

# 9170

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Diag. Cht. No. 1245

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. \_\_\_\_\_ Office No. T-9170

#### LOCALITY

State Florida

General locality East Coast

Locality Brevard County

1948-'49

#### CHIEF OF PARTY

G.E.Morris, Jr., Chief of Field Party  
R.A.Gilmore, Tampa Photo. Office

#### LIBRARY & ARCHIVES

DATE June - 15 - 1950

B-1870-1 (1)

# 9170

# DATA RECORD

T - 9170

Project No. (II): Ph-30(48)

Quadrangle Name (IV):

Field Office (II): Titusville, Fla.

Chief of Party: George E. Morris, Jr.

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: Ross A. Gilmore

Instructions dated (II) (III): July 13, 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):

Not applicable

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): *24 May 1950*

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

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

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): ORSINO, 1934

Lat.: 28° 34' 06."135 (188.9m) Long.: 80° 39' 50." 482 (1372.1m)

Adjusted  
~~0660558~~

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

Y= *1,539, 435.73*

X= *607,844.70*

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): John S. Winter Date: Oct. 1948-Jan.1949

Planetable contouring by (II): John S. Winter Date: Oct. 1948-Jan.1949

Completion Surveys by (II): *James E. Hundley* Date: *Sept. 1949*

Mean High Water Location (III) (State date and method of location):  
January 1949 Air Photo Compilation

Projection and Grids ruled by (IV): W.E. W. (W.O.) Date: Oct. 25, 1948

Projection and Grids checked by (IV): W. E. W. " Date: Oct. 25, 1948

Control plotted by (III): R.R. Wagner Date: Nov. 5, 1948

Control checked by (III): B. F. Lampton Date: Nov. 18, 1948

Radial Plot ~~on Stereoscopic~~ M.M. Slavney Date: Jan. 19, 1949  
Control extension by (III):

Planimetry Date:  
Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III): Enola N. Cross Date: Apr. 18, 1949

Photogrammetric Office Review by (III): J.A. Giles Date: April, 1949

Elevations on Manuscript  
checked by (II) (III): J.A. Giles (III) Date: April, 1949

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

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
48 J 461	4/19/48	0858	1: 20,000	No perceptible
48 J 462	"	0859	"	tide.
48 J 137	2/18/48	1349	"	
48 J 138	"	1350	"	
48 J 139	"	1351	"	
48 J 140	"	1351	"	
48 J 141	"	1352	"	
48 J 107	"	1316	"	
48 J 108	"	1317	"	
48 J 109	"	1318	"	
48 J 110	"	1318	"	

Tide (III)

No perceptible tide

Reference Station:  
Subordinate Station:  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

Date: *18 Apr 1950*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 49.5  
Shoreline (More than 200 meters to opposite shore) (III): 40.4 miles  
Shoreline (Less than 200 meters to opposite shore) (III): 31.2 miles  
Control Leveling - Miles (II): 32 miles

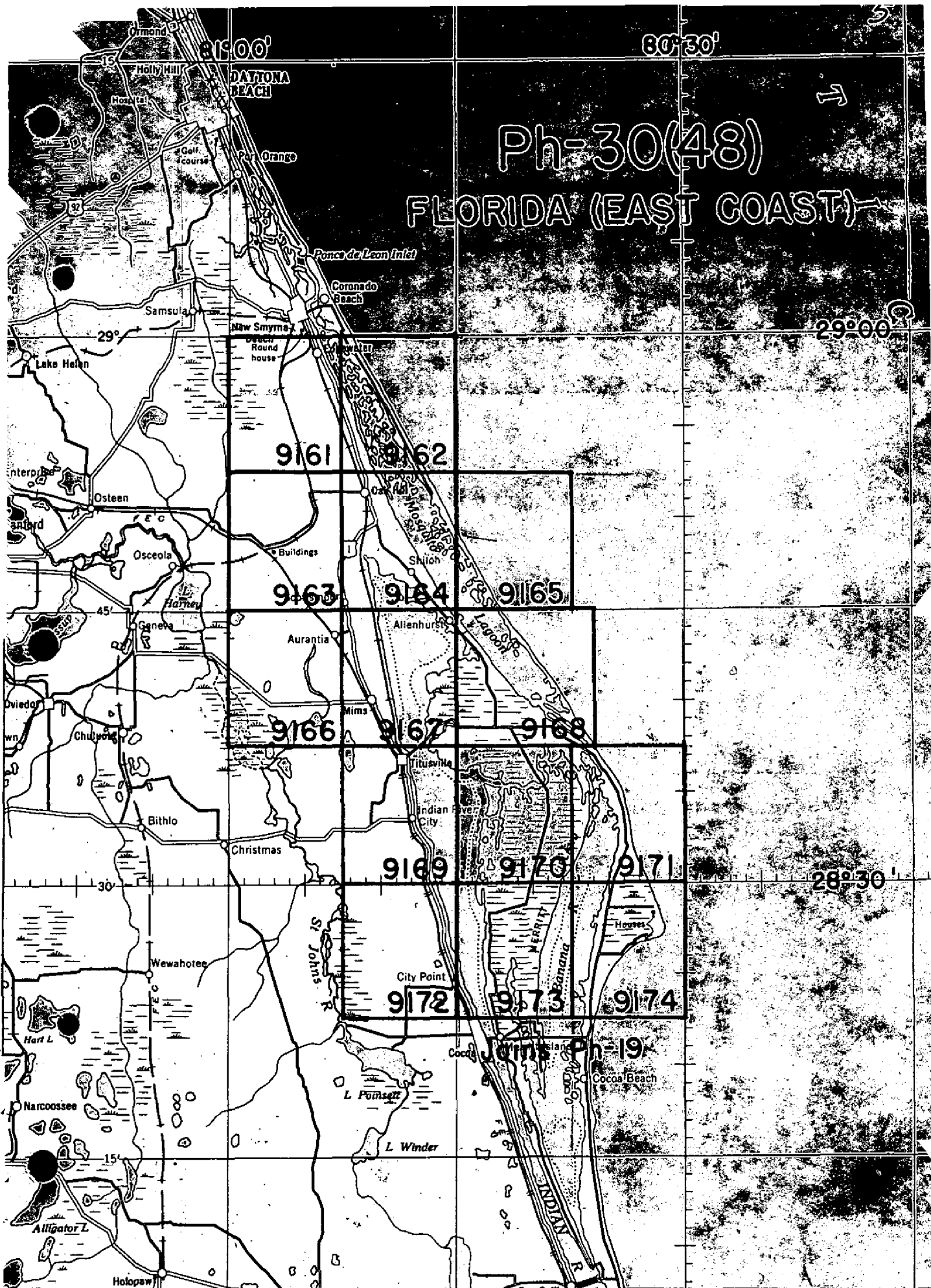
Number of Triangulation Stations searched for (II): 11 Recovered: 11 Identified: 11 ✓

Number of BMs searched for (II): none Recovered: Identified:

Number of Recoverable Photo Stations established (III): *\* 9 (8 of which are section monuments)*

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

Remarks:



Ph-30(48)  
FLORIDA (EAST COAST)

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Ph-19

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Summary to Accompany T-9170

Topographic map T-9170 is one of fourteen similar maps in project Ph-30(48) and is located in the southern portion of the project. It covers a portion of Merritt Island, the Indian River and Banana River.

This 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 U. S. Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle.

Items registered under T-9170 will include a cloth-mounted print of the manuscript at a scale of 1:20,000, a cloth-mounted color print of the published map at a scale of 1:24,000 and the original descriptive report.

FIELD INSPECTION REPORT

QUADRANGLE T-9170

(80°45') (28°30")

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.

Actual field work was completed by the writer, John S. Winter, during the period 22 October 1948 - 7 January 1949.

1. DESCRIPTION OF THE AREA:

The quadrangle is very sparsely settled with only one small village, Orsino, in the entire area. *See Item 60*

The land area is bounded by Indian River on the west, by Banana River for a short distance in the southeast corner. Banana Creek runs east through the north half of the quadrangle. Wide strips of marsh parallel the water areas. Further inshore, long sloughs, or savannas, are thickly interspersed in a pattern that roughly parallels the north-south shoreline. At present only a small percentage of the remaining land area is cultivable, and a few scattered citrus groves have been planted in parts of these areas along the roads.

The Soil Conservation Service is studying possible plans for the reclamation of a large percentage of the "slough land" in this general area.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection is believed to be adequate with the possible exception of the MHWL classification.

The MHWL was inspected at flood stage, approximately 2 ft. above normal, and it is recommended that any suspected discrepancies in the field classification of the MHWL be referred to the field editor. *See also Items 7, 30, and 52*

3. INTERPRETATION OF THE PHOTOGRAPHS:

No vegetation growths peculiar to this general area were encountered. *See Item 59*

4. HORIZONTAL CONTROL:

One U.S.E.D. third order station, HOG 1940, was recovered and identified.

All U.S.C. & G.S. stations were recovered and identified.



5. VERTICAL CONTROL:

There are no bench marks in this quadrangle.

Thirty-two miles of fly level loops controlled by a basic line between U. S. Engineer BM EDM 6 and fly level elevation 73-35 in quadrangle T-9173 were used to control the planetable contouring.

No closures were in excess of 0.60 foot and closures in excess of 0.37 ft. were prorated throughout the line.

6. CONTOURS AND DRAINAGE:

Contouring was done by planetable on 1:20,000 scale single lens ratio prints at 5 foot intervals.

Actual field work was accomplished by traversing all passable roads and brushing enough lines through other areas to adequately control the contours. Contours were penciled on the photographs in the field and later checked under the stereoscope before inking.

There were no closures of planetable traverses between fly level elevations in excess of 0.3 foot.

A satisfactory contour junction was made with quadrangle T-9171, and quadrangle T-9173. Field contouring of quadrangle T-9168 had not started at the time of this report.

7. MEAN HIGH WATER LINE:

The MHWL was inspected from boat during horizontal control recovery and it is believed that enough shoreline has been symbolized by the field inspector to facilitate office delineation. There is very little fast shoreline in the area. (See paragraph 2).

8. LOW WATER LINE:

The tide change in this area is negligible and no attempt has been made to show the MLWL.

9. WHARVES AND SHORELINE STRUCTURES:

Adequately labeled on the field photographs.

10. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

Nothing but shoals were encountered, and they are adequately shown on the photographs.

*See Item 67*

11. LANDMARKS AND AIDS TO NAVIGATION:

None within the quadrangle limits.

12. HYDROGRAPHIC CONTROL:

One recoverable topographic station was established, identified on photograph 48-J-141, and Form 524 submitted. *FRAN, 1948*

13. LANDING FIELDS AND AERONAUTICAL AIDS:

None.

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:

A field investigation of the one bridge over navigable waters, Banana Creek, Florida, was made in accordance with Photogrammetry Instructions No.27, dated 7 September 1948 and the field data listed below is in complete agreement with the published data in the U. S. Engineer "List of Bridges over Navigable Waters of the U. S.", revised to July 1, 1941:

Type of bridge - Fixed  
Navigable span - Center span  
Horizontal clearance of navigable span - 23.5 ft.  
Vertical clearance of navigable span above  
estimated MHW - 7.0 ft.

16. BUILDINGS AND STRUCTURES:

Building inspection was in accordance with Photogrammetry Instructions No.29, dated 1 October 1948.

17. BOUNDARY MONUMENTS AND LINES:

Three section corners were identified on the photographs, and Form 524 submitted. *See Item 56*

Nine other section corners were pricked on the photographs from information supplied by the County Surveyor. This information consisted of county photographs with section corners located thereon, numerous land survey plats, and road surveys. Information for plotting six additional section corners is given on the field photographs. Information concerning these sixteen section corners was discovered during field office review of the field data and Form 524's are not submitted.

The section line control submitted is believed to be adequate. However, if additional control is needed, it is recommended that the field editor contact Mr. Frank P. Schuster, Brevard County Surveyor.

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

*See Item 70*

18. GEOGRAPHIC NAMES: *614/*

This is the subject of a special report for the entire project by Lowell I. Bass, Engineering Aid.

Submitted  
27 January 1949

*John S. Winter*  
John S. Winter  
Engineering Aid

Approved and forwarded  
27 January 1949

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

PHOTOGRAMMETRIC PLOT REPORT

The Descriptive Report on Main Radial Plot  
No. 1 of 2 for Ph-30(48)-Florida East Coast,  
covering sheets T-9169 thru T-9174, and dated  
28 March 1949 is filed in the General Files,  
Division of Photogrammetry

MAP T-9170

PROJECT NO Ph-30(48)

SCALE OF MAP 1:20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -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	
CREEK, 1940	G.P. 552	N.A.	28	36	51.770			1593.7 ( 253.4)			
			80	39	59.741			1623.0 ( 7.0)			
CHILD, 1940	"	"	28	36	52.925			1629.3 ( 217.8)			
			80	38	18.269			496.3 (1133.7)			
MOOR, 1940	"	"	28	34	54.886			1689.7 ( 157.4)			
			80	41	49.999			1358.7 ( 271.8)			
LAKE, 1940	"	"	28	35	25.816			794.7 (1052.4)			
			80	40	52.150			1417.1 ( 213.3)			
HOG(USE), 1940	"	"	28	35	17.671			544.0 (1303.1)			
			80	39	34.082			926.1 ( 704.3)			
PICKLE, 1940	"	"	28	35	48.487			1492.7 ( 354.4)			
			80	37	49.833			1354.0 ( 276.2)			
ORSINO, 1934	"	"	28	34	06.135			188.9 (1658.2)			
			80	39	50.482			1372.1 ( 258.7)			
NANA, 1940	"	"	28	35	26.490			815.5 (1031.6)			
			80	43	28.171			765.5 ( 864.9)			
MID, 1940	"	"	28	33	38.339			1180.2 ( 666.8)			
			80	43	12.125			329.6 (1301.2)			
MOORE, 1875	"	"	28	31	46.772			1439.8 ( 407.2)			
			80	43	47.623			1294.8 ( 336.5)			
SLU, 1940	"	"	28	30	48.054			1479.3 ( 367.7)			
			80	43	44.414			1207.7 ( 423.8)			

COMPILATION REPORT  
QUADRANGLE T-9170

26 and 27. CONTROL AND RADIAL PLOT:

At a later date a discussion of the control and radial plot for this map manuscript will be submitted in a special report by M.M. Slavney, Photogrammetric Engineer, *dated 28 Mar 1949 and filed in Division of Photogrammetry.*

28. DELINEATION:

The detail was delineated from 1: 20,000-scale single-lens photographs which were satisfactory as to scale and clearness.

Except for a few discrepancies noted on the discrepancy overlay, the field inspection was adequate for an accurate delineation of this map manuscript.

The compiler is not in complete agreement with the field inspector's classification of ponds and intermittent ponds. After the entire area was carefully studied under a stereoscope, it was decided to delineate water areas in marsh as ponds and those in cleared areas as intermittent ponds. The field editor has been requested to verify this on the discrepancy overlay. *See Item 69*

Because of discrepancies in the classification of vegetation on the field photographs, the entire area has been carefully studied under a stereoscope by the compiler in order to obtain consistency in the interpretation. Where water or dampness could be seen, the areas were labeled marsh. Dry areas were labeled clear. Areas labeled as swamp on the field photographs were delineated as marsh because of the absence of trees. These discrepancies have been noted on the overlay. *See Item 59*

It would have been helpful if the limits of a few sample areas of marsh had been outlined.

29. SUPPLEMENTAL DATA:

None used.

*See Item 68*

30. MEAN HIGH WATER LINE:

The mean high-water line was determined while using a stereoscope. (See Field Inspection Report, Item 7.)

31. LOW-WATER AND SHOAL LINES:

See Field Inspection Report, Item 8.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

See Field Inspection Report, Item 10.

33. WHARVES AND SHORELINE STRUCTURES:

All wharves and shoreline structures have been delineated in accordance with the field inspection notes.

34. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks or aids to navigation are on this map manuscript.

35. HYDROGRAPHIC CONTROL:

There is no hydrographic control on this map manuscript. *See Item 12*

36. LANDING FIELDS AND AERONAUTICAL AIDS:

No landing fields or aeronautical aids are on this map manuscript.

37. BRIDGES:

See Field Inspection Report, Item 15.

38. SECTION LINES AND BOUNDARIES:

The section lines have been tentatively constructed on the map manuscript in red pencil. A discrepancy print has been prepared for the field editor's use, and, upon its return from the field, the lines will be made permanent according to his findings.

*See Item 70  
& Item 56*

~~Precinct lines will be applied after the map manuscript has been returned from field edit.~~

See Field Inspection Report, Item 17.

39. GEOGRAPHIC NAMES:

All geographic names submitted by the Washington Office have been applied to this manuscript. *See Item 60*

40. CONTOURS:

The contouring was completed in the field for this map manuscript before Photogrammetry Instructions No. 32 were issued. Therefore, the compiler has delineated the contours to comply with prior instructions.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES AND OTHER MAPS:

No topographic quadrangles are available in this office for comparison.

Planimetric Map T-4441-B covers the northeastern part of this map manuscript. The following differences were noted:

- (a) The route of Florida State Highway No. 3. *Relocation. ENR*
- (b) The inshore limits of marsh.
- (c) The addition of piers and net racks along the north shore of Banana Creek (east of longitude  $80^{\circ} 41'$ ).

45. COMPARISON WITH NAUTICAL CHARTS :

In comparison with nautical chart No. 1245--published in September, 1931 at 1: 80,000 scale and bearing the print date of March 15, 1948, the same differences were noted as those listed in Item 44.

No differences were noted between this map manuscript and nautical chart No. 844--published in May, 1942 at 1: 40,000 scale and bearing the print date of June 21, 1948.

Respectfully submitted,

*Enola N. Cross*

Enola N. Cross  
Cartographic Aid

Approved and Forwarded:

*Ross A. Gilmore*  
Ross A. Gilmore 7/13/49  
Chief of Party.



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FIELD EDIT REPORT  
T-9170

51. METHODS

Field edit 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, hand level, and tape methods were used to make corrections and additions not shown on the photographs.

On the field edit sheet, violet ink was used to show corrected contours, red ink for all other corrections and additions, and green ink for deletions. Black ink was used for all work on the photographs.

The reviewer's questions are answered, in violet ink, on the discrepancy prints whenever possible. Other work was shown on the photographs or field edit sheet. All work shown on the photographs is properly referenced on the discrepancy print or field edit sheet.

A legend has been inked on the field edit sheet indicating the different colors of ink used for the various corrections, additions and deletions.

Field edit information appears on the discrepancy print, the section line discrepancy print, field edit sheet and photographs Nos. 48J-108 (1 of 2) 48J-109 (1 of 2) 48J-110(2), 48J-137(2) 48J-138(2 of 2) 48J-141 (1 of 2).

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 details appeared to be good. No discrepancies were noted in the contours and the topographic expression was good.

54. RECOMMENDATIONS

It is recommended that each field party have the best qualified field man review thoroughly and completely all phases of work done on a quadrangle before submitting to the compilation office. In other words stress completeness of work accomplished as well as accuracy.

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FIELD REPORT  
EUT T-9170

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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. BOUNDARY MONUMENTS AND SECTION LINES

Seven additional section corner monuments were recovered and identified on the photographs. Form 524 is submitted for all recovered monuments, reference Item 17.

Five of seven monuments shown on manuscript. ENR

57. ROADS

All roads have been classified in accordance with strict interpretation of Photogrammetry Instructions No. 10, dated April 14, 1947, and amendment dated October 24, 1947.

58. BUILDINGS

All buildings have been classified in accordance with Photogrammetry Instructions No. 29 dated October 1, 1948.

59. WOODLAND COVER

Ninety-nine per cent of the rural area of this part of Florida is covered with trees or scrub, and in no sense of the word could be classified as "open"; in fact, the only areas that could be classified as "open" are areas that have been bulldozed.

60. GEOGRAPHIC NAMES

According to the following named persons, the small fishing village on Futch Cove near latitude  $28^{\circ} 36'$ , longitude  $80^{\circ} 40'$  is locally known as HEATH.

<u>NAME</u>	<u>ADDRESS</u>	<u>YEARS LIVED IN VICINITY</u>
Mrs. George Futch	Titusville, Fla.	23 years
Mr. Edward D. Key	" "	23 "
Mr. Fred Nauman	" "	39 "

Reference Item 18.

Approved and Forwarded:

*Ross A. Gilmore*  
"11/25/49"  
Ross A. Gilmore, Chief of Party.

*James E. Hundley*  
James E. Hundley  
Cartographer (Photo.)

# GEOGRAPHIC NAMES

Survey No. T-9170

7 1/2' quad,  
Fla.

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Florida									USGB	1
	Brevard County										2
	Indian River										3
	Banana River										4
	Merritt Island										5
	State No. 3										6
											7
	Buck Creek										8
	Orsino										9
	Pine Island Creek										10
	Pine Island Basin										11
	Moore Pond										12
	Three Cabbages										13
	Moore Creek										14
	West Prong										15
	Middle Prong										16
	Oyster Prong										17
	Mangrove Pond										18
	Green Bush Point										19
	Banana Creek										20
	Stony Island										21
	Brook Flats										22
	Peacocks Pocket										23
	Skunk Island										24
	Cedar Hammock Creek										25
	Palma Crystal w/ 1/2										26
	Jones Creek										27

# GEOGRAPHIC NAMES

Survey No. T-9170

2	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>Hubs Landing</u>										1
	<u>Seven Pines Creek</u>										2
	<u>Cedar Hammock</u>										3
	<u>Daincut Creek</u>										4
	<u>Humpback Bridge</u>										5
	<u>Banana Creek Fish Camp</u>										6
	<u>Futch Cove</u>										7
	<u>Billy Joe Point</u>										8
	<u>Big Island</u>										9
	<u>Workman Pond</u>										10
	<u>Happy Creek</u>										11
	<u>Happy Hammock</u>										12
	<u>Ross Creek</u>										13
	<u>Ross Cutoff</u>										14
	<u>Pionio Island</u>										15
	<u>West Creek</u>										16
	<u>East Creek</u>										17
	<u>Cochran Cove</u>										18
	<u>Broadaxe Ridge</u>										19
	<u>Heath</u>										20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red  
are approved. 8-12-49  
L. Heck

(Based on Names Report  
for project area by Bass)

M 234

Names underlined in red are approved. 8-12-49

L. Heck

(Based on Names Report for project area by Bass)

Review Report for T-9170  
Topographic Map  
18 April 1950

62. Comparison with Registered Topographic Surveys:

T-1422	1:20,000	1875-76
T-1423	1:20,000	1874-75
T-1435	1:20,000	1876
T-1450	1:20,000	1877
T-4441	1:20,000	1928
T-6824	1:10,000	1941

This survey supersedes these prior surveys for nautical charting in the area of this map.

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

66. Adequacy of Results and Future Surveys:

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

67. Details Offshore from the High-Water Line:

According to the published nautical charts for this area, the water areas are quite shallow with the bottom surface sloping evenly. Consequently, the shallow lines, which were indistinct on the photographs, were removed from the manuscript.

68. Supplemental Data:

A right-of-way plan for Florida State Highway 3 showing section line information was submitted by the field parties and is filed in the Division of Photogrammetry.

69. Delineation:

The reviewer attempted to make the classification of low areas, most of which are intermittently flooded, consistent throughout this map and with other maps of the project. The areas were not compiled as stated in item 28, Compilation Report.

More slough areas were delineated (See Item 1, Field Inspection Report). If slough areas and other low areas were surrounded by fast land, they were classified as intermittent ponds. If these areas opened onto a perennial body of water, they were classified as marsh.

Water areas within marsh were classified as intermittent ponds if they were not filled at the time of photography to a berm line. These areas did not always have a well-defined berm. If water areas within marsh extended at the time of photography to a well-defined berm line, they were classified as perennial ponds.

It is believed that these changes achieve a better topographic expression for this area.

70. Section Lines and Boundaries:

There were no political boundaries to map within the area of this survey.

There was little recovery of section lines in most of the western portion of this map and most lines are shown as unreliable. Construction of section lines along Banana Creek apparently does not agree very well with the General Land Office plats. Features on these plats are so greatly generalized that the information could not be used to accurately position the section lines.

Section lines around mon 718 , T22S, R37E are  
18117  
irregular. This monument was recovered as "doubtful" but was the only recovery in the area and consequently was used for the construction of the lines. Lines in its vicinity are shown as unreliable.

Reviewed by:

Everett H. Ramey  
Everett H. Ramey

Approved by:

L. V. Griffith  
Chief, Review Section *L.H.M.*  
Division of Photogrammetry

H. R. Edmonston  
Chief, Nautical Chart Branch  
Division of Charts

J. S. Reading  
Chief, Div. of Photogrammetry

W. M. Scaife  
Chief, Div. Coastal Surveys

## HISTORY OF HYDROGRAPHIC INFORMATION

T-9170, Florida

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry request of 4 May 1950 and with general specifications of 18 May 1949. *omitted from register & copy*

The depths are in feet at mean low water and originate with the following surveys and charts:

Hydrographic Survey 1292 (1875-76)	1:20,000 C&GS.
Hydrographic Survey 1415a (1878)	1:20,000 C&GS.
Hydrographic Survey BP 34221 (1940)	1:10,000 USE.
Hydrographic Survey BP 34222 (1940)	1:10,000 USE.
Hydrographic Survey 6664 (1941)	1:10,000 C&GS.
Hydrographic Survey 6727 (1941)	1:10,000 C&GS.
Nautical Chart 1245 (1949)	1:80,000 corrected to 1 May 1950 C&GS.

The depths within this quadrangle permit the delineation of only the six foot curve.

The hydrography was compiled by R. E. Elkins and checked by R. H. Carstens.

*R. E. Elkins*  
 R. E. Elkins  
 12 May 1950  
 Nautical Chart Branch