: Big Bay Creek Entrance
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	6.8	8.1
	6.1	7.2

Washington Office Review by (IV): S.G. Blankenbaker

Date: June 1963

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 3

Shoreline (More than 200 meters to opposite shore) (III): 6 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 4 mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2

Recovered: 1

Identified: 1

Number of BMs searched for (II): 3

Recovered: 1

Identified: 1

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

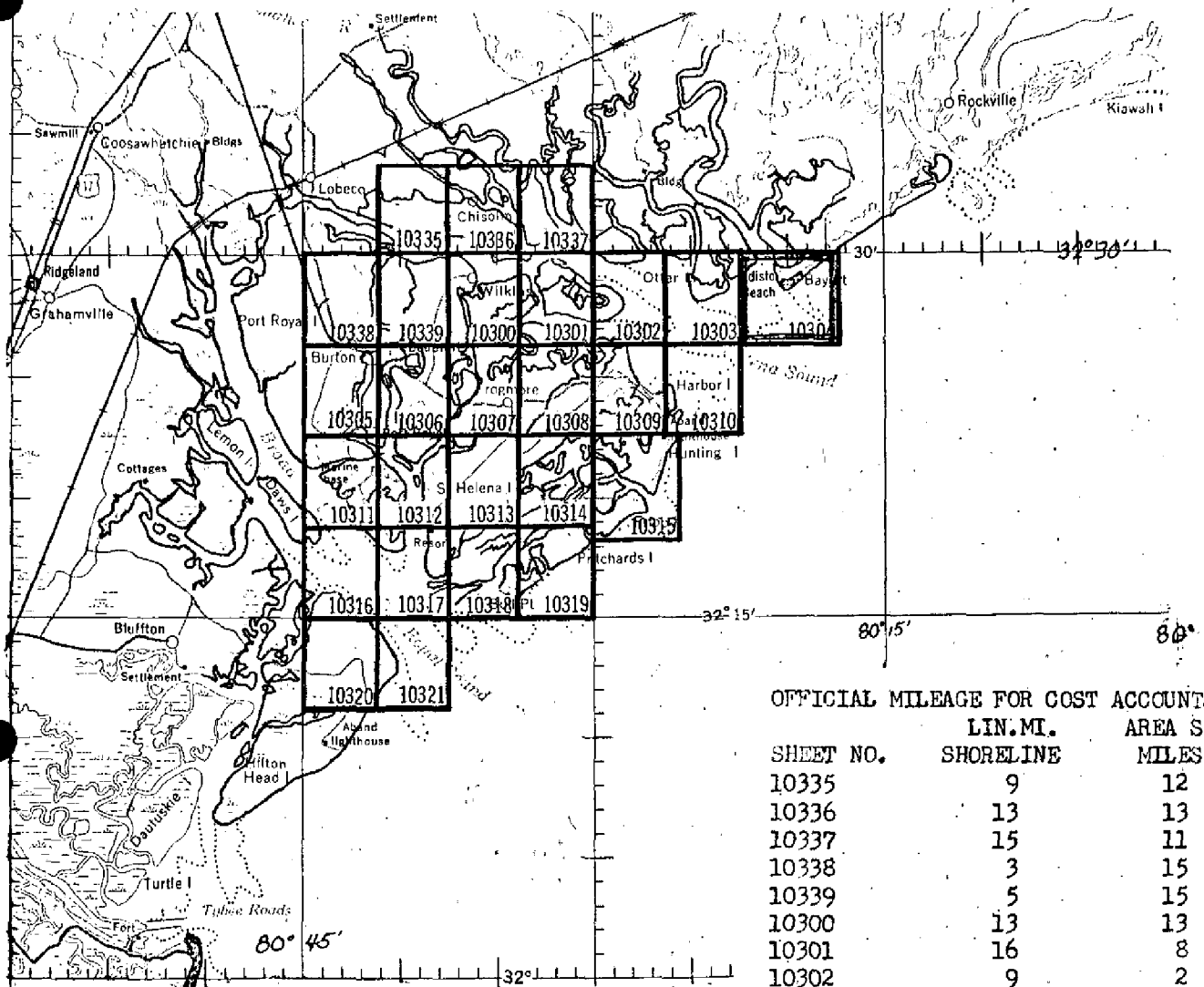
Number of Recoverable Topographic Stations
established:

4

SHORELINE MAPPING PROJECT 6154

ST. HELENA SOUND TO PORT ROYAL SOUND, S. CAROLINA

5



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN. MI. SHORELINE	AREA SQ. MILES
10335	9	12
10336	13	13
10337	15	11
10338	3	15
10339	5	15
10300	13	13
10301	16	8
10302	9	2
10303	9	3
10304	7	3
10305	6	15
10306	13	13
10307	8	14
10308	3	15
10309	13	11
10310	3	1
10311	9	12
10312	16	12
10313	6	15
10314	13	13
10315	13	8
10316	9	2
10317	8	4
10318	13	9
10319	9	4
10320	4	15
10321	5	1

TOTALS 250

259

FIELD INSPECTION REPORT**Project 6154****Map T-10304**

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

10 OCT 1957

Joseph K. Wilson
Cartographer

Approved & Forwarded: 10 OCT 1957

/s/ L. E. Waugh

J. E. Waugh
CDR, E & OS
Chief of Party

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-10304 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.

SCALE FACTOR

1 FT. = .3048006 METER	DATE	8/29/55	CHECKED BY:	J. Steinberg	DATE	9/20/55
COMPUTED BY:	B. Kurs					

COMM-DC-57043

COMPILATION REPORT
Survey T-10304

The photogrammetric plot report is part of Descriptive Report, T-11125.

31. DELINEATION

This map manuscript was delineated by graphic methods.

32. CONTROL

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

33. SUPPLEMENTAL DATA

(1) U.S.G.S. Quadrangle Edisto Island, South Carolina, scale 1:62,500, edition of 1919 reprinted 1943, used for geographic names.

(2) Map "D", blueprint of boundary of Edisto Beach State Park (see Special Report on Boundaries for project Ph-81).

34. CONTOURS AND DRAINAGE

No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The high and low-water lines were indicated on 1955 field photographs.

The shoreline inspection was adequate.

36. OFFSHORE DETAILS

A large shallow area southeast of Pine Island has been delineated from 1955 low-water photographs.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

Four Forms 524 for recoverable topographic stations have been previously submitted, for PIPE, 1954; SEAT, 1954; SHED, 1954; and WELL, 1954 (not listed in Item 49).

39. JUNCTIONS

This map manuscript joins T-11124-S (Ph-81) to the north. T-10303 to the west and the Atlantic Ocean is to the east and the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Not applicable.

46. COMPARISON WITH EXISTING MAPS

This map manuscript has been compared with two C&GS maps, each 1:20,000 scale and compiled from 1933 photographs. T-5155, South Carolina Southwest of Charleston Harbour - Edisto Island and T-5156, South Carolina South Edisto River Ashepoo River - Big Bay Creek. This map manuscript also has been compared with U. S. Geological Survey Quadrangle Edisto Island - scale 1:62,500, published 1919 and reprinted 1943.

47. COMPARISON WITH NAUTICAL CHART

This map manuscript has been compared with chart No. 793, St. Helena Sound (S. C.), corrected to June 16, 1956.

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

Respectfully submitted
15 July 1958

Judson Y. Councill
Carto. Photo. Aid

Approved and forwarded

William F. Deane
CDR C&GS
Baltimore District Officer

8-15-58

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T-10304

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

1a. Classification label ☒

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Reefs, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. 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. P. G. Glaser Reviewer 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.

J. Council Compiler Frank J. Tanza Supervisor

43. Remarks:

FIELD EDIT REPORT
PROJECT PH-81
QUADS. T-11124 & T-10304

51. Methods. All roads were ridden out to check their classification and to visually inspect the planimetry and contours. Some road 7's that have become impassable through disuse have been reclassified as trails where used as such. Others that are used for the harvesting of crops only and terminate in open fields, have been 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.

A new bridge crossing Bailey Creek and a road 7 (private) leading to Bailey Island were located, on photograph 59S-9027, by plane-table. The bridge is a wooden fixed bridge with a horizontal clearance of 18.5 feet and a vertical clearance of 6.0 feet at 1430 on 13 July 1960. The road is being constructed to remove timber from the island.

A new bridge crossing Russel Creek appears on the 1959 photographs. The horizontal clearance is 37.5 feet with a vertical clearance of 8.8 feet at 1110 E S T on 27 June 1960.

Many features that are new since field inspection appear on the 1959 photography. These have been classified and cross referenced on the field edit sheets.

A new street and street extensions at Edisto Beach caused radical changes in the contours by cuts through the sand ridges. The new streets were located by chained distances from unchanged topographic detail and the contours were corrected by standard plane-table methods.

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 were blocked in and circled except at Edisto Beach (T-10304) where many new buildings have been built. Since the area along the beach is congested, time consuming ground measurements would have been necessary to determine exactly which buildings had been mapped in many cases. To avoid this, all buildings to be mapped have been circled or blocked in on the new photography. Because of congestion, buildings that were blocked in were not circled. All buildings are class 1 unless otherwise labeled.

Copies of the letters are included in the
Descriptive Report for T-111 25

The shoreline along the outer coast has undergone considerable change since the field inspection, due principally to the hurricane of September 1959. This shoreline was inspected by boat running close inshore and by truck where the road parallels the beach. Measurements from topographic points were made at frequent intervals to locate the M. H. W. L.

For changes in the five foot contour along this beach see letter to Chief, Photogrammetry Division dated 11 June 1960 and reply No. 762/AKH dated 21 June 1960.

The Intracoastal Waterway and other inland water areas where questions arose, were inspected by boat at or near M. L. W. Offshore features such as rocks (shell mounds) were labeled and notes made showing what the feature bares as of the time and date the feature was inspected. The M. L. W. L. was also identified in many areas.

Aids to navigation that are known to have been moved or rebuilt since field inspection were located by direct identification on the photographs for lights and sextant fixes on identifiable photo points for daybeacons. All of these aids are charted. Form 567 will be submitted upon completion of the project.

Field edit information is shown on the following: Five field edit sheets for T-11124 and two field edit sheets for T-10304, One ratio print each of photographs Nos. 59S-8983, 8985, 8987, 9015, 9017, 9019, 9021, 9023, 9025, 9027 and 9029. One contact print of 59S-9030.

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 new features have been built, and as explained above, changes have occurred in the M. H. W. L. along the offshore beaches. When the additions and corrections have been applied the compilation will be adequate and complete.

53. Map accuracy. No horizontal accuracy test was made. However while making corrections to the contours along a new street at Edisto Beach in T-10304 it was found that the street had been compiled in error. A sketch appears on Field Edit Sheet No 2 for this quad. showing the location of this street by chained distances.

Contours were tested in four separate areas in T-11124 and in one area in T-10304. A total of 57 points were tested, 98% of which are in error less than one half contour interval. See form 187 (Summary and abstract of vetrical accuracy test) attached. Several small, isolated contours were added in T-11124 and one contour was completed.

54. Recommendations. None offered.

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

Respectfully submitted,
15 July 1960

George E. Varnadoe
George E. Varnadoe
Supervisory Cartographer.

Review Report
Topographic Map T-10304
June 1963

61. General Statement

Differences exist between T-10304 and a 1956 Geological Survey Quadrangle - Edisto Beach, South Carolina, scale 1:24,000. The differences are discussed under item 63 of this report. T-10304 will not be published (refer to the "Summary" for this report).

62. Comparison with Registered Topographic Surveys

5156	1933	1:20,000
6085	1934	1:10,000

T-10304 supersedes the prior surveys for nautical charting purposes in common areas.

63. Comparison with Maps of Other Agencies

Edisto Beach, South Carolina - USGS - 1:24,000 - 1956

The junction between T-10304 and T-11124 (PH-81, contemporary map to the north) is in agreement. T-11124 will be published by the Geological Survey. However, this junction area, as compiled on the two Bureau maps, is not in agreement with the Geological Survey Quadrangle. Junction area differences (resolved and unresolved) between T-11124 and the G.S. Quadrangle are discussed in the Descriptive Report for T-11124.

There are differences between T-10304, and the GS. map. They are, for the most part, the result of the difference in scale and in elapsed time between the surveys.

There are some differences in contours. No attempt was made to resolve these differences during final review of T-10304. Field work was correctly applied.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable.

65. Comparison with Nautical Charts

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

Differences exist. There are, however, no items to be applied immediately

66. Adequacy of Results and Future Surveys

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

67. Junctions

T-10304 is joined on two sides by contemporary Bureau Surveys: Map T-10304, a part of the subject project, to the West; Map T-11124, a part of PH-81, to the North.

Junctions with the Bureau Maps are in agreement.

All water areas are to the South and East.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

Charles L. Hemm
Chief, Cartographic Branch
Photogrammetry Division

James G. Taylor
Chief, Nautical Chart Division

J. E. Waugh 8/13/63
Chief, Photogrammetry Division

James G. Connelley
Chief, Operations Division

T-10304.

Geographic Names.

Atlantic Ocean

Bay Point

Big Bay Creek

Charleston County

Colleton County

Edisto Beach

Edisto Beach (Town)

Edisto Beach State Park

Edisto Island

Mud Creek

Pine Island

St. Helena Sound

Scott Creek

South Carolina

South Edisto River

State No. 174

The Mound

(also applies north of 32 30')

Names approved 9-3-58

L. Heck.

