### DESCRPTIVE REPORT

**Type of Survey**
- **TOPOGRAPHIC**

**Field No.**
- F1-30 (48)

**Office No.**

### LOCALITY

**State**
- FLORIDA

**General locality**
- EAST COAST

**Locality**
- VOLUSIA & BREvard COUNTIES

**Chief of Party**
- C.E. Harris, Jr., Chief of Field Party
  - Philadelphia, Magic Photohraphic Office

### LIBRARY & ARCHIVES

**DATE**
- Sept 4, 1951
DATA RECORD

T-9164

Project No. (II): Ph-30(48)  Quadrangle Name (IV):

Field Office (II): Titusville, Florida  Chief of Party: George E. Morris, Jr.
Photogrammetric Office (III): Tampa, Florida  Officer-in-Charge: Ross A. Gilmore

Instructions dated (II) (III): The Director's Instructions, Project Ph-30(48), dated 13 July 1948.

Copy filed in Division of Photogrammetry (IV) Office Files

Method of Compilation (III): Graphic
Manuscript Scale (II): 1: 20,000

Stereoscopic Plotting Instrument Scale (II): None
Scale Factor (III): None

Date received in Washington Office (IV): 11/15/47  Date reported to Nautical Chart Branch (IV): 2/21/51

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): 1:24,000 Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MSL

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): SHILOH, 1934

Lat.: 28° 47' 29.491" (907.9m)  Long.: 80° 48' 31.602" (857.1m) Adjusted

Plane Coordinates (IV): Transverse Mercator State: Florida Zone: East

Y = 1, 620, 448.50  X = 561, 249.81

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.
When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel

(Show name within area)

(ii) (iii)
DATA RECORD

Field Inspection by (II): Jack T. Beecher
W. Frank Therkildson
Cecil A. Navin (Shoreline Inspection)

Planetary contouring by (II): Jack T. Beecher
W. Frank Therkildson

Completion Surveys by (II): James E. Hume

Mean High Water Location (III) (State date and method of location):
May, 1949 Air Photo Compilation
Identified on photographs taken 1948

Projection and Grids ruled by (IV): T.L.J. (W.O.)

Projection and Grids checked by (IV): n

Control plotted by (III): R.R. Wagner

Control checked by (III): B.F. Lampton

Radial Plot
Stereoscope: M.M. Slavney

Contouring by (III):

Planimetry

Stereoscopic Instrument compilation (III):
Contours

Manuscript delineated by (III): R.A. Reece

Photogrammetric Office Review by (III): J.A. Giles

Elevations on Manuscript
checked by (III): R.R. Wagner

Date: 2 February 1949
Date: 19 May 1949

Date: 28 January 1949
Date: 22 March 1949

Date: Dec 1949

Date: Oct. 19, 1948
Date: Oct. 19, 1948

Date: Nov. 8, 1948

Date: Nov. 9, 1948

Date: June 3, 1949

Date: Aug. 1949

Date: Sept. 1949

Date: Sept. 1949
PHOTOGRAPHS (III)

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<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
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<td>2-18-48</td>
<td>13:56-58</td>
<td>1:20,000</td>
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<td>14:04-05</td>
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<td>48J-674-676</td>
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<td>48J-519-522</td>
<td>2-21-48</td>
<td>13:30-32</td>
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<td>48J-496-500</td>
<td>2-21-48</td>
<td>13:05-07</td>
<td>&quot;</td>
<td>&quot;</td>
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</tbody>
</table>

Tide (III)

Reference Station: Mayport, Fla.
Subordinate Station: Ponce De Leon Inlet
Subordinate Station:

Washington Office Review by (IV): Everett H. Ramey

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 41
Shoreline (More than 200 meters to opposite shore) (III): 45 Statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 19 "  "
Control Leveling - Miles (II): 40 4th Order
Number of Triangulation Stations searched for (II): 25 Recovered: 13 Identified: 10
Number of BMs searched for (II): 8 Recovered: 7 Identified: 7
Number of Recoverable Photo Stations established (III): 10 (Also forms 524 for 11 boundary monuments)
Number of Temporary Photo Hydro Stations established (III): none

Add Form M-2226-12 for Az. Mk.

Remarks:
Summary to Accompany T-9164

Topographic map T-9164 is one of fourteen similar maps in project Ph-30(46) and is in the northern part of the project. It includes portions of the Atlantic Ocean, the Mosquito Lagoon, and the Indian River and land area adjacent.

Project Ph-30(46) is a graphic compilation project. The field operations preceding compilation included complete field inspection, the establishment of some additional horizontal control, and the delineation of contours on the photographs by planimetric methods.

The manuscript was compiled at a scale of 1:20,000 and covers 7°31' in latitude by 7°18' in longitude. The entire map was field edited. The map is to be published by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle. Items registered under T-9164 will include a cloth-mounted lithographic print of the manuscript at a scale of 1:20,000, the descriptive report and a cloth-mounted color print at 1:24,000 scale.
FIELD INSPECTION REPORT
QUADRANGLE T-0164
N 28°45' - W 80°45'/7.5
PROJECT FH-30(48)
George E. Morris, Jr., Chief of Party

All phases of the field work were completed in accordance with The Director's Instructions, Project Ph-30(48), dated 13 July 1948, and applicable General Instructions.
* Copy filed in Office Files, Div. of Photogrammetry

Horizontal control recovery and shoreline inspection was by Cecil A. Nadin, Topographic Engineer. Along the beach, vertical control was established by James E. Hundley, Cartographer(Photo), and contouring and field inspection was by Jack T. Beecher, Cartographic Survey Aid. All other work, with minor exceptions, was by W. Frank Therkildson, Cartographic Survey Aid.

Field work was begun 17 January 1949 and completed 19 May 1949.

1. DESCRIPTION OF THE AREA

The north two-thirds, approximately, of the quadrangle lies in Volusia County, and the remainder in Brevard County.

Approximately 60% of the quadrangle is land area. The Atlantic Ocean borders the 4 mile long beach area in the NE part of the quadrangle. The beach area is separated from the mainland by Indian River North (Mosquito Lagoon), and Indian River extends N from the S approximately 3.5 miles into the center of the mainland.

The Indian River shoreline is bounded by wide marshes. The W shore of Indian River North (Mosquito Lagoon) is fast land, but the inshore areas that have not been developed agriculturally are thinly interspersed with a pattern of small sloughs, or savannas, that roughly parallels this shoreline and extends 1 to 2 miles inshore.

Along the Atlantic a narrow sand ridge parallels the ocean beach. West of this ridge, and along the east shore of Indian River North (Mosquito Lagoon), is found a marshy strip with numerous small islands of the same character lying immediately offshore.

The beach is uninhabited. A through, ungraded sand road serves the beach, and is used primarily by surf fishermen. There is a group of buildings, formerly a Coast Guard Station now abandoned, in this area.

The mainland is well traversed by an adequate road net that includes U. S. Highway 1 and Florida State Road 3. The Florida East Coast Railway runs north and south through this area. Two small unincorporated towns, Oak Hill and Shiloh, are in the quadrangle.

Livelihoods come from several sources. Some of the main ones are: growing of citrus fruits, tourist trade, fishing, cattle ranching, and lumbering operations.
2. **Completeness of Field Inspection**

Field inspection is believed to be adequate, and has been shown on the following photographs: 48-J-152(2 of 2), 48-J-154(2 of 2), 48-J-496(1 of 2), 48-J-497(2 of 2), 48-J-498(1 of 2), 48-J-500, 48-J-519(1 of 2), 48-J-520, 48-J-521, and 48-J-522.

Field editor see paragraph 11.

3. **Interpretation of the Photographs**

Photographic detail was fairly sharp and no difficulty of interpretation was experienced.

No vegetation growths peculiar to this general area were encountered.

4. **Horizontal Control**

Twenty-three U.S.G. & G.S. stations were searched for, twelve were recovered, and nine were identified.

One U.S.G. station was recovered and identified. _Also see Item 32._

One Florida Geodetic Survey station was searched for but not recovered.

Photographs 48-J-152 and 48-J-153 were fixed by locating an identifiable control station, along a line through the photograph center and approximately normal to the flight line, by the substitute station method. The data for these fixes were submitted in "Horizontal Angle Book, Quadrangle T-9168" and forms M-2226-12 are submitted with this quadrangle.

5. **Vertical Control**

Four U.S.G. & G.S. bench marks were searched for, three were recovered and identified, approximately, on the contour photographs.

Four third-order U.S.G. bench marks, adjusted to MSL 1929, were searched for, four were recovered and identified, approximately, on the contour photographs.

Fourth order control was established along the beach by running a line of wye levels between bench mark EDM-6 in quadrangle T-9168 along the outer beach to bench mark DA-216 north of quadrangle T-9162, a distance of 37.2 statute miles. Because of the original closure of 1,467 feet, a portion of the line which was run under unfavorable weather conditions was rerun giving a final closure of 0,960 feet. This was adjusted throughout the line. The line crosses four quadrangles, T-9168, T-9165, T-9164, and T-9162 and is recorded in four level books, one for the portion falling in each quadrangle. The record books are cross-referenced.

The other fourth-order control consisted of comparatively short closed loops controlled by nearby bench marks. The maximum error of closure was 0.140 ft., and all closures in excess of 0.30 ft. were adjusted.
62 temporary bench marks were set along 40 miles of fourth-order levels for contour control.

6. CONTOURS AND DRAINAGE

All contouring was done by planestable methods, and all traverses with more than three setups were tied back into vertical control points. The maximum vertical error of closure was 0.5 ft.

The majority of the area has no distinguishable drainage pattern except as provided by occasional ditches.

A satisfactory contour junction was made with quadrangle T-9167 to the south, quadrangle T-9165 to the east, quadrangle T-9162 to the north and quadrangle T-9163 to the west.


7. MEAN HIGH WATER LINE

Ample measurements were taken, while contouring along the Atlantic, from identifiable detail points to the MHWL (elev. 1.8 ft.) to prove that this line is positively represented on the photographs by a definite tone change. These reference measurements have been recorded and the MHWL symbolized at frequent intervals on the shoreline inspection photographs.

The MHWL has also been symbolized along Indian River North (Mosquito Lagoon). The east shore of the lagoon is apparent with the exception of numerous sand beaches too narrow and too short to warrant change in symbolization. The west shore of the lagoon is fast land with few exceptions which are shown on the photographs. All spoil islands above MHW in the lagoon are fast land.


8. LOW WATER LINE

MLWL has not been shown. There is no appreciable tide change in Indian River North (Mosquito Lagoon) and any noticeable water level difference is due to lack of rain or extreme variance in prevailing winds. See Item 67

9. WHARVES AND SHORELINE STRUCTURES

Adequately labeled on the photographs.
10. **DETAILS OFFSHORE FROM HIGH WATER LINE**

Adequately labeled on the photographs.

11. **LANDMARKS AND AIDS TO NAVIGATION**

One landmark is recommended for charting at this time, and Form 567 is submitted. The field editor should investigate the status of the abandoned Coast Guard Station (Photograph 46-J-152(1 of 2), and if it is found that these buildings are to be permanent, it is recommended that the main building be charted as a landmark.

Five lighted nonfloating aids are submitted on Form 567. Two are discernible on the photographs and have been labeled on the shoreline inspection photographs. The other three were located by theodolite cuts submitted on Form 24A.

See paragraph 13. *Also items 56 & 68*

12. **HYDROGRAPHIC CONTROL**

No photo-hydro stations were required for this project.

13. **LANDING FIELDS AND AERONAUTICAL AIDS**

There are no landing fields within the quadrangle.

Airway Beacon No. 22, located by triangulation in 1934, is included with the list of nonfloating aids on Form 567.

14. **ROAD CLASSIFICATION**

All roads in the quadrangle have been classified in accordance with Photogrammetry Instructions No. 10, dated 14 April 1947, and Amendment dated 24 October 1947.

15. **BRIDGES**

There are no bridges over navigable waters in this quadrangle.

16. **BUILDINGS AND STRUCTURES**

Buildings were classified in accordance with Photogrammetry Instructions No. 29, dated 1 October 1948, except that all buildings to be mapped have been circled in red ink.

17. **BOUNDARY MONUMENTS AND LINES** *See also items 57 & 69*

Two section corners, one 1/4 section corner, and eight corners or monuments along grant lines were recovered, identified, and Forms 524 submitted.
Form M-2226-12 is submitted for one unmonumented grant corner.

Several other section corners in Brevard County were transferred from sectionalized county photographs prepared by Frank P. Schuster, Brevard County Surveyor, and their positions are believed to be within approximately 25 ft. of their true positions. Two unmonumented section corners in the vicinity of Oak Hill were identified on the photographs from information furnished by Mr. William E. Swoope, Jr., registered surveyor of New Smyrna Beach, and are believed to be within 10 feet of true position.

Other grant and section line control, taken from Florida East Coast Railway plans, has been inked on the field photographs.

Section and grant line information is shown on the following photographs: 48-J-146, 48-J-147(2 of 2), 48-J-519(1 of 2), 48-J-674(2 of 2), 48-J-675, and 48-J-677.

Other boundaries are the subject of a special boundary report for the entire project by Lowell I. Bass, Cartographic Survey Aid. Filed in General Files, Div. of Photogrammetry.

18. GEOGRAPHIC NAMES

This is the subject of a special geographic names report for the entire project by Lowell I. Bass, Cartographic Survey Aid. Filed in Geographic Names Section, Div. of Charts.

19. TOPOGRAPHIC STATIONS

Ten monumented topographic stations were established and forms 524 submitted.

One station, Azimuth Mark SHILOH 1934, was identified and form M-2226-12 is submitted.

Azimuth Mark (RM No. 3) LAGOON 1934, useable for hydrographic control, was identified and form 524 is submitted.

Submitted
20 May 1949

Stanley J. Hathorn
Stanley J. Hathorn
Cartographer (Photo)

Approved and forwarded
20 May 1949

George E. Morris, Jr.
Chief of Party
PHOTOGRAMMETRIC PLOT REPORT

This report covering maps T-9161 through T-9168 is part of the Descriptive Report for T-9167 and is filed in the General Files, Division of Photogrammetry.
<table>
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INdex)</th>
<th>LATITUDE OR θ-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tr>
<td>AIRWAY BEACON No. 22 (near ORR MILL)</td>
<td>U.P. 1906</td>
<td>28 51</td>
<td>154.7 (301.5)</td>
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<td></td>
<td>P.176</td>
<td>80 52</td>
<td>183.7 (362.5)</td>
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<td>ALLEN'S (T.B.) HOUSE, 1906</td>
<td>P.804</td>
<td>28 52</td>
<td>395.0 (775.2)</td>
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<td>80 50</td>
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<td>LAGOON, 1934</td>
<td>P.124</td>
<td>28 51</td>
<td>909.7 (1819.4)</td>
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<td></td>
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<td>80 46</td>
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<td>BEAR, 1874</td>
<td>P.148</td>
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<td>20.1 (39.4)</td>
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<td></td>
<td></td>
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<td>EXTRA, 1940</td>
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<td>SHILOH, 1934</td>
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<td>SCOTT, 1940</td>
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<td>28 46</td>
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<td>80 48</td>
<td>643.2 (1286.4)</td>
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<td>EDGAR, 1934</td>
<td>P.124</td>
<td>28 45</td>
<td>547.5 (1095.0)</td>
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<td></td>
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<td>80 45</td>
<td>1147.8 (2295.6)</td>
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<td>CAMPBELL (north west base), 1875</td>
<td>P.177</td>
<td>28 45</td>
<td>235.0 (470.0)</td>
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<td>ROSS POINT, 1874, ECCENTRIC, 1934</td>
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<td>28 48</td>
<td>488.0 (976.0)</td>
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<td></td>
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<td>80 45</td>
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<td>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</td>
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<td>PT OPPOSITE CENTER</td>
<td>TRAVERSE N.A. 1927</td>
<td>48J-152</td>
<td>28 51 47.326</td>
<td>1457.0 (390.2)</td>
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<td>PT OPPOSITE CENTER</td>
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<td>48J-153</td>
<td>28 50 23.998</td>
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<td>S.P. CAT, 1934</td>
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<td>28 49 00.057</td>
<td>1.8 (1845.4)</td>
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<td>GUARD STATION,</td>
<td>Trktrs</td>
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<td>28 51 27.687</td>
<td>852.5 (994.7)</td>
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<td>O-010, 1949</td>
<td>Wash Office</td>
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<td>28 51 50.699</td>
<td>1560.8 (286.3)</td>
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<td>O-011, 1949</td>
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<td>28 51 49.908</td>
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<td>28 51 49.836</td>
<td>1534.3 (312.9)</td>
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<td>OAK REFERENCE MARK NO. 4, 1949</td>
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<td>28 52 23.884 80.71</td>
<td>73.5 (1111.9)</td>
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<td>KIR (USE)</td>
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<td>Y=147.253, 26</td>
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<td>X- GP's R891</td>
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</table>
See Descriptive Report T-9167 for Photogrammetric Plot Report.

31. **DELINEATION**

The manuscript was delineated by the graphic method.

Photographs were clear and of good scale. Field inspection was adequate for most of the delineation. All questionable areas or features have been noted on the discrepancy overlay. *See item 51*

32. **CONTROL**

There was sufficient control to accurately cut in detail points needed for delineation. There was positive identification and good placement of all control, primary and secondary. U.S.E.D. station KIR was recovered and submitted on Form 524 as a recoverable topographic station whereas Form 526 should be used since it is a triangulation station with a plane coordinate position. Form 526 is being submitted with this report.

33. **SUPPLEMENTAL DATA**

General Land Office Plats.

34. **CONTOURS AND DRAINAGE**

Contours east of the beach ridge were reshaped as recommended by the field inspector in "Notes to the Compiler." No further difficulty was encountered in transferring contours to the map manuscript.

35. **SHORELINE AND ALONGSHORE DETAILS**

The field inspection was adequate for accurate delineation of the shoreline and other alongshore details.

No low water line has been shown; see Item 8. *See item 67*

36. **OFFSHORE DETAILS**

No unusual difficulties were encountered in the delineation of offshore features which consisted mainly of spoil islands and shoal areas along the Intracoastal Waterway.
37. **LANDMARKS AND AIDS**

One landmark (pending field edit investigation) five non-floating aids, and one aeronautical aid were identified and listed on Form 567; see Item 11. The Forms 567 are submitted with this report.

Copies attached.
See also Items 52 & 68.

38. **CONTROL FOR FUTURE SURVEYS**

The following Forms 524 are being submitted herewith:

1 Az. Mark  
9 Topographic Stations  
2 Section Corners  
1 1/4 Section Corner  
6 Corner Monuments on Grant Lines  See Item 57.  
See Item 32 in regard to topographic station KIR

The topographic stations have been listed and included in Item 49.

39. **JUNCTIONS**

This quadrangle joins survey T-9162 on the north, T-9163 on the west, T-9165 on the east, and T-9167 on the south.

All junctions are in agreement.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement necessary. See Item 53
41. PUBLIC LAND LINES

The public land lines and grant lines have been constructed in red pencil on the map manuscript and will be inked after verification by the field editor.

Section lines have been constructed also on the photographs along the outer beach (as requested by the field party) to aid the field editor in further investigation. See item 69.

46. COMPARISON WITH EXISTING MAPS

There are no topographic quadrangles of the area available for comparison.

Comparison was made with U.S. G. & G.S. Planimetric Maps No. 4531 and No. T-4440-B, scale 1: 20,000 compiled in 1930. Only minor changes have taken place which would naturally be expected during such an interval of time. See also item 62.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 844, scale 1: 40,000, published May 1942 (3rd Edition), bearing a print date of June 21, 1948.

The maps listed under Item 46 are the main source of the planimetry on the foregoing chart and the same differences apply. See item 65.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved and Forwarded:

Ross A. Gilmore, 11/44
Chief of Party.

Richard A. Reece
Cartographic Aid
49. **NOTES FOR THE HYDROGRAPHER**

There follows a list of topographic stations that will be useful to the hydrographer:

- **LOOK**, 1949
- **PETE**, 1949
- **SAME**, 1949
- **STAN**, 1949
- **SLIP**, 1949
- **HOUR**, 1949
- **MITT**, 1949
- **PAGE**, 1949
- **GRID**, 1949
- **LAGOON AZ.MK. 1934**
- **SHILOH AZ. MK. 1934** (See item 13)
50. PHOTOGRAMMETRIC OFFICE REVIEW

T-9164


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy  RAW  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  RAW  7.  8. Bench marks  RAW

ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines  RAW  32. Public land lines  RAW

MISCELLANEOUS

33. Geographic names  RAW  34. Junctions  RAW  35. Legibility of the manuscript  RAW  36. Discrepancy overlay

Revised by: (Signature)

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler  Supervisor

43. Remarks:  M-2601-12
51. **METHODS**

The field edit of this quadrangle was accomplished by traversing, via truck, all passable roads, via boat, and by walking to other areas in which the reviewer requested information or for a general check on the adequacy of the map compilation.

Planimeter, hand level, sextant, and tape methods were used to make corrections and additions.

All corrections, additions and deletions have been noted on the field edit sheet.

The reviewer's questions are answered on the discrepancy prints whenever possible.

A legend appears on the field edit sheet indicating the different colored inks used for the various corrections, additions, and deletions.

52. **ADEQUACY OF COMPILATION**

The map compilation is believed to be adequate and complete with the corrections added by the field editor.

53. **MAP ACCURACY**

The horizontal position of the map detail appears to be good.

In regards to the reviewer's question concerning spot elevations and displacement of contours near questionable elevations, in order for the topographer to show the contour it was necessary to exaggerate. This was due to the fact that the 15-foot contour runs along a very, very, narrow sand dune. The spot elevations are correct, the horizontal placement of the contours have, of a necessity, been displaced. Therefore, either delete the spot elevations or show them off to one side and arrow to their position or draft this contour so that there is very little space between their parallel sides.
54. RECOMMENDATIONS

None

55. EXAMINATION OF PROOF COPY

It is believed that Frank P. Schuster, County Engineer for Brevard County, Titusville, Florida is best qualified to examine a proof copy of this quadrangle.

56. AIDS TO NAVIGATION

One light, Mosquito Lagoon Lt. 35, was located on the field edit sheet by planetable. Form 567 Submitted.

One landmark, CHIMNEY, latitude 28° 52' 31"; longitude 80° 50' 12", previously listed on Form 567 is recommended for charting. See Item 68.

57. BOUNDARY MONUMENTS

Several boundary monuments were searched for, but, only two recovered, these have been shown on the field edit sheet since they were located by planetable methods.

Information concerning a point on the Volusia-Brevard county line has been indicated on the Section Line discrepancy print.

A thorough search was made for monuments on line of Section lines and Range line on the ocean beach, but, to no avail. Mr. William E. Swope, Jr., Registered Surveyor, 124 Canal Street, New Smyrna Beach, Florida, was interrogated in regards to monuments in this vicinity, but according to his statement no monuments exist.

See Item 69

Approved and Forwarded:

Ross A. Gilmore
Chief of Party

James E. Halden
December 29, 1949.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by Richard A. Reese, Tampa Photo rammetric Office.

George E. Morris, Jr., Chief of Party.

Lieut. Comdr.

<table>
<thead>
<tr>
<th>STATE</th>
<th>FLORIDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>MOSQUITO LAGOON LIGHT NO. 13</td>
<td></td>
</tr>
<tr>
<td>MOSQUITO LAGOON LIGHT NO. 27</td>
<td></td>
</tr>
<tr>
<td>MOSQUITO LAGOON LIGHT NO. 35</td>
<td></td>
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<tr>
<td>MOSQUITO LAGOON LIGHT NO. 42</td>
<td></td>
</tr>
<tr>
<td>MOSQUITO LAGOON LIGHT NO. 46</td>
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</tr>
</tbody>
</table>

AERO BEACON - Rotating beacon atop skeleton steel tower 76 ft. high. (AERIAL BEACON NO. 22 1934)

<table>
<thead>
<tr>
<th>POSITION</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radial Plot</td>
<td>7-9154</td>
<td>1949</td>
<td>x 844</td>
</tr>
</tbody>
</table>

Note: All structure descriptions agree with "Light List Intracoastal Waterway, June 1, 1948".

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if reetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
TO BE CHARTED

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

Stanley J. Hothorn
Cartographer (Photo)

George E. Morris, Jr.
Chief of Party
Lieut. Comdr.

**STATE** FLORIDA

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOUSE</td>
<td>Chimney, center of north-south gable of two story yellow clapboard, house atop prominent knoll, 26 ft. high. (ALLEN'S (E.P.) HOUSE, 1906, 1932)</td>
<td>28° 52', 395' 00.0, 60 50 396.8</td>
<td>1927</td>
<td>Triangulation, 1906</td>
<td>x 844</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual chart survey sheets. Information under each column heading should be given.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be (deleted from) the charts indicated.

The positions given have been checked after listing by

Richard A. Reese  
Tampa Photogrammetric Office  
Ross A. Gilmore  
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>FLORIDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>MOSQUITO LAGOON LT. NO. 35</td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td></td>
</tr>
<tr>
<td>SIGNAL NAME</td>
<td></td>
</tr>
<tr>
<td>LATITUDE</td>
<td>28 46</td>
</tr>
<tr>
<td>LONGITUDE</td>
<td>1529 80 46 905</td>
</tr>
<tr>
<td>DATUM</td>
<td>NA 1927</td>
</tr>
<tr>
<td>METHOD OF LOCATION AND SURVEY NO.</td>
<td>Radial Plot</td>
</tr>
<tr>
<td>DATE OF LOCATION</td>
<td>1949</td>
</tr>
<tr>
<td>CHARTS AFFECTED</td>
<td>844</td>
</tr>
</tbody>
</table>

Filed as part of Nautical Chart Letter L19 (1950)

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

<table>
<thead>
<tr>
<th>STATE</th>
<th>PHOTOGRAMMETRIC REVIEW SECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLORIDA</td>
<td>NONFLOATING AIDS OR LANDMARKS FOR CHARTS</td>
</tr>
</tbody>
</table>

### Charting Name and Description
- **LT. 35**
  - Mosquito Lagoon Lt. 35, Black Sq. Daymark with yellow border on white pile dolphin

### Position

<table>
<thead>
<tr>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 16</td>
<td>1505 50 46 879</td>
</tr>
</tbody>
</table>

### Datum
- N.A.

### Method of Location
- Planetary Dec 1927

### Date of Location
- T-91464 1949

### Chart Affected
- 844 2249

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*Filed as part of Nautical Chart Letter L19(1950)*

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I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be located on the charts indicated.

The positions given have been checked after listing by Everett H. Ramey.

<table>
<thead>
<tr>
<th>STATE</th>
<th>FLORIDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>House</td>
<td>Chimney, center of North-South gable of two-story yellow clapboard house atop prominent knoll, 26 ft. high.</td>
</tr>
</tbody>
</table>

(Allen's (T.B.) House, 1906, 1932)

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have (indicated) been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by Everett E. Ramey

S. Y. Griffith  
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>FLORIDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>Chimney</td>
<td>Near center of two-story yellow clapboard house atop prominent knoll. 26 ft. high (Allen's (T.B.) House, 1906)</td>
</tr>
</tbody>
</table>

| POSITION |
| LATITUDE | LONGITUDE |
| o | D.M. METERS | o | D.P. METERS |
| 28 | 52 | 395.0 | 80 | 50 | 396.8 |

| DATUM | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION |
| NA | Triangulation | 1906 |

| CHARTS AFFECTED |
| x | 841 |

Note - Name change submitted as part of Field Edit Report for Topographic Survey T-9164, filed in General Files, Division of Photogrammetry.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
GEOGRAPHIC NAME LIST

ATLANTIC OCEAN
BRACON "H2" CAMP
BIRD ISLAND
BOATHOUSE POINT
BULL HILL
CAT HAMMOCK
COOT CREEK
EAST CHANNEL
FLORIDA EAST COAST RAILROAD
GEORGES SLough
GEORGES FLATS
GLORY HOLE
GRASSY POINT
GRIFFIS BAY
HOLE IN THE WALL
INDIAN RIVER
INTRACOASTAL WATERSWAY
KUHL DOCK
LYRATTA DOCK
MIDDLE ISLAND
MOSQUITO LAGOON
OAK HILL
ONION PARCH ISLAND
PATTILLO CREEK
PLANTATION ISLAND
U.S. HIGHWAY NO 1
SCOTTSMOOR
SHILOH
SHILOH CAMP
TIGER SHOAL
TURNBULL CREEK
VANNS ISLAND
VANNS SLough

BREVARD CO. GAME REFUGE
ANTELM GAY GRANT
BERNARDO SEGUI GRANT
DOMINGO ACOSTA GRANT
JOHN LOW GRANT
JOHN McINTOSH GRANT
JOE, WALES GRANT
JOSEPH DELESPINE GRANT
LUCAS CRAYON GRANT
PABLO ROSETTE GRANT
H.M. GOMEZ GRANT
PETER FOUCHARD GRANT
WM. GAVIN GRANT

BIG FLOUNDER CREEK
PREACHERS ISLAND

BREVARD CO.

VOLUSIA CO.

Fla. Hy. 3
Fla. Hy. 5* = Decis. of B G N.
Fla. Hy. 410* = Name approved
Fla. Hy. A1A

Not listed on Fla. Hy. Map

a. j. w.
Review Report
Topographic Map T-9164
22 January 1951

62. Comparison with Registered Topographic Surveys.

| T-1415 | 1:20,000 | 1875 |
| 4345  | "       | 1928 |
| 4440  | "       | 1928 |
| 4530  | "       | 1928 |
| 4531  | "       | 1928 |
| 6821  | 1:10,000 | 1941 |

Survey T-9164 supersedes these prior surveys for nautical charting purposes for the area of this survey.

63. Comparison with Maps of Other Agencies. - None

64. Comparison with Contemporary Hydrographic Surveys. - None

65. Comparison with Nautical Charts.

| 844  | 1:40,000 | 48 - 6/21 |
| 1245 | 1:80,000 | 48 - 3/15 |

Chart 844 shows several "swash" rocks in the portion of Mosquito Lagoon that is covered by this survey. These were inspected by the field editor and found to be nonexistent.

66. Adequacy of Results and Future Surveys. - This map meets the National Standards of Map Accuracy and complies with project instructions.

67. Low-Water Line. - The low-water line was positioned by the field editor by referencing at intervals to identifiable points on the map.

68. Landmarks. - Forms 567 for charting landmark CHIMNEY and deleting landmark HOUSE were submitted to the Division of Charts at the time of this review in accordance with Item 56. The status of the Coast Guard Station, referred to in Item 11, was investigated by the field editor. The buildings were reported as in ruins and the chimney as destroyed.

69. Boundary and Section Lines. - The grant lines on this map were for most part positioned by referencing to some line of culture or to field identified monuments. These lines agree closely with the General Land Office measurements. The eastern limit of the Joseph Delespine Grant and the Antelme Gay Grant were plotted in accordance with the General Land Office Measurements.

Some contradiction exists between field notes of the field
inspection party and the field edit party in regards to the position of the Volusia County-Brevard County line. It remains a question whether the line is at the edge of a mapped road along the west limit of the map or at the center of the road.

Section lines on the outer bar were positioned by plotting General Land Office plat measurements. The plots were so generalized that it was impossible to match features. In other parts of the map, there was some recovery of monuments and most lines are reliable.

Reviewed by:

Everett H. Ramey

APPROVED

S. J. Sifflth
Chief, Review Section
Division of Photogrammetry

A. D. Edmondson
Chief, Nautical Chart Branch
Division of Charts

M. D. Reading
Chief, Div. of Photogrammetry

W. M. Assaf
Chief, Div. of Coastal Surveys