

9168

Diag. Cht. No. 1245

Fla,
Wilson, Fla.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. _____ Office No. T-9168

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 Nov-30-1950

B-1870-1 (1)

8316

DATA RECORD

T -9168

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

Quadrangle Name (IV): ~~False Cape, N.H.~~

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): **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): **10-25-49** Date reported to Nautical Chart Branch (IV): **11-1-49**

Applied to Chart No.

Date:

Date registered (IV): **14 Sept 1950**

Publication Scale (IV): **1: 24000**

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): **DUMMIT, 1934**

Lat.: **28° 41' 46."798(1440.7m)** Long.: **80° 43' 19."371 (525.8m)**

Adjusted
Unadjusted

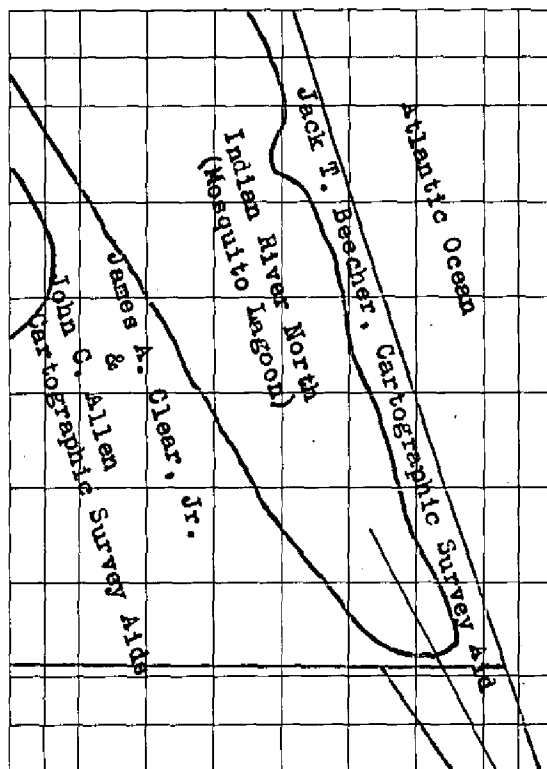
Plane Coordinates (IV): **Transverse Mercator** State: **Florida** Zone: **East**

Y= **1,585,912.52**

X= **589,111.22**

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):

James A. Clear, Jr., Cartographic Survey Aid
 Jack T. Beecher, Cartographic Survey Aid
 Cecil A. Navin, Topographic Engineer (Shoreline)

Date:
 3 Mar. 1949 - 4 Apr. 1949
 29 Mar. 1949 - 5 Apr. 1949
 14 Apr. 1949 - 20 Apr. 1949

Planetable contouring by (II):

James A. Clear, Jr., Cartographic Survey Aid
 Jack T. Beecher, Cartographic Survey Aid
 John C. Allen, Cartographic Survey Aid

Date:
 3 Mar. 1949 - 4 Apr. 1949
 29 Mar. 1949 - 5 Apr. 1949
 3 Mar. 1949 - 4 Apr. 1949

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

Date: *Nov. 1949*

Mean High Water Location (III) (State date and method of location): ~~The Atlantic shoreline was located by measured distances during the period from 3/4/49 to 4/20/49, by C. Navin.~~

~~The Mosquito Lagoon S-L takes the date of the photographs (2-18-48)~~
All shoreline identified in field on photographs taken 2-18-48

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

Date: Oct. 26, 1948

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

Date: " " "

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

Date: Nov. 9, 1948

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

Date: Nov. 10, 1948

Radial Plot ~~as shown on~~ M.M. Slavney

Date: May 20, 1949

~~as shown on~~ by (III):

Planimetry
 Stereoscopic Instrument compilation (III):
 Contours

Date:

Date:

Manuscript delineated by (III): R. Dossett

Date: July, 1949

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

Date: August, 1949

Elevations on Manuscript

checked by (II) (III): R. Dossett (III)

Date: July, 1949

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

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
48J-157-162	2-18-48	1406-09	1:20,000	+2.6
48J-116-117	"	1328	"	+2.7
48J-142-146	"	1352-55	"	+2.6
48J-111-114	"	1319-22	"	+2.7

Tide (III)

Reference Station: **Mayport, Fla.**
Subordinate Station: **Cape Canaveral**
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
0.8	3.5	4.1

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

Date: *23 May 1950*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **31.2**

Shoreline (More than 200 meters to opposite shore) (III): **32.2**

Shoreline (Less than 200 meters to opposite shore) (III): **11**

Control Leveling - Miles (II): **41**

Number of Triangulation Stations searched for (II): **12**

Recovered: **8** ✓

Identified: **6** ✓

Number of BMs searched for (II): **3**

Recovered: **1**

Identified: **1**

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

(number includes 3 section monuments)

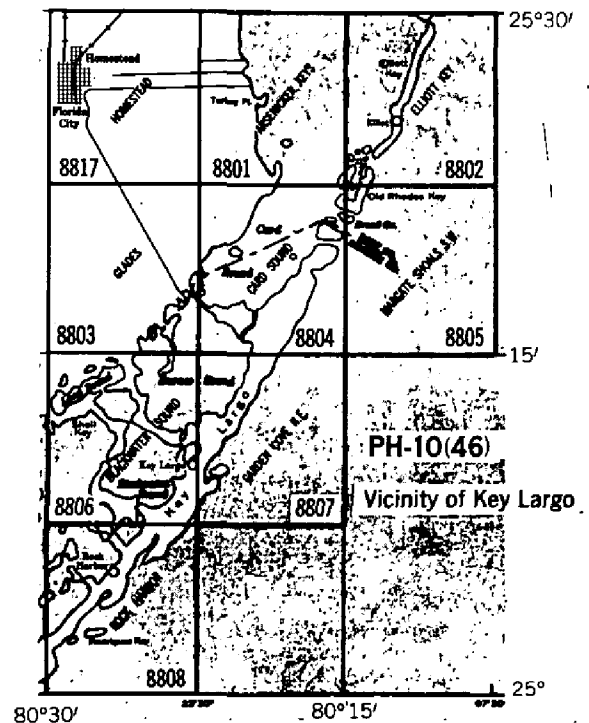
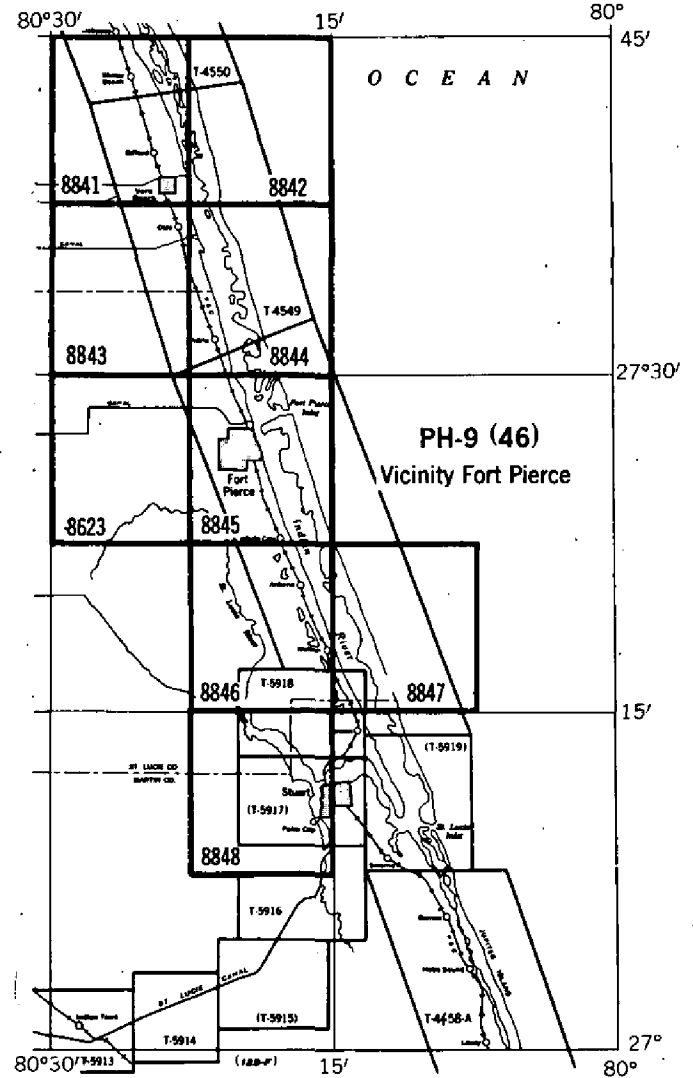
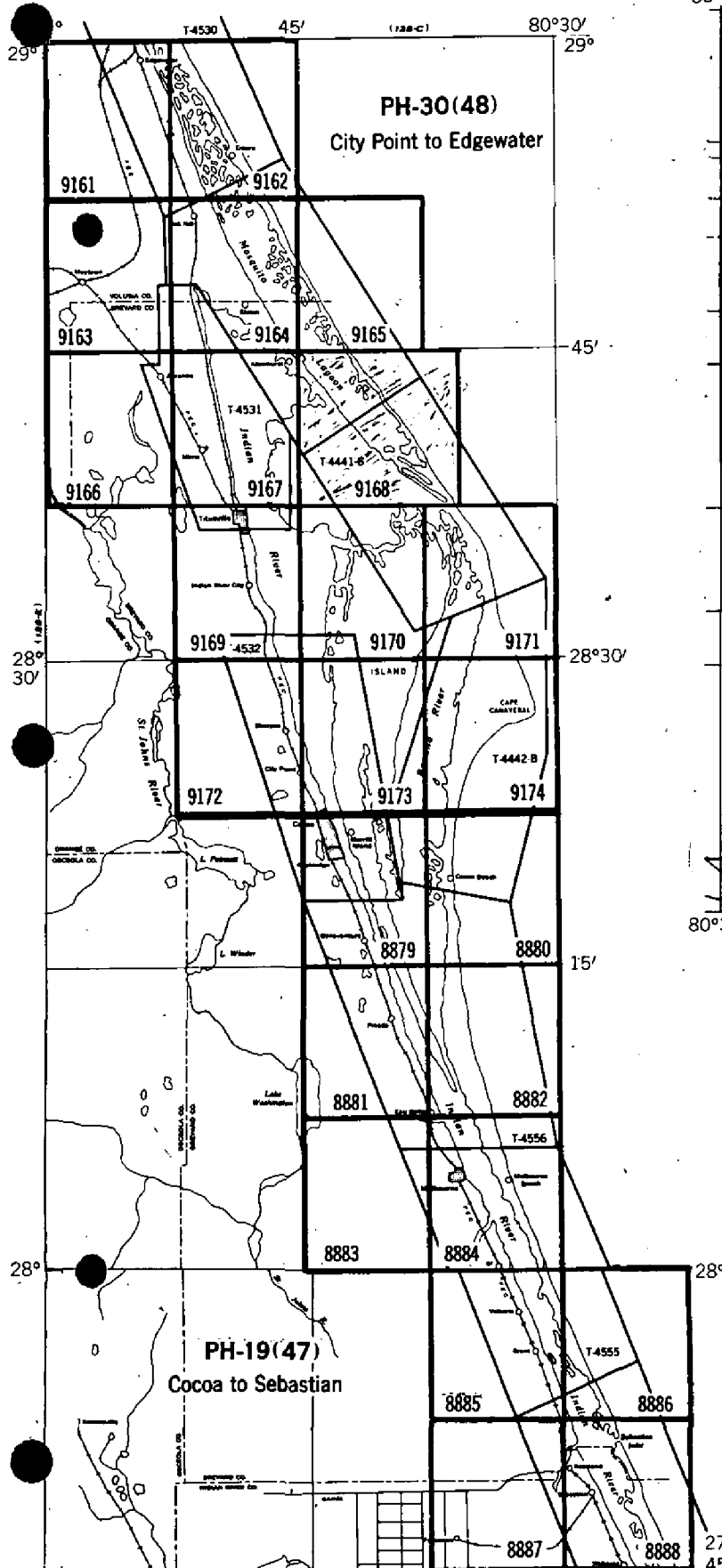
Number of Temporary Photo Hydro Stations established (III): **none**

Remarks:

TOPOGRAPHIC MAPPING PROJECTS

FLORIDA EAST COAST

5



Summary to Accompany T-9168

Topographic map T-9168 is one of fourteen similar maps in project Ph-30(48) and is located in the central portion of the project. It covers a portion of the Atlantic Ocean and Mosquito Lagoon and land area adjacent.

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 $8\frac{1}{2}'$ 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 topographic quadrangle.

Items registered under T-9168 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-9168
N 28°37.5' - W 80°37.5'/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), dated 13 July 1948, and applicable General Instructions.

Vertical control was established by James E. Hundley, Cartographer (Photo); W. Frank Therkildson, Cartographic Survey Aid; and Warren M. Gottschlich, Cartographic Survey Aid. Contouring and field inspection was by Jack T. Beecher, James A. Clear, Jr., and John C. Allen, Cartographic Survey Aids. All other work was by Cecil A. Navin, Topographic Engineer.

Field work was begun 27 October 1948 and completed 20 April 1949.

1. DESCRIPTION OF THE AREA

The bulk of the land area lies in the SW part of the quadrangle and is bounded along the NW by Indian River North (Mosquito Lagoon). It consists of long sloughs, or savannas, that are thickly interspersed in a pattern that roughly parallels the shoreline. A small percentage of this land is now cultivable, and is devoted to large scale growing of gladioli and narcissi. The Soil Conservation Service is studying plans for the reclamation of a large percentage of the "slough land" in this general area.

The area described above converges into a low, well-drained, sand ridge in the NW corner of the quadrangle and is bounded on the SW by Indian River, and along the NW by Indian River North (Mosquito Lagoon). This ridge is cultivable, and supports several small citrus groves.

The remaining land area is the narrow beach ridge that is bounded on the NE by the Atlantic, and on the SW by Indian River North (Mosquito Lagoon).

The few inhabitants in the area have settled entirely in the western half of the quadrangle.

With the exception of the narrow beach strip, the quadrangle is served by an adequate road net. A through, ungraded, sand road serves the beach area, and is used primarily by surf fishermen.

Playalinda Beach, undeveloped at present, is located at the beach end of Florida State Road 402 and is the most accessible bathing beach between New Smyrna Beach and Canaveral.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection is believed to be adequate, and has been shown on the following photographs: 48-J-111, 48-J-112, 48-J-142, 48-J-143, 48-J-144, 48-J-145, 48-J-157, 48-J-158, 48-J-159, 48-J-160, 48-J-161 (all 2 of 2), and 48-J-162(1 of 1).

Field editor see paragraph 17.

3. INTERPRETATION OF THE PHOTOGRAPHS

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

No vegetation growths peculiar to this general area were encountered.

See Items 31 and 67

4. HORIZONTAL CONTROL

Twelve U.S.C. & G.S. stations were searched for; eight were recovered, and six were identified.

All photographs along flight line 48-J-157 through 48-J-161 were fixed, by locating an identifiable control station along a line through each photograph center and approximately normal to the flight line, by substitute station method. The data for these fixes were submitted in a cahier of observations and computations for this quadrangle. *filed in General Files, Division of Photogrammetry*

One azimuth mark (RM NO.3) WILSON 1934 was identified and form M-2226-12 submitted, *filed in Gen. Files, Div. of Photogrammetry*.

5. VERTICAL CONTROL

Three bench marks were searched for; one (EDM 6) was recovered and identified approximately on photograph 48-J-111(2 of 2).

Fourth order control was established along the beach by running a line of wye levels between bench mark EDM-6 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. *filed in General Files, Division of Photogrammetry*

The other fourth order control consisted of comparatively short lines controlled by EDM-6 and two other bench marks, just across the west quadrangle limits, and in quadrangle T-9167. The maximum error of closures in these loops was 0.27 ft., and no adjustments were necessary.

Temporary bench marks were set along 41 statute miles of 4th order levels for control of contours.

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 is slough land and has no distinguishable drainage pattern.

A satisfactory junction was made with quadrangle T-9165 to the north, quadrangle T-9167 to the west, and quadrangle T-9170 to the south.

Contouring was done on the following photographs: 48-J-111, 48-J-112, 48-J-142, 48-J-143, 48-J-144, 48-J-145, 48-J-157, 48-J-158, 48-J-159, 48-J-160, 48-J-161 (all 2 of 2), and 48-J-162(1 of 1).

7. MEAN HIGH WATER LINE

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

The MHWL has also been symbolized along Indian River and Indian River North (Mosquito Lagoon).

Shoreline inspection has been shown on the following photographs: 48-J-112 (1 of 2), 48-J-117(1 of 2), 48-J-144(1 of 2), 48-J-145(1 of 2), and 48-J-157 thru 48-J-161 inclusive (1 of 2).

8. LOW WATER LINE

No attempt was made to show the MLWL along the Atlantic, ^(See Item 56) Both Indian River and Indian River North (Mosquito Lagoon) are non-tidal bodies of water.

9. WHARVES AND SHORELINE STRUCTURES

Adequately labeled on the photographs.

10. DETAILS OFFSHORE FROM THE HIGH WATER LINE

Adequately labeled on the photographs. - *shoal lines. See Item 35*

11. LANDMARKS AND AIDS TO NAVIGATION

There are no landmarks within the quadrangle.

Mosquito Lagoon Daybeacons 54 and 55 were pricked direct, and forms M-2226-12 submitted.

Mosquito Lagoon Light 51 is discernible on the field photographs, and has been circled on photograph 48-J-146(1 of 2). *See Items 37 and 58*

All three aids are submitted on form 567, ^{copy} attached to this report.

12. HYDROGRAPHIC CONTROL

No photo-hydro stations required for this project.

13. LANDING FIELDS AND AERONAUTICAL AIDS

None.

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. **Filed in Div. Photogrammetry Office Files*

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

Two section corners, and one monument on section line were recovered and submitted on form 524.

$\frac{22}{27} | \frac{23}{26}$, T215, R36E ; $\frac{19}{30} | \frac{20}{29}$, 30/29, T20S, R36E

Twelve other section corners, and two points along section lines have been shown on the field photographs, and forms 524 are not submitted. These corners and points were identified from information supplied by Frank P. Schuster, Brevard County Surveyor, and were taken from road location surveys, land survey plats, and county photographs. See Items 57 & 69

Section line information has been shown on the following photographs: 48-J-111(1 of 2), 48-J-112(1 of 2), 48-J-142(2 of 2), 48-J-143(1 of 2), 48-J-144(1 of 2), and 48-J-146(1 of 1).

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

18. GEOGRAPHIC NAMES *U.S.*

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. Charts.*

19. TOPOGRAPHIC STATIONS

Seven monumented topographic stations were established, and forms 524 submitted.

See also Item 49

Trim 1949
Gate "
Able "
Card "
Horn "
Star "
Hold "

Five were located by pricking positions direct on the photographs; GATE by the photo-station method; and TRIM at traverse point "K" along traverse GOON 2 - PARDON (used for fixing photograph centers along the beach).

Submitted
11 May 1949

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

Approved and forwarded
11 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-9168

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 DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
KIANDIKE, 1934	G.P. P.148	N.A. 1927	28 44 16.960 80 41 49.390				522.1 (1325.0) 1340.2 (287.9)		
MOSQUITO LAGOON (southeast base) 1875	" P.148	"	28 44 07.943 80 44 58.125				244.5 (1602.6) 1577.2 (50.9)		
CLUB, 1934	" P.149	"	28 42 47.322 80 40 36.400				1456.8 (390.3) 987.9 (640.5)		
RICH, 1929	" P.177	"	28 42 49.962 80 40 37.262				1538.1 (309.0) 1011.3 (617.1)		
DUMMIT, 1934	" P.125	"	28 41 46.798 80 43 19.371				1440.7 (406.4) 525.8 (1102.9)		
GOON 2, 1934	" P.149	"	28 41 05.140 80 39 16.250				158.2 (1688.9) 441.2 (1187.8)		
WILSON, 1934	" P.149	"	28 38 35.532 80 41 55.913				1093.9 (753.2) 1518.6 (111.0)		
END, 1934	" P.149	"	28 38 36.091 80 37 27.859				1111.1 (736.0) 756.7 (872.9)		
TRAV. PT. "END C." Traverse (Opp 48J-161)	" Comp.	"	28 39 33.482 80 38 06.877				1030.7 (816.4) 186.7 (1442.6)		
PT. opposite Photo (48J-159)	"	"	28 42 15.039 80 40 09.988				463.0 (1384.1) 271.1 (1357.5)		
PT. opposite Photo. " 48J-158	"	"	28 43 32.108 80 41 14.053				988.4 (858.7) 381.4 (1246.9)		
PT. opposite Photo. " 48J-157	"	"	28 44 51.191 80 42 13.520				1575.9 (271.1) 366.8 (1261.1)		

1 FT. = 3048006 METER

COMPUTED BY R.R. Wagner

DATE May 10, 1949

CHECKED BY M.M. Slavney

DATE May 10, 1949

M-2388-12

345

PROJECT NO. Ph-30(48)

SCALE OF MAP 1 : 20,000

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: 3048006 M

R.R. Wagner

DATE May 10, 1949

CHECKED BY: **M.M. Slavney**

DATE May 10, 1949

M-2388-12

COMPILATION REPORT T-9168

PHOTOGRAMMETRIC PLOT REPORT

This report was submitted with the Descriptive Report for surveys T-9167, *Filed in the Division of Photogrammetry, Gen. Files*

31. DELINEATION

The delineation of this manuscript has been done by the graphic method.

The field inspectors apparently believed that large areas of vegetation, contained within the limits of this map manuscript, consisting of grass and palmetto were of sufficient density to be classified as scrub. Heretofore such areas have been classified as open. Attention is called to this because of the difficulty encountered making a junction with the quadrangle to the south (T-9170) where the field inspector labeled like areas as open.

See Item 67

Further trouble was encountered regarding the "scrub" label in areas where one field inspector labeled an area open while another labeled the same area "S". This condition may be observed on field photograph 48J-142.

With the exception of 48J-111, 112 and 113 all photographs were of good scale.

32. CONTROL

There was sufficient control both primary and secondary, to insure accurate detail points throughout the quadrangle. The scale of the photographs, in most cases, was sufficiently good to eliminate the excessive use of detail points.

33. SUPPLEMENTAL DATA

General Land Office Plats. *Filed in Gen. Files, Div. of Photogrammetry.*

34. CONTOURING AND DRAINAGE

No difficulties were encountered in transferring the contours from the photographs to the map manuscript. It was noted, however, that the topographer may have placed too much stress on the depression contours around very small intermittent ponds (see contour photograph 48J-142).

35. SHORELINE AND ALONGSHORE DETAILS

See Items 7 and 8 of the Field Inspection Report.

The shoreline inspection was adequate.

Low-water and shoal lines have not been shown. The low-water line was not shown by the field inspector and shoal lines were not definite enough to meet the requirements set out in the instructions. *See Item 56 & Item 68*

36. OFFSHORE DETAILS

No offshore details were noted by the field inspector.

See Items 10 & 35 & 68

37. LANDMARKS AND AIDS

The aids to navigation have been listed on form 567 by the field party and are being forwarded to the Washington Office with this report. *Form 567 (copy) attached to this report.*

Mosquito Lagoon Light 51 could not be pricked directly on the office photographs and the field editor has been requested to locate it by instrument. The position for this aid will be submitted after field edit. *See Item 58*

No landmarks were recovered.

38. CONTROL FOR FUTURE SURVEYS

Seven topographic stations and three monumented section corners are being submitted on Form 524 with this report.

These topographic stations have been listed and included in Item No. 49. *Also listed in Item 19.*

39. JUNCTIONS

This quadrangle joins survey T-9165 on the north, T-9167 on the west, and T-9170 and T-9171 on the south. It is bounded on the east by the Atlantic Ocean.

Junction has been made with all adjoining surveys with the exception of the vegetation junction with T-9170 noted in Item 31 of this report. *See Item 67*

40. HORIZONTAL AND VERTICAL ACCURACY

No statement required.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S. C. & G.S. Planimetric Maps T-4441-B and T-4440-B, compiled December and January 1929-1930 from photographs by U. S. Army Air Corps in April, 1928.

No outstanding differences, other than small ones to be expected because of time interval, were noted.

47. COMPARISON WITH NAUTICAL CHARTS

The planimetric maps listed under Item 46 are the main source of the planimetry on U.S. C. and G.S. nautical chart No. 1245 published September 1931, scale 1: 80,000, corrected to March 15, 1948 and the same differences are to be found.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted,

Rudolph Doysett
Rudolph Doysett
Cartographer (Photo.)

Approved and Forwarded:

Ross A. Gilmore
Ross A. Gilmore, 10/19/49
Chief of Party.

49. NOTES FOR THE HYDROGRAPHER

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

ABLE,	1949	✓
CARD,	1949	✓
GATE,	1949	✓
HORN,	1949	✓
HOLD,	1949	✓
STAR,	1949	✓
TRIM,	1949	✓

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9168

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 MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. ~~Photo hydrographic~~ 8. Bench marks J.G. 9. ~~XXXXXXXXXXXX~~ 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. 23. Stereoscopic instrument contours ~~XXXXXXXXXXXX~~ 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. ~~XXXXXXXXXXXX~~ 30. ~~XXXXXXXXXXXX~~

BOUNDARIES

31. Boundary lines WAR 32. Public land lines WAR

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 William A. Rasner
Reviewer WAR 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-9168

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 and tape methods were used to make corrections and additions not shown on the photograph. Corrections, deletions and additions have been noted on the discrepancy print, field edit sheet and photographs. In general, the additions to the photographs consist of outlined limits of changes in vegetation classification.

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

The reviewer's questions are answered on the discrepancy prints whenever possible. All work shown on the photographs is properly referenced on the discrepancy print.

Field edit information appears on the following photographs:

48J-142 (1 of 2), 48J-143, (2 of 2) and 48J-457, (2 of 2).

52. ADEQUACY OF COMPILATION

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 appeared good. One minor discrepancy was noted in contouring. In general, the topographic expression of the quadrangle is good.

54. RECOMMENDATIONS

None

55. EXAMINATION OF PROOF COPY

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

56. MEAN LOW-WATER LINE

The mean low-water line, Atlantic Ocean, was located by plane-table.

57. BOUNDARY MONUMENTS AND SECTION LINES

Numerous section corners in this area were searched for; but, to no avail.

58. AIDS TO NAVIGATION

Mosquito Lagoon Light 51 was located by instrument. Form 24A is submitted. ^(copy) Form 561 is attached to this report.

Approved and forwarded:

Ross A. Gilmore
Ross A. Gilmore, 11/5/50
Chief of Party.

James E. Hundley
James E. Hundley
Cartographer (Photo.)
November 22, 1949

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS/FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Titusville, Florida

20 April, 1949

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

The positions given have been checked after listing by John C. Richter

Tampa Photogrammetric Office

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

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE	LONGITUDE	D. M. METERS	D. P. METERS						
FLORIDA	MOSQUITO LAGOON LIGHT 51 -	stop black square daymark with yellow border on 3 pile dolphin, 12 ft. above MHW.		28 44	80 44	47 12 42	59 12 42	Radial Plot T-9168	1949		x		844
						Position not submitted after field edit							
FLORIDA	MOSQUITO LAGOON DAYBEACON 54 -	red triangle daymark with yellow border on white pile, 12 ft. above MHW.		28 44	80 44	1110	1428	"	"		x		"
													*
FLORIDA	MOSQUITO LAGOON DAYBEACON 55 -	black square daymark with yellow border on white pile, 12 ft. above MHW.		28 44	80 44	1040	1400	"	"		x		"
													*
* Position obtained by radial plot agrees with that obtained by survey T-6822a, 1941. EWA													
		See Photo 48J-145 (1 of 2) for Mosquito Lagoon Light 51											

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED

STRIKE OUT ONE

Tampa, Florida

December 29, 1949

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

The positions given have been checked after listing by **R. Dossett**

Tampa Photogrammetric Office

Wm. A. Gilmore
Chief of Party.

[illegible]

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

48. GEOGRAPHIC NAME LIST

- ATLANTIC OCEAN ✓
- BAID PATE CREEK ✓
- BULL CAMP ✓
- CLARK SLOUGH ✓
- CUCUMBER SLOUGH ✓
- CUCUMBER ISLAND ✓
- DUMMIT COVE ✓
- DUMMIT CREEK ✓
- DUMMIT GROVE ✓
- EAST MAX HOECK CREEK ✓
- EDDY POINT ✓
- EDDY CREEK ✓
- GALLINIPPER BASIN ✓
- GALLINIPPER POINT ✓
- GRANNY COVE ✓
- HAULOVER CANAL (not on this sheet: only direction note)
- KLONDYKE BEACH ✓
- MAX HOECK BACK CREEK ✓
- MAX HOECK CREEK ✓
- MAX HOECK DOCK ✓
- MIDDLE BANKS ✓
- MOSQUITO LAGOON ✓
- OLD CANAL ✓
- PELICAN ISLAND ✓
- PLAYALINDA BEACH ✓
- RAGIN FISH CAMP ✓
- TURTLEPEN POINT ✓
- WILSON ✓ (suggested as title)

- Florida
- Brevard County
- Fla. No. 3
- Fla. No. 402
- Intracoastal Waterway
- Wilson Methodist Church

Names preceded by .
are approved. 4-3-44
L. Heck

5-22-50
A.J.W.

Review Report for T-9168
Topographic Map
23 May 1950

62. Comparison with Registered Topographic Surveys:

T-1423	1:20,000	1874-75
T-4441	1:20,000	1928
T-4440	1:20,000	1929
T-6822	1:10,000	1941

This survey supersedes these prior surveys for nautical charting purposes for 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

No significant differences exist between these charts and T-9168.

66. Adequacy of Results and Future Surveys:

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

67. Delineation:

According to the Field Edit Report for map T-9170 (Item 59) "open" areas are practically non-existent in this vicinity, except for graded areas. "Open" areas on Map T-9170 were reclassified as scrub by the field editor and this manuscript has been changed to conform to that classification.

68. Details Offshore From the Mean High Water Line:

A shoal line in the vicinity of Haulover Canal, which marks the approximate channel of the Intracoastal Waterway, is shown on the manuscript. This was located by the compiler without benefit of field inspection and is subject to change or verification with the addition of hydrographic information.

69. Boundary Monuments and Section Lines:

Section monuments identified on the field photographs from information furnished by the Brevard County Surveyor (see Item 17) and searched

T-9168
23 Map 1950

-2-

for during field edit (see Item 57) are all in T-215, R36E. Since none of these monuments were recovered, the section corners are shown as theoretical. During the Washington review, these corners were checked against the General Land Office plats. If they agreed with the G.L.O. plats, the lines were shown as reliable. If they disagreed the lines were shown as unreliable. Many of these lines are marked by roads or other cultural features.

Along the barrier beach, shown on the manuscript, there was no recovery of section lines. Because the G.L.O. plats were greatly generalized and because distances on these plats did not scale well on the manuscript for this area, all lines are shown as approximate.

There were no political boundaries to be shown in this area.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

Approved by:

A. V. Griffith
Chief, Review Section
Division of Photogrammetry

M. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

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

HISTORY OF HYDROGRAPHIC INFORMATION

T-9168, Florida

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry request of 26 July 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:

USC&GS Hydrographic Surveys

H-1291 (1875)	1:20,000
H-4935 (1929)	1:40,000
H-4946 (1929)	1:40,000
H-6676 (1941)	1:10,000

USC&GS Nautical Charts

844 (1949)	1:40,000
1245 (1949)	1:80,000

Bottom contours are shown at 0 (represented by a dotted line), 6, 12, 18, and 30 feet.

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

R. E. Elkins
R. E. Elkins - 9/25/50
Nautical Chart Branch