

9172

Shaper NE

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-9172

LOCALITY

State FLORIDA

General locality EAST COAST

Locality BREVARD COUNTY

1948 ~~8~~ 8-'49

CHIEF OF PARTY

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

R.A. Gilmore, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE Aug - 8 - 1950

B-1870-1 (1)

2172

DATA RECORD

T-9172

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

Quadrangle Name (IV):

Field Office (II): Cocoa, Florida

Chief of Party: George E. Morris, Jr.

Photogrammetric Office (III): Tampa, Florida

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):

Scale Factor (III): None

Date received in Washington Office (IV): 8-19-49 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 18 July 1950

Publication Scale (IV): 1: 24000

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): CABBAGES, 1935

Lat.: 28° 28' 13."003(400.3m) Long.: 80° 52' 15."792(429.6m)

Adjusted
~~Unadjusted~~

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

Y= 1503 643.12

X= 541 428.56

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.

J. A. Clear, Jr.

Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): J.A. Clear, Jr.

Date: July-Oct. 1948

Planetable contouring by (II): J.A. Clear, Jr.

Date: July, 1948

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

Date: *Oct. 1949*

Mean High Water Location (III) (State date and method of location): ~~Sept. 1948 - Air Photo Compilation~~
Aerial photography 4-22-48; Field identification July-Oct. 1948

Projection and Grids ruled by (IV): W. F. W.

(W.O.)

Date: Oct. 25, 1948

Projection and Grids checked by (IV): W. F. W.

(W.O.)

Date: Oct. 25, 1948

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

Date: Nov. 5, 1948

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

Date: Nov. 10, 1948

Radial Plot on Stereoscopic

~~Control extension~~ by (III): M. M. Slavney

Date:

Jan. 26, 1949

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): C.J. Downing

Date: Jan. 1949

May, 1949

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

Date: May, 1949

Elevations on Manuscript

checked by (II) (III): J.A. Giles (III)

Date:

" "

Camera (kind or source) (III): Single lens U. S. Coast and Geodetic Survey

PHOTOGRAPHS (III)					
Number	Date	Time	Scale	Stage of Tide	
48J - 601 to 605	4-22-48	0931 to 0932	1: 20,000	No perceptible tide	
" 565 to 569	"	0858 to 0902	"	"	
" 685 to 688	"	1142 to 1145	"	"	
" 471 to 472	"	0908 to 0910	"	"	
" 557 to 560	"	0850 to 0852	"	"	
47 469	12-8-47	1047	"	"	

Tide (III)

Reference Station: No perceptible tide
 Subordinate Station:
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

Date: *17 Feb 1950*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

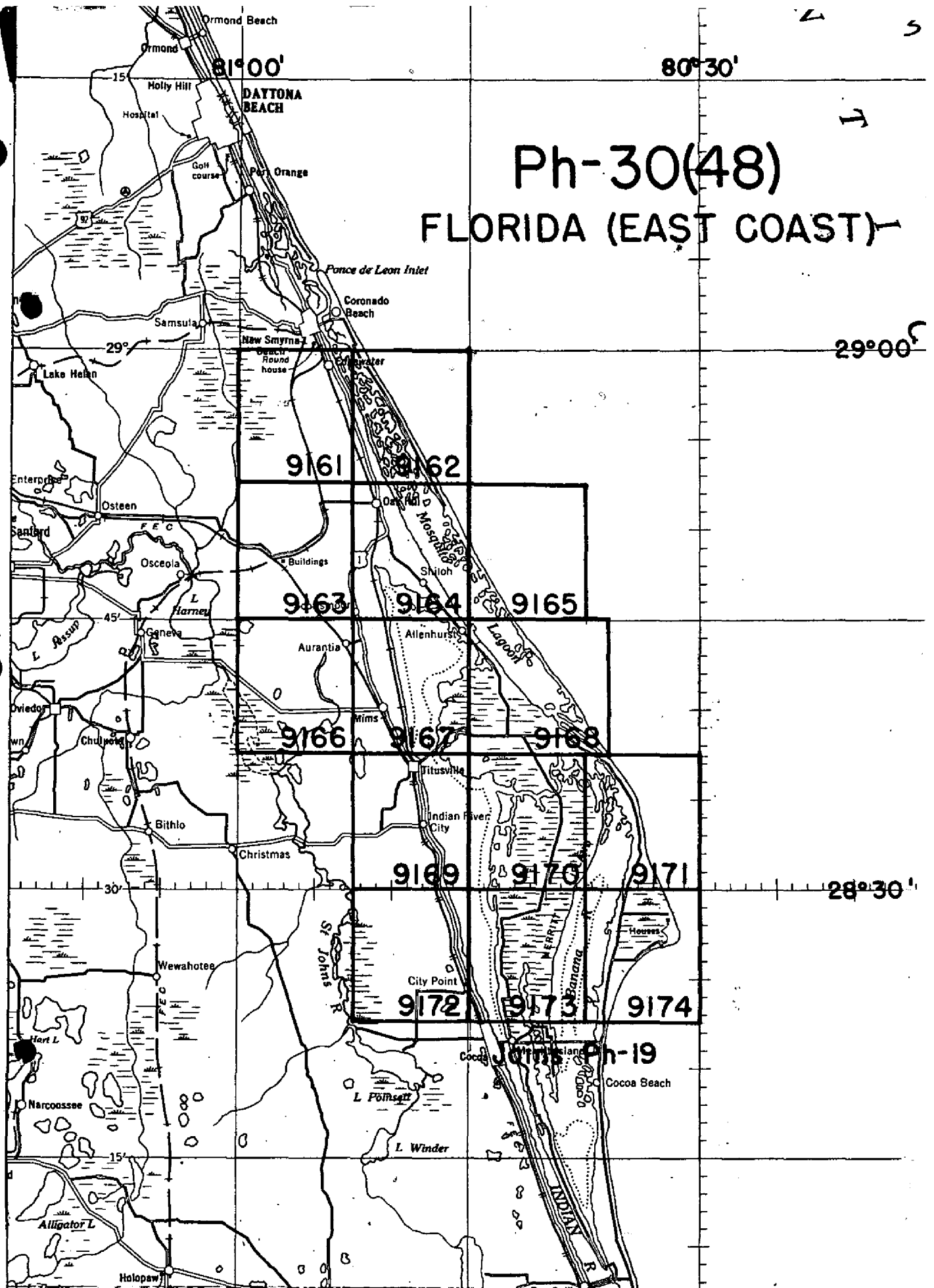
Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 62
 Shoreline (More than 200 meters to opposite shore) (III): 5.4
 Shoreline (Less than 200 meters to opposite shore) (III): 3.5
 Control Leveling - Miles (II): *50 30 ENR*
 Number of Triangulation Stations searched for (II): 14 *
 Number of BMs searched for (II): 5
 Number of Recoverable Photo Stations established (III): 8
 Number of Temporary Photo Hydro Stations established (III): None

Recovered: 11 * Identified: 11 *
 Recovered: 3 Identified: 3
(No. includes 7 section monuments) ENR
21 azimuth mark

Remarks: * No. includes one station which fell on T-9173 ENR



Summary to Accompany T-9172

Topographic map T-9172 is one of fourteen similar maps in project Ph-30(48) and is the most southwestern map of the project. It covers a portion of the Indian River and the land area to the westward. 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 $7\frac{1}{2}'$ latitude by $7\frac{1}{2}'$ 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-9172 will include a cloth-mounted color print at a scale of 1:24,000, a cloth-mounted print of the manuscript at a scale of 1:20,000 and the descriptive report.

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FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE T-9172

N28°30 - E80°45'

PROJECT PH-30(48)

11 OCTOBER 1948

1. DESCRIPTION OF THE AREA

This quadrangle is located in the west central portion of Brevard County, Florida.

*See item
67*

The principal cultural features within the limits of the quadrangle are the unincorporated towns of City Point and Sharpes, the villages of Frontenac and Delespine, all lying on U. S. Highway No.1 or the Florida East Coast Railroad, both of which traverse the quadrangle north and south near the eastern boundary.

The quadrangle is bordered on the east by the Indian River and intermittently on the west by the St. Johns River. The southern boundary of Delespine Grant falls within the area.

The terrain rises from natural water level in the Indian River to 83 feet at a point just east of U. S. Highway No.1. There is a prominent ridge extending approximately 1.5 miles west from U. S. Highway No.1, extending north and south the entire length of the quadrangle.

The existing vegetation along the eastern boundary is comprised of dense scrub oak, pine and many large and profitable orange groves, citrus being the principal industry. Vegetation changes as the quadrangle is traversed westerly to scattered pine and palmetto, changing to sawgrass savannas along the St. Johns River. These savannas are entirely under water during the rainy season.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection was done in accordance with Project Ph-9(46) Instructions dated 28 May 1947 and other general instructions. The field inspection is believed to be complete and adequate as to classification of buildings, roads, boundaries, etc.

3. INTERPRETATION OF THE PHOTOGRAPHS

Since photography was of a recent date, no great difficulty was encountered in the interpretation of photographic details. Single lens 1:20,000 scale photographs were used exclusively throughout the quadrangle for all phases of field work. The light grey areas along the western portion of the quadrangle consists of sawgrass and scattered palm trees. The dark grey areas are pine trees and scrub oak. Sand areas appear white on the photographs.

4. HORIZONTAL CONTROL

The horizontal control within the limits of the quadrangle consists of that established by the U.S.C. & G.S. and U.S.E.D.

A thorough search was made for all stations in the quadrangle. A total of eleven (11) triangulation stations, six (6) U.S.E.D. and five (5) U.S.C. & G.S., were recovered and identified on single lens photographs for control of the radial plot. Following is a list of U.S.E.D. stations recovered and identified: ND(USE)1931, NE(USE)1931, NEF(USE)1931, NF(USE)1931, NH(USE)1931, and NI(USE)1931.

* Falls on T-9173. ENR

5. VERTICAL CONTROL

Vertical control consisted of recovery and identification of existing bench marks and establishment of levels.

Three (3) bench marks were recovered and identified on the photographs.

Approximately thirty (30) linear miles of 4th order levels, (66 temporary bench marks established), were completed during the month of July 1948. Recordings were to the nearest .01 of a foot. The maximum error of closure was .26 of a foot. There were no adjustments made.

6. CONTOURS AND DRAINAGE

Contouring was done in the field directly on 1:20,000 scale single lens photographs by planetable method. The contour interval was five feet. All work was done as near the center portion of the photographs as possible to minimize distortion and large scale changes. The average closures on planetable traverses range from 0 to .3 of a foot. The maximum closure was .5 of a foot.

Attention is called to one particular area in the southwest portion of the quadrangle which consists of six (6) square miles. Every reasonable effort was made to contour this inaccessible area which is extremely marshy and at the present time the entire area lies under water due to the rainy season. Therefore, it was not considered economically practical to complete this area at this time.

7. MEAN HIGH WATER LINE

There is no evident mean high water line along the greater part of the west shore of the Indian River, therefore, it has been indicated on the photographs as apparent shoreline.

See Item 69

8. LOW WATER LINE

In general the low water line along the west shore of the Indian River is parallel and very close to the mean high water line as the waters are practically non-tidal. No attempt was made to show the low water line.

9. WHARVES AND SHORELINE STRUCTURES

All wharves and shoreline structures have been identified on the photographs.

10. DETAILS OFFSHORE FROM HIGH WATER LINE

No details offshore for investigation by the hydrographic party were noted.

11. LANDMARKS AND AIDS TO NAVIGATION

There is one (1) light along the Intracoastal Waterway within the limits of this quadrangle. There were three cuts taken from triangulation stations to the light and a list of directions submitted.

See Item 70

12. HYDROGRAPHIC CONTROL

No hydrographic signals were required in the project.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields in this quadrangle.

Triangulation station AERIAL BEACON NO.19 1940 has been pricked direct on photograph No. 48-J-471.

14. ROAD CLASSIFICATION

All roads were classified according to Photogrammetry Instructions No.10, and amendment dated 24 October 1947. Roads to be deleted are shown by cross marks in green ink.

15. BRIDGES

There are no bridges over navigable waters in this quadrangle.

16. BUILDINGS AND STRUCTURES

All buildings to be shown have been circled in red ink. Structures other than buildings have been noted on the photographs. Other items to be deleted have been crossed out in green ink.

17. BOUNDARY MONUMENTS AND LINES

There were eight (8) section corners recovered and identified on the photographs. *See Item 71*

The quadrangle lies partly within the boundaries of two Commissioners Districts Nos. 1 and 4. The boundary lines of the Districts have been shown on the photographs in brown ink.

Two points on the southern boundary of the Delespine Grant line were recovered and identified on photographs No. 48-J-557 and 48-J-568. *See Item 71*

18. GEOGRAPHIC NAMES *Q. 111*

All geographic names information was obtained by Mr. Lowell I. Bass, Engineering Aid. This information will be compiled in a special report by Mr. Bass. *Filed in Geographic Names Sect, Div. Charts*

19. TOPOGRAPHIC STATIONS

There were no topographic stations established in the quadrangle.

20. JUNCTIONS

A junction has been made with quadrangle T-9173 to the east. All junctions are in good agreement. Quadrangle T-9169 will make junction on the north. There are no adjoining quadrangles to the south or west.

Submitted by:

James A. Clear, Jr.
James A. Clear, Jr.
Engineering Aid(Photo)

Approved and forwarded:

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

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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-9172

PROJECT NO. Ph-30(48)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -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	
CABBAGES, 1935	G.P. 237	N.A. 1927	28	28	13.003			400.3	(1446.8)		
			80	52	15.792			429.6	(1202.6)		
N. I. (U.S.E.), 1940	" 556	"	28	29	53.475			1646.2	(200.9)		
			80	46	34.515			938.7	(693.1)		
AIRWAY BN. 19, 1934	" 178	"	28	29	00.299			9.2	(1837.8)		
			80	46	55.503			1509.7	(122.3)		
N.H. (USE), 1940	" 552	"	28	28	51.849			1596.1	(250.9)		
			80	46	13.677			372.0	(1260.0)		
N.F. (USE), 1940	" 551	"	28	27	07.052			217.1	(1630.0)		
			80	45	41.205			1121.1	(511.4)		
N.E.F. (USE), 1940	" 555	"	28	26	20.284			624.4	(1222.6)		
			80	45	30.158			820.7	(812.1)		
PINKERTONS PIER, CENTER OF HOUSE, 1940	" 566	"	28	25	27.874			858.1	(989.0)		
			80	45	06.207			168.9	(1464.0)		
N.E. (USE), 1940	" 551	"	28	25	25.009			769.9	(1077.2)		
			80	45	09.994			272.0	(1360.9)		
LARGE TWO-STORY WHITE HOUSE F.G. 1940	" 566	"	28	25	09.466			291.4	(1555.6)		
			80	45	06.504			177.0	(1455.9)		
INDIAN RIVER NORTH LIGHT 123, 1940	" 566	"	28	28	42.597			1311.3	(535.7)		
			80	45	15.078			410.2	(1222.0)		

1 FT. = 3048006 METER

COMPUTED BY: B.F. Lampton

DATE Sept. 29, 1948

CHECKED BY: R.R. Wagner

DATE October 5, 1948

M-2388

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26 and 27. CONTROL AND RADIAL PLOT:

Subject of a special report submitted March 28, 1949 by Mr.
M.M. Slavney, Photogrammetric Engineer. *Filed in Division of Photogrammetry,
General Files*

28. DELINEATION:

Photographs used in compiling this manuscript covered the area satisfactorily. The scale agreement is good to excellent. The tone quality of the photographs is good. Considerable difficulty was experienced with detail along the west border of the quadrangle. March limits in this area are indefinite due to the peculiar characteristics of the terrain. Careful check of this area by the field editor is requested.

29. SUPPLEMENTAL DATA:

None used on this manuscript.

30. MEAN HIGH-WATER LINE:

See Item No. 7, of the Field Inspection Report.

31. LOW-WATER AND SHOAL LINES:

See Item No. 8 of the Field Inspection Report. Spoil banks along the west edge of the Intracoastal Waterway in the Indian River are delineated as shoal areas on the manuscript.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

None which require further investigation.

33. WHARVES AND SHORELINE STRUCTURES.

These have been delineated as indicated by the Field Inspector.

34. LANDMARKS AND AIDS TO NAVIGATION:

See Item No. 11 of the Field Inspection Report.

35. HYDROGRAPHIC CONTROL:

None required for this project.

36. LANDING FIELDS AND AERONAUTICAL AIDS.

See Item No. 13 of the Field Inspection Report.

37. GEOGRAPHIC NAMES: 614✓

Applied to the manuscript from Washington Office "Geographic Name Sheet."

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLE:

There are no existing topographic quadrangles covering this area in the Tampa office. *See attached list of approved names.*

45. COMPARISON WITH NAUTICAL CHART:

Comparison was made with Intracoastal waterway chart No. 844, dated June 21, 1948, scale 1: 40,000. The following discrepancy was noted:

At latitude 28° 28' and longitude 80° 46' a road leading north-east from U. S. Highway No. 1 at Frontenac through Jones' Point, thence northwest to rejoin Highway U.S. No. 1, does not appear on recent photography of the area.

This manuscript adequately portrays the topographic detail in the area. It should therefore supersede previous compilations.

Respectfully submitted,

Charles J. Downing
Charles J. Downing
Cartographic Aid

Approved and Forwarded:

Ross A. Gilmore
Ross A. Gilmore, 1/1/49
Chief of Party.

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FIELD EDIT REPORT
T-9172

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, theodolite, sextant and tape methods were used to make corrections and additions not shown on the photographs. Corrections and deletions have been noted on the discrepancy print, corrections and additions on the field edit sheet, additions on the photographs. In general, the additions shown on the photographs consist of additional boundary monuments recovered, contours and roads.

On the discrepancy print, violet ink was used in answering all questions and corrections, green ink for deletions. On the field edit sheet, violet ink was used for corrected contours, red ink for corrections and additions. Black ink was used for all work on the photographs.

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

Field edit information appears on the following photographs: 47J-471, 48J-471 (1 of 2), 48J-559 (1 of 2), 48J-560 (1 of 2), and 48J-602.

52. ADEQUACY OF COMPILATION

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

53. MAP ACCURACY

The horizontal position of the map detail appeared to be good. Some contouring was required to complete the map. The fifteen-foot contours on the western limits of the quadrangle were completed by stereoscope. This method was used due to the fact that it is impossible to get into this area at the present time due to high water. *See item 68*

54. RECOMMENDATIONS

No comment.

55. EXAMINATION OF PROOF COPY

It is believed that Carl A. Schnabel, registered land surveyor and City Engineer for Cocoa-Rockledge, of Cocoa, Florida, is best qualified to examine a proof copy of this quadrangle.

56. BOUNDARY MONUMENTS AND SECTION LINES

One additional section corner was recovered, one boundary monument on the south line of the Delespine Grant was recovered, and one 1/4 corner was checked for accuracy of location. *See Item 71*

57. LANDMARKS FOR CHARTS

~~Form 567 is submitted for a previously charted landmark. This object does not meet the necessary requirements for landmarks. (Erroneous, Field Editor was using an obsolete chart). w.a.R.~~

58. BUILDINGS

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

Approved and Forwarded:

Ross A. Gilmore
 Ross A. Gilmore, 1/4/50
 Chief of Party.

James E. Hundley
 James E. Hundley
 October 14, 1949

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED ~~STRIKE OUT ONE~~

Cocoa, Florida

July 1948

I recommend that the following objects which have ~~(11444 1144)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(1144 1144 1144)~~ the charts indicated.

The positions given have been checked after listing by

Lowell I. Bass
Engr. etc.

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

HARBOR CHART	INSHORE CHART	OFFSHORE CHART

METHOD OF LOCATION AND SURVEY	DATE OF LOCATION
1-172	1940

DATUM
NA

POSITION	
LATITUDE	LONGITUDE
0 1	0 1

SIGNAL NAME

DESCRIPTION

CHARTING NAME

INDIAN RIVER Black square daymark with yellow border on pile structure

28 28.4 1311.3 80 45.2 410.1

1940

x

844

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

GEOGRAPHIC NAMES

Survey No. T-9172

7½' quad., Fla. East Coast

Name on Survey

	A	B	C	D	E	F	G	H	K	
Florida	✓								USGB	1
Brevard County	✓		(Orange County borders on west of St. Johns River)			Shown on manuscript.				2
Intracoastal Waterway	✓								USGB	3
Indian River	✓									4
St. Johns River	✓								USGB	5
Deleasping Grant	✓									6
U.S. No. 1	✓									7
State No. 515	✓									8
Florida East Coast	✓									9
										10
City Point	✓									11
Sharpes	✓									12
Sharpes Lake	✓									13
Geiger Lake	✓									14
Lake Wilson	✓									15
Williams Point	✓		(locality at junction US 1 and No. 515)							16
Frontenac	✓									17
Jones Point	✓									18
Deleasping	✓									19
Halfway Lake	✓									20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red are approved. 9-7-49

L. Heck

Review Report T-9172
Topographic Map
17 February 1950

62. Comparison with Registered Topographic Surveys:

T-1435	1:20,000	1876
T-4532	1:20,000	1928
T-6825	1:10,000	1941

T-9172 supersedes the above surveys for the purpose of nautical charting in common areas.

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

See item 15

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

67. Description of Area.--A small portion of the land area of this quadrangle lies within Orange County.

68. Contours and Drainage.--Area referred to in item 6, second paragraph, was contoured prior to the compilation of the manuscript.

Only small portions of the fifteen-foot contour in the western part of the area of this map were sketched by stereoscope. These conform to the drainage pattern and meet accuracy requirements. See Item 53.

69. Mean High-Water Line.--The west shore of the Indian River is bounded by fast land, and it has been so shown on the manuscript. See Item 7.

70. Landmarks and Aids to Navigation.--The light referred to in Item 11 is triangulation station "Indian River North Light 123, 1940". List of directions submitted confirm this.

71. Boundary Monuments and Section Lines.--Four section corner monuments and three section line monuments were recovered and are shown on this manuscript. The "section corner" monument referred to in Item 56 was in the Delespine Grant where no section lines have been established.

Since there were so few section monuments recovered, most land lines are shown as unreliable.

The south boundary of the Delespine Grant was positioned by holding to one recovered monument and drawing the boundary to generally intersect the section lines as given by the

General Land Office plats for the area. The line is shown as straight whereas the measurements as given by the G.L.O. plats give a broken line. Because the line represents an average and is referenced to unreliable section lines, it should be regarded as unreliable. The two points recovered during field inspection and referred to in Item 17 are not points on the Delespine Grant. They are not shown on the manuscript.

The north corporate limits line of Cocoa was identified on the photographs according to the Rockledge-Cocoa city map, submitted by the field party and filed in the Division of Photogrammetry. The line which is small in extent was not checked by the field party and is unreliable. However, the remainder of the corporate limits line of Cocoa, which appears on T-9173, is reliable.

Reviewed by:

Everett H. Pamey
E. H. Pamey

Approved by:

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

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

O. S. Reading *B.H.*
Chief, Div. of Photogrammetry

W. M. Saafre
Chief, Div. Coastal Surveys *B.H.*

HISTORY OF HYDROGRAPHIC INFORMATION

T-9172, Florida

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry request of 23 February 1950, and with general specifications of 18 May 1949.

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

Hydrographic Survey 1293 (1876)	1:20,000 C&GS.
Hydrographic Survey 6664 (1941)	1:10,000 C&GS.
Nautical Chart 844 (1949)	1:40,000 C&GS
	(corrected to 17 April 1950)

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

Hydrography was compiled by R. E. Elkins and checked by G. F. Jordan.

R. E. Elkins

R. E. Elkins
26 April 1950
Nautical Chart Branch