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

State: Florida

DESCRIPTION REPORT
Topographic Sheet No. 4541
Field No. A

LOCALITY
West Coast of Florida
St. Andrews Bay

1930

CHIEF OF PARTY
Roland B. Horne
DESCRIPTIVE REPORT TO ACCOMPANY
Topographic Sheet A
Project 61
Party of Roland D. Horne

INSTRUCTIONS:-
Directors instructions, paragraphs 7 and 8, dated April 29th, 1930.

LIMITS:-
This sheet comprises that part of St. Andrews Bay from Latitude 30-02 to 30-07.5 N. and Longitude 85-34.5 to 85-43.5 W.

GENERAL DESCRIPTION:-
The outer or Gulf Coast is a low sand spit with Hurricane Island laying off the eastern end. On the east end there is little vegetation until in the vicinity of Spanish Shanty a small clump of oak and palmetto is found, farther westward the beach is backed by a quite prominent dune line with oak scrub, palmetto and pine in back of this.

The shoreline on the north shore of the bay is quite heavily wooded from Davis Point to Sand Bluff, there a sand spit makes off to the westward. From this point on east to the vicinity of old Hog Island conditions are about the same. Two long sand spits with a narrow entrance to a small lagoon now take the place of Hog Island. The trees along this shore give the appearance of a bluff line but the rise from high water line ranges from four to twelve feet only, with the exception of the vicinity of Beacon Beach where the rise is abrupt and about twenty feet. A narrow strip of sand beach is found throughout the entire length of this coast.

CONTROL:-
Control for this sheet was furnished by third order triangulation from the base Spanish Shanty 1910 - Weiley 1910.

SURVEY METHODS:-
A traverse from Davis Point 3 to Weiley, closing error 3 meters, no adjustment.
A traverse from Weiley to Middle, closing error 3 meters, no adjustment.
A traverse from Middle to Sand Bluff 2, checked by a three point fix at Beacon Beach, closing error at Sand Bluff 2 of 8 meters was adjusted to the check position in the field.
A traverse from Sand Bluff 2 to Spring 2, checked at Ware by a three point fix, closing error at Spring 2 of 3 meters was not adjusted.
A closed loop traverse from Spring 2 to the eastern limit of the sheet, checked at Spring, closing error of 3 meters, no adjustment.

The east half of Hurricane Island as well as the main island were run in from three point fixes.
SURVEY METHODS (cont):-
A traverse from Spanish Shanty to Lands End 2, closing error 5 meters, no adjustment.
A traverse from Spanish Shanty to Laguna 2, closing error 7 meters, error adjusted on the sheet.
A closed loop traverse from Laguna 2 to Dun to Art and then closing on Laguna 2 with an error of 14 meters. This error was adjusted on the sheet in the field.
All aids to navigation were located by intersections of three or more cuts. The channel buoys have since been shifted by the Engineers during dredging operations.

ESTABLISHED LOCAL NAME:--
Davis Point is locally known as Hawks Point and only very old settlers in the locality can remember it being called Davis Point.

CHANGES OF COAST LINE:--
A suitable junction was reached at Davis Point, the shoreline being changed only slightly from there to the vicinity of Sand Bluff. A bluff line is shown along this coast on the chart, this on the ground has a rise of only from four to twelve feet so is not shown as bluff on this sheet. A bluff line is shown in the vicinity of Beacon Beach where the rise is quite abrupt. At Sand Bluff there are now low sand dunes with a sand spit extending to the westward farther than previously shown. Hog Island shown on previous sheets has entirely washed away, at present there being in this locality two long sand spits enclosing a small lagoon. The island shown on the chart, previously known as Celestine, is now entirely removed. The present shoreline at the eastern limit of the sheet falls inshore of the old high water line about thirty meters, old stubs and trees with roots exposed by wind and water action show that this recession of the shoreline is actual.

On the south side of the bay a satisfactory junction was obtained on Laguna Point, the shoreline on the bay side being changed slightly to Lands End. The outer coast has apparently been eroded away as shown by tree stumps and clay lumps found as far as a quarter of a mile into the Gulf. The present shoreline at the western limit of the sheet falls inside of the old shoreline about 45 meters. The present Hurricane Island is rapidly changing, it being necessary to revise this section of the topography during a period of only a month and a half. Lands End is apparently building out across West Pass to the western end of Hurricane.

The west end of Crooked Island is also shifting and at the present time the tip turns toward the station STOP on the eastern limit of this sheet, but does not fall within the limits of the sheet.

Respectfully submitted:

[Signature]
Max C. Ricketts,
Deck Officer, C. & G. Survey

Approved and Forwarded:

[Signature]
Roland D. Horne,
Chief of Party
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U. S. COAST AND GEODETIC SURVEY

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 ......A........

REGISTER NO. 4541

State........Florida

General locality........West Coast of Florida

Locality........St. Andrews Bay

Scale.1:10,000........Date of survey.May 22 to June 4, 1930

Vessel......Shore Party..Chartered Launch DIXIE III

Chief of Party.........Roland D. Horne

Surveyed by...........Max G. Ricketts

Inked by...............Max G. Ricketts

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

Contour........Approximate contour. Form line interval.....feet

Instructions dated........April 29th, 1930

Remarks:........................................................................
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