

9164

*oak hill Fla.  
Navy*

Diag. Cht. No. 1245

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	TOPOGRAPHIC
Field No.	Fig- 30 (48) Office No.
LOCALITY	
State	FLORIDA
General locality	EAST CO. ST
Locality	VOLUSIA & BREVARD COUNTIES
194	
CHIEF OF PARTY	
G.E. Morris, Jr., Chief of Field Party	
P.A. Gilmore, Tampa Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	Sept 4 - 1951

9164

DATA RECORD

T-9164

Project No. (II): Ph-30(48)      Quadrangle Name (IV): ~~Maytown, S.E.~~

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 (III): 1: 20,000      Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): 11-15-49      Date reported to Nautical Chart Branch (IV):

Applied to Chart No.      Date:      Date registered (IV): 2-21-51

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

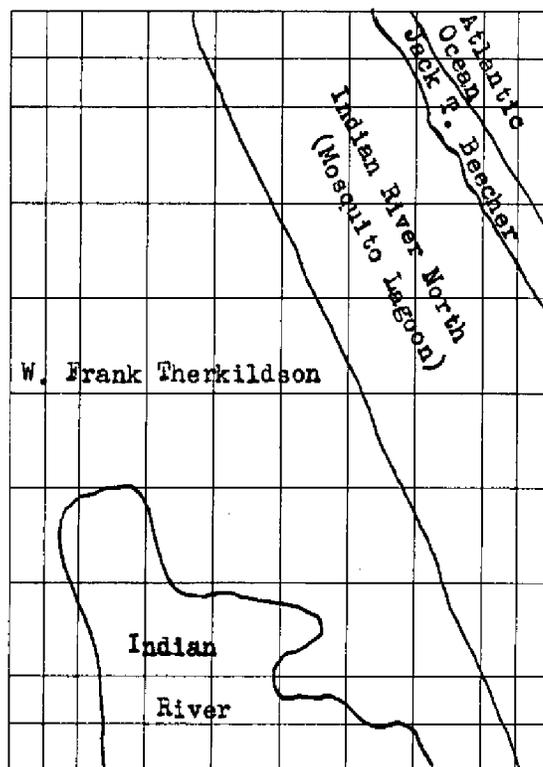
Lat.: 28° 47' 29.491" (907.9m)      Long.: 80° 48' 31.602" (857.1m)      Adjusted ~~Longitude~~

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

Y= 1, 620, 468.50      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) (#1)

DATA RECORD

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

2 February 1949  
Date: 19 May 1949

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

28 January 1949  
Date: 22 March 1949

Completion Surveys by (II): James E. Hundley

Date: Dec 1949

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.)

Date: Oct. 19, 1948

Projection and Grids checked by (IV): " "

Date: Oct. 19, 1948

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

Date: Nov. 8, 1948

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

Date: Nov. 9, 1948

Radial Plot ~~or Stereoscopic~~ M.M. Slavney  
~~Controlled by~~ (III):

Date: June 3, 1949

Planimetry  
Stereoscopic Instrument compilation (III):

Date:

Contours

Date:

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

Date: Aug. 1949

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

Date: Sept. 1949

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

Date: Sept. 1949

Camera (kind or source) (III): U.S. C. & G.S. Single-lens

Number	Date	PHOTOGRAPHS (III)		
		Time	Scale	Stage of Tide
48J-148-150	2-18-48	13:56-58	1: 20,000	1.7
48J-152-154	"	14:04-05	"	1.7
48J-674-676	4-22-48	11:37	"	
48J-519-522	2-21-48	13:30-32	"	
48J-496-500	2-21-48	13:05-07	"	

Tide (III)

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

Ratio of Ranges	Mean Range	Spring Range
1.0	4.5	5.3
0.5	2.3	2.7

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

Date: 22 Jan 1951

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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*  
 Number of Temporary Photo Hydro Stations established (III): *none*

*(Also Forms 524 for 11 boundary monuments & Form M-2226-12 for Az. Mk.)*

Remarks:

## Summary to Accompany T-9164

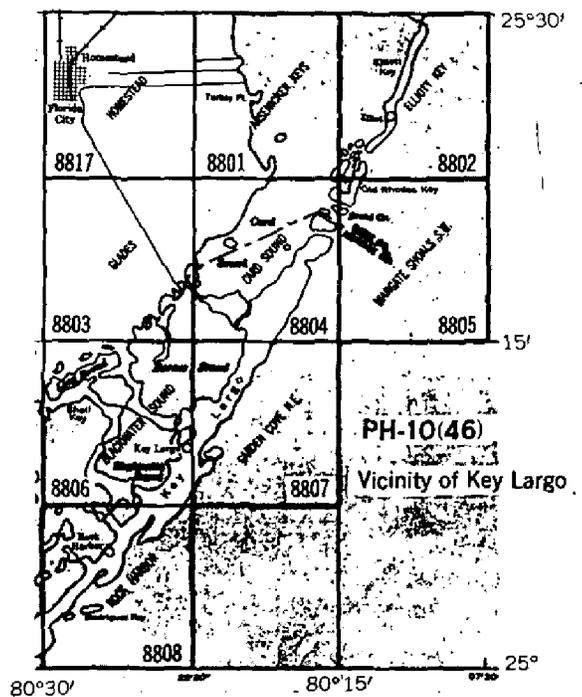
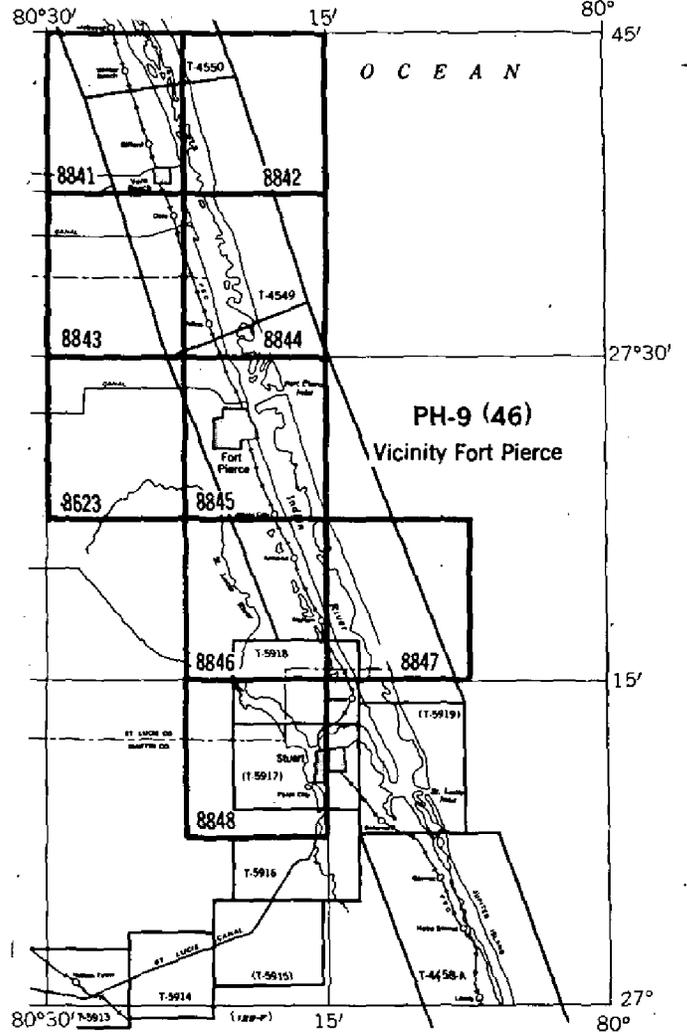
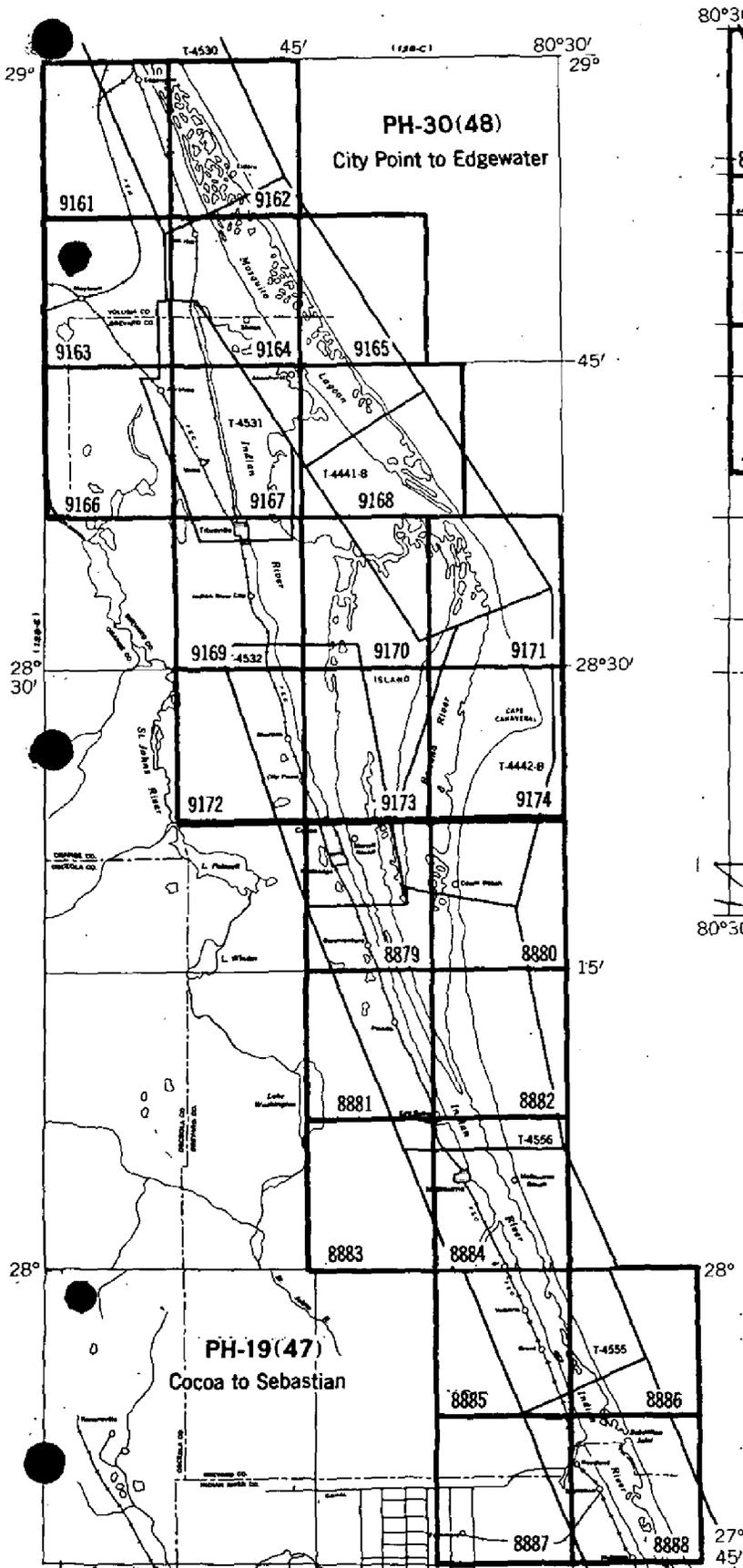
Topographic map T-9164 is one of fourteen similar maps in project Ph-30(48) and is in the northern part of the project. It includes *portions* of the Atlantic Ocean, the Mosquito Lagoon, and the Indian River and land area adjacent.

Project Ph-30(48) 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 planetable methods.

The manuscript was compiled at a scale of 1:20,000 and covers  $7\frac{1}{2}'$  in latitude by  $7\frac{1}{2}'$  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.

# TOPOGRAPHIC MAPPING PROJECTS

## FLORIDA EAST COAST



FIELD INSPECTION REPORT  
 QUADRANGLE T-9164  
 N 28°45' - W 80°45' / 7.5  
 PROJECT PH-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. Navin, 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.C. & G.S. stations were searched for, twelve were recovered, and nine were identified.

One U.S.E. 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, *filed in General Files*

*Division of Photogrammetry.*

5. VERTICAL CONTROL

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

Four third-order U.S.E. 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 0.40 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 planetable 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.

Contouring was done on the following photographs: 48-J-152(2 of 2), 48-J-154, 48-J-496(2 of 2), 48-J-498(2 of 2), 48-J-499(2 of 2), 48-J-501, 48-J-519(2 of 2), 48-J-520, 48-J-521, 48-J-522, and 48-J-674(1 of 2).

#### 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.

Shoreline inspection has been shown on the following photographs: 48-J-146, 48-J-148, 48-J-152(1 of 2), 48-J-153, 48-J-496(1 of 2), 48-J-497 (1 of 2), 48-J-498(1 of 2), 48-J-499(1 of 2), 48-J-500, and 48-J-519(1 of 2).

#### 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 48-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 <sup>SIX</sup> ~~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-497(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.*  
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.

MAP T-9164 PROJECT NO. Ph-30(48) SCALE OF MAP 1: 20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
AIRWAY BEACON No. 22 (near OAK HILL) 1934	G.P.s	N.A. 1927	28 51	50.207				1545.7	( 301.5)		
	P.176		80 52	06.777				183.7	(1442.5)		
ALLEN'S (T.B.) HOUSE, 1906	"	"	28 52	12.83				395.0	(1452.2)		
	P.804		80 50	14.64				396.8	(1229.3)		
LAGOON, 1934	"	"	28 51	29.548				909.7	( 937.5)		
	P.124		80 46	36.879				999.6	( 626.7)		
BEAR, 1874	"	"	28 51	00.653				20.1	(1827.1)		
	P.148		80 46	18.378				498.2	(1128.2)		
EXTRA, 1940	"	"	28 47	04.833				148.8	(1698.4)		
	P.558		80 50	13.180				357.5	(1269.9)		
SHILOH, 1934	"	"	28 47	29.491				907.9	( 939.3)		
	P.147		80 48	31.602				857.1	( 770.2)		
SCOTT, 1940	"	"	28 46	15.067				463.8	(1383.3)		
	P.558		80 50	42.843				1162.2	( 465.4)		
BUSH, 1940	"	"	28 45	33.949				1045.1	( 802.0)		
	P.558		80 48	23.708				643.2	( 984.6)		
EDGAR, 1934	"	"	28 45	15.429				475.0	(1372.1)		
	P. 124		80 45	54.499				1478.6	( 149.2)		
CAMPBELL ( north west base), 1875	"	"	28 45	07.633				235.0	(1612.1)		
	P.177		80 45	48.299				1310.4	( 317.5)		
ROSS POINT, 1874, ECCENTRIC, 1934	"	"	28 48	15.862				488.3	(1358.8)		
	P.148		80 47	49.081				1331.0	( 296.1)		
SOUTH 2, (USE), 1934	"	"	28 45	09.926				305.6	(1541.5)		
	P.177		80 45	33.333				904.4	( 723.5)		

MAP T-9164 PROJECT NO. Ph-30(48) SCALE OF MAP 1: 20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $y$ -COORDINATE LONGITUDE OR $x$ -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)		FORWARD	(BACK)	
PT OPPOSITE CENTER 48J-152	TRAVERSE N.A. 1927	"	28 51 47.326					1457.0 ( 390.2)		Sub pt
			80 46 49.302					1336.2 ( 289.9)		
PT OPPOSITE CENTER 48J-153	"	"	28 50 23.998					738.8 (1108.4)		Sub pt
			80 45 55.194					1496.2 ( 130.3)		
S.P. CAT, 1934 <del>SUNNY VALLEY</del>	Comp.	"	28 49 00.057					1.8 (1845.4)		
			80 45 04.261					115.5 (1511.4)		
<del>GUARD STATION, CHERRY 6-9 1928</del>	<del>Letter X from H.O. 5/9/49</del>	"	28 51 27.697					852.5 ( 994.7)		Station destroyed
			80 46 36.933					984.7 ( 641.6)		
O-010, 1949	Wash. Office	"	28 51 50.699					1560.8 ( 286.3)		3rd order Traverse
			80 52 06.529					176.9 (1449.2)		
O-011, 1949	"	"	28 51 49.908					1536.4 ( 310.7)		
			80 51 18.286					495.6 (1130.6)		
O-012, 1949	"	"	28 51 49.836					1534.3 ( 312.9)		
			80 51 05.771					156.4 (1469.8)		
OAK REFERENCE MARK No. 4, 1949	"	"	28 52 23.884					735.3 (1111.9)		
			80 51 06.161					167.0 (1459.0)		
KIR (USE)	"	"	$X = 553,077.47$							
			$Y = 1647,253.26$							
* GPS R891	"	"								

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COMPILATION REPORT  
T-9164

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 56 & 68.*

38. CONTROL FOR FUTURE SURVEYS

The following Forms 524 are being submitted herewith:

1 Az. Mark

*Also see item 19.*

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. C. & 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

*Richard A. Reece*  
Richard A. Reece  
Cartographic Aid

Approved and Forwarded:  
*Ross A. Gilmore*  
Ross A. Gilmore, 11/1/49  
Chief of Party.

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  
MITE, 1949  
PAGE, 1949  
GRID, 1949  
LAGOON AZ.MK. 1934  
SHILOH AZ.MK. 1934

(see item 19) *SVR*

50. PHOTOGRAMMETRIC OFFICE REVIEW

T-9164

- 1. Projection and grids RRW
- 2. Title RRW
- 3. Manuscript numbers RRW
- 4. Manuscript size RRW

CONTROL STATIONS

- 5. Horizontal control stations of third-order or higher accuracy MMS
- 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) RRW
- 7. ~~Photostation~~ RRW
- 8. Bench marks RRW
- 9. Plotting of sextant fixes RRW
- 10. Photogrammetric plot report RRW
- 11. Detail points RRW

ALONGSHORE AREAS

(Nautical Chart Data)

- 12. Shoreline RRW
- 13. Low-water line RRW
- 14. Rocks, shoals, etc. RRW
- 15. ~~Beaches~~ RRW
- 16. Aids to navigation RRW
- 17. Landmarks RRW
- 18. Other alongshore physical features RRW
- 19. Other along-shore cultural features RRW

PHYSICAL FEATURES

- 20. Water features RRW
- 21. Natural ground cover RRW
- 22. Planetable contours RRW
- 23. Stereoscopic ~~information~~ RRW
- 24. Contours in general RRW
- 25. Spot elevations RRW
- 26. Other physical features RRW

CULTURAL FEATURES

- 27. Roads RRW
- 28. Buildings RRW
- 29. Railroads RRW
- 30. Other cultural features RRW

BOUNDARIES

- 31. Boundary lines RRW
- 32. Public land lines RRW

MISCELLANEOUS

- 33. Geographic names RRW
- 34. Junctions RRW
- 35. Legibility of the manuscript RRW
- 36. Discrepancy overlay RRW
- 37. Descriptive Report RRW
- 38. Field inspection photographs RRW
- 39. Forms RRW

40. Robert E. Wagner  
 Reviewer

Jesse A. Giles  
 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:

## FIELD EDIT REPORT T-9164

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.

Planetable, 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. EHR

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  
Ross A. Gilmore 1/31/50  
Chief of Party

James E. Hundley  
James E. Hundley, Carto. (Photo.)  
December 29, 1949.













48. GEOGRAPHIC NAME LIST

ATLANTIC OCEAN\*  
 BEACON "42" 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 WATERWAY\*  
 KUHLE DOCK\*  
 LYRATTA DOCK\*  
 MIDDLE ISLAND\*  
 MOSQUITO LAGOON\*  
 OAK HILL\*  
 ONION FARM ISLAND\*  
 PATILLO CREEK\*  
 PLANTATION ISLAND\*  
 U S HIGHWAY NO 1\*  
 SCOTTSMOOR\*  
 SHILOH\*  
 SHILOH CAMP\*  
 TIGER SHOAL\*  
 TURNBULL CREEK\*  
 VANNS ISLAND\*  
 VANNS SLOUGH\*  
 FLORIDA\*

BIG FLOUNDER CREEK\*

PREACHERS ISLAND\*

BREVARD CO.\*

VOLUSIA CO.\*

Fla. Hy. 3\*

Fla. Hy. 5\*

Fla. Hy. 410\*

Fla. Hy. A1A\*

BREVARD CO. GAME REFUGE\*

ANTELM GAY GRANT\*

BERNARDO SEGUI GRANT\*

DOMINGO ACOSTA GRANT\*

JOHN LOW GRANT\*

JOHN MCINTOSH GRANT\*

JOSEPH WALES GRANT\*

JOSEPH DELESPINE GRANT\*

LUCAS CRAYON GRANT\*

PABLO ROSETTE GRANT\*

H.M. GOMEZ GRANT\*

PETER FOUCHARD GRANT\*

WM. GARVIN GRANT\*

*Not listed on Fla. Hy Map*

\* = Decis. of B.G.N.

• = Name approved

12-1-49

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 "awash" 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 Antelm Gay Grant were plotted in accordance with the General Land Office Measurements.

Some contradiction exists between field notes of the field

Page 2  
T-9164

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 plats 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  
Everett H. Ramey

APPROVED

S. V. Griffith  
Chief, Review Section *B.M. & R.F.*  
Division of Photogrammetry

H. C. Edmister  
Chief, Nautical Chart Branch  
Division of Charts

J. S. Reading  
Chief, Div. of Photogrammetry

W. M. Scrafe  
Chief, Div. of Coastal Surveys  
*L.S.H.*