

3843

Form 501  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State *South Carolina*  
11-5613

DESCRIPTIVE REPORT.

*Topo* Sheet No. *3843*

LOCALITY:

*Vicinity of Charleston*  
*Stono River to*  
*Charleston Entrance*

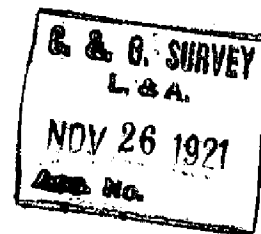
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CHIEF OF PARTY:

*L. F. Luer*

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3843



DESCRIPTIVE REPORT  
TO ACCOMPANY  
TOPOGRAPHIC SHEETS  
~~SEVEN~~ "D"  
FRAMPTON INLET  
TO  
CHARLESTON ENTRANCE

LAUNCH MIKAWA

R. F. LUCE  
CHIEF OF PARTY

GENERAL DESCRIPTION OF COAST.

The outlying coast consists of a narrow strip of sand beach or sand dunes backed by a strip of woods, pine, palmetto and live oak of varying depth. Back of these woods the country is marshy.

LANDMARKS. The coast is practically devoid of land marks being low and sparsely populated. But on the eastern point of the entrance to the North Edisto River there is a large building used as a clubhouse which stands up prominently. It is one and a half stories high and is painted red. Behind it is a red water tank. The location of both is given in the list of planetable positions, the house being called CHIM and the tank TANK.

At Folly Beach the Elk's Club building might serve as a landmark, when close to shore. It is a large two and a half story building with several dormer windows in the upper story. It is painted green and this prevents it from being seen very far off shore.

Two wireless arials stand on the east end of Folly Island and the location of the more easterly one is given in the list of plane table positions. It is called WIRE.

Morris Island Lighthouse also shows up well as a landmark.

CHANGES IN THE SHORELINE. There are many changes in the shoreline especially near the inlets. From Frampton Inlet to the North Edisto River the shore has worn away in increasing amounts until it reaches a maximum of about 500 meters at the mouth of the North Edisto River. Just inside the mouth of the river the shore has built up somewhat on the west bank. The east point of the mouth of the North Edisto River has built out and does not join the old shoreline until almost up to signal KIAWAH.

At signal KIAWAH the Kiawah River has broken through and formed a new inlet. The inlet is entirely surrounded by a bar which makes it inaccessible to even the smaller boats.

Beginning again at signal POND the shoreline has built out until it practically includes what was formerly Key Island at the mouth of the Stono River. The west end of Folly Island has been cut away for a distance of 600 or 700 meters.

From Stono Inlet to Charleston Jetties <sup>changes</sup> are not so marked although the east point of Lighthouse Inlet has been cut away somewhat and the east end of Morris Island has built out.

SURVEY METHODS. Plane table traverse with stadia rods was the method generally used although in a few instances the sextant was resorted to in order to map marsh areas where plane table set ups were impracticable.

On sheet "C" difficulty was found in making the traverse distance run from signal KIAWAH to check. The traverses were run twice and checked each other closely but did not check the triangulation distances on the sheet. In order to locate the trouble theodolite cuts were taken from triangulation stations KEY and BASS and these gave a new location of signal KIAWAH about 45 meters east of the old triangulation location.

The cuts from KEY and BASS gave a small intersection angle but as the positions as determined by them agrees very well with the plane table position it was used to go ahead from. Everywhere else the work checked well within the allowable error.

R. D. Horne.

Respectfully submitted for  
R. F. Luce, Chief of Party under  
whose direction this survey was made.

*James S. Borden*

## PLANETABLE POSITIONS

Topographic Sheets "C" and "D"

[illegible]

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

SECTION OF FIELD RECORDS.

REPORT ON TOPOGRAPHIC SHEETS Nos. 3843 & 3844.

Surveyed in 1921.

Chief of Party: R. F. Luce

Surveyed by R. F. Luce and R. D. Horne

Inked by R. D. Horne & W. F. Malnate.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey fulfill the requirements of the General Instructions.
3. The plan and extent of the surveys satisfy the specific instructions.
4. The field drafting was completed to the extent prescribed in General Instructions.
5. The junctions with both old and recent topography are satisfactory.
6. The bridge across Folly River presumably is connected with the highway system of James Island. If it is it should have been so shown.
7. No further surveying is required within the limits of the sheet.
8. The character of the surveying and field drafting are good.
9. Reviewed by E. P. Ellis, February, 1922.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3843 Sheet "D"

State . . . South Carolina  
General locality . . . ~~Coastline~~ VICINITY OF CHARLESTON  
Locality . . . ~~Charleston~~ Stono River to Charleston Entrance  
Chief of party . . . R.F. Luce  
Surveyed by . . . R.F. Luce and R.D. Horne  
Date of survey . . . July and August 1921,  
Scale . . . . . 1:20000  
Heights in feet above                       
Contour interval . . . 1 feet.  
Inked by R.D. Horne W.F. Malnate . . . Lettered by . . . R.D. Horne.  
Records accompanying sheet (check those forwarded): Photographs,  
✓ Descriptive report, Horizontal angle books, Field computations,  
Data from other sources affecting sheet . . . . .

Remarks:

One Descriptive Report covers both Sheets "C" and "D"