

4546

Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

G. & B. SURVEY

L. & A.

SEP 22 1930

Acc. No.

State: Florida

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No.

4546

LOCALITY

Indian River

Grant to Sebastian Inlet

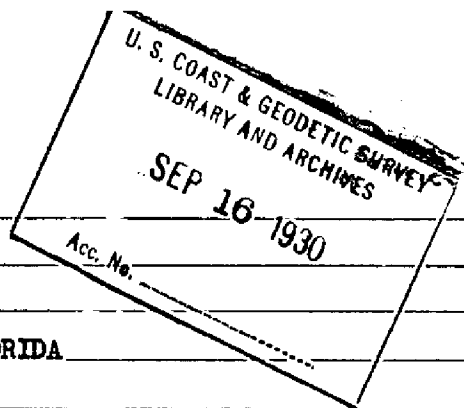
1930

CHIEF OF PARTY

G. D. Cowie

Graphic Control

Graphic Control



DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET "C", EAST COAST OF FLORIDA

SEASON - SPRING, 1930.

PROJECT #50

INSTRUCTIONS, STR. LYDONIA, DATED DEC. 31, 1929.

GEORGE D. COWIE, CHIEF OF PARTY

DESCRIPTIVE REPORT TO ACCOMPANY
TOPOGRAPHIC SHEET "C", EAST COAST OF FLORIDA

SEASON- SPRING, 1930.

PROJECT # 50

INSTRUCTIONS DATED DEC. 31, 1929.

PURPOSE OF SURVEY

This topographic survey was executed for two purposes: to locate signals along the shore for the control of hydrographic surveys, and to furnish control for aerial surveys.

The control for aerial surveys consisted in locating structures, roads -- and particularly crossroads -- which could be readily spotted on the aerial photographs. This was supplemental to triangulation which determined the position of the most outstanding objects in the area and of stations on points of land conspicuous in the aerial photographs.

GENERAL DESCRIPTION

This is a low, flat, sandy country with no landmarks other than man-made structures. The coastal strip is covered by palmetto growth, with a few groups of pine trees and palm trees. From the sea an almost continuous stretch of trees on the west side of Indian River shows in the background.

The shore line of the entire coast consists of sandy beach.

DETAILED DESCRIPTION

The area between \triangle Floridagold and Sebastian Inlet consists of sandy, palmetto-covered ridges parallel to the shore. A quarter-mile west of \triangle Floridagold is an orange plantation. A second smaller plantation is situated about one mile Southeast of the Floridagold plantation.

The sandbank bordering the shore between \triangle Floridagold and \triangle Evans is from 8 feet to 5 feet high. The edge of the palmetto growth is 3 meters inshore from M.H.W. line. Between \triangle Evans and \triangle Slip the bank is lower, the edge of the palmetto growth 2 meters inshore from M.H.W. line. Between \triangle Slip and \triangle Beaujean the banks are low. A second ridge about 15 feet high paralleling the shore is situated about 20 meters inshore. The edge of the

palmetto growth is about 4 meters inshore from M.H.W. line.

The southern end of the road to Sebastian Inlet passes through a grove of trees. There are several houses and shacks just north of the Inlet, used by fishermen and vacationists. A stone breakwater lies on each side of the mouth of Sebastian Inlet.

SURVEY METHODS

The topographic beach signals were located by traverse between the triangulation stations near the beach. The distances between plane-table set-ups were measured with a 300 ft. steel tape. The plane-table set-ups were spaced 600 meters apart. All traverse closures were within the required limits. The closing errors of the section are listed on a sheet attached to this report.

Due to the height of the sandbank bordering the beach, it was impractical to rod the roads parallel to the beach while the beach traverse was in progress. The location of these roads necessary for the aerial photo control was determined later. Many parts of these roads were in low ground between growths of palmetto, making the seeing of signals from the ground difficult. Therefore the plane-table was mounted on the truck. The truck was stopped wherever it was desired to secure topographic detail, the table leveled, and the position determined by 3-point fix.

L. S. Hubbard
H + G. Engr.

TRAVERSE CLOSURES

△ FLORIDAGOLD to △ EVANS ---- 0 meters
" EVANS to " SLIP ----- 3 meters
" SLIP to " BEAUJEAN --- 0 meters

Graphic Control
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4546

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 Letter C.

REGISTER NO. **4546**

State FLORIDA

General locality EAST COAST OF FLORIDA Indian River

Locality Grant
FLORIDA GOLD TO SEBASTIAN INLET

Scale 1-20,000 Date of survey April 1930, 19

Vessel Str. LYDONIA

Chief of Party GEORGE D. COWIE

Surveyed by L.S. HUBBARD

Inked by L.S. HUBBARD

Heights in feet above M.H.W. to ground to tops of trees

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

Instructions dated December 31, 1929, 19

Remarks: _____