

Graphic Control

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Graphic Control

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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <u>FLORIDA</u>
11-5613
DESCRIPTIVE REPORT.
Topographic Sheet No. <u>4134</u>
LOCALITY:
<u>EAST COAST OF FLORIDA</u>
<u>MOSQUITO INLET</u>
<u>1925</u>
CHIEF OF PARTY:
<u>F. G. Eagle.</u>

Graphic Control  
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET No. \_\_\_\_\_

SCALE 1:10,000

EAST COAST OF FLORIDA

MOSQUITO INLET

SURVEYED: April, 1925.

F. G. Engle, H. & G. Engineer, -- Chief of Party,  
H. C. Warwick, Jr. H. & G. Engineer, Topographer.

LIMITS: Mosquito Inlet:

Halifax River north  $1\frac{1}{2}$  mile north of Ponce Park. Hillsboro River south to New Smyrna.

CONTROL: The control consists of various main scheme and supplementary stations in the scheme of triangulation along the East Coast of Florida. (appendix No. 6 --- Report for 1911)

METHOD: The plane table stadia method was used entirely, traversing between control points and three point fix positions. On practically every set up it was possible to check the position by sights on two or more triangulation stations.

The signals that were erected for hydrographic purposes were built by the plane table party and located by three or more cuts or by rod readings and check rod readings. Natural objects were used frequently and it was not necessary to build many signals.

The high water and mangrove line was all rodded in except in a few cases where it was not practicable to rod in the mangrove line, and this is shown by broken lines on the sheet. The low water lines was rodded in where practicable, in some cases it was sketched in. A fair idea is given on the sheet of the existing channels and shoals in the inlet. A large print of the city plan of New Smyrna was obtained from the city engineer of that place and is forwarded with the sheet.

General Description of Locality.

That area between the ocean and the rivers is composed of sand dunes covered with a rank growth of palmetto and cactus. The inlet is composed of sand bars with channels running through it, the main channel being well buoyed. Strong currents run through this inlet, and the flood tide seems to run the strongest, possibly as high as four knots. The east side of the rivers is marshy, many sloughs running through the mangrove.

Ponce Park is a very small settlement, a small hotel and several dwelling houses. A large brick hotel has been started at the south end of the peninsular on the north side of the inlet. Work was stopped on this building in March and there is a disputed opinion among the local people as to whether or not this building will ever be completed.

Coronado Beach has already been described in the report covering the topography of the ocean front.

New Smyrna is a town of probably four thousand people. The Florida East Coast Railroad has yards here, and like all other Florida towns it is rapidly growing.

#### GEOGRAPHIC NAMES:

Hillsborough River is locally called North Indian River. Few people in the immediate vicinity know this river by the name of Hillsborough River.

Brattock Creek, is a small creek or slough a short distance south-east of Spruce Creek, Name gotten from light house keeper of Mosquito Inlet Light House.

Backlash Creek, a small creek, the mouth of which is a short distance north of Stonehouse Creek. Name gotten from light house keeper at Mosquito Inlet Light House.

Douglas Creek, a few <sup>2 1100</sup> meters south east of Stonehouse Creek, the information as to name gotten from the same source.

Cook's Creek, a small creek a little more than a half mile north of Coronado Beach bridge; information from same source.

Mill Island, information gotten from an inhabitant of the island.

Shepherd Island, information gotten from the same person.

#### PROGRESS:


Work was begun on April 9 and completed on April 24, 1925. Work was not carried on continuously.


#### STATISTICS:

Statute miles of high water line	6.4
Statute miles of mangrove line	13.4
Statute miles of low water line	16.4
Area square statute miles	3.4
Working days - - - - -	5.0
Men on party - - - - -	4
Transportation: Ford Car and rented skiff.	

Respectfully submitted,

Approved:

  
F. G. Engle,  
H. & G. Engr., C. & G. S.  
Chief of Party.

  
H. C. Warwick,  
Jr. H. & G. Engr. C. & G. S.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

November 9, 1925.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4134

Mosquito Inlet to New Smyrna, Florida

Surveyed in 1925.

Instructions dated November 29, 1924.

Chief of Party, F. G. Engle.

Surveyed and inked by H. C. Warwick.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the work conform to the requirements of the General Instructions except for the omission of the magnetic meridian and the failure to check the projection and plotting of triangulation points.
3. The plan and extent of the survey satisfy the specific instructions.
4. The usual field drafting was done by the field party. It was defective in that the shoreline was drawn so faintly that it had to be redrawn in the Office. Slanting letters were used for practically all the names of topographic features and vertical letters for the hydrographic names -- the reverse of Coast and Geodetic Survey practice.
5. The junctions with the adjoining sheets are satisfactory and no further surveying is required.
6. The character and scope of the surveying is excellent and the field drafting fair.
7. Reviewed by E. P. Ellis, November, 1925.

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. 4134

State . . . . . Florida

General locality East Coast Florida

Locality . . . . . Ponce De Leon  
~~Mosquito~~ Inlet to New Smyrna

Chief of party . F. G. Engle

Surveyed by . . H. C. Warwick

Date of survey . April 9, to April 24, 1925.

Scale . . . . . 1:10,000

Heights in feet above -. - . - . - .

Contour interval -. - . feet.

Inked by H. C. W. . . . . . Lettered by H. C. W.

Records accompanying sheet (check those forwarded): Photographs,

☒ Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Large print of New Smyrna

Remarks: Ponce De Leon  
~~Bromide Mosquito~~ Inlet