

6078

U. S. COAST & GEODETIC SURVEY  
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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton *Director*

State: Louisiana

**DESCRIPTIVE REPORT**

*Topographic* } Sheet ~~No~~ Letter **G** **6078**  
*Hydrographic*

LOCALITY

Mississippi Delta

Bastian Pass to Quatre Bayoux Pass

1934

CHIEF OF PARTY

Thos. B. Reed

6078

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 6078

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field ~~No.~~ Letter C

REGISTER NO. 6078

State Louisiana

General locality Mississippi Delta

Locality Bastian Pass to Quatre Bayoux Pass

Scale 1:20,000 Date of survey March and April, 1934

Vessel Field Party No. 4.

Chief of party Thos. B. Reed

Surveyed by T. F. Squires

Inked by W. B. Reed

Heights in feet above ----- to ground to tops of trees

Contour, Approximate contour, Form line interval ----- feet

Instructions dated October 27, 1933.

Remarks: Plane table survey made of outer shore line only,  
in conjunction with photo-topographic survey of entire area.

DESCRIPTIVE REPORT  
to accompany

Topographic Sheet "C", Quatre Bayou Pass to Eastend Shell Island,

Barataria Bay, Louisiana      Field Party No. 4.

Thos. B. Reed, Chief of Party

DATE OF INSTRUCTIONS:                      October 27, 1933.

DATE OF SURVEY:                              March and April, 1934.

SURVEY METHODS:

This plane table survey was made in conjunction with a photo-topographic survey of the entire Barataria Bay area and consisted only in delineation of the outer shore line and location of hydrographic signals along the outer coast. The usual plane table methods were employed, except that distance in traverses was measured along the beach with a 100 meter wire.

The following traverses were run on this sheet: QUATRE to BAY MER (closed exactly); BAY MER to WISE (closed exactly); WISE to BASTIAN BAY LIGHT (closed 5 meters long); BASTIAN to ISLAND 2 (closed exactly). Closing error was adjusted. Distance across Quatre Bayou Pass was obtained by measuring a base on the beach south from QUATRE, measuring the angles with a theodolite and computing the distance from QUATRE to ANT.

CONTROL:

Control for this sheet consisted of the following triangulation stations; QUATRE, 1927; BAY MER, 1927; Wise, 1927; BASTIAN BAY LIGHT, 1934; BASTIAN, 1927; and ISLAND 2, 1934.

GENERAL DESCRIPTION OF COAST:

The coast line in this region is characterized by a fringe of low, sandy beach, backed by marsh. There are no land marks of any importance along the coast line shown on this sheet. The tide range in this region is only one foot, and except where shown there is little difference between the high and low water lines.

COMPARISON WITH PHOTO-TOPO SHEETS:

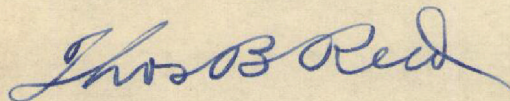
Considerable difference exists in various places on this sheet with the shore line as compiled from the photographs. This is due mainly to the unstability of the outer shore line in this region and partly to the interpretation of the high water line from the photographs on a low sand beach such as this.

The eastern point of the island, east of QUATRE, on which station ANT is located has washed away and two long sand spits, bare at high water, now extend to the northward from this entrance. The small stream, shown on the photo-topo sheet between signals NOT and HUH, is now entirely closed. A new sand island has formed in the entrance between signals CAR and MER and the western point of the island on which MER is located has washed away. To the eastward of BAY MER the beach has washed away considerably in places. The entrance between ACE and FAT has changed considerably. This area is very shoal and probably changes with every storm. The

entrance at station WISE has changed very little since the photographs were taken. To the eastward of station WISE the beach has washed away from 10 to 30 meters. The sand point to the westward of station BASTIAN has built out about 100 meters. To the eastward of station BASTIAN the shore line remains about the same as shown on the photo-topo sheet.

The sand beach in this region is very low and the shore line unstable and changes in the outer shore line in the two years since the photographs were taken are to be expected.

Respectfully submitted,



Thos. B. Reed,  
Lieut., C. & G. Survey,  
Chief of Field Party No. 4.

*Geographic names examined and approved except Shell I.  
which will be further investigated.*

*H. Bacon, Nov 5, 1934*