

3844

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State *South Carolina*
11-5613

DESCRIPTIVE REPORT.

Topo Sheet No. *3844*

LOCALITY:

North Edisto River

Frampton Inlet

St. Johns River

21
190

CHIEF OF PARTY:

R. F. Luce

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3844

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEETS
"C" ~~645~~
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 Polly 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 300 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 ^{changes} 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.

Francis S. Borden

PLANE TABLE POSITIONS
TOPOGRAPHIC SHEETS FRAMPTON INLET TO CHARLESTON.

| OBJECT | LATITUDE ° ' " | LONGITUDE ° ' " | REMARKS. |
|----------|-------------------|--------------------|--|
| CHIM (1) | 32 33 1602 | 80 10 1230 | Clubhouse on east point of entrance to North Edisto River. |
| TANK ✓ | 32 33 1623 | 80 10 1196 | Tank behind CHIM |
| KING | 32 39 1177 | 79 56 985 | Top of king truss on bridge over Folly River. |
| ELK | 32 39 1291 | 79 55 651 | Elks Club on Folly Beach. |
| WIRE ✓ | 32 41 202 | 79 53 505 | East wireless aerial on east end of Folly Island. |

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 Polly 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. 3844 Sheet **C**

State . . **South Carolina**

General locality ~~Coastline~~ **NORTH EDISTO RIVER**

Locality . **Frampton Inlet** to Stono River.

Chief of party . . . **R.F.Luce**

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

Date of survey . . **June and July 1921**

Scale **1:20000**

Heights in feet above -----

Contour interval . ----- feet.

R.D.Horne

Inked by **W.F.Malnate** . . Lettered by . **W.F.Malnate**

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"