

9162

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-9162

LOCALITY

State FLORIDA

General locality EAST COAST

Locality VOLUSIA COUNTY

194 50

CHIEF OF PARTY

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

R. A. Gilmore, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE April - 1 - 1953

9162

DATA RECORD

T -9162

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, Florida

Officer-in-Charge: Ross A. Gilmore

Instructions dated (II) (III) The Director's Instructions, Project
Ph-30(48), dated 13 July 1949

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): 1-3-50

Date reported to Nautical Chart Branch (IV): 1-6-50

Applied to Chart No.

Date:

Date registered (IV): 19 May 1952

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): TURTLE MOUND, 1874

Lat.: 28° 55' 50" 143 (1543.7)

Long.: 80° 49' 38" 950 (1055.0)

Adjusted
Unadjusted

Plane Coordinates (IV):

State: Florida Zone: East

Y = 1,671,024.06 Feet

X = 555,184.06 Feet

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.

All contouring by
Jack T. Beecher, Cartographic
Survey Aid

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

DATA RECORD

Field Inspection by (II):

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

Date:

7 Apr - 25 May 1949
 25 Jan - 26 May 1949

Planetable contouring by (II):

Jack T. Beecher, Cartographic Survey Aid

Date:

7 Apr - 3 May 1949

Completion Surveys by (II):

J. E. Hundley

Date: Feb, 1950

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

Air Photo Compilation

2-6-49

5-20-49

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

Date: Oct. 15, 1948

Projection and Grids checked by (IV): W.E. W. (W.O.)

Date: Oct. 15, 1948

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

Date: Nov. 5, 1948

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

Date: Nov. 9, 1948

Radial Plot ~~to Stereoscopic~~ M.M. Slavney
~~compilation~~ by (III):

Date: June 30, 1949

Planimetry
 Stereoscopic Instrument compilation (III):
 Contours

Date:

Date:

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

Date: Sept., 1949

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

Date: Nov., 1949

Elevations on Manuscript

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

Date:

Nov. 1949

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

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
48J-151	2-18-48	1404	1: 20,000	1.7
48J-501-505	4-21-48	1308-09	"	- 0.25
⁵¹⁰ 48J-511-514	"	1320-22	"	"
48J-621				

Tide (III)

Reference Station: MAYPORT, FLORIDA
Subordinate Station: Ponce De Leon Inlet
Subordinate Station:

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

Washington Office Review by (IV):

J. L. Rihn

Date: 29 Aug 50

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

L.M. Gazik

Date: 31 Oct 1951

Land Area (Sq. Statute Miles) (III): 21

Shoreline (More than 200 meters to opposite shore) (III): 46 Statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 62 " "

Control Leveling - Miles (II): 23 4th Order

Number of Triangulation Stations searched for (II): 6 Recovered: 6 Identified: 6

Number of BMs searched for (II): 1 Recovered: 0 Identified: 0

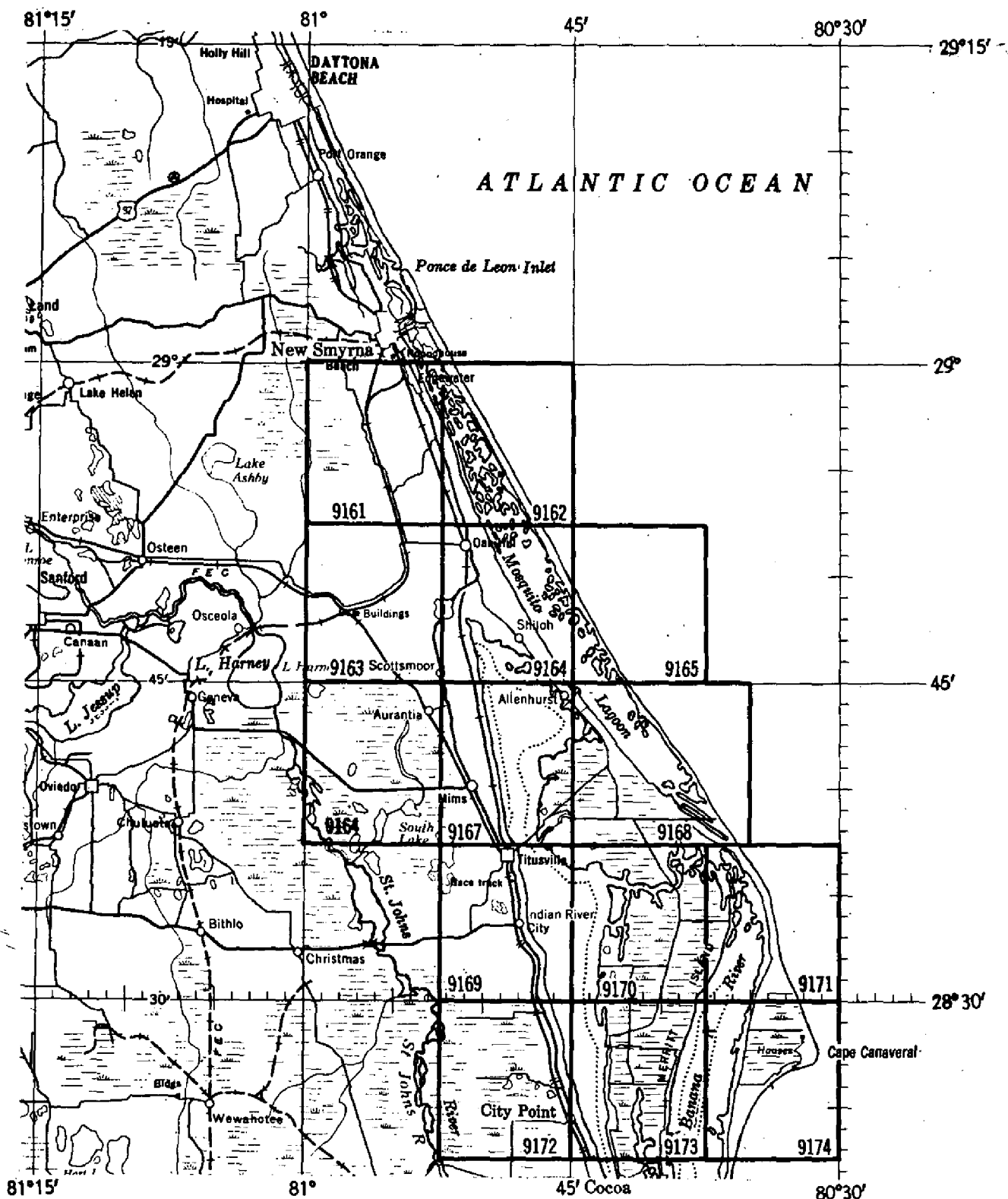
Number of Recoverable Photo Stations established (III): 15

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

Remarks:

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

6

Summary to Accompany T-9162

This map is one of a series of 14 topographic 7½ minute quadrangles in Project Ph-30(48) and is one of the northernmost maps in the project. It covers part of Indian River North, Florida. These topographic maps were compiled at 1:20,000 scale and are to be published by the U. S. Geological Survey as standard topographic quadrangles.

The registered copies under T-9162 will include the original descriptive report, a cloth-mounted print of the manuscript at a scale of 1:20,000, and a cloth-mounted color print of the published map at a scale of 1:24,000.

FIELD INSPECTION REPORT
QUADRANGLE T-9162
N 28°47.5' - W 80°45.0'/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, except for deviations noted in paragraph 16.

Horizontal and vertical control recovery, horizontal control identification, and shoreline inspection was by Cecil A. Navin, Topographic Engineer. Vertical control was established along the beach by James E. Hundley, Cartographer(Photo), and on the mainland by Warren M. Gottschlich, Cartographic Survey Aid. Public land line monument recovery and identification was by Grover B. Torbert, Cartographic Survey Aid. All other work was by the writer, Jack T. Beecher, Cartographic Survey Aid.

1. DESCRIPTION OF THE AREA

Approximately 30% of the total area is land and is situated in the SE part of the geographical limits of the quadrangle. This land area is bounded on the NE by the Atlantic and divided by Indian River North (Mosquito Lagoon and Hillsborough River) that parallels the Atlantic.

East of the river thread are numerous marshy islands with heavy growths of marsh grass and mangrove. A row of small spoil bank islands, mostly bare of vegetation, lie along the east side of the Intracoastal Waterway channel (river thread).

The beach area, between the river and the Atlantic, is extremely narrow in the central part of the quadrangle, but broadens considerably near the north and south limit of the quadrangle. A very narrow prominent sand ridge, between 15 and 30 feet high, closely parallels the Atlantic and is covered with scrub palmetto. The land on the river side is lower than the beach and supports a heavy growth of palm and oak. The area is sparsely settled, and most of the houses and fish camps are along the river shore in the vicinity of Eldora. An unpaved road along the west side of the ridge, passable at all seasons, makes the area easily accessible from New Smyrna Beach to the north.

The mainland contains only approximately 5 square miles and is conspicuously undeveloped agriculturally. U. S. Highway No.1 parallels the Intracoastal Waterway approximately 1/2 mile inshore. The main line of the Florida East Coast Railway parallels the highway slightly less than 1/2 mile farther inshore. A narrow band of heavy palm and oak parallels the west shore of the river. Inshore, the virgin pine timber has been cutover, and the second growth merchantable pine is thinly interspersed. Other vegetation growths are palm, oak, and scrub palmetto. A few houses are located along U. S. Highway No.1 and several fish camps are found along the west bank of the river at the east end of graded sand roads that connect with U. S. Highway No.1 to the west.

The principal livelihood of the area is fishing.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection is believed to be adequate and has been shown on the following photographs: 48-J-151(1 of 2), 48-J-501, 48-J-502, 48-J-511 (1 of 2), 48-J-512(1 of 2), 48-J-513(1 of 2), 48-J-672(2 of 2), and 48-J-673 (2 of 2).

3. INTERPRETATION OF THE PHOTOGRAPHS

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

No vegetation growths peculiar to the general area were encountered.

4. HORIZONTAL CONTROL

Six U.S.C. & G.S. stations were searched for, recovered, and identified.

Photographs 48-J-151(1 of 2) and 48-J-513(1 of 2) were fixed by locating an identifiable control station, along a line through the photograph center and approximately normal to the flight line, by the substitute station method. The data for these fixes were submitted in "Horizontal Angle Book, Quadrangle T-9168" and forms M-2226-12 are submitted with this quadrangle.

5. VERTICAL CONTROL

There are no U.S.C. & G.S. bench marks within the quadrangle.

U.S.E. third-order BM-18 was not recovered after a thorough search, and is believed to be permanently lost.

Fourth-order control was established along the beach by running a line of wye levels between bench mark EDM-6 in quadrangle T-9168 along the outer beach to bench mark DA-216 north of quadrangle T-9162, a distance of 37.2 statute miles. Because of the original closure of 1.467 feet, a portion of the line which was run under unfavorable weather conditions was rerun giving a final closure of 0.960 feet. This was adjusted throughout the line. The line crosses four quadrangles, T-9168, T-9165, T-9164, and T-9162 and is recorded in four level books, one for the portion falling in each quadrangle. The record books are cross-referenced.

The fourth-order control for the mainland consisted of two short loops run along the highway and railway between nearby bench marks in adjoining quadrangles. The maximum error of closure was 0.17 ft., and no adjustment was necessary.

31 temporary bench marks were set along 23 miles of fourth-order levels for contour control.

- 3 -

6. CONTOURS AND DRAINAGE

All contouring on the mainland and the beach area was done by planetable methods, and because of a plethora of temporary bench marks there were no appreciable errors of closure.

The elevations shown on the spoil bank islands along the Intracoastal Waterway were transferred from the U.S.E. plans submitted with the field data. Several of the elevations were spot checked by wye level methods and found to be in good agreement with our datum, and the contours were shaped under the stereoscope.

A satisfactory contour junction was made with quadrangle T-9164 to the south and quadrangle T-9161 to the west.

Contouring was done on the following photographs: 48-J-151(2 of 2), 48-J-510, 48-J-511(2 of 2), 48-J-512(2 of 2), 48-J-513(2 of 2), 48-J-514(2 of 2), and 48-J-672(2 of 2).

7. MEAN HIGH WATER LINE

Ample measurements were taken along the Atlantic from identifiable detail to the MHWL (elev. 1.8 ft.) to prove that this line (MHWL) is represented on the photographs by a definite tone change. These measurements have been recorded and the MHWL symbolized at frequent intervals on the shoreline inspection photographs.

See item 58

The MHWL along Indian River North (Hillsborough River) has been adequately symbolized. Most of this shoreline is apparent.

Shoreline inspection has been shown on the following photographs: 48-J-151(1 of 2), 48-J-501, 48-J-502, 48-J-511(1 of 2), 48-J-512(1 of 2), 48-J-513(1 of 2), 48-J-514(1 of 2), 48-J-671, 48-J-672(1 of 2), and 48-J-673(1 of 2).

8. LOW WATER LINE

Ample measurements were taken, along the Atlantic, from identifiable detail points to the MLWL (elev. minus 1.8 ft.) to allow compilation of an approximate MLWL.

See item 59

In Indian River North (Hillsborough River) there is an average tide range of 2 to 3 feet at the north end and about 1 foot at the junction of Hillsborough River and Mosquito Lagoon.

All along Indian River North the displacement of the MLWL is too small to show.

9. WHARVES AND SHORELINE STRUCTURES

Adequately labeled on shoreline inspection photographs.

10. DETAILS OFFSHORE FROM HIGH WATER LINE

Believed adequately labeled on shoreline inspection photographs.

11. LANDMARKS AND AIDS TO NAVIGATION

Two landmarks are recommended for deletion and Form 567 submitted.

Four lights and nine daybeacons are submitted on Form 567. Two are discernible on the photographs, and the other eleven were located by theodolite cuts, and Forms M-2226-12 and 24A submitted.

See item 57

12. HYDROGRAPHIC CONTROL

None required for this project.

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

There are no bridges over navigable waters in this quadrangle.

16. BUILDINGS AND STRUCTURES

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

17. BOUNDARY MONUMENTS AND LINES

^{Seven}
~~Six~~ public land line monuments along the mainland were recovered, identified, and Forms 524 are submitted. Complete plans showing land lines for the mainland are submitted with quadrangle T-9161, and the recovered monuments in this area will allow accurate and complete plotting of all lines on the mainland.

Only one monument (township line) was recovered along the beach area, and Form 524 is submitted.

Land line information is shown on the following photographs: 48-J-524, 48-J-525, and 48-J-673(2 of 2).

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

*Filed in Div
of Photogrammetry*

18. GEOGRAPHIC NAMES

This is the subject of a special geographic names report for the entire project by Lowell I. Bass, Cartographic Survey Aid. *Filed in Geographic Name Section, Div. of Charts.*

19. TOPOGRAPHIC STATIONS

Five abandoned U.S.E. monumented stations (positions unavailable from Jacksonville District, U.S.E.), one natural object; and one standard U.S.C. & G.S. station monument were located as topographic stations, useable for hydrographic control, and Forms 524 are submitted.

Two azimuth marks were identified on the photographs. RM NO. 2 (Az Mk) ELDORA 1934 can be used for hydrographic control, and Form 524 is submitted. Form M-2226-12 is submitted for RM NO. 3 (Az Mk) OAK 1934.

Submitted
27 May 1949

Jack T. Beecher
Jack T. Beecher
Cartographic Survey Aid

Approved and forwarded
27 May 1949

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

COMPILATION REPORT, T-9162

PHOTOGRAMMETRIC PLOT REPORT

This report was submitted to the Washington Office with Descriptive Report for T-9167. *Filed in Div. of Photogrammetry.*

31. DELINEATION

The graphic method was used in delineating the manuscript.

Photographs were clear and of fair scale. Field inspection was adequate. Any discrepancies discovered have been noted on the discrepancy overlay.

32. CONTROL

Sufficient control was provided to cut in necessary detail points. All control was positively identified and well placed.

33. SUPPLEMENTAL DATA

U. S. E. Intracoastal Waterway Plans, scale 1: 2,400, dated September 7, 1935, were used in checking location of the waterway.

34. CONTOURS AND DRAINAGE

The contours along the ocean beach on field photographs 48J-510 and 511 were originally drawn with such a disregard for compilation instructions that a note to the compiler was included in the original Field Inspection Report.

It was felt that the contours were in too bad a condition to be shown correctly on the map manuscript from the original notes and contours. C. A. Navin, temporarily assigned to the Tampa Office, who did recovery and shoreline inspection in the area, re-drafted the contours on office photograph 48J-505 (adding pertinent notes) as far south as substitute point "ALDEN". These contours, as drawn under the stereoscope by Mr. Navin from photographs 48J-510 and 511, have been delineated on the map manuscript; however, spot elevations must still be added at the time of field edit.

*See IP 53
Field Edit Report*

35. SHORELINE AND ALONGSHORE DETAILS

No difficulty was encountered in the delineation of these features.

Shoreline inspection was adequate.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks or aeronautical aids.

See item 11

38. CONTROL FOR FUTURE SURVEYS

Fifteen cards (Form 524) are being submitted herewith.

Seven of the foregoing topographic stations, usable for hydrographic control, have been listed in Item 49.

Form 524 for ZIM (USE), 1949, has been destroyed and a Form 526 submitted instead, as a third order position was available for this station in this office.

In addition to the stations mentioned in Item 19, a point on Township Line 17/18 R35E can also be used for hydrographic control.

39. JUNCTIONS

This quadrangle joins the Army Map Service Port Orange quadrangle to the north, T-9161 to the west, T-9164 to the south, and is bordered by the Atlantic Ocean on the east.

Junctions are in good agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement necessary

*See item 67*46. COMPARISON WITH EXISTING MAPS

There is no topographic quadrangle of the area available for comparison.

Comparison was made with U.S.C. & G.S. Planimetric Map No. T-5430, scale 1: 20,000, compiled from aerial photographs taken by the U. S. Army Air Corps on April 30, 1928. Only minor cultural changes have taken place over most of the area. Changing the course of the Intra-coastal Waterway has altered the features to some extent. Many spoil islands were thrown up near the waterway.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with U. S. C. & G.S. Nautical Chart No. 843, scale 1: 40,000 (2nd edition), published November 1938, bearing a print date October 13, 1945.

The planimetric map listed in Item 46 was the source of most of the planimetry on the nautical chart. The same differences are to be found between the nautical chart and the map manuscript as were mentioned in Item 46.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded:

Ross A. Gilmore
 Ross A. Gilmore, 12/16/49
 Chief of Party.

Richard A. Reece
 Richard A. Reece
 Cartographic Survey Aid

50 PHOTOGRAMMETRIC OFFICE REVIEW

T- 9162

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) J.G. 7. Photo ~~by~~ ~~names~~ ~~XXXXXX~~ 8. Bench marks J.G. 9. Plotting of sextant fixes J.G. 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. ~~bridges~~ ~~XXXXXX~~ 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~~ ~~XXXXXX~~ 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 W.A.R. 32. Public land lines W.A.R.

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. Rasure
Reviewer 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:

51. METHODS

The field edit of this quadrangle was accomplished by traversing, via truck, all passable roads, by boat, and by walking to other areas in which the reviewer requested information, or for a general check on the adequacy of the map compilation.

Planetable, hand level, theodolite and tape methods were used to make corrections and additions.

All deletions have been noted on the field edit sheet. All additions and corrections have been noted on the field edit sheet, except the corrected contours between latitudes $28^{\circ} 58' 00''$ - $29^{\circ} 00' 00''$ and longitude $80^{\circ} 51' 00''$ - $80^{\circ} 52' 30''$ which have been shown on photograph 48J510 print No. 2 of 2. 1: 20,000.

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 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.

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 appear to be good.

Spot elevations and horizontal placement of contours were checked and corrected between latitudes $28^{\circ} 58' 00''$ - $29^{\circ} 00' 00''$ and longitudes $80^{\circ} 51' 00''$ - $80^{\circ} 52' 30''$. Some differences in spot elevations were found. The major error detected was that a good number of the spot elevations were horizontally displaced. *See item 60*

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that William E. Swope, Jr., Registered Engineer, 124 Canal Street, New Smyrna Beach, Florida, is best qualified to examine a proof copy of this quadrangle.

56. CULTURAL FEATURES

A cross country telephone line has been indicated on the field edit sheet. Two new roads and one fill have been shown on the field edit sheet.

57. AIDS TO NAVIGATION

Hillsborough River Light 189 was relocated. Form 24A is submitted.

58. MEAN HIGH WATER LINE

The mean highwater line, Atlantic Ocean, was checked and found to be in error beginning near latitude $28^{\circ} 57' 45''$ north to limits of the quadrangle. The correct mean high water line is indicated at intervals on the field edit sheet.

59. MEAN LOW WATER LINE

The mean lowwater line, Atlantic Ocean, was also corrected and is indicated, at intervals, on the field edit sheet.

60. REMARKS

In regards to the contouring that was corrected on the ocean beach, the spot elevations were established in the field on Photograph 48J-510 1: 10,000 scale and transferred to Photograph 48J-510 1: 20,000 scale, print 2 of 2. This transfer was made in order that the stereoscope could be used to place the contours nearer their proper position.

James E. Hundley
James E. Hundley
Cartographer (Photof)
February 28, 1950

Approved and Forwarded:

Arthur L. Wardwell,
Chief of Party.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

TR/BA/PAY/ET/ET

Titusville, Florida

6 May 1949

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

The positions given have been checked after listing by Richard A. Reese
Tampa Photogrammetric Office

George B. Morris, Jr. Chief of Party

STATE			FLORIDA			POSITION					METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE			DATUM								
			°	'	D. M. METERS	°	'		D. P. METERS							
HILLSBOROUGH RIVER LIGHT 189			28	56	1809	80	52	788	MA 1927	Radial Plot	1949	X			843	
HILLSBOROUGH RIVER DAYBEACON 190			28	56	869	80	52	328	"	"	"	X			"	
HILLSBOROUGH RIVER LIGHT 191			28	56	714	80	52	170	"	"	"	X			"	
HILLSBOROUGH RIVER DAYBEACON 193			28	56	387	80	52	066	"	"	"	X			"	
HILLSBOROUGH RIVER DAYBEACON 194			28	55	1350	80	51	1464	"	"	"	X			"	
HILLSBOROUGH RIVER DAYBEACON 195			28	55	776	80	51	1216	"	"	"	X			"	
HILLSBOROUGH RIVER DAYBEACON 196			28	54	1610	80	52	934	"	"	"	X			"	
HILLSBOROUGH RIVER LIGHT 197			28	54	1100	80	51	728	"	"	"	X			"	
HILLSBOROUGH RIVER DAYBEACON 198			28	54	160	80	51	350	"	"	"	X			"	
HILLSBOROUGH RIVER DAYBEACON 199			28	53	1373	80	50	1608	"	"	"	X			843	
MOSQUITO LAGOON DAYBEACON 2			28	53	733	80	50	1370	"	"	"	X			844	
MOSQUITO LAGOON DAYBEACON 4			28	53	186	80	50	1110	"	"	"	X			"	
MOSQUITO LAGOON LIGHT 5			28	53	223	80	50	1070	"	"	"	X			"	
Note: All descriptions agree with Light List, 1 June 1948. See item 66, This report.																

Note: All descriptions agree with Light List, 1 June 1948. See item 66, This report

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 recorded on this form. This data should be corrected for the date of observation.

NONFLUENT/ADDITIONAL LANDMARKS FOR CHARTS

~~TO BE DELETED~~

STRIKE OUT ONE

Titusville, Florida

6 May 1949

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be ~~deleted~~ *deleted from* the charts indicated.

The positions given have been checked after listing by

George B. Morris, Jr. 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	DATUM	D. P. METERS						
FLORIDA	TANK			28 54.6	80 49.1	NA 1927							804 1245
	WINDMILL			28 54.5	80 49.2								804 1245
<p>Note: The above landmarks are visible only from the old channel no longer maintained, and are not visible from new Intracoastal Waterway Channel or from the Atlantic Ocean.</p> <p>See item 66, this report</p>													
													20

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

STRIKE OUT ONE

March 10, 1950

The positions given have been checked after listing by Richard A. Reese

Arthur L. Wardwell *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Tampa, Florida

March 19 1950

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

The positions given have been checked after listing by

Richard A. Reese

Cartographic Survey Aid

ARTHUR L. HARVEY

Chief of Party:

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*

48. GEOGRAPHIC NAME LIST

- ARDEL ✓
- ATLANTIC OCEAN*
- BISSITTE BAY ✓
- BITTERSWEET COVE ✓
- BLUE HOLE ✓
- BOTHERATION CREEK ✓
- BOTTLE ISLAND ✓
- BOTTLE ISLAND CREEK ✓
- BRICKHOUSE COVE ✓
- CEDAR CREEK ✓
- CEDAR ISLAND ✓
- EAST CHANNEL ✓
- EIDORA ✓
- FLORIDA EAST COAST R.R. ✓
- FLA. 5 ✓
- FLA ALA ✓
- FOX SLIP ✓
- GAINES ISLAND ✓
- GAINES SLOUGH ✓
- INDIAN RIVER NORTH ✓
- INTRACOASTAL WATERWAY ✓
- MOELLER CAMP ✓
- MOSQUITO LAGOON ✓
- OAK HILL PUBLIC DOCK ✓
- ORANGE ISLAND ✓
- ORANGE ISLAND CREEK ✓
- OYSTER BAY ✓
- PACKWOOD PLACE ✓
- PLANTATION ISLAND ✓
- PUMPKIN POINT ✓
- SAND POINT
- SHIPYARD CANAL ✓
- SHIPYARD ISLAND ✓
- SLIPPERY CREEK ✓
- THREE SISTERS ISLANDS ✓
- TURNER FLATS ✓
- TURTLE MOUND ✓
- U. S. 1 ✓
- WEBSTER CREEK ✓
- Florida*

- Joseph Wales Grant
- C.E. McHardy Grant
- Jane Murray Grant

* = Decis BGN

• = Approved name

1-20-50

a.j.w.

Review Report T-9162
Topographic Map
29 August 1950

62. Comparison with Registered Topo Surveys.-This survey supersedes common areas on T-1344 (1874) 1:20,000; T-1415A (1875) 1:20,000; T-4133 (1925) 1:20,000; T-4345 (1928) 1:20,000; T-4440b (1928) 1:20,000; T-4530 (1928) 1:20,000; and T-4440a (1929) 1:20,000 *for nautical charting purposes*

63. Comparison with Maps of Other Agencies.- None

64. Comparison with Contemporary Hydro Surveys.- None

65. Comparison with Nautical Charts.-No. 843, 4-3-50 and No. 844 6-21-48, 1:40,000. Additions and corrections made during review have been shown in red ink on the manuscript. There are no changes of importance for nautical charting purposes.

66. Landmarks and Aids to Navigation.-Landmarks and aids are listed on Form 567 and filed as Chart Letter No. 19 (1950) in the Division of Charts. See carbon copy following Field Edit Report.

67. Adequacy of Results.-This map complies with national map accuracy standards.

68. Overlay.-An overlay has been prepared showing road classification, control, etc. This map will be edited and published by the U. S. Geological Survey.

Reviewed by:

Jack L. Rihn
Jack L. Rihn, Cartographer

APPROVED:

S. V. Griffith 3/6/53
Chief, Review Section
Div. of Photogrammetry

O. S. Reading
Chief, Div. of Photogrammetry

W. B. Munster
Chief, Nautical Chart Branch
Division of Charts *etc*

Earl O. Heston
Chief, Div. of Coastal Surveys
HR7

HISTORY OF HYDROGRAPHIC INFORMATION

T-9162, Florida

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry request of 5 October 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-4477 (1925)	1:20,000
H-4804 (1928)	1:40,000
H-4935 (1929)	1:40,000

USC&GS Nautical Chart

1245 (1949)	1:80,000
-------------	----------

Bottom contours are shown at 0 (represented by a dotted line), 6, 12, 18, 30, and 60 feet.

Hydrography has not been shown in Hillsborough River because the available material is considered to be inadequate for this compilation.

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

R. E. Elkins

R. E. Elkins,
25 October 1950
Nautical Chart Branch