

9163

Diag. Cht. No. 1245

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. PH-30 (48) Office No. T-9163

LOCALITY

State FLORIDA

General locality EAST COAST

Locality VOLUSIA COUNTY & BREVARD COUNTY

194

CHIEF OF PARTY

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

R.A.Gilmore, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE June - 26 - 1951

DATA RECORD

T-9163

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, Fla.

Officer-in-Charge: Ross A. Gilmore

Instructions dated (II) (III): 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): 6-17-49

Date reported to Nautical Chart Branch (IV): 11-1-49

Applied to Chart No.

Date:

Date registered (IV): 21 Feb 1951

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): VOLUSIA 1934

Lat.: 28° 47' 28."979 (892.1m) Long.: 80° 53' 03."195 (86.7m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV): TRANSVERSE MERCATOR State: FLORIDA Zone: EAST

Y= 1,620,385.60

X= 537,085.01

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.

Original contouring by John S.
Winter.

Check and revision of contours by
Jack T. Beecher.

DATA RECORD

Field Inspection by (II): John S. Winter

19 January 1949
Date: 23 May 1949Planetable contouring by (II): John S. Winter
Jack T. Beecher (check & revision)Date: 19 Jan - 26 Apr. 1949
5 May - 31 May 1949

Completion Surveys by (II): James E. Hundley

Date: Jan. 1950

Mean High Water Location (III) (State date and method of location):

Inapplicable

Projection and Grids ruled by (IV): W.E.W. (Washington Office)

Date: Nov. 19, 1948

Projection and Grids checked by (IV): " " "

Date: "

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

Date: May 31, 1949

Control checked by (III): R.J. Pate

Date: June 1, 1949

Radial Plot ~~229 stereoscopic~~~~contoured~~ by (III): M.M. Slavney

Date: June 30, 1949

Stereoscopic Instrument compilation (III):
Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): I.I. Saperstein

Date: Aug. 1949

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

Date: Sept. 1949

Elevations on Manuscript

checked by (II) (III): I.I. Saperstein III

Date: Aug. 1949

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

Number	Date	Time	Scale	Stage of Tide
48J-523	21 April 1948	1313	1: 20,000	inshore quadrangle
48J-539 thru 544	"	1344-1348	"	"
48J-572 thru 577	22 Apr. 1948	0908-1911	"	"
48J-587 thru 691	"	0923-0925	"	"
48J-647-648	"	1000	"	"
48J-673 thru 675	"	1135-1137	"	"

Tide (III)

Reference Station: *Inshore quadrangle*
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

Date: *1 Feb 1951*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): *65.3*

Shoreline (More than 200 meters to opposite shore) (III): *none*

Shoreline (Less than 200 meters to opposite shore) (III): *none*

Control Leveling - Miles (II): *72 4th Order **

Number of Triangulation Stations searched for (II): *8* Recovered: *23*** Identified: *17****

Number of BMs searched for (II): *0* Recovered: *0* Identified: *0*

Number of Recoverable Photo Stations established (III): *10 ENR*

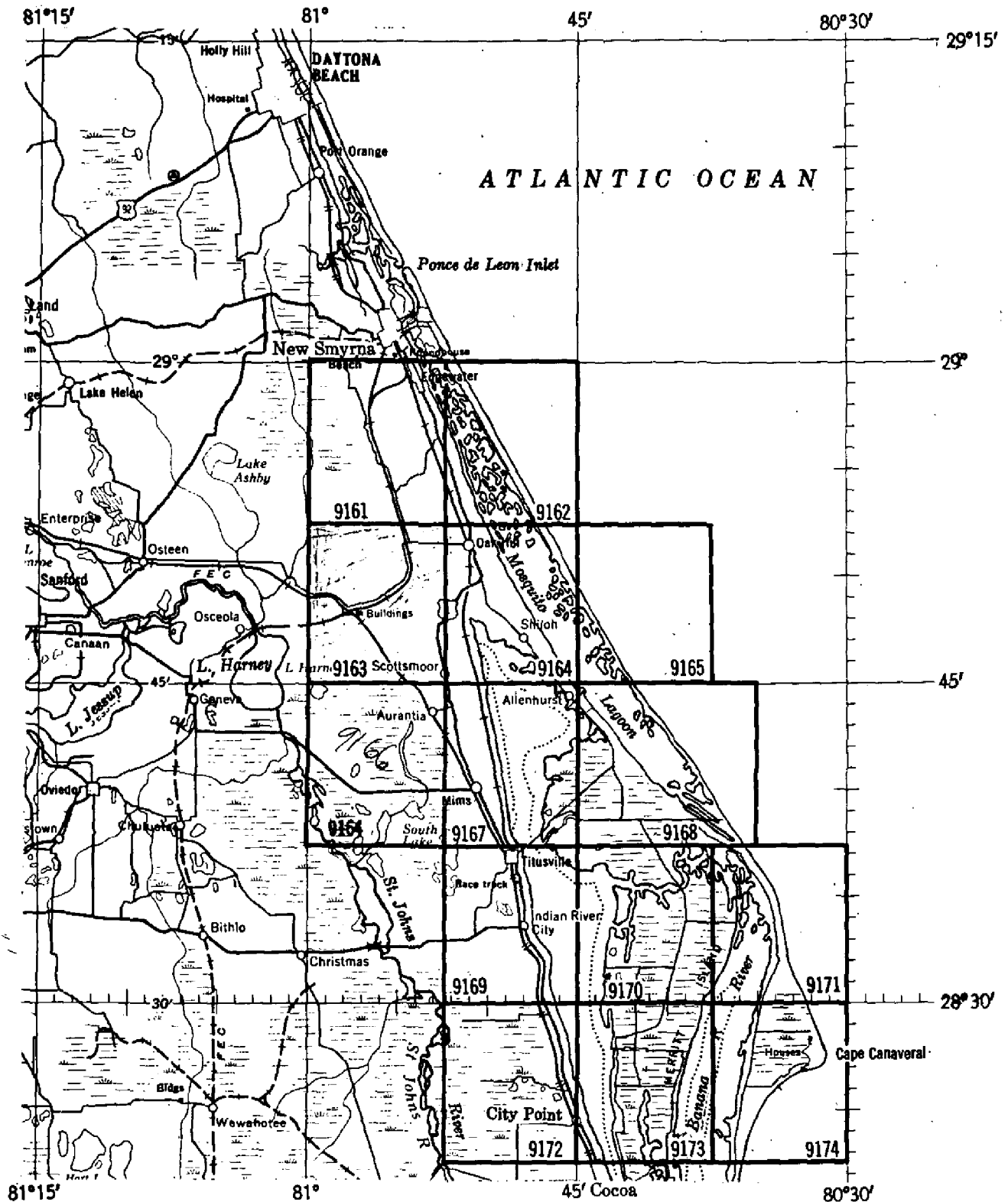
Number of Temporary Photo Hydro Stations established (III): *none*

Remarks:

- * Includes 17 miles of levels along 3rd order horizontal control traverse.
- ** Includes 17 3-rd order traverse stations, 3 of which are actually in quadrangle T-9164 but were not reported with that quadrangle.
- *** Includes 13 3-rd order traverse stations, 3 of which are actually in quadrangle T-9164, but were not reported with that quadrangle.

TOPOGRAPHIC MAPPING PROJECT PH-30(48)

FLORIDA, City Point to Edgewater



Compiled by the U. S. Coast and Geodetic Survey at scale 1:20,000
 Printed and distributed by the U. S. Geological Survey at scale of 1:24,000

Summary to Accompany T-9163

Topographic map T-9163 is one of fourteen similar maps in project Ph-30(48) and is in the northern part of the project. It comprises land area to the west of Indian River and has no navigable water within its limits.

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 map 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-9163 will include a cloth-mounted color print at a scale of 1:24,000, a cloth-mounted lithographic print at a scale of 1:20,000, and the descriptive report.

FIELD INSPECTION REPORT
 QUADRANGLE T-9163
 N 28°45' - W 80°52.5'/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),* and applicable General Instructions, except for the deviation noted in paragraph 16.

* *Copy filed in Office Files, Div. of Photogrammetry.*

The bulk of the horizontal control recovery and identification, and supervision of chaining for the Osceola - Oak third-order traverse was by James E. Hundley, Cartographer(Photo). Observations for the traverse were by George E. Morris, Jr., Chief of Party. Public land line recovery and identification was by Grover B. Torbert, Cartographic Survey Aid. Original contouring and field inspection was by John S. Winter, Cartographic Survey Aid. A check and revision of the original contouring was made by Jack T. Beecher, Cartographic Survey Aid.

Field work was begun 6 December 1948 and completed 7 June 1949.

1. DESCRIPTION OF THE AREA

Approximately 25% of the southeast part of this quadrangle is situated in the northwest corner of Brevard County, and all of the remaining area is in Volusia County.

All the quadrangle is land area of flat relief and consists largely of cypress swamp land thickly interspersed with small areas of semi-open prairie land and small intermittent ponds, with the exception of a large, low, poorly drained oak and palm hammock in the northeast corner of the quadrangle that provides the head waters for the part of Turnbull Creek that flows to Indian River. The absence of natural drainage subjects a large per cent of the low areas to seasonal inundation from rainfall.

U. S. Highway #1 runs through the extreme east portion of the south half of the quadrangle and the small, unincorporated village of Scottsmeer is along this highway in the southeast corner of the quadrangle. Two branch lines of the Florida East Coast Railway junction at the small community of Maytown in the west central part of the quadrangle and both branches continue westerly. The branch from the main line at Titusville connects directly with the Atlantic Coast Line approximately 18 miles west of the quadrangle. The branch also connects with the mainland at Edgewater to the north. With the exception of the area served by U. S. Highway #1 and the poorly improved Oak Hill-Maytown road, the remaining area is accessible only by a limited number of poor trails.

The area is completely undeveloped agriculturally and is very sparsely settled.

The main livelihoods of the area are: tourist trade at Scottsmeer, railway maintenance at Maytown, cattle ranching, and lumbering operations.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection is believed to be adequate and complete and has been shown on the contour photographs and photograph 48-J-544.

3. INTERPRETATION OF THE PHOTOGRAPHS

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

No vegetation growths unusual to this general area were encountered.

4. HORIZONTAL CONTROL

Within the quadrangle, one U.S.C. & G.S. station VOLUSIA 1934, was searched for, recovered, and identified. Three Florida Geodetic Survey stations were searched for, two were recovered, and one (J 6-A) was identified. J 7-2 was not identified because of its nearness to J 6-A.

West of the quadrangle (also project) at Osceola, two U.S.C. & G.S. stations were searched for and found destroyed. Two U.S.E. stations were searched for, recovered, and identified.

To supplement existing horizontal control, a third-order traverse was measured between triangulation station OSCEOLA (USE) 1935 in Seminole County and triangulation station OAK 1934 in Volusia County, in accordance with project instructions, and is the subject of a descriptive report titled "Osceola - Oak Traverse" submitted 13 April 1949, by George E. Morris, Jr., Chief of Party.* The traverse was computed on the Florida east zone state plane coordinate system by the Division of Geodesy.

** Report filed in General Files, Div. of Photogrammetry.*

5. VERTICAL CONTROL

There are no U.S.C. & G.S. bench marks within the quadrangle. Four bench marks were searched for west of the project, and three were recovered.

None of the Florida Geodetic Survey traverse stations within the quadrangles had established elevations.

62 temporary bench marks (includes 10 elevations left at marked horizontal control traverse stations) were set along 72 miles (includes 17 miles of levels along horizontal control traverse) of fourth order levels for contour control. The maximum error of closure was .68 ft. and all closures exceeding .30 ft. were adjusted.

See descriptive report for Osceola-Oak Traverse submitted 13 April 1949 by George E. Morris, Jr., Chief of Party, concerning fourth order levels along this traverse.

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.

A check in the densely wooded areas of contours not believed adequately controlled was made, and additional planetable traverses were run and some changes were necessary in the original contours. As a result of this extensive check and revision all contours are now believed to meet standard vertical accuracy specifications. *See item 53*

Planimeter elevations, in most cases, have been shown to the nearest foot on the photographs, and for this reason elevations in multiples of five feet may appear on either side of the contours.

Contouring was done on the following photographs: 48-J-523, 48-J-540 (1 of 2), 48-J-541(1 of 2), 48-J-542, 48-J-543(1 of 2), 48-J-572(1 of 2), 48-J-573, 48-J-574, 48-J-575(1 of 2), 48-J-576, 48-J-587, 48-J-588(1 of 2), 48-J-589(1 of 2), 48-J-590(1 of 2), 48-J-591, 48-J-644, 48-J-645, 48-J-646, 48-J-647(1 of 2), and 48-J-648.

7. MEAN HIGH WATER LINE

Inapplicable.

8. LOW WATER LINE

Inapplicable.

9. WHARVES AND SHORELINE STRUCTURES

Inapplicable.

10. DETAILS OFFSHORE FROM HIGH WATER LINE

Inapplicable.

11. LANDMARKS AND AIDS TO NAVIGATION

Inapplicable.

12. HYDROGRAPHIC CONTROL

Inapplicable.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields or aeronautical aids within the quadrangle.

14. ROAD CLASSIFICATION

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

15. BRIDGES

Inapplicable.

16. BUILDINGS AND STRUCTURES

Classified in accordance with Photogrammetry Instructions No.29, dated 1 October 1948 except that all buildings to be mapped have been circled on the field inspection photographs.

17. BOUNDARY MONUMENTS AND LINES

Four photostats of railway plans with land line information thereon have been referenced to the photographs and are submitted with the field data. Other information transferred from plans in the New Smyrna Beach office of the Florida East Coast Railway have been inked directly on the photographs. This information is only approximate, except where station numbers of the land lines are given, but is believed the best information available. Information shown on photograph 48-J-676 was obtained from Frank P. Schuster, Brevard County Surveyor, and the Forms 524 for two grant monuments shown were submitted with quadrangle T-9164.
See items 41, 56 and 67.

A search was made for several section corners in the vicinity of Maytown but only three full corners (one doubtful, shown on photograph 48-J-646 but Form 524 not submitted) and one quarter corner were recovered.

Two fence lines that are reputed to have been built along the property survey of the Low Grant have been delineated on one of the field photographs,* and the grant can be easily plotted from other points reported with quadrangle T-9161. * Photograph 48 J 575 *SNR*

Public land line identification has been shown on the following photographs: 48-J-540(2 of 2), 48-J-572(2 of 2), 48-J-590(2 of 2), 48-J-575(2 of 2), 48-J-588(2 of 2), 48-J-589(2 of 2), 48-J-646, and 48-J-676.

Other boundaries are the subject of a special boundary report for this entire project by Lowell I. Bass, Cartographic Survey Aid.

18. GEOGRAPHIC NAMES *SNV*

This is the subject of a special geographic names report for the entire project by Lowell I. Bass, Cartographic Survey Aid.

Submitted
8 June 1949

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

Approved and forwarded
8 June 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-9263

PROJECT NO. Ph-30(48)

SCALE OF MAP: 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 DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
								FORWARD	(BACK)	FORWARD (BACK)
VOLUSTA, 1934	G.P.	N.A.	28 47	28.979				892.1	(955.0)	
	P.124	1927	80 53	03.195				86.7	(1540.6)	
J-7-2, 1934	F.G.S. Brevard	"	1,617,346.19		7,346.19 (2,653.81)			2239.1	(808.9)	Not shown on manuscript
J-6A, 1934	"	"	537,433.56		7,433.56 (2,566.44)			2265.8	(782.3)	
	"	"	1,614,296.95		4,296.95 (5,703.05)			1309.7	(1738.3)	
Sub. Pt. VOLUSTA,	Comp.	"	538,265.39		8,265.39 (1,734.61)			2519.3	(528.7)	
			1,620,204.75		204.75 (9,795.25)			62.4	(2,985.6)	
Sub. Pt. UNDERHILL (U.S.E.)	Comp	"	537,487.15		7,487.15 (2,512.85)			2282.1	(765.9)	
			1,616,911.18		6,911.18 (3,088.82)			2106.5	(941.5)	Off manuscript
OSCEOLA Az. Mk. (reference Mk.No.3)	TRAVERSE & N.Y. Off.	"	490,595.67		595.67 (9,404.33)		*****	181.6	(2866.4)	
			1,620,103.56		103.56 (9,896.44)			31.6	(3016.4)	Off manuscript
OSCEOLA (A) 1949	"	"	479,786.02		9,786.02 (2,213.97)			2982.8	(65.2)	
			1,620,054.25		54.25 (9,945.75)			16.5	(3031.5)	Off manuscript
O-01, 1949	"	"	479,647.64		9,647.64 (352.36)			2940.6	(107.4)	
			1,621,819.16		1,819.16 (8,180.84)			554.5	(2493.5)	Off manuscript
O-01 Reference Mk. No. 1, 1949	"	"	482,330.85		2,330.85 (7,669.15)			710.4	(2337.6)	
			1,622,020.97		2,020.97 (7,979.03)			616.0	(2432.0)	Off manuscript
O-03, 1949	"	"	482,937.64		2,937.64 (7,062.36)			895.4	(2152.6)	
			28 47 56.984					1754.3	(92.9)	
O-03 Reference Mk. No. 1, 1949	"	"	80 59 27.117					735.4	(891.8)	
			28 47 59.131					1820.2	(26.8)	
O-04, 1949	"	"	80 59 18.054					489.6	(1137.5)	
			28 48 45.248					1393.0	(454.2)	
O-04, 1949	"	"	80 57 40.780					1105.7	(521.2)	✓

1 FT. = 3048006 METER

COMPUTED BY: B.F. Lampton

DATE Sept. 29, 1948

CHECKED BY: R.R. Wagner

DATE October 1, 1948

M-2368 12

UN

MAP T-9163

PROJECT NO. Ph-30(48)

SCALE OF MAP: 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	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)
O-0-5 1949	TRAVERSE N.Y. Off	N.A. 1927	28 48 57.980 80 56 21.068			1785.0 (62.2)			
O-05 Reference			28 48 59.567			571.3 (1055.8)			
Mk. No. 1, 1949	"	"	80 56 16.817			1833.8 (13.3)			
O-06, 1949	"	"	28 49 57.101			456.0 (1170.9)			
O-06 reference	"	"	80 54 44.226			1757.9 (89.2)			
Mk. No. 1, 1949	"	"	28 50 06.199			1199.0 (427.6)			
O-07, 1949	"	"	80 54 37.806			190.8 (1656.3)			
O-07 Reference	"	"	28 50 50.936			1024.9 (601.7)			
Mk. No. 1, 1949	"	"	80 54 28.916			1568.1 (279.0)			
O-09, 1949	"	"	28 50 56.139			783.8 (842.7)			
O-02, 1949	"	"	80 54 29.353			1728.3 (118.9)			
O-08, 1949	"	"	28 51 50.222			795.6 (830.7)			
O-02A, 1949	"	"	80 53 35.092			1546.1 (301.0)			
	"	"	28 47 53.687			951.1 (675.1)			
	"	"	81 00 21.687			1652.8 (194.4)			Off manuscript
	"	"	28 51 49.744			588.1 (1039.0)			
	"	"	80 54 50.743			1531.4 (315.7)			
	"	"	1,622,910.44			1375.2 (250.9)			
	"	"	498,067.77			887.1 (2160.9)			Off manuscript
	"	"				2459.1 (588.9)			

1 FT. = 3048006 METERS

COMPUTED BY: H.R. Wagner

DATE May 27, 1949

CHECKED BY: R.J. Pate

DATE May 31, 1949

M-2388 12

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PHOTOGRAMMETRIC PLOT REPORT

This report was submitted with the Descriptive Report for T-9167.

34. DELINEATION

The manuscript was delineated graphically from good scale, clear, single-lens photographs.

No unusual situation in reference to delineation was encountered.

The field inspection was adequate for an accurate delineation of the manuscript, except in those areas shown on the discrepancy overlay.

32. CONTROL

A number of traverse stations were established to supplement the very limited number of triangulation stations.

For adequacy of control identification see photogrammetric plot report, *filed in Gen. Files, Div. of Photogrammetry under T-9167.*

33. SUPPLEMENTAL DATA

Five sheets of "Right of Way and Track Map, Titusville, Branch," Florida East Coast Railway Company, dated June 30, 1916. Points on these plans were identified on the photographs, and with distances given were very helpful in establishing public land lines.

See item 67

34. CONTOURS AND DRAINAGE

No unusual difficulty was encountered in the compilation of contours. Many contours, however, were altered slightly to conform with drainage. *See item 53*

35. THROUGH 37.

Inapplicable.

38. CONTROL FOR FUTURE SURVEYS

Form 524 was submitted for each of five public land monuments and are being forwarded with this report. These monuments were either pricked directly on the photographs or identified by the substitute station method and located on the map manuscript by the radial plot method. *See item 56*

These stations will be of no use to the hydrographer as they are too far inland.

39. JUNCTIONS

T-9161 to the north: in agreement.

T-9164 to the east: in agreement.

T-9166 to the south: in agreement, except in southwest corner to be clarified by field editor.

There is no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement required.

41. SECTION CORNERS AND LINES

Section and grant lines on this quadrangle were constructed with the aid of General Land Office plats, railway right of way plans (see Item 33) and recovered section corners and grant monuments.

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Some lines were doubtful and these should be checked by the field editor as indicated on the section line discrepancy print.

In some cases grant lines were drawn on a fence line, as seen on the photographs, instead of adhering closely to distances and bearings shown on the General Land Office plats.

All lines will be inked after field edit verification. No precinct map of Volusia County was submitted but instead a Commissioner's District Map of Volusia county was included in the boundary report. According to Bulletin 788 E, Topographic Instructions, page 237, by the U.S. G.S., election precincts are the first major subdivision in Florida.

The field editor should submit precinct data for Volusia County.

46. COMPARISON WITH EXISTING MAPS

There are no topographic quadrangles available in this office for comparison.

Comparison was made with the following U.S. C. & G.S. planimetric maps:

T-4440-B 1: 20,000 Feb. 1930
T-4531 1: 20,000 Jan. 1930

These maps cover one half minute or less on the eastern edge of the quadrangle. The detail is in agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Inapplicable.

Approved and Forwarded:



Ross A. Gilmore, 10/21/49
Chief of Party.


I. I. Saperstein
Cartographic Aid

49. NOTES FOR THE HYDROGRAPHER

Inapplicable

T. 9163

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) _____ 7. ~~Photographic stations~~ ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~ 8. ~~Photogrammetric plot report~~ ~~XXXXXXXXXXXXXXXXXXXX~~ 9. ~~Detail points~~ ~~XXXXXXXXXXXX~~
 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Stumps _____ 13. Woods, Sheds, Etc. _____ 14. Bridges _____ 15. Woods _____
16. Stumps _____ 17. Woods, Sheds, Etc. _____ 18. Bridges _____ 19. Woods _____
Stumps _____

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. ~~23. Slope~~
~~instrument contours~~ 24. Contours in general J.G. 25. Spot elevations J.G. 26. Other physical
 features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines J.G.

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.
40. Jesse A. Giles Jesse A. Giles William A. Rasure William A. Rasure

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.

Supervisor

M-2661-12

FIELD EDIT REPORT T-9163

51. METHODS

The field edit of this quadrangle was accomplished by traversing, via truck, all passable roads, 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, theodolite, sextant, hand level and tape methods were used to make corrections and additions.

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

All additions, corrections and deletions have been shown on the field edit sheet, except those additional boundary monuments and points on boundary lines identified on the photographs.

All work shown on the photographs is properly referenced on the discrepancy prints or field edit sheet.

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

Field edit information appears on photographs 48J-540 (print #2), 572 (print #2), 575 (print #2), 588 (print #2), 589 (print #2), 590 (Print #2) and 646.

52. ADEQUACY OF COMPIATION

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

53. MAP ACCURACY

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

The contouring, in general, appears to be good. Two minor corrections were made in the contours.

54. RECOMMENDATIONS

Recommend that only one discrepancy print be made for field edit showing all discrepancies.

55. EXAMINATION OF PROOF COPY

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

56. BOUNDARY MONUMENTS & LINES

^{Six v.e.r.}
~~Four~~ additional boundary monuments were recovered and identified. Form 524's are submitted.

Information concerning 10 points on section lines was checked with or taken from "R/W and Track Maps," Florida East Coast Railway Company, dated June 30, 1916, filed in Roadmasters Office, New Smyrna Beach, Florida. This information appears on the photographs.

See item 67

Approved and Forwarded:

Ross A. Gilmore
Ross A. Gilmore, 2/2/50
Chief of Party.

James E. Hundley
James E. Hundley, Carto. (Photo.)
January 26, 1950.

Tampa Photogrammetric Office
Box 1689, Tampa, Fla.

February 1, 1950

To: Mr. James E. Hundley
U. S. Coast and Geodetic Survey
General Delivery
Titusville, Fla.

Subject: Public Land Lines, T-9163

We are unable to construct the north-south section lines on a portion of the subject quadrangle.

It is probably that you can clarify the discrepancies as they fall along Florida State Highway 410 and Florida East Coast Rail Road.

An ozalid print and photographs covering the area are being returned to you under separate cover with sufficient explanatory notes being shown on the ozalid print.

RAG/c

Ross A. Gilmore
Lieut. Comdr. USCGS
Officer in Charge
Tampa Photogrammetric Office

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

POST OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

BOUNDARY MONUMENTS.

ref; Ozalid print T-9163
item 6 T, Review Report

All questionable points were rechecked either in the field or against RR Plans and found to be in agreement with previous indicated locations.

Six additional boundary monuments were searched for, two were recovered and identified on FP 589(2). Form 524's are submitted.

Three additional points, crossing RR, were indicated on FP 589(2). These three additional points located from RR Plans are shown as proof that the information taken from these plans must be used with caution, if we are to continue to be governed by G.L.O. Plans. Example; RR Plans indicate 30/29, TI9S, R34E crossing 1980 Feet East of center-line of bridge and $\frac{1}{4}$ section line crossing 407.4 feet West of center-line of same bridge which is a total of 2387.4 feet for this $\frac{1}{4}$ E. to W. and G.L.O. Plans indicate 2838 feet for same $\frac{1}{4}$ distance. Actually the distance 2387.4 feet is measured along the RR R/W which is on an angle and would tend to make the correct distance for this $\frac{1}{4}$ even less if taken at right angles from either point. There are no indications of this particular bridge ever having been at another position.

All measurements shown on FP 589(2) relative to RR Plans are actual indicated measurements by the RR Engineers and not scaled distances.

Hundley

48. GEOGRAPHIC NAME LIST

- MAYTOWN ✓
- SCOTTSMOOR ✓
- FLORIDA EAST COAST RAILROAD ✓
- FLORIDA 410 ✓
- FLORIDA 5 ✓
- U.S. 1 ✓

Same road

- Brevard County ✓
- Volusia County ✓
- Brevard County ✓
- Game Refuge ✓

- Joseph Delespine Grant ✓
- Peter Fouchard Grant ✓
- William Garvin Grant ✓
- John Low Grant ✓
- John McIntosh Grant ✓
- Pablo Rosette Grant ✓
- Bernardo Segui Grant ✓
- Joseph Wales Grant ✓

Names preceded by •
are approved. 11-8-49
L. Heck

Rechecked and approved
1-30-51
a.j.w.

REVIEW REPORT
Topographic Map T-9163
1 February 1951

62. Comparison with Registered Topographic Surveys:

T-4440(b)	1:20,000	1930
T-4531	1:20,000	1930

This survey supersedes these prior surveys for nautical charting purposes for common areas. See item 46.

63. Comparison with Maps of Other Agencies:

None

64. Comparison with Contemporary Hydrographic Surveys:

Not applicable

65. Comparison with Nautical Charts:

1245	1:80,000	3-15-48
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This chart extends slightly into the eastern limit of this map but no changes are effected by this survey.

66. Adequacy of Results and Future Surveys:

This map meets the National Standards of Map Accuracy and complies with project instructions.

67. Section Lines and Boundaries:

One of the six Forms 524 referred to in item 56 supersedes one of the five Forms 524 referred to in items 17 and 38, making a total of 10 Forms 524 filed. Included in this total is one monument which was removed from the map manuscript because it was not definitely identified as a section corner and did not agree with the General Land Office plats.

Data taken from the Florida East Coast Railway plans were in part contradictory and did not always agree with the General Land Office plats and recovered monuments and lines. Consequently, these plans were not given much weight in compiling land lines. See letter from the field editor, attached to this report.

For the most part, the section lines were compiled as unreliable. There was insufficient recovery to accurately position the lines.

- 2 -

Due to ambiguous field notes, there was some question whether the Prevard County - Volusia County line is at the center or along the south edge of a road at the eastern limit of the map. Other segments of the line are reliable, being marked by recovered monuments and lines of culture.

Most grant lines ~~was~~^{were} positioned by holding to recovered monuments and/or some line of culture. Other grant lines were positioned to agree as closely as possible with the General Land Office plats and are labeled "approximate" on the map manuscript.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

Approved:

S. V. Griffith
Chief, Review Section
Div. of Photogrammetry *BRT*

H. Edmondson
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

W. M. Saife
Chief, Div. of Coastal Surveys
LHN