DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: FLORIDA

DESCRIPTIVE REPORT.

Topographic sheet No. 4134

LOCALITY:

EAST COAST OF FLORIDA

MOSQUITO INLET

CHIEF OF PARTY:

E. G. Dye
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 1/2 mile north of Ponce Park. Hilsboro 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 be-
tween 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 roded 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
roded 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 peninsula 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 Hills-
borough River.
Bratton 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 miles south east of Stonehouse Creek, the information
as to name gotten from the same source.
Cook 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,

[Signature]

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

[Signature]

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

Surveyed by ....................................... H. C. Warwick

Date of survey .................................... April 9, to April 24, 1926

Scale ............................................... 1:10,000

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

Contour interval ...................................... .

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

Ponce De Leon

Remarks: Bromide mosquito Inlet