

11125

N 45

Diag. Cht. No. 1239-2.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No.	Ph-81
Office No.	T-11125
LOCALITY	
State	South Carolina
General locality	North Edisto River
Locality	Rockville
19.52-60	
CHIEF OF PARTY	
J.E.Waugh, Photogrammetric Party No. 1	
W.F.Deana, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	May 1964

USCOMM-DC 5087

11125

DESCRIPTIVE REPORT - DATA RECORD

T-11125

Project No. (II): Ph-81 Quadrangle Name (IV):

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

Chief of Party: J. E. Waugh

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: W. F. Deane

Instructions dated (II) (III): Field, dated 10/19/53

Copy filed in Division of
Photogrammetry (IV)

Field Admendment I, dated 12/2/54

Letter to CDR J. E. Waugh, 731-mk1, dated 11/22/54

Letter from Actg. Ch., Operations Br. to Ch. Photo. Div., dated 1/19/55

Office - 11 August 1955

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):

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): SEABROOK ISLAND, 1850

Lat.: 32° 33' 54.728" (1685.8m) Long.: 80° 10' 17.334" (452.2m)

Adjusted
Unadjusted

Plane Coordinates (IV):

State: S. C.

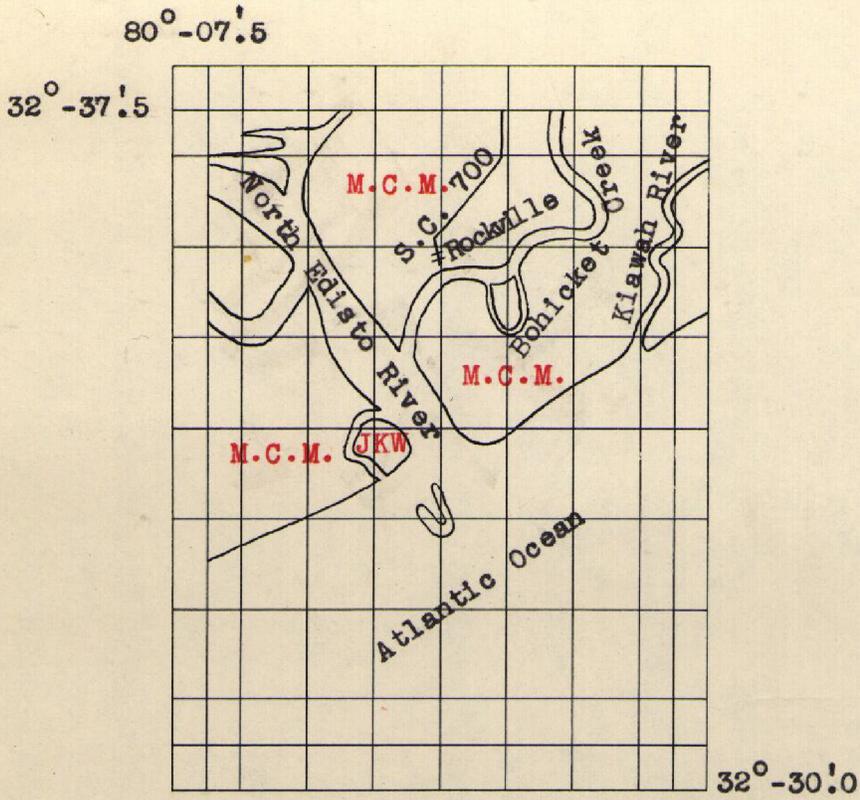
Zone: South

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)

(3)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): E. T. Ogilby
 B. F. Lampton, Jr.
 W. H. Reynolds
 M. C. Moody
 I. Y. Fitzgerald
 J. K. Wilson

Planetable contouring by (II): M. C. Moody
 J. K. Wilson

Date: Nov., 1953
 Jan., 1954
 Feb. 1954
 Mar.-June, 1955
 June, 1955
 June, 1955

Date: Mar.-June, 1955
 June, 1955

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

Date: JUNE 1960

Mean High Water Location (III) (State date and method of location):

Field inspection on 1952 and 1954 photographs with office revision using 1955 photographs.

REFER TO FIELD EDIT REPORT

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

Date: 7/28/55

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

Date: 7/28/55

Control plotted by (III): D. Williams

Date: 8/24/55

Control checked by (III): B. Kurs

Date: 8/24/55

Radial Plot ~~no Stereoscopic~~

Date: 12/15/55

~~Control checked~~ by (III): B. F. Lampton

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. Honick
Ruth M. Whitson

Date: 1/27/58

Photogrammetric Office Review by (III): R. Glaser

Date: 2/27/58

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

Date: 2/27/58

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U.S.C. & G. S. Nine-lens and "T" Cameras

(4)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
35879 thru 35884	3/16/52	1421	1:10,000	1.9'
35915	"	1517	"	-
35982 thru 35985	3/17/52	0942	"	3.3'
35995 thru 35998	"	0957	"	3.7'
49255	3/23/55	1345	"	-0.7'
49272 thru 49276	"	1359	"	-0.6'
49303 thru 49307	"	1425	"	-0.4'
54-T-11 thru T-18	4/7/54	1108	"	5.4'

FIELD EDIT PHOTOGRAPHS (1960) LISTED IN F.E. REPORT

Tide (III)
From predicted tides

Reference Station: Charleston, S. C.
Subordinate Station: Rockville, Bohicket Creek
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	5.1	6.0
	5.8	6.8

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): 27.6

Shoreline (More than 200 meters to opposite shore) (III): 46.6 mi

Shoreline (Less than 200 meters to opposite shore) (III): 39 mi

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 19* Recovered: 12* Identified: 12*

Number of BMs searched for (II): 9 Recovered: 6 Identified: 5

Number of Recoverable Photo Stations established (III): 12**

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

Remarks:

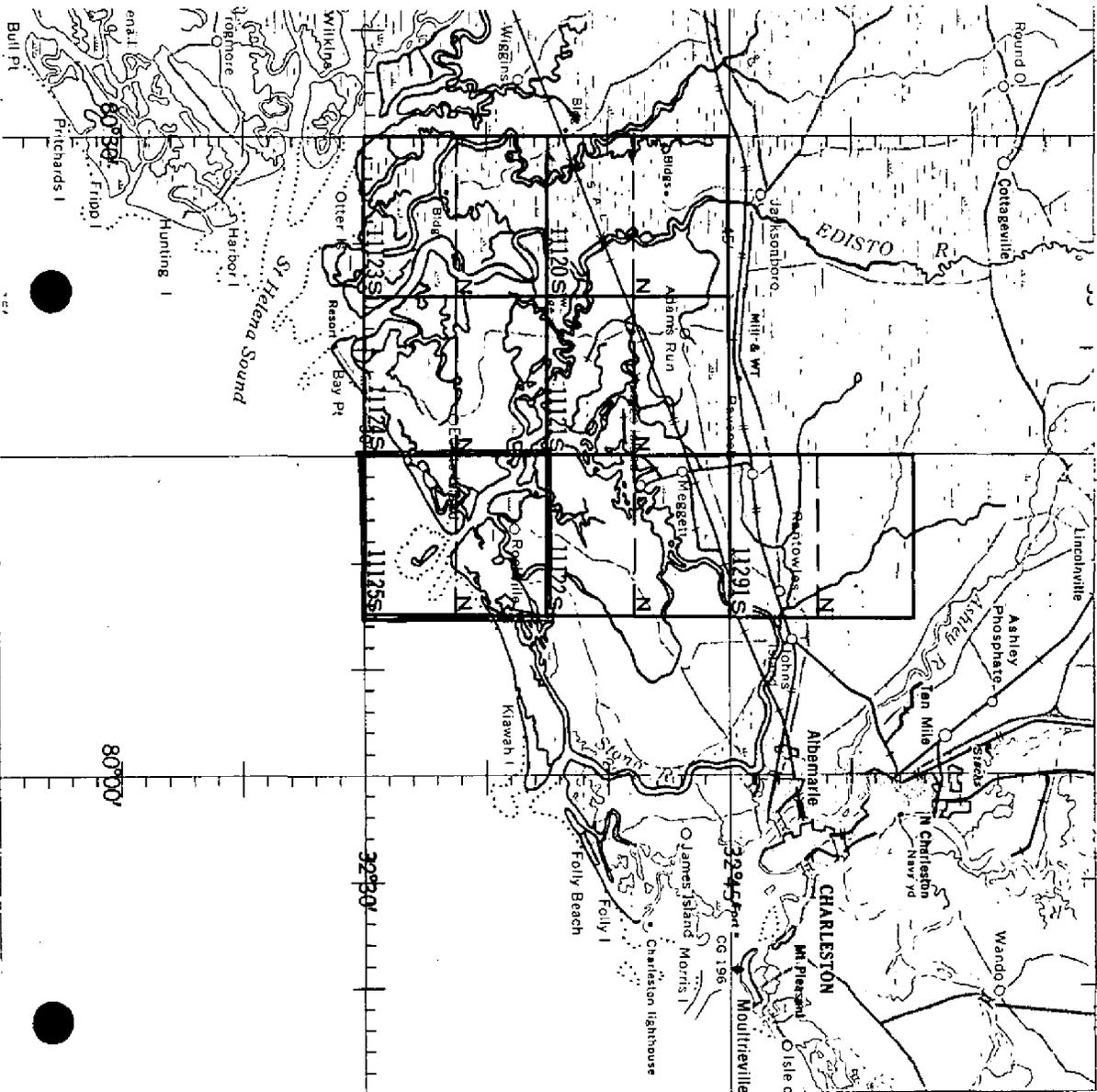
* Includes two third-order triangulation stations established.

** Includes one AZ MK.

TOPOGRAPHIC MAPPING PROJECT PH- 81

S.C., Vicinity of Edisto River

Sheet No.	Sq. St. Miles	Lin. Miles Shoreline
11291 N	31	3
11120 N S	30	7
11121 N S	29	7
11122 N S	27	15
11123 N S	30	5
11124 N S	25	26
11125 N S	28	19
TOTALS	363	237



(6)

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-1125

T-1125 is one of 7 similar maps in Project FM-51. This project, comprised of topographic maps, covers the South Carolina coastline southwest of Charleston from the mouth of the North Edisto River southwesterly to Ashe Island on the north shore of St. Helena Sound. The project area extends inland, 15 miles in the central and western sections and 20 miles in the eastern section, covering the Intra-coastal Waterway from the confluence of the Ashe River and Rantowles Creek (8 miles west of Charleston) southwest to St. Helena Sound.

Field work in advance of compilation included the following operations:

- a. Recovery and/or establishment of horizontal and vertical control.
- b. Shoreline and interior inspection for interpretation of the photographs.
- c. The location and/or identification of aids to navigation and landmarks.
- d. Planetable contouring on the photographs.
- e. Geographic names, Coast Pilot and Political Boundaries investigation.

Vertical accuracy tests were run during field inspection.

This is a graphic compilation project. The radial plots were assembled and the manuscripts compiled in the Baltimore Office. Compilation was by half quads (north and south) at 1:10,000 scale.

A complete project field edit was accomplished in 1960. Vertical accuracy tests were run during field edit.

Photographs used for radial plotting and compilation are listed in the data records of the Descriptive Reports. Field inspection reports and field edit reports included as parts of the Descriptive Reports for each map include lists of photographs used in field work.

The maps will be published as standard 1:24,000 scale topographic quadrangles by the Geological Survey.

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- 2 -

Items registered under T-11125 will include a Descriptive Report, 2 one-half quadrangle positive impressions on "Cramer" and a lithographic print in colors of the published Geological Survey quadrangle.

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FIELD INSPECTION REPORT
Project Ph-81
Quadrangle T-11125

2. AREAL FIELD INSPECTION

This map covers that part of the South Carolina coastal plain at the mouth of and immediately adjacent to either side of the North Edisto River.

Bohicket Creek, a tidal stream, joins the North Edisto River approximately one mile above the river's mouth.

The village of Rockville is located on the north bank of Bohicket Creek and is the only village or settlement in the area. It is the base for a small shrimp and oyster fleet.

South Carolina State Highway 700 connects Rockville with Charleston and the main highway network.

Truck farming is the major industry, with cattle farms, shrimp and oysters being of less importance.

Photographic quality was very good. No difficulty was encountered in photographic interpretation.

There are generally three distinct photographic tones found in the tidal marsh. The darkest of these is the grass-covered tidal marsh. The lightest is caused by deposition of sand from the fast land on the adjacent marsh, varying slightly from white to a very light to medium gray, the latter due to dampening by the tide. The third, or medium tone, is mud, devoid of vegetation and bare at low water.

Swamp limits were completely delineated by a dashed red ink line. Photographic tones in swamp and inland marsh are varied, differing somewhat from section to section. There is no cypress swamp in the area. Scattered cypress trees are found in all the swamp but the predominating swamp trees are gum and bay. The gum trees are almost always festooned with Spanish moss which causes them to photograph a mottled light gray tone similar to, but not as feathery as, cypress. Bay photographed a darker tone than did the gum. In addition to the swamp areas of bay and gum there are areas which are covered with a dense growth of vines and myrtle with mixed trees, e.g., hickory, oak and some pine.

Land under cultivation is generally drained by a series of small parallel ditches which drain into larger collection ditches emptying into natural streams, swamp and/or marsh. These larger collection ditches are the only ones to be mapped and have been indicated by field inspection notes. The smaller ditches are very numerous, of a relatively temporary nature, and should not be mapped.

Field inspection notes appear on prints of 1:10,000 scale nine-lens photographs 35861, 35862, 35879 through 35884, 35915, 35916, 35982, 35983, 35995 through 35998, and 49272 through 49274; and on 1:10,000 scale ratio prints of photographs 54-T-11, 54-T-12 and 54-T-14.

3. HORIZONTAL CONTROL

Two aids to navigation, NORTH EDISTO RIVER ENTRANCE RANGE REAR LIGHT, 1954 and NORTH EDISTO RIVER ENTRANCE RANGE FRONT LIGHT, 1954 were located by triangulation but not solely as supplemental control.

South Carolina Geodetic Survey second-order traverse stations CT 506, CT 507 and CT 508 were recovered. CT 507 was identified. CT 509 and EDISTO ISLAND EAST BASE R.M. 3 were reported lost.

The following Coast and Geodetic Survey triangulation stations were reported lost:

ANDELL, 1933
BOHICKET CREEK DAYBEACON, 1933
SEABROOK 2, 1915
VAN, 1933

4. VERTICAL CONTROL

Third-order bench marks of the South Carolina Geodetic Survey, as listed below, were recovered and identified either as bench marks or horizontal control stations:

EDISTO ISLAND EAST BASE
CT 506
CT 507
CT 508

Coast and Geodetic Survey tidal bench marks as follows were recovered and the latter one identified:

ROCKVILLE (STEVENS WHARF) BOHICKET CREEK, NORTH
EDISTO RIVER, TIDAL BENCH MARK 1 (1934)

ROCKVILLE (STEVENS WHARF) BOHICKET CREEK, NORTH
EDISTO RIVER, TIDAL BENCH MARK 4 (1934)

Nineteen miles of supplemental Wye leveling were run for control of plane table contouring.

Level points 25-01 through 25-43 were established.

5. CONTOURS AND DRAINAGE

Elevation ranges from sea level up to 21 feet above MSL on a sand dune on Botany Bay Island.

Contouring was accomplished by plane table methods directly on 1:10,000 scale photographs.

The section along the beach from the mouth of North Edisto River eastward to the eastern limits of the map was contoured on ratio prints of single-lens photographs made in April 1954. The remaining section along the beach, i.e., from the mouth of North Edisto River westward, was contoured on nine-lens photographs made in March 1955.

All checked elevations were shown in violet ink; all unchecked elevations in black ink.

Several islands in the marsh along Bohicket Creek on the east side and South Creek on the west side of the North Edisto River were contoured from hand level elevations based on water surface corrected for stage of tide from predicted tides of "Tide Tables, East Coast, North and South America, 1955". These elevations were determined on a calm day.

Elevations of all larger islands and a representative selection of the more accessible small islands were determined. These islands were inspected for possible existence of elevations above ten feet but none were found.

A vertical accuracy test was run on photographs 35995 and 35997.

Drainage is into the tidal creeks and rivers.

Streams and ditches in swamps, which are not clearly discernible on the photographs, were located and inked in red ink as perennial streams. No streams exist in many of the swamps; therefore, there is no stream in a swamp unless indicated by field inspection notes on the photographs.

There are no intermittent streams. Some few features, which resemble intermittent streams, have such a gentle slope that their bottoms are either marsh or swamp and have no stream bed.

6. WOODLAND COVER

Woodland cover was classified by appropriate field inspection notes on representative areas throughout the map.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line of the Atlantic Ocean within the limits of this map was indicated by symbol on the field photographs.

The shoreline of the tidal streams is apparent, or the offshore edge of marsh, except for a few short stretches of fast ground.

There are numerous areas along the apparent shoreline where shell has been deposited creating the impression of a sand beach with a mean high water line. Upon inspecting several of the larger, more extensive of these deposits it was found that the edge of marsh was more sloping than where there was no shell deposit, with the shell being very thin and not having increased the height of the marsh; the whole being covered at high water just as if the shell deposit was not there. The apparent shoreline is the inshore edge of the shell deposits with the approximate low water line along the offshore edge.

Beach erosion is constant along the open ocean in the area and, according to local residents, has been more extensive and occurred at a more rapid rate since a storm in 1952. A comparison of this shoreline as photographed in four successive years bears this out. The outer shoreline of the eastern part of Botany Bay Island at the mouth of the North Edisto River as it appears on the following photographs is an excellent illustration of this erosion:

35581	-	16 March 1952
53-J-03127	-	23 November 1953
54-T-15	-	7 April 1954
49274	-	23 March 1955

The mean high water line of the Atlantic Ocean along the western end of Seabrook Island, Deveaux Bank and Botany Bay Island was inspected 6 June 1955 and shoreline inspection notes applied to photograph 49274.

The mean high water line of the Atlantic Ocean along the west-

ern end of Kiawah Island was inspected 24 March 1955 and shoreline inspection notes applied to photograph 54-T-11. The mean high water line along the eastern end of Seabrook Island was inspected 5 April 1955 and notes applied to photograph 54-T-12. Both of these areas were inspected prior to receipt of photography of 23 March 1955.

New photographic coverage of the areas discussed in the immediately preceding paragraph was not requested; consequently, field inspection notes appear on the listed photographs instead of the most recent photography. It is recommended that this shoreline be compiled from the most recent photography using field inspection notes on photographs 54-T-11, 54-T-12 and 49274.

The approximate low water line has been indicated by symbol except in areas along offshore edge of marsh where the low water line and apparent shoreline are synonymous for mapping purposes due to the steepness of the edge of marsh.

The approximate low water line along the eastern end of Kiawah Island and the western end of Seabrook Island was located by plane table near the time of low water of a minus tide.

The approximate low water line of Botany Bay Island and areas to the west were inspected 6 June 1955 at time of low water.

The foreshore varies from sand, sand and mud, to mud. The foreshore has been described on the photographs.

There is one low bluff along the south shore of Bohicket Creek above Rockville. Its location and height are shown by contours on the photograph of that area.

All other alongshore features are adequately covered by field inspection notes.

8. OFFSHORE FEATURES

All offshore features are adequately covered by field inspection notes on the photographs.

9. LANDMARKS AND AIDS

One landmark was recommended for charting.

NORTH EDISTO RIVER ENTRANCE RANGE FRONT LIGHT and NORTH EDISTO RIVER ENTRANCE RANGE REAR LIGHT were located by third order triangulation. A point on range was located by the substitute point method. The point is behind the range.

There are no other aids.

There are no interior landmarks worthy of note.

10. BOUNDARIES, MONUMENTS AND LINES

There are no boundaries to be mapped within the limits of this map.

11. OTHER CONTROL

Eleven recoverable photo-topo stations as listed below were established:

- | | |
|------------|------------|
| BOOK, 1954 | SALT, 1954 |
| DOLL, 1954 | SAND, 1954 |
| MOON, 1954 | STAR, 1954 |
| PARK, 1954 | SURF, 1954 |
| POLE, 1954 | YARD, 1954 |
| POND, 1954 | |

12. OTHER INTERIOR FEATURES

Roads were classified in accordance with the Topographic Manual, Part II, Section 5441.

Field inspection of buildings was accomplished in accordance with Section 5446 of the Topographic Manual, Part II, except that the images of all buildings to be mapped were circled on the photographs in red ink (See letter from Acting Chief, Operations Branch to Chief, Photogrammetry Division, dated 19 January 1955). Class 2 buildings were further indicated by placing the numeral 2 alongside the circle; class 1 buildings were not identified other than by the circle. Obscured buildings and buildings constructed since date of photography were inked solid in red ink to shape and size, and then treated as any other building. Images of buildings not to be mapped were deleted if possible confusion or question could arise during compilation or review; otherwise, such buildings were ignored.

There are no airports or landing fields in the area.

A fixed highway bridge over Kiawah River has a vertical clearance of 7.5 feet above MHW as based on an elevation of 10.2 above MSL for the lower structure of the bridge. The Mean Range of Tide is taken as 5.4. The horizontal clearance is 20 feet.

See copy of a letter to the Director attached to this report.

13. GEOGRAPHIC NAMES

See Special Report, Geographic Names, Project Ph-81.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Boundaries, Project Ph-81 forwarded to the Director in Pkg. No. 55-10, 28 April 1955.

Special Report, Geographic Names, Project Ph-81 forwarded to the Director in Pkg. No. 55-16, 10 June 1955.

Coast Pilot Notes forwarded to the Director on 27 May 1954.

The original copies of Forms 526 and 685 were forwarded to the Director in Pkg. No. 54-56, 12 November 1954, and Pkg. No. 55-20, 23 June 1955.

Data for location of North Edisto River Entrance Ranges were forwarded to the Director in Pkg. No. 55-6, 2 March 1955.

Forms 567 for Aids to Navigation and Landmarks for Charts forwarded to the Director in Pkg. No. 55-17, 10 June 1955.

Data for Map T-11121 forwarded to the Director in Pkg. Nos. 55-8 and 55-9, 27 April 1955.

Data for Map T-11122 forwarded to the Director in Pkg. Nos. 55-11 and 55-12, 3 May 1955.

Photographs 35863 and 49272 were retained for work within limits of this map and will be forwarded with data for T-11124.

28 JUN 1955
Submitted by:

Isaiah Y. Fitzgerald
Isaiah Y. Fitzgerald
Photogrammetric Engineer

28 JUN 1955
Approved & Forwarded:

J. E. Waugh
J. E. Waugh
CDR, USC&GS
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT
Projects-Nos. 6081 & 6154
Surveys Nos. T-11123 through T-11125
T-10303 and T-10304

21. AREA COVERED

This radial plot is for planimetric surveys T-10303 and T-10304 in project 6154 and topographic surveys T-11123, T-11124 and T-11125 in project 6081. These surveys cover the area from North Edisto River to Rock Creek in St. Helena Sound, South Carolina.

22. METHOD - RADIAL PLOT

Map manuscripts:

Vinylite sheets with polyconic projections in black and South Carolina State Grid, South Zone in red, at a scale of 1:10,000 were furnished by the Washington office.

All control points and substitute points were plotted on the map manuscripts using the beam compass and meter bar method.

A sketch showing the layout of surveys, distribution of control and photograph centers, and a list of control stations are attached to this report.

Photographs:

Nine-lens photographs, taken in 1952, 1953 and 1955, at 1:10,000 scale, were used in this radial plot. Eighty (80) photographs were used, numbered by flights as follows:

- 35678 through 35682
- 35683 through 35688
- 35742 through 35751
- 35857 through 35860
- 40797 through 40807
- 49250 through 49264
- 49266 through 49277
- 49302 through 49313
- 49449
- 49478 through 49481

Templets:

Vinylite templets, which were prepared using a master templet to adjust for errors due to chamber displacement, were made from all photographs.

Closure and Adjustment to Control:

Vinylite sheets with 5,000 foot grids were used as base sheets. All identified control was transferred from the map manuscripts by matching common grid lines.

This radial plot includes map manuscripts T-10303 and T-10304 which are in project 6154. This was done because the land areas of sheets T-10303 and T-10304 are continuous with the land areas of project 6081 and

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control: (cont'd)
are separated by water from the remainder of project 6154. The radial plot was assembled in two sections. The first section covered the areas of T-10304, T-11124-S, T-11125-N and T-11125-S with sufficient extension to reach surrounding horizontal control points. The plot was started with photographs 49302 through 49313. The flight to the southeast was then laid, followed by the flights to the northwest. After this section of the plot was completed, it was extended to cover the areas of sheets T-10303, T-11123-N, T-11123-S, and T-11124-N.

Transfer of Points:

The position of all pass points, photo points and photo-centers were pricked directly on the map manuscripts by superimposing the manuscript on the completed plot and matching common grid lines.

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate.

The following control could not be held in the radial plot.

Station CT-507, S.C.G.S., 1934 was identified on a photograph which was taken in 1952. The substitute station was a bush in a field. Only 1955 photographs were used in the radial plot in this area. At the time of photography the field had been cleared; the bush was gone, and all surrounding photographic detail had been changed. No identification of the substitute point could be made on the 1955 photographs.

Station BANK, 1933 - The radially plotted position of the substitute point falls approximately 0.3 mm to the SE of the plotted position.

ASHEPOO-COOSAW CUTOFF LIGHT 184, was located by the radial plot. After the radial plot was completed, the position of the light as determined by triangulation was received. The radial plot position agreed with the triangulation position within 0.1 mm.

24. SUPPLEMENTAL DATA

No graphic control surveys were used in this radial plot.

25. PHOTOGRAPHY

The photographic coverage and definition of the photographs were adequate. However, considerable difficulty was encountered in pricking control because of the difference in the dates of photography. All control was identified on 1952 and 1953 photographs. 1955 photographs were used in the radial plot throughout their coverage. Many control points could no longer be positively identified and were transferred stereoscopically from the field photographs.

25. PHOTOGRAPHY (cont'd)

Where photographs of different dates overlapped, some difficulty was encountered in selecting common pass points, especially in marsh areas.

Photographs numbered 49310, 49311 and 49270 were the most badly tilted of those used in this plot. No tilt determination nor rectification of these photographs was necessary.

26. LANDMARKS AND TOPOGRAPHIC STATIONS

All landmarks and topographic stations were located by the radial plot. Landmark CLUEHOUSE, 1954, is a large object, the center of which is impractical to locate; however, the position established should be quite adequate for charting purposes.

Respectfully submitted
15 December 1955

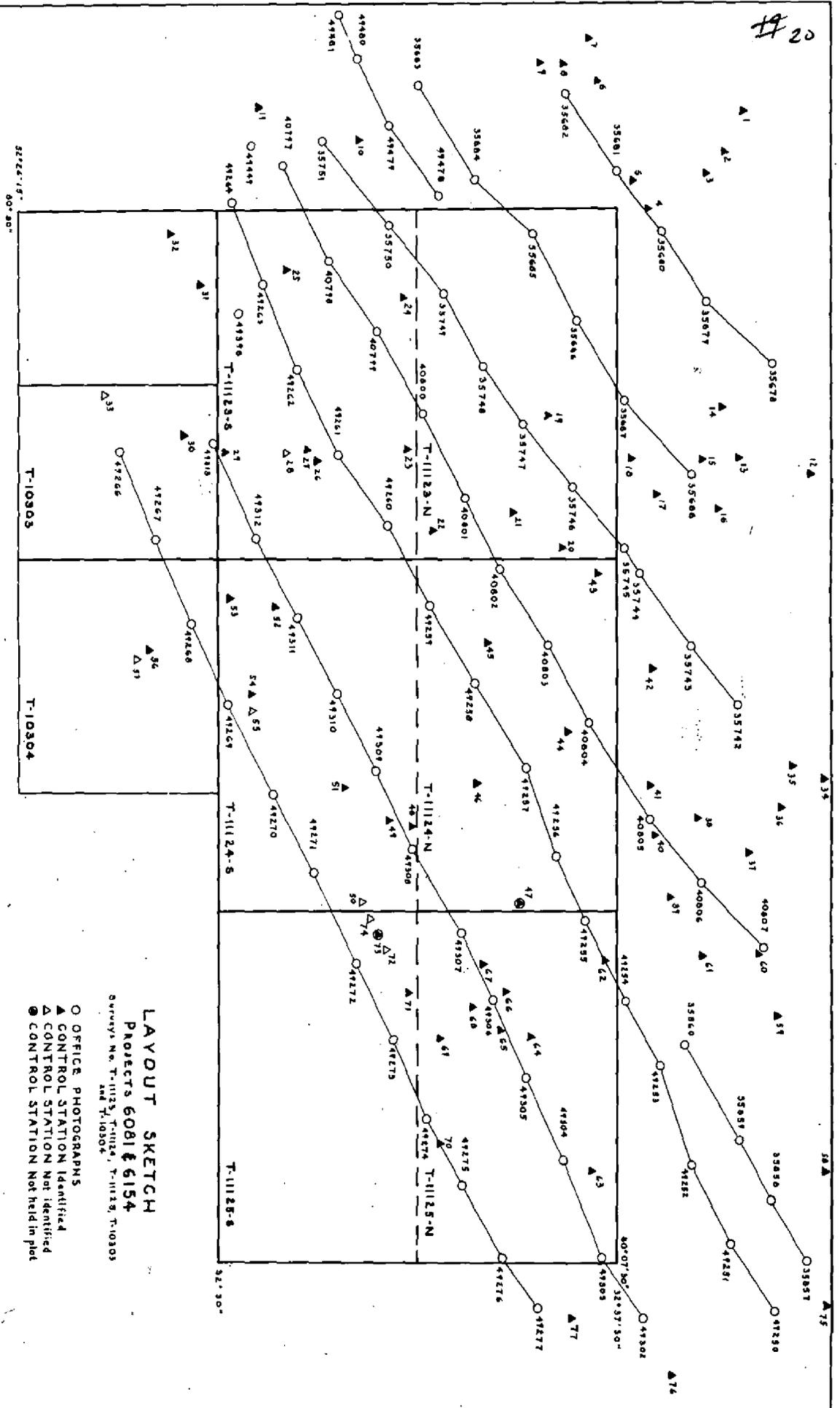
B. Frank Lampton, Jr.

B. Frank Lampton,
Carto. Photo. Aid

LIST OF CONTROL
Projects 6081 & 6154

No.	Station	Identification
1.	PICTURE POINT NO. 4, 1954	Direct
2.	PICTURE POINT NO. 6, 1954	Direct
3.	PICTURE POINT NO. 7, 1954	Direct
4.	GW-22, 1954	Direct
5.	PICTURE POINT NO. 8, 1954	Direct
6.	PICTURE POINT NO. 9, 1954	Direct
7.	PICTURE POINT NO. 10, 1954	Direct
8.	PICTURE POINT NO. 11, 1954	Direct
9.	WIGGINS, 1932	Sub. Pt.
10.	BOLD, 1934	Sub. Pt.
11.	HANGMAN 2, 1933	Sub. Pt.
12.	WILLTOWN, 1932	Sub. Pt.
13.	BRIDGE, 1933	Sub. Pt.
14.	RAIL, 1933	Sub. Pt.
15.	PECK, 1933	Sub. Pt.
16.	HOS, 1933	Sub. Pt.
17.	HURST, 1933	Sub. Pt.
18.	SON, 1933	Sub. Pt.
19.	SAMP, 1933	Sub. Pt.
20.	BITTLE, 1933	Sub. Pt.
21.	SAGE, 1933, RM. 2	Direct
22.	SCAN, 1933	Sub. Pt.
23.	DODGE, 1933	Sub. Pt.
24.	AIR BEACON 16, 1932	Direct
25.	(600 FT. LEFT) USE, 2494 + 30.43, 1941	Sub. Pt.
26.	FENWICK, 1933, R.M. 2	Sub. Pt.
27.	II, USE, 1933	Sub. Pt.
28.	III, USE, 1933	None
29.	JEFF, 1933	Sub. Pt.
30.	ASH, 1914	Direct
31.	HUTCHINSON 2, 1933, RM 2	Sub. Pt.
32.	CENTRAL, 1933	Sub. Pt.
33.	COMBAHEE BANK LIGHT, 1955	None
34.	PRENTISS, 1934	Sub. Pt.
35.	ROPE, 1934	Sub. Pt.
36.	CHAR, 1934, RM 1	Sub. Pt.
37.	FRAM, 1934	Sub. Pt.
38.	TOGO, 1933	Sub. Pt.
39.	BLUFF, 1933	Sub. Pt.
40.	WHITE POINT, 1933	Sub. Pt.
41.	STEVENS TANK, 1933	Direct
42.	1668 + 00, USE	Sub. Pt.
43.	WATT, 1933	Sub. Pt.
44.	RUSSEL, 1933	Sub. Pt.
45.	CT 463, S.C.G.S., 1934	Sub. Pt.

No.	Station	Identification
46.	PTS NO. 47 MAC (USGS), 1932 (MURRAY, 1932)	Sub. Pt.
47.	BANK, 1933	Sub. Ft.
48.	CT 475, S.C.G.S., 1934	Sub. Pt.
49.	CT 477, S.C.G.S., 1934	Sub. Pt.
50.	CT 505, S.C.G.S., 1934	None
51.	CT 481, S.C.G.S., 1934	Sub. Pt.
52.	PIERRE, 1933	Sub. Pt.
53.	SOUTH 2, 1933	Direct
54.	EDISTO ISLAND WEST BASE, 1849	Sub. Pt.
55.	CT 488, S.C.G.S., 1934	None
56.	POINT, 1902	Sub. Pt.
57.	ED, 1921	None
58.	CT 658, 1934	Sub. Pt.
59.	WHALEY, 1933	Sub. Pt.
60.	HOUSE AT MARTINS POINT, WEST CHIMNEY, 1933	Direct
61.	CLEMENT, 1933	Sub. Pt.
62.	POINT FARM, 1933	Sub. Pt.
63.	ST. JOHNS, 1933	Sub. Pt.
64.	HALEY, 1933	Sub. Pt.
65.	HORSE, 1933	Sub. Pt.
66.	NORTH EDISTO RIVER ENTRANCE RANGE REAR LIGHT, 1954	Direct
67.	OAK, 1914	Sub. Pt.
68.	NORTH EDISTO RIVER ENTRANCE RANGE FRONT LIGHT, 1954	Direct
69.	EDISTO, 1913	Sub. Pt.
70.	SEABROOK ISLAND, 1850	Sub. Ft.
71.	EDISTO ISLAND EAST BASE, 1849	Sub. Pt.
72.	CT 508, S.C.G.S., 1935	None
73.	CT 507, S.C.G.S., 1934	Sub. Ft.
74.	CT 506, S.C.G.S., 1934	None
75.	CT 653, S.C.G.S., 1934	Sub. Pt.
76.	BRYAN, 1933	Sub. Pt.
77.	SCOTT, 1933	Sub. Pt.



LAYOUT SKETCH
PROJECTS 6081 & 6154
 SURVEYS No. T-11123, T-11124, T-11125, T-10303
 AND T-10304

○ OFFICE PHOTOGRAPHS
 ▲ CONTROL STATION Identified
 △ CONTROL STATION Not Identified
 ⊙ CONTROL STATION Not field in plot

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-11125

PROJECT NO. Ph-81

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			ϕ	λ	FORWARD	(BACK)		FORWARD	(BACK)	
POINT FARM, 1933	G-1669 p. 57 ✓	NA 1927	32	37	08.443			260.1	(1588.1)	
Sub. Pt. POINT FARM, 1933	✓	"	80	13	41.923			1092.9	(471.3)	
HALEY, 1933	" ✓	"	32	37				206.9	(1641.3)	
Sub. Pt. HALEY, 1933	✓	"	80	13				1058.8	(505.4)	
HORSE, 1933	" ✓	"	32	35	51.715			1593.0	(255.2)	
Sub. Pt. HALEY, 1933	✓	"	80	11	49.288			1285.3	(279.3)	
HORSE, 1933	G-1669 p. 67 ✓	"	32	35				1557.0	(291.2)	
Sub. Pt. HORSE, 1933	✓	"	80	11				1244.1	(320.5)	
ST. JOHNS, 1933	G-1669 p. 61 ✓	"	32	35	13.324			410.4	(1437.8)	
Sub. Pt. ST. JOHNS, 1933	✓	"	80	12	03.822			99.7	(1465.1)	
OAK, 1914	G-1669 p. 61 ✓	"	32	35				408.6	(1439.6)	
Sub. Pt. OAK, 1914	✓	"	80	12				88.7	(1476.1)	
PICTURE POINT	Field Comp.	"	32	37	05.448			167.8	(1680.4)	
EDISTO, 1913	G-1669 p. 67 ✓	"	80	09	07.903			206.0	(1358.2)	
		"	32	37				130.4	(1717.8)	
		"	80	09				256.2	(1308.0)	
		"	32	35	00.695			21.4	(1826.8)	
		"	80	13	40.181			1048.0	(516.9)	
		"	32	34				1822.0	(26.2)	
		"	80	13				999.0	(565.9)	
		"	289,047.40		4,047.40	(952.60)		1233.6	(290.4)	
		"	2,260,921.65		921.65	(4078.35)		280.9	(1243.1)	
		"	32	34	06.066			186.9	(1661.4)	
		"	80	11	52.380			1366.3	(198.8)	

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
Sub. Pt. EDISTO, 1913	/	NA 1927	32 34 80 11				191.6 (1656.7) 1395.5 (169.6)		
SEABROOK IS., 1850	G-1669 p. 67	"	32 33 54.728 80 10 17.334				1686.8 (162.4) 452.2 (1113.0)		
Sub. Pt. SEABROOK IS., 1850	/	"	32 33 80 10				1695.3 (152.9) 381.0 (1184.2)		
EDISTO IS., EASTBASE, 1849	G-1669/ p. 57	"	32 33 15.301 80 13 34.369				471.3 (1376.9) 896.7 (668.7)		
Sub. Pt. EDISTO IS., EAST BASE, 1849		"	32 33 80 13				418.4 (1429.8) 886.2 (679.2)		
CT 508, S.C.G.S., 1935	Charleston County, S. Carolina p. 9	"	261,167.93 2,233,362.36	1,167.93 (3832.07) 3,362.36 (1637.64)			356.0 (1168.0) 1024.8 (499.2)		
CT 507, S.C.G.S., 1934	"	"	260,320.15 2,232,268.31	320.15 (4679.85) 2,268.31 (2731.69)			97.6 (1426.4) 691.4 (832.6)		
Sub. Pt. CT 507, S.C.G.S., 1934	Comp.	"	260,262.68 2,232,458.31	262.68 (4737.32) 2,458.31 (2541.69)			80.1 (1443.9) 749.3 (774.7)		
CT 506, S.C.G.S., 1934	Charleston County, S. Carolina p. 9	"	259,732.30 2,231,299.18	4,732.30 (267.70) 1,299.18 (3700.82)			1442.4 (81.6) 396.0 (1128.0)		
N. EDISTO RIVER ENTRANCE RANGE REAR LT., 1954	Uned. J. Field Comp.	"	32 35 20.000 80 12 58.137				616.1 (1232.1) 1516.2 (48.6)		22
N. EDISTO RIVER ENTRANCE RANGE FRONT LT., 1954	"	"	32 34 56.355 80 12 30.137				1736.0 (112.3) 786.0 (778.9)		
SCOTT, 1933	G-1669 p. 61	"	32 36 32.290 80 06 19.869				994.7 (853.6) 518.0 (1046.4)		

1 FT. = 3048006 METER

COMPUTED BY: B. Kurs

DATE 8/17/55

CHECKED BY: J. Steinberg

DATE 8/17/55

COMM. DC. 57843

- 23 - 24

COMFILATION REPORT
Survey T-11125

31. DELINEATION

Graphic methods were employed to delineate this manuscript.

Field inspection was adequate. However, the limits of several swamp areas and the delineation of additional dikes were determined by office examination.

Limits of mud areas within marsh areas were delineated by office stereoscopic examination.

32. CONTROL

The identification, density, and placement of horizontal control were considered adequate.

33. SUPPLEMENTAL DATA

A: Special Report - Geographic Names Project Ph-81.

An annotated copy of the U. S. Geological Survey Wadmalaw Island, S. C. Quadrangle.

34. CONTOURS AND DRAINAGE

The field contouring was considered to be adequate; however, some adjustments were made to improve topographic expression. Contours following a rapidly changing MHWL as indicated on the 1954 Field Photographs, were adjusted to parallel the MHWL as determined by office stereoscopic interpretation of 1955 Office Photographs. (See Field Inspection Report, paragraph 5).

35. SHORELINE AND ALONGSHORE FEATURES

1954 Field Photographs were used by the Field Inspection Party. The MHWL and the LWL delineated on the Survey were compiled from the most recent photography available (1955 Office Photographs). The 1955 Office Photographs were taken at the time of Low Water.

Field Inspection notes were interpreted and applied to the 1955 office photographs after office stereoscopic examination. (See Field Inspection Report, paragraph 7).

36. OFFSHORE DETAIL

No comment.

37. LANDMARKS AND AIDS

Forms 567 are being submitted for one (1) landmark, and two (2) aids.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 have been submitted for eleven (11) recoverable photo-topo stations, and one (1) Azimuth Mark. (See Paragraph 49 of this Report).

39. JUNCTIONS

Joins T-11124 to the west, T-11122 to the north and T-11313 (Ph-126) to the east. To the south there is an all water area.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45.

Not applicable.

46. COMPARISON WITH EXISTING MAPS

U. S. Geological Survey Wadmaw Island, S. C. Quadrangle, scale 1:62,500, Edition of 1919, reprinted 1944.

47. COMPARISON WITH NAUTICAL CHARTS

This map manuscript has been compared with U. S. Coast & Geodetic Survey Chart No. 792, scale 1:40,000, published June 1941 (2nd Edition) revised to 6/27/55.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Approved and forwarded:

William F. Deane
William F. Deane,
CDR C&GS
Baltimore District Officer

Respectfully submitted,
29 January 1958

Ruth M. Whitson
Ruth M. Whitson
Carto. Photo. Aid

FIELD EDIT REPORT
PROJECT PH-81
QUAD-T-11125

51. Methods. All roads were ridden out to check their classification and to visually inspect the planimetry and contours.

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

New buildings and others that were not mapped have been circled on the photographs, where they are discernible, Those that were built since the 1959 photography or are obscured by trees have been blocked in and circled. All buildings are class 1 unless otherwise labeled.

Standard plane-table methods were used to check the accuracy of the contours.

The shoreline along the outer beaches was inspected from a small boat running close inshore and parallel to the shoreline, at or near M. L. W. Landings were made at several points where the shoreline was inspected on the ground and some measurements taken. As will be noted the shoreline, especially near the inlets and around Deveaux Bank, has undergone considerable change. The shoreline at these points is subject to frequent change, and should be so mapped. However, the storm of Sept. 1959 caused greater changes than normally occur from year to year. (See letter to Chief, Photogrammetry Division dated 11 June on this subject).

Field edit information is shown on the following. Three Field Edit Sheets numbered 1, 2 and 3. The discrepancy prints, one for each the north and south halves of the sheet, were also used as field edit sheets. They are numbered 1 and 2. One ratio print each of Photographs Nos. 59S-8932, 8934, 8940, 8942, 8944, 8976, 8978, 8980 and 8983.

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

52. Adequacy of the compilation. Due to the long lapse of time since the field inspection many new features have been built and other changes have occurred. These additions and changes are to be applied from the 1959 photography and other field edit data. The compilation will then be adequate and complete.

53. Map Accuracy. No horizontal accuracy tests were made. A total of 26 points on the contours were tested. See form 187 (Summary and abstract of vertical accuracy test) attached.)

54. Recommendations. None offered.

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
11 June 1960

George E. Varnadoe
George E. Varnadoe
Cartographer Supervisory

28

PHOTOGRAMMETRIC OFFICE REVIEW

T-11125

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

CONTROL STATIONS

5a. Classification label

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 None 8. Bench marks
9. Plotting of sextant fixes None 10. Photogrammetric plot report 11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline 13. Low-water line 14. Rocks, 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 None 24. Contours in general 25. Spot elevations 26. Other physical features

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines None 32. Public land lines None

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. Glaser Reviewer Joseph Steinberg 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.

P. GLASER Compiler Frank J. Pearce Supervisor

43. Remarks: see attached sheet

Review Report
Topographic Map T-11125 (N & S)
June 1963

61. General Statement

The positions of Aids to Navigation located by this survey were verified in 1960. No changes have been reported since 1960.

Existing junction differences in map features (between this survey and a contemporary USGS Quadrangle) are discussed in item 67 of this report.

62. Comparison with Registered Topographic Surveys

5154	1:20,000	1933
5155	1:20,000	1933
6059	1:10,000	1934
6081	1:10,000	1934

T-11125 supersedes these surveys in common areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies

Wadmalow Island - 1919

T-11125 will be edited and published by the USGS as a replacement for the quadrangle.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable.

65. Comparison with Nautical Charts

792 revised 7/17/61 1:40,000 scale

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 meets Bureau requirements.

67. Junctions

T-11125 is joined on three sides by the following Bureau Maps: Contemporary map T-11124 to the west; contemporary map T-11122 to the north; and planimetric map T-11313 (PH-126) to the west.

There is an all water area to the south.

Except for a difference - between T-11125 and T-11313 - in MHW line along the ocean, junctions with Bureau maps are in agreement. The difference in MHW location is due to natural changes that occurred during the period (1956 to 1960) between the surveys.

T-11125 joins the Geological Survey Quadrangle, "Kiawah Island," scale 1:24,000, published 1959. Except for the following differences in the two areas this junction is in agreement: (1) The mapped MHW line along the outer coast is not in agreement. This is possibly due to natural changes that occurred during the period of time between the surveys. Correspondence (two letters) relative to shoreline changes are included in this Descriptive Report; (2) The two maps differ in the location of Haulover Creek (and adjacent streams) shoreline. Different natural ground features were used on the maps to represent the shoreline. The apparent high water line (outer edge of marsh grass) is mapped on T-11125. The edge of the foreshore area (approximately MLW line) is mapped on the quadrangle.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

Charles Sherrer
Chief, Cartographic Branch
Photogrammetry Division

Chief, Nautical Chart Division

Feibugh 10/30/63
Chief, Photogrammetry Division

Chief, Operations Division

48. Geographic Names List

Adams Creek
Andell Creek

Bohicket Creek
Botany Bay Island

Camp St. Christopher
Captain Sams Creek
Cap[?]tain Sams Inlet

Deveaux Bank

Edingsville Beach
Edisto Island

Fickling Creek
Frampton Inlet

Haulover Cut
Horse Island

Jenkins Point
Johns Island

Kiawah Island
Kiawah River

Leadenwa^h Creek
Long Island

North Edisto River

Ocella Creek

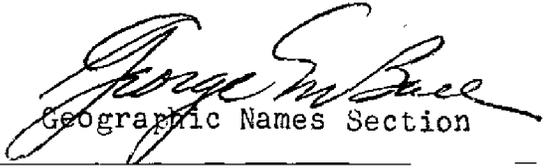
Pockoy Island
Point Farm
Point of Pines
Privateer Creek
Privateer Point

Rockland
Rockville

Seabrook Beach
Seabrook Island
South Creek

Townsend River

Wadalaw Island
Westbank Creek


Geographic Names Section

75
7/6

75
7/6
Feb.

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

-33-

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

General Delivery
Johns Island, S. C.
11 June 1960

To: Chief, Photogrammetry Division,
Coast & Geodetic Survey
Washington 25, D. C.

Subject: Field Edit Project Ph-81

The Field Edit Data for Quad. T-11125 is being submitted, this date, under separate cover.

You will note that the shoreline and doubtless the 5 ft. contour have undergone considerable change at and near the Inlets at the mouth of South Creek, Frampton Inlet and around Deveaux Bank.

It is noted that the M. H. W. L. at these Inlets and around Deveaux Bank is shown by a dashed line with note "H. W. L. shown by broken line is subject to frequent change". This is Correct. However, it is also noted that a 5 ft. contour is shown just back of the dashed line. It is believed that page 361 h of the Topographic Manual should apply instead.

THIS WAS SUGGESTED BY REVIEWER

An inspection of this area was made on 8 June 1960 from a small boat running close alongshore. At several points landings were made and the M. H. W. L. was examined and some measurements taken. This inspection proved that no substantial change has occurred since the photography of 10 Dec. 1959, on which the M. H. W. L. and M. L. W. L. was shown. However, beginning on the evening of 8 June and occurring again on 9 and 10 the tides in this area reached a peak of about 8.5 ft., or approximately 2 ft. above normal spring tide, with northeast winds. According to the local paper many of the lower islands were flooded destroying many young sea birds etc.. Some minor changes probably occurred during these tides.

It is believed that this shoreline should be corrected as of my inspection on 8 June and the contours dropped near the areas of frequent change.

Where erosion has taken place along the straight beaches, as along Seabrook and Botany Bay Islands, the 5 ft. contour (which would be the only contour affected) should be shown just behind the M. H. W. L. with the aid of the stereoscope, since the slope above the M. H. W. L. is rather abrupt and the M. H. W. L. is approximately 3 ft. above M. S. L.

76 Please Reply

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

39

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

If, after examination of these data, you do not agree with my recommendations and further field work is required in this, and similar areas to the southwest, please return the data with instructions.

Sincerely,
George E. Varnadoe
George E. Varnadoe

cc: Baltimore District Office
Tampa District Office.

738 Feb.

Original
35

139

762/AKH/rrj

21 June 1960

To: Mr. George K. Varnadoe
Coast and Geodetic Survey
General Delivery
Johns Island, South Carolina

Subject: Field Edit - Project PH-81

This is in reply to your letter of 11 June 1960 in which you make certain recommendations regarding the application of field edit data to T-11125.

Subject data has been examined and found to be complete and this office is in agreement with your recommendations.

No further field work on T-11125 is necessary.

Shoreline and revision of planimetric data will be considered correct as of date of field edit, June 1960.

(Signed) L. W. Swanson

L. W. Swanson, Chief
Photogrammetry Division

cc: TDO, EDO

JUN 23 1960

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY
PHOTO. PARTY NO. 1
BOX 3016, ST. ANDREWS BRANCH
CHARLESTON, SOUTH CAROLINA

POST OFFICE ADDRESS:

TELEGRAPH ADDRESS:

20 June 1955
EXPRESS ADDRESS:

To: The Director
U. S. Coast and Geodetic Survey
Washington 25, D. C.

Subject: Bridge Clearance

The data for the bridge crossing the Kiawah River and connect-
ing Seabrook Island and Kiawah Island follows:

Fixed Span

Horizontal Clearance: 20 feet

Vertical Clearance: 7.5 feet above MHW
Based on a line of fly levels across
the bridge using 5.4 feet as the mean
range of tide

Latitude $32^{\circ}-36'.2$ Longitude $80^{\circ}-07'.9$

Charts: 792 and 1239

J. E. Waugh
CER, WSC&GS
Chief of Party

JEW/c

