8886

W.O.

Adv.

Orchid Nat. Wr.

Diag. Cht. No. 1246

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Office No. T-8886

LOCALITY

State FLORIDA

General locality EAST COAST

Locality BREVARD COUNTY

1947-'49

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE June 8, 1950

8-1870-1 (1)

8886

Form T-1

DATA RECORD

T- 8886

Quadrangle (II): ~~Anglers Inn~~ Project No. (II): Ph-19(47)

Field Office: Melbourne, Fla. Chief of Party: George E. Morris, Jr.

Compilation Office: Tampa, Fla. Chief of Party: Ross A. Gilmore

Instructions dated (II III): 21 Oct. 1946
28 May 1947

Copy filed in ~~Descriptive Report No. T-~~ Office Files, Div. of Photogrammetry. (VI)

Completed survey received in office:
10-22-48

Reported to Nautical Chart Section: 10-28-48

Reviewed: 15 Nov. 49 Applied to chart No. 845 Date: 11/14/49

Redrafting Completed:

Registered: 24 Apr 50 Published:

Compilation Scale: 1: 20,000 Published Scale: 1:24,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L.

Reference Station (III): EVANS, 1930

Lat.: 27° 54' 30."123 (927.2m) Long.: 80° 28' 28."533 (780.3m) Adjusted

State Plane Coordinates (VI): Florida East Zone

X = 669,691.48 Ft. Y = 1,299,699.68 Ft

Military Grid Zone (VI)

M-2467-12(3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
47J 381	Dec. 8, 1947	13:00	1:20,000	1.1 feet above MLW
47J 382	" " "	13:00	"	" " "
47J 383	" " "	13:00	"	" " "

Tide from (III): Mayport, Fla.

Mean Range: 3.0' (Atlantic Ocean) Spring Range: 3.5'

Camera: (Kind or source) Single Lens, U.S.C. & G.S.

Field Inspection by: Wilbur H. Nelson date: 23 March 1948

Field Edit by: J.E. Hundley date: Feb 1949

Date of Mean High-Water Line Location (III): March, 1948

Projection and Grids ruled by (III) M.E.W. (Wash. O.) date: 18 Aug. 1948

" " " checked by: " " date: 18 Aug. 1948

Control plotted by: R.R. Wagner date: 1 July 1948

Control checked by: B.F. Lampton date: 1 July 1948

Radial Plot by: M.M. Slavney date: 26 Aug. 1948

Detailed by: W.W. Dawsey date: 20 Sept. 1948

Reviewed in compilation office by: J.A. Giles date: 28 Sept. 1948

Elevations on Map Manuscript ~~Field Edit Sheet~~ checked by: J.A. Giles date: 28 Sept. 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 3

Shoreline (More than 200 meters to opposite shore): 11.3

Shoreline (Less than 200 meters to opposite shore): 1.8

Number of Recoverable Topographic Stations established: 6

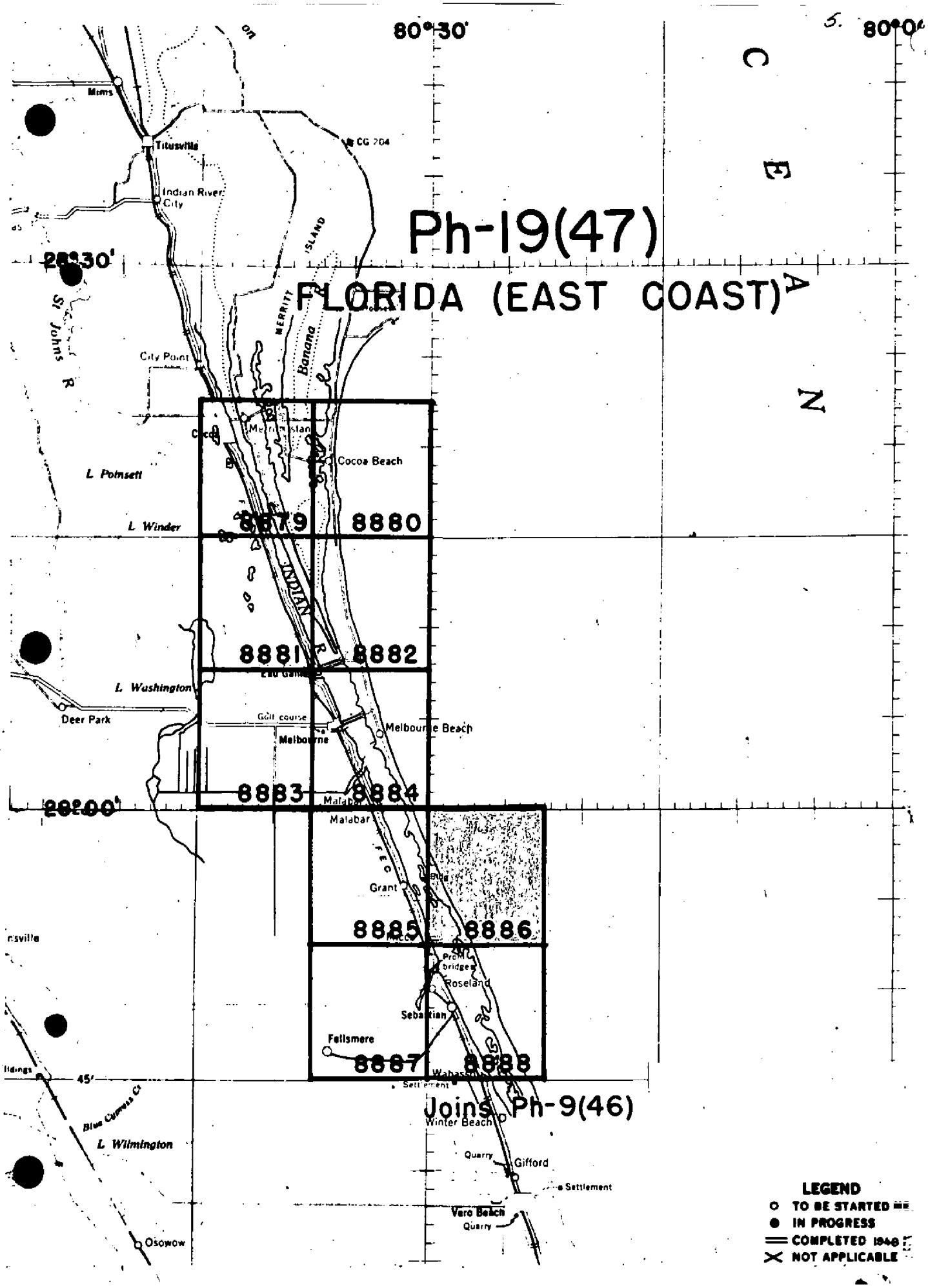
Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 6.5

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Remarks:


Ph-19(47)
FLORIDA (EAST COAST)
80°30'
80°00'
28°30'
28°00'
Mims
Titusville
Indian River City
CG 704
MERRITT ISLAND
Banana R
St Johns R
City Point
Cocoa
Cocoa Beach
L Poinsett
L Winder
8879
8880
INDIAN R
8881
8882
L Washington
Deer Park
Golf course
Melbourne
Melbourne Beach
8883
8884
Malabar
FEC
Grant
8885
8886
Roseland
Sebastian
Fellsmere
8887
8888
Wabasso
Settlement
Joins Ph-9(46)
Winter Beach
Quarry
Gifford
Vero Beach
Quarry
Blue Cypress Cr
L Wilmington
Osowow
45'
LEGEND
TO BE STARTED
IN PROGRESS
COMPLETED 1948
NOT APPLICABLE

Summary to Accompany T-8886

Topographic map T-8886 is one of 10 similar maps in project Ph-19(47) and is one of the easterly maps in the project. It covers part of Indian River, Florida. This is a graphic compilation project. The field operations preceding compilation included complete field inspection, and the delineation of the contours on the photographs by planetable methods. The manuscript was at a scale of 1:20,000. 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. The registered copies under T-8886 will include a cloth-mounted print of the manuscript at a scale of 1:20,000 and a cloth-mounted color print at a scale of 1:24,000.

FIELD INSPECTION REPORT

TO ACCOMPANY
QUADRANGLE T-8886
"ANGLERS INN"

N2752.5 - W8022.5/7.5

PROJECT Ph-19(47)

23 March 1948

1. DESCRIPTION OF THE AREA

This quadrangle lies within Brevard County on the East Coast of Florida. The area contains approximately 3.5 square statute miles of land. Elevations range from sea level to 24 feet on the highest sand dune near the beach along the Atlantic Ocean.

A single lane road runs the full length of the quadrangle with only a few private roads and trails running from it. Almost the entire area is covered with palm and scrub palmetto with mangrove in the marshes along the Indian River.

A large citrus grove at the northern end of the quadrangle is the only cultivated area of any commercial value. There are no towns or villages within the limits of this quadrangle.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection was done in accordance with project Ph-9(46) instructions dated 28 May, 1946 and other general instructions.

The field inspection was done on photographs 47-J-381, 47-J-382 and 47-J-383. It is believed to be adequate and complete.

There are numerous ditches in the cultivated area which appear very prominent on the photographs. These are shallow cultivation ditches and have been deleted on the photograph because of their temporary nature.

The road running the entire length of this quadrangle is locally known as the Melbourne Beach-Sebastian Inlet Road. It is hard surfaced for about 1.2 miles in the North portion; and the remainder, sand and shell surfaced.

3. INTERPRETATION OF THE PHOTOGRAPHS

The photographs are clear and easily interpreted. The light gray areas are, in most instances, palmetto and are classified as brush; all exceptions are clearly noted. All the dark areas are palm and live oak and are dense enough to be classified as trees. Sand and sand spots appear white.

4. HORIZONTAL CONTROL

The horizontal control recovered and identified for this quadrangle consists of ~~three~~ four U.S.C. & G.S. triangulation stations: (FLORIDA GOLD, 1930; EVANS 2, 1934; LONG 1930; SLIP 2, 1934). Two U.S.C. & G.S. triangulation stations: (EVANS, 1930; and SLIP, 1930) were recovered but not identified. Identification is on three photographs: 47-J-381, 47-J-382, and 47-J-383.

~~Two~~ One U.S.E.D. triangulation station: (~~LONG, 1930 and~~ PRM-CT, 1945) ~~were~~ was recovered along the Indian River and identified on photograph 47-J-382. ~~and 47-J-383 respectively.~~

5. VERTICAL CONTROL

No U.S.C. & G.S. bench marks fall within the limits of this quadrangle. Bench marks outside the limits of the quadrangle were recovered and used to establish control. A fly level line was run by James A. Clear, Engineering Aid, along the single principal road to provide a base for plane table contouring. Temporary bench marks were established at identifiable photo points and marked with either a bottle cap or a stake. All level lines were closed within the required limits of accuracy and records carefully checked. Adjustment was unnecessary. Level points are shown on contour photos with a cross, labeled with the quadrangle designation "GR" and numbered consecutively in blue ink with elevations shown to the nearest hundredth.

6. CONTOURS AND DRAINAGE

Contouring was done by a four man party, using planetable methods, on photographs 47-J-381, 47-J-382, and 47-J-383.

All planetable traverses of three setups or more were tied back to level points with a closure of 0.5 foot or less and adjusted.

All contouring was done by Wilbur H. Nelson, Engineering Aid.

7. MEAN HIGH WATER LINE

The ocean beach is a comparatively steep slope, the entire length of the quadrangle, and places the high water line close to the five-foot contour. It is identified on the photographs at intervals, by a red dashed line.

All the shore line along the East side of the Indian River through out this quadrangle is apparent, and has been noted as such on the photographs.

8. LOW WATER LINE

The mean low water line is very close to the mean high water line. Along the Atlantic Ocean it is identified at intervals on the photos, by a green dotted line.

The low water line along the East shore of the Indian River, is generally in the mangrove. No attempt was made to show the low water line.

9. WHARVES AND SHORELINE STRUCTURES

All existing piers and shoreline structures are designated on the photographs.

10. DETAILS OFFSHORE FROM THE HIGH WATER LINE

No offshore details appear in this quadrangle.

11. LANDMARKS AND AIDS TO NAVIGATION

The ocean shoreline was not inspected from offshore.

Indian River South Light "61" falls within the limits of the quadrangle. It has been indicated on photograph 47-J-383 and a list of directions from existing triangulation stations is submitted. See Review Report

No landmarks are recommended for charting in this quadrangle.

12. HYDROGRAPHIC CONTROL

No Hydrographic Control signals were required for this quadrangle.

13. LANDING FIELDS AND AERONAUTICAL AIDS

No landing fields or aeronautical aids are located in this quadrangle.

14. ROAD CLASSIFICATION

All roads are classified in accordance with Photogrammetry Instructions No. 10 as amended 24 October 1947.

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. Buildings and other items to be deleted have been crossed out in green ink.

17. BOUNDARY MONUMENTS AND LINES

One section corner was recovered and is identified on photograph 47-J-382. This quadrangle lies wholly within precinct No.6 of Brevard County.

18. GEOGRAPHIC NAMES

This is the subject of a Special Report, Project Ph-19(47) which will be submitted at a later date to the Washington Office. Filed in Geographic Name Section, Div of Charts

(4)

19. TOPOGRAPHIC STATIONS

Four new topographic stations were established in this area and identified on the following photographs: 47-J-381, 47-J-382, and 47-J-383.

20. JUNCTION WITH ADJOINING QUADRANGLES

A junction was made with T-8885 to the West and with quadrangle T-8888 to the South. All junctions are in good agreement. There are no adjoining quadrangles to the North or East.

Wilber H. Nelson
Wilber H. Nelson
Engineering Aid

Approved and Forwarded

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

MAP T-8886 PROJECT NO. Ph-19(47) 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 FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
LONG, 1930	G.Ps. P.706	N.A. 1927	27 52 33.263			1023.9 (823.0)	
			80 28 31.800			869.9 (771.4)	
SLIP, 1930	G.P. P.180	"	27 53 11.359			349.7 (1497.2)	
			80 27 42.729			1168.7 (472.4)	
SLIP 2, 1934	P.154	"	27 53 11.272			347.0 (1499.9)	
			80 27 43.217			1182.1 (459.0)	
PRM-CT (use)	USED	"	1,298,393.58	8,393.58 (1606.42)		2558.4 (489.6)	
			668,583.61	8,583.61 (1416.39)		2616.3 (431.7)	
EVANS, 1930	G.Ps. P.179	"	27 54 30.123			927.2 (919.7)	
			80 28 28.533			780.3 (860.5)	
EVANS 2, 1934	G.Ps. P.154	"	27 54 28.814			886.9 (960.0)	
			80 28 29.532			807.6 (833.2)	
FLORIDAGOLD 1930	G.Ps. P.127	"	27 56 00.530			16.3 (1830.6)	
			80 29 21.664			592.3 (1048.1)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY E.C. Andrews DATE April 21, CHECKED BY R.R. Wagner DATE April, 30, 1948

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8886

26 AND 27 CONTROL AND RADIAL PLOT:

These items will be the subject of a special report to be submitted in the near future by M.M. Slavney, Photogrammetric Engineer. Filed in Div. of Photogrammetry General Files.

28. DELINEATION:

The 1: 20,000 scale single -lens ratio photographs were used in the delineation of this map manuscript. The photographs were of good scale. No difficulties were encountered in the delineation from these photographs. The field inspection was adequate.

29. SUPPLEMENTAL DATA:

None.

30. MEAN HIGH-WATER LINE:

The mean high-water line was delineated according to the field inspector's notes on the field photographs.

31. LOW WATER AND SHOAL LINES:

The low-water line was delineated according to the field inspector's notes on the field photographs.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

None needing further attention by the hydrographic party.

33. WHARVES AND SHORELINE STRUCTURES:

All shoreline structures were delineated according to the field photographs.

34. LANDMARKS AND AIDS TO NAVIGATION:

One non-floating aid to navigation lies within the limits of this quadrangle. It was located by the radial plot method. Lists of directions were submitted by the field inspector and were used to check the position established by the radial plot method. An identical position for the non-floating aid was arrived at by both procedures.

35. HYDROGRAPHIC CONTROL:

None required.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None

37. BRIDGES:

None

38. SECTION CORNERS POLITICAL BOUNDARIES:

One section corner was recovered. This was located by radial plot methods.

39. GEOGRAPHIC NAMES:

Geographic names as shown on the name sheet received from the Washington Office have been applied to the map manuscript. Approved list of names is attached.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

No topographic quadrangle was available for comparison. A comparison was made with planimetric maps No. 4550 and No. 4555, 1: 20,000 scale, compiled by the U.S. Coast and Geodetic Survey in 1930. The comparison shows good agreement of all important details.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the 1: 40,000 scale Coast and Geodetic Survey Nautical Chart No. 845, dated March 3, 1947. The comparison was considered good. Several roads leading west from the main beach road appearing on the nautical chart were not shown on the topographic manuscript due to the fact that they appear to be completely overgrown and abandoned on the photographs.

Respectfully submitted,

W. W. Dawsey

W. W. Dawsey,
Photo. Aid

Approved and Forwarded:

Ross A. Gilmore

Ross A. Gilmore, 10/19/48
Chief of Party.

FIELD EDIT REPORT

QUADRANGLE T-8886

PROJECT PH-19(47)

The field edit of this quadrangle was accomplished in accordance with Field Edit Instructions dated 24 August 1945 and Supplement I dated 4 February 1946. Actual field work was started and completed 25 February 1949.

46. METHODS

Field edit was accomplished by traversing, via truck, all passable roads, and walking to other areas in which the reviewer requested information.

Planetable and tape methods were used to locate corrections and additions not shown on the photographs. On the field edit sheet, red ink was used to show corrections and additions; green ink for deletions. Black ink was to show all corrections on the photographs.

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

47. ADEQUACY OF COMPILATION

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

48. ACCURACY TESTS

No accuracy tests were required for this quadrangle. The map is believed to comply with standard horizontal and vertical accuracy specifications. Information concerning the two nearest map accuracy tests was not available.

49. TOPOGRAPHIC EXPRESSION

The topographic expression of the quadrangle is considered adequate.

50. SECTION LINES

Section corner 7, 8, - 18, 17, T30S, R39E, was located by planetable on the field edit sheet, and Form 524 is submitted.

A planetable search was made for section corner 36, 31, - 1, 6, T29-30S, R38-39E, in the area plotted by the compiler. No corner was found. However, a later check with Mr. Frank P. Schuster, County Surveyor, revealed that the corner was in; it has been plotted on the field edit sheet from reference measurements furnished by the County Surveyor.

51. EXAMINATION OF PROOF COPY

It is believed that Mr. Harry W. Damerow, registered land surveyor and city engineer of Vero Beach, is best qualified to examine a proof copy of this quadrangle.

Submitted
28 February 1949

James E. Hundley
Cartographer(Photo)

Approved and forwarded
8 March 1949

George E. Morris, Jr.
Chief of Party

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS FOR CHARTS~~

TO BE CHARTED
~~TO BE DELETED~~
STRIKE OUT ONE

Melbourne, Florida 15 April, 1945

I recommend that the following objects which have ~~(have not)~~ 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 W.W. Dawsey, Tampa Photogrammetric Office

T-8886

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

STATE **FLORIDA**

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				DATUM	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							
LIGHT 61	Indian River South Light 61. Black square daymark with yellow border, on pile structure.		27° 53′	531	80° 29′	1089	NA 1927	Radial Plot T-8886	12 Apr. 45		x		845

GEOGRAPHIC NAMES

Survey No. T-8886

7½' quad, Fla

Name on Survey	A Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Florida									USGB	1
Atlantic Ocean										2
Brevard County										3
U.S. No. 1										4
Intracoastal Waterway									USGB	5
Indian River										6
Micco										7
Mud Hole										8
Long Point Creek										9
Nancy Creek										10
Mathers Cove										11
Pepper Cove										12
Pepper Point										13
Ballard Cove										14
Ballard Pines										15
Latham Hole										16
Latham Island										17
Middle Gap										18
Mullet Creek										19
Anglers Club										20
Evans Pines										21
State No. A1A										22
										23
										24
										25
										26
										27

Names underlined in red are approved, based on recent reports on names for the area. Subject to final check by Field Edit.

12/21/48 L. Heck

M 234

Review Report T-8886
Topographic Map
15 November 1949

62. Comparison with Registered Topographic Surveys

This survey supersedes common areas on T-1478(1879) 1:20,000; T-4550 (1930) 1:20,000; T-4555 (1930) 1:20,000 for nautical charting purposes.

63. Comparison with Maps of Other Agencies

None

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

#845 8/9/48 1:40,000. No changes affecting the chart have been made since the application of this survey to the chart.

66. Adequacy of Results and Future Surveys:

This map complies with national map accuracy standards.

67. Navigational Aids and Landmarks:

Light 61 is listed on form 567 and filed as Chart Letter #767(48) in the Division of Charts. See carbon copy following Field ~~Inspection~~ Edit Report.

68. Overlay:

An overlay has been prepared showing road classifications, control, etc.

Reviewed by:

Jack L Rihn
Jack L. Rihn, Cartographer

Approved by:

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

H C Johnston
Chief, Nautical Chart Branch
Division of Charts

O S Reading
Chief, Division of Photogrammetry

Wm. Haight
Chief, Division of Coastal Surveys

HISTORY OF HYDROGRAPHIC INFORMATION

T-8886, Florida

Hydrography was applied to this manuscript in accordance with Division of Photogrammetry request of November 21, 1949; and with general specifications of May 18, 1949. [omitted on register copy]

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

H-1491a	(1881)	1:20,000
H-5039	(1930)	1:40,000

Chart 845 1:40,000, printed 1/23/50, corrected 2/6/50.

Chart 1246 1:80,000, printed 4/4/43, corrected 2/6/50.

The depth curves are drawn at 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 - 2/27/50
Nautical Chart Branch