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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 B
~~Hydrographic~~ } 6077

LOCALITY

Mississippi Delta

Quatre Bayoux Pass to Caminada Pass

1933 and 34

CHIEF OF PARTY

L. C. Wilder and Thos. B. Reed.

U. S. GOVERNMENT PRINTING OFFICE: 1925

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
6077

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 B

REGISTER NO. 6077

State Louisiana
General locality Mississippi Delta
Locality Quatre Bayoux Pass to Caminada Pass
Scale 1:20,000 Date of survey Dec., Jan., Feb., 1933 and 34.
Vessel Field Party No. 4.
Chief of party L. C. Wilder and Thos. B. Reed.
Surveyed by T. F. Squires
Inked by Thos. 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 "B", Caminada Pass to Quatre Bayou Pass,

Barataria Bay, La. Field Party No. 4.

L. C. Wilder, Chief of Party to January 14, 1934.

Thos. B. Reed, Chief of Party from Jan. 15, 1934.

DATE OF INSTRUCTIONS: October 27, 1933.

DATE OF SURVEY: December, 1933 and January and February, 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: S. W. BASE 2 to CAMINADA (closed 8 meters short); S. W. BASE 2 to N. E. BASE 2 (closed exactly); N. E. BASE 2 to ABE (closed exactly by three point fix); BARATARIA LIGHT to CHIM. SUGAR CENTRAL (closed exactly); CHIM. SUGAR CENTRAL to ABEL2 (closed 5 meters short); ABEL 2 to QUATRE (closed 10 meters short). Closing errors were adjusted. Traverses were run as "blind traverses" in the field; the line CAMINADA to BARATARIA LIGHT being run on an aluminum mounted sheet and the line from BARATARIA LT. to QUATRE being run on Whatman paper. These traverses were later transferred to the sheet.

CONTROL:

Control for this sheet consisted of the following triangulation stations: CAMINADA 1927; S. W. BASE 2 1927; N. E. BASE 2 1927; BAYOU RIGAUD LIGHT 1927-34; BARATARIA LIGHT 1927; CHIMNEY SUGAR CENTRAL 1927; ABEL 2 1934; and QUATRE 1927. N. A. 1927 datum.

GENERAL DESCRIPTION OF COAST:

The coast line in this region is characterized by a fringe of low, sandy beach, backed by marsh. The land on Grand Isle is about 2 feet higher than the remainder of the land along shore in this region and there are a considerable number of trees for about 2 miles north-eastward from S. W. BASE.

The tidal range in this region is only 1 foot and there is very little difference between the normal high and low water lines. The only landmark of any importance on this sheet, besides Barataria Light is the Sugar Central Chimney. The Coast Guard Station stands in the trees and the cupulo is not visable very far. The bridge at the western end of Grand Isle is a pile trestle bridge having a vertical clearance of 16 feet through the passage, which is at signal DIG.

*Names on this sheet examined and approved
Nov. 5, 1934. A. Bacon*

NEW GEOGRAPHIC NAMES:

The names "Pass Abel" and "Pass Justin", of the two new passes were obtained from local residents. Local residents say that Grand Terre Island is still called by the same name, even though it now consists of three islands.

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 low sand island just south-east of Barataria Light has changed to the form shown, in the two years since the photographs were taken. To the eastward of Barataria Light the beach has built out in some places and cut away in others. Pass Abel has changed very little and the western side of Pass Justin remains about the same. The eastern side of Pass Justin has changed considerably. This area is very shoal and probably shifts with every storm. Unfortunately the photo-topographic compilations were not available in this area until after the plane table survey had been completed so that a junction of the two shore lines could not be obtained at all entrances. The end of the point at the eastern side of Caminada Pass has washed away and the beach along Grand Isle has worn away, more or less all the way along.

Respectfully submitted,

Thos B Reed

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