

# 8881

Matbourne NW, FL.  
Edu Gallie

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-8881

#### LOCALITY

State Florida

General locality East Coast

Locality Brevard County

194 7-'49

#### CHIEF OF PARTY

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

R.A. Gilmore, Tampa Photo. Office

#### LIBRARY & ARCHIVES

DATE June 13, 1950

B-1870-1 (1)

# 8881

## DATA RECORD

T- 8881

Quadrangle (II):

Project No. (II): Ph-19(47)

Field Office: Cocoa, Florida

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

Div. of Photogrammetry  
 Copy filed in Descriptive  
~~Report No. T-1~~ (VI)

Completed survey received in office: 4-4-49

Reported to Nautical Chart Section: 4-8-49

Reviewed: 2 Feb 50

Applied to chart No. 845

Date: 11/10/49

Redrafting Completed:

Registered: 26 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): MSL ✓

Reference Station (III): EAU GALLIE TANK, 1934 ✓

Lat.: 28° 07' 57.834 (1780.3)m  
 58.1222 (1792.3m) Long.: 80° 38' 10.305 (281.2)m  
 10.1502 (286.6m)

Adjusted

~~Unadjusted~~

State Plane Coordinates (VI): Florida East Zone

X = 617,254.46 Feet

Y = 1,381,077.63 Ft.

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
47J419	Dec. 8, 1947	1027	1: 20,000	No periodic tides.
47J420	"	1028	"	
47J421	"	1029	"	
47J422	"	1029	"	
47J423	"	1030	"	
47J459	"	1059	"	
47J460	"	1059	"	
47J461	"	1100	"	
47J462	"	1101	"	
47J463	"	1102	"	
47J464	"	1103	"	
47J538	"	1207	"	
47J539	"	1208	"	
47J540	"	1209	"	

Mean Range: ----

Spring Range: ----

Camera: (Kind or source) Single lens

Field Inspection by: C.A. Navin  
L.F. Beugnet

date: June 1948 to  
Sept. 1948

Field Edit by: J.E. Hundley

date: June 1949

Date of Mean High-Water Line Location (III): Sept. 1948

Projection and Grids ruled by (III) T.L.J.(Wash. Office) date: Feb. 5, 1948

" " " checked by: " " date: Feb. 5, 1948

Control plotted by: R.R. Wagner date: July 7, 1948

Control checked by: C. Baldwin date: July 13, 1948

Radial Plot by: M.M. Slavney date: Sept. 24, 1948

Detailed by: I.I. Saperstein date: Feb. 1949

Reviewed in compilation office by: J. A. Giles date: March, 1949

Map Manuscript  
Elevations on ~~Field Edit Sheet~~  
checked by: J.A. Giles

date: March 1949

STATISTICS (III)

Land Area (Sq. Statute Miles): 53 Square miles

Shoreline (More than 200 meters to opposite shore): 20 statute miles  
Shoreline (Less than 200 meters to opposite shore): 1.5 statute miles

Number of Recoverable Topographic Stations established: 30

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 56.2 miles

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:

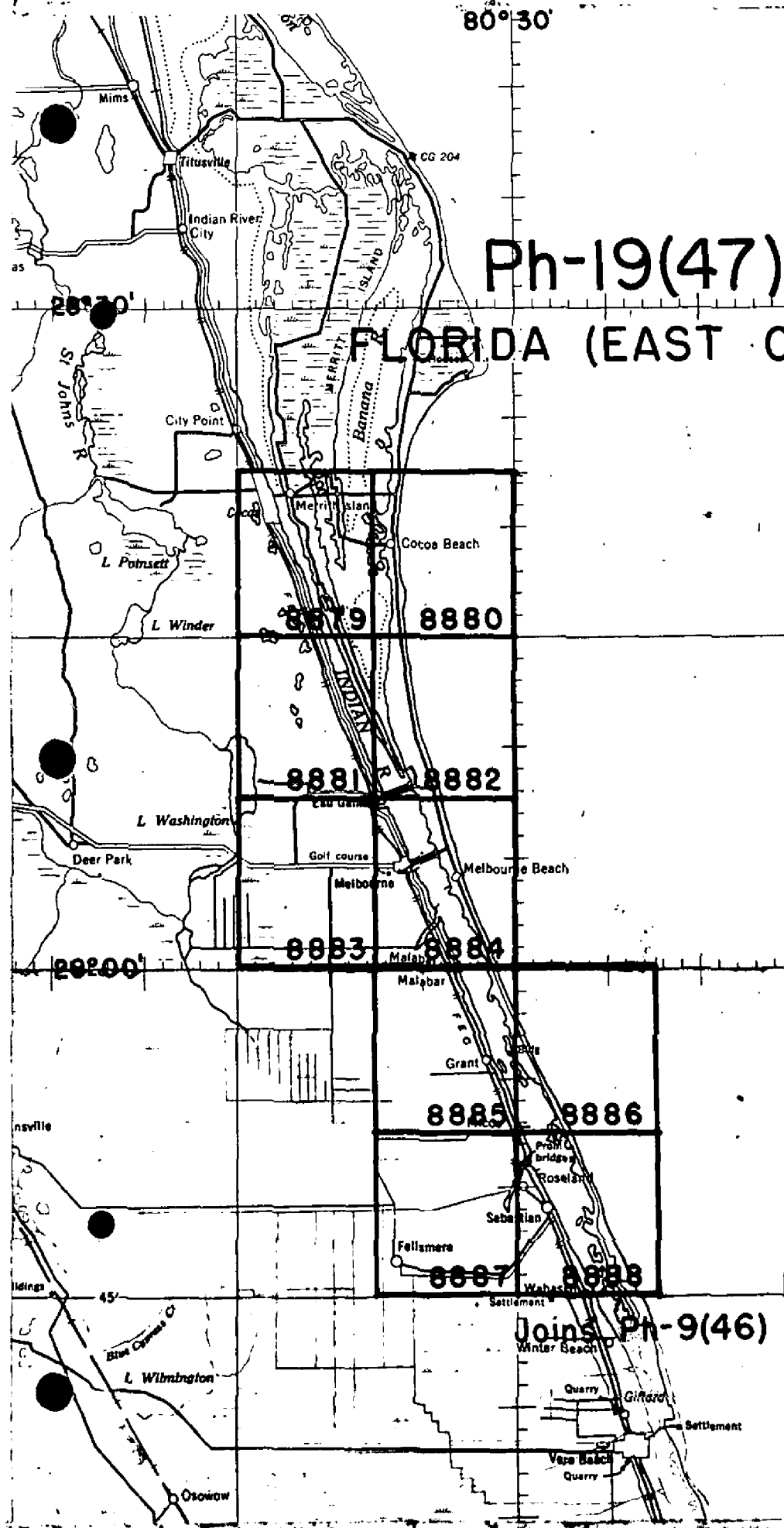
80°30'

80°00'

Ph-19(47)

FLORIDA (EAST COAST)<sup>A</sup>

N



## LEGEND

- TO BE STARTED NEXT
- IN PROGRESS
- COMPLETED 1949 Fiscal Year
- × NOT APPLICABLE 1949 Fiscal Year
- ||||| 1949 Fiscal Year

### Summary to Accompany T-8881

Topographic map T-8881 is one of 10 similar maps in project Ph-19(47) and is one of the north westerly maps in the project. It covers Eau Gallie, Florida. The field operations preceding compilation include field inspection, the establishment of some additional horizontal control, and the delineation of the contours on the photographs by planetable methods. The manuscript was compiled 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 material registered under T-8887 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 original descriptive report.

## FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE T-8881

N28°15'0 - W80°45'0/7.5

PROJECT PH-19(47)

27 SEPTEMBER 1948

1. DESCRIPTION OF THE AREA

This quadrangle lies within Brevard County on the east coast of Florida. The area contains 49.5 miles of land, 3 miles of fresh water, in Lake Washington, with the remaining portion being salt water in the Indian and Banana Rivers. Elevations run from sea level on the east to 34 feet on the highest ridge near the center of the area and down to 16.5 feet at Lake Washington.

General coverage of the area is scrub pine and palmetto, with open grass savannas near Lake Washington.

Eau Gallie in the south is the only town within the quadrangle and has the only business other than pulp logging and cattle.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection, believed to be adequate, was done in accordance with Project Ph-9(46) Instructions, dated May 1946 and later general instructions.

All inspection, with the exception of the cultural features along U. S. Highway No.1, was done at time of contouring and will be found on contour photographs. The town of Eau Gallie is shown on photograph 47-J-459 while the remainder of U. S. Highway No.1 is shown on print 2 of photographs 47-J-460 to 47-J-464 inclusive.

3. INTERPRETATION OF PHOTOGRAPHS

The photographs for the most part are clear and easily interpreted, with the exception of those areas where minimum overlap of the photographs left dark, hazy sections.

Various tree areas, as shown by photography, have been classified as brush due to logging since date of photography.

4. HORIZONTAL CONTROL

All existing horizontal control stations were recovered, and with the exception of station GALLIE, have been identified on the photographs. Station GALLIE, the initial point on a 10.5 mile traverse, may be identified by back azimuth and distance from any of the traverse points identified on field photographs Nos. 47-J-420, 47-J-421 and 47-J-422, prints 2 of 2.

5. VERTICAL CONTROL

Fifty-six (56) miles of 4th order levels (100 temporary bench marks established) were run from 1st and 2nd order U.S.C. & G.S. bench marks to establish control for planetable contouring. All lines closed within the allowable error for 4th order levels.

All level points were shown on the photographs in blue ink and temporary points labeled 81-1 etc., as per instructions dated 24 May 1948.

6. CONTOURS AND DRAINAGE

All contouring was done by planetable methods on prints No. 1 of single lens photographs Nos. 47-J-419 to 47-J-423 incl, 47-J-459 to 47-J-464 inclusive, and 47-J-538 to 47-J-540 inclusive. All planetable traverses closed within the allowable error of 1/2 contour interval and any differences greater than 0.5 foot were re-run and the area adjusted. Additional drainage in Lake Washington area is shown on single lens photographs Nos. 47-J-476 to 47-J-479, inclusive, prints 1 of 1.

There are no flowing streams in the area, other than the Indian, Banana, and St. Johns Rivers which are well defined. Any remaining drainage is a series of depression areas with intermittent streams running between them.

7. MEAN HIGH WATER LINE

Along the shores of Merritt Island there is no evident mean high water line, therefore, it has been indicated as apparent shoreline. Along the west shore of the Indian River the mean high water line has been indicated on the photographs at intervals.

8. LOW WATER LINE

There is no evident low water line along the shores of the Indian River in this quadrangle as these waters are non-tidal. The only change in the water elevation is that caused by winds.



-3-

9. WHARVES AND SHORELINE STRUCTURES

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

10. DETAILS OFFSHORE FROM HIGH WATER LINE

No details offshore for investigation by the hydrographic party were noted. A submerged cable in the Banana River that runs from the Banana River Naval Air Station to Merritt Island has been shown on single lens photograph No. 47-J-539. Part of this cable lies within the limits of this quadrangle, the remainder lies within quadrangle T-8882. This cable is no longer being used.

11. LANDMARKS AND AIDS TO NAVIGATION

Two range lights in the Banana River were identified and indicated for pricking on the photographs. These lights were not pricked, since the prick point would obscure them it was thought more feasible to leave them visible.

One light and a mileage pole in the Indian River were identified and a list of directions is submitted.

12. HYDROGRAPHIC CONTROL

No hydrographic control stations were required for this quadrangle.

13. LANDING FIELDS AND AERONAUTICAL AIDS

No landing fields appear on this quadrangle. Miami-Jacksonville Airway Beacon No. 17 was identified on single lens photograph No. 47-J-463 and the base of five (5) radio towers of "Melbourne Radio" radio range were pricked on print 2 of 2, single lens photograph No. 47-J-460.

14. ROAD CLASSIFICATION

All roads were classified on field inspection photographs in accordance with Photogrammetry Instructions No. 10 and amendments thereto.

*Filed in Div. Photogr.  
General Files.*

15. BRIDGES

The ends of three (3) bridges over navigable waters fall on the quadrangle. The clearance span over the channel on Eau Gallie Highway Bridge over the Indian River appears on quadrangle T-8882. The clearance spans on the highway and the railroad bridge over Elbow Creek appear on quadrangle T-8881.

# 16. BUILDINGS AND STRUCTURES

All buildings have been outlined in red on the photographs and all public buildings labeled.

# 17. BOUNDARY MONUMENTS AND LINES

This quadrangle lies entirely within voting precinct No. 5 of *sec item #378*  
Brevard County, Florida. The following political or reservation *Compilation Rpt.*  
boundaries fall wholly or in part within the quadrangle: *p. 17*

- A. Eau Gallie city limits.
- B. Gleason Cemetery.
- C. Houston Memorial Park Cemetery.
- D. Eau Gallie City Park.

Sixty-one (61) section corners were searched for and twenty-one (21) recovered and identified on the photographs.

# 18. GEOGRAPHIC NAMES

This is the subject of a Special Report, Project Ph-19(47) which is being prepared by Mr. Lowell I. Bass, Engineering Aid, and will be forwarded to the Washington Office upon its completion.

*Filed in Geographic Name Section, Div. of Charts.*

# 19. TOPOGRAPHIC STATIONS

Five (5) topographic stations were established by Mr. Leo F. Beugnet, Engineering Aid, along the shores of the Indian and Banana Rivers.

# 20. JUNCTION WITH ADJOINING QUADRANGLES

A junction was made in good agreement with quadrangle T-8883 to the south, quadrangle T-8882 to the east, and a portion of Merritt Island on quadrangle T-8879 to the north, the remainder of T-8879 being incomplete. There is no quadrangle to the west, quadrangle T-8861 being on the project limit.

*This has been completed.*

Submitted by:

*Cecil A. Navin*  
Cecil A. Navin  
Topographic Engineer

Approved and forwarded:

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

MAP T. 8881 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)
SHED, SOUTH GABLE, 1940	G.P.s P. 561	N.A. 1927	28 14	33.29			1024.8 ( 822.2)		
POLE AT END OF WHITE DOCK, 1940	"	"	80 39	34.01			927.2 ( 708.5)		
O'HARA, 1940	"	"	28 13	52.138			1605.0 ( 242.0)		
			80 39	14.998			408.9 (1226.9)		
MANGROVE 1876	"	"	28 12	57.434			1768.0 ( 79.0)		
			80 38	40.260			1097.8 ( 538.3)		
HULL, 1940	"	"	28 13	01.995			61.4 (1785.6)		
			80 38	47.893			1305.9 ( 330.2)		
CHRISTINE'S CHIMNEY, 1940	"	"	28 12	43.618			1342.7 ( 504.3)		
			80 39	48.663			1327.0 ( 309.1)		
PIERCE, 1940	"	"	28 11	41.104			1265.3 ( 581.7)		
			80 39	29.450			803.2 ( 833.2)		
KENO, 1876	"	"	28 11	34.360			1057.7 ( 789.0)		
			80 37	55.548			1515.1 ( 121.4)		
CHRIS, 1940	"	"	28 11	15.785			485.9 (1361.1)		
			80 39	12.537			342.0 (1294.6)		
DAY, 1940	"	"	28 11	15.502			477.2 (1369.8)		
			80 39	12.560			342.6 (1294.0)		
JESSUP, 1940	"	"	28 10	00.604			18.6 (1828.4)		
			80 38	36.656			1000.0 ( 636.8)		
PINSKY, 1940	"	"	28 09	03.727			114.7 (1732.3)		
			80 38	07.848			214.1 (1423.0)		
			28 10	42.257			1300.8 ( 546.2)		
			80 37	29.176			795.9 ( 840.8)		

Falls on adjoining  
sheet: T-882.

1 FT. = 3048006 METER

COMPUTED BY: E.C. Andrews

DATE: 1948

CHECKED BY: R.R. Wagner

DATE: 28 April, 1948

M-2388-12

MAP T-8881

PROJECT NO. Ph-19(47)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -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	
EAU GALLIE, MUNICIPAL WATER CENTER, 1934	G.P.s. P.191	N.A. 1927	28	07	58.222			1792.3 ( 54.7)			
			80	38	10.502			286.6 (1350.8)			
COLLEGE 2, 1906	" P.153	"	28	07	54.819			1687.5 ( 159.5)			
			80	37	33.146			904.6 ( 732.8)			
EAU GALLIE, OLEANDER HOTEL, TANK, 1930	" P.706	"	28	07	51.126			1573.8 ( 273.2)			
			80	37	33.797			922.3 ( 715.1)			
INDIAN RIVER NORTH LEWIS, 1940	" P.560	"	28	13	21.396			658.6 (1188.4)			
			80	39	35.211			960.1 ( 675.9)			
AIR, 1940	" P.548	"	28	13	48.191			1483.5 ( 363.5)			
			80	40	15.178			413.8 (1222.1)			
MIAMI-JACKSONVILLE AIRWAY BEARON ROAD NO. 17, 1934	" P.560	"	28	14	05.471			168.4 (1678.6)			
			80	40	33.722			919.5 ( 716.4)			
GALLIE, 1934	" TRAV.	"	28	08	43.635			1343.2 ( 503.8)			
			80	43	22.086			602.7 (1034.6)			
GALLIE "A", 1948	" TRAV.	"	28	08	44.258			1362.4 ( 484.6)			
			80	43	22.531			614.8 (1022.4)			
GALLIE "B", 1948	" TRAV.	"	28	08	44.458			1368.6 ( 478.4)			
			80	43	01.177			32.1 (1605.1)			
"C" 1948	" "	"	28	08	44.862			1381.0 ( 466.0)			
			80	42	17.448			476.1 (1161.1)			
"D" 1948	" "	"	28	08	45.405			1397.7 ( 449.3)			
			80	41	17.947			489.7 (1147.5)			
"E" 1948	" "	"	28	09	36.532			1124.6 ( 722.4)			
			80	41	18.388			501.7 (1135.3)			

1 FT. = 3048006 MEYER

COMPUTED BY: E.C. Andrews

DATE 23 April 1948

CHECKED BY: R.R. Wagner

DATE 28 April 1948

M-2388-12

2

MAP T- 8881

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		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)	
"F" 1948	TRAV.	N.A. 1927	28 09 52.045 80 41 18.522				1602.1 ( 244.9) 505.3 (1131.6)		
"G" 1948	"	"	28 10 07.187 80 41 48.581				221.2 (1625.8) 1325.3 ( 311.5)		
"H" 1948	"	"	28 10 07.660 80 41 49.521				235.8 (1611.2) 1351.0 ( 285.9)		
"J" 1948	"	"	28 10 50.069 80 42 05.331				1541.3 ( 305.7) 145.4 (1491.2)		
"K" 1948	"	"	28 11 06.701 80 42 14.531				206.3 (1640.7) 396.4 (1240.3)		
"LA", 1948	"	"	28 11 09.888 80 42 16.652				304.4 (1542.6) 454.2 (1182.4)		
"M" 1948	"	"	28 11 35.920 80 42 34.984				1105.7 ( 741.3) 954.2 ( 682.3)		
"P" 1948	"	"	28 12 09.087 80 43 24.858				279.7 (1567.3) 677.9 ( 958.4)		
"R" 1948	"	"	28 12 10.197 80 44 34.608				313.9 (1533.1) 943.8 ( 692.5)		
"S" 1948	"	"	28 12 11.385 80 45 33.023				350.5 (1496.5) 900.6 ( 735.7)		
EAU GALLIE TANK, 1934 (d-m)	G.P. 152	"	28 07 57.834 80 38 10.305				1780.3 ( 66.7) 281.2 (1356.2)		

1 FT. = 3048006 METER

COMPUTED BY: B.F. Lampton, Jr.

DATE 4 October 1948

CHECKED BY: R.R. Wagner

DATE 4 October, 1948

M-2388-12

MAP T-8881

PROJECT NO. Ph-19(47)

SCALE OF MAP 1:20,000

SCALE FACTOR

[illegible]

LET - 3048006 METER

COMPUTED BY: B.F. Lampton

DATE 4 October, 1948

CHECKED BY: R. R. Wagner

DATE 4 October 1948

W-2388-12

15.

COMPILATION REPORT  
TO ACCOMPANY  
QUADRANGLE T-8881

26 & 27 CONTROL AND RADIAL PLOT:

A report on the main radial plot was submitted on December 7, 1948 by Milton M. Slavney, Photogrammetric Engineer. *On File, Div of Photogrammetry General Files.*

Only those traverse stations used in the radial plot were shown on the map manuscript.

There is some doubt as to the position of "GATOR A (USE), 1945." The photostatic copy of U.S. Engineers' horizontal control position card for "GATOR A" gives a plane coordinates position and a geodetic position. The two positions do not check by 30 meters. The coordinates position was used in plotting the station on the map manuscript as this position most nearly fits the description of the station. It is requested that the Washington Office check the computations for the position of "GATOR A." *See Review Report.*

28. DELINEATION:

The photographs were of good scale and only a few detail points were necessary in addition to the pass points.

The field inspection was adequate for accurate delineation except in a few instances which have been noted on the discrepancy overlay.

In some cases the contours were altered slightly to conform to the drainage. Only the major changes have been noted on the discrepancy overlay.

Not all buildings were shown on the manuscript in the housing project, approximate latitude  $28^{\circ} 07' .6$ , longitude  $80^{\circ} 37' .9$ , due to the minimum size requirements according to instructions. However, the arrangement of the buildings was shown.

29. SUPPLEMENTAL DATA:

No supplemental data was used for this quadrangle.

30. MEAN HIGH WATER LINE:

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

~~7~~

31. LOW-WATER AND SHOAL LINES:

There is no periodic tide anywhere in this quadrangle.

A shallow area was shown with a dashed line on the east side of Merritt Island.

32. DETAIL OFFSHORE FROM THE HIGH-WATER LINE:

There are no details offshore that need further investigation by the hydrographic party.

33. WHARVES AND SHORELINE STRUCTURES:

All wharves and shoreline structures have been delineated on the map manuscript according to the field inspector's notes.

34. LANDMARKS AND AIDS TO NAVIGATION:

There are three landmarks to be charted within this quadrangle. All three are previously established triangulation stations. Form 567 has been submitted for these landmarks. *See Review Report*

All aids to navigation have been pricked on the photographs and cut in radially. Indian River Lt. 156 is a previously established triangulation station.

The point on range for the Banana River Range was established by using the planetable angles and distance shown on the back of field photograph 47-J-539. The sextant fix on the Banana River Range, the angles of which are shown on field photograph 47-J-538, was discarded. This fix did not line up on the range. Form 567 has been submitted for all aids.

35. HYDROGRAPHIC CONTROL:

No hydrographic control needed for this quadrangle.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

There are no landing fields within the limits of this quadrangle.

One aeronautical aid, the Miami-Jacksonville Airway Beacon 17, falls within this quadrangle, the position of which has been previously established by triangulation.



-3-

37. BOUNDARIES:

A. City Limits, Eau Gallie: The boundary of the city of Eau Gallie was delineated from the description given in the boundary report submitted with this project. *On File in Div of Photogrammetry.*

B. Precinct Lines: All the land area west of the Indian River lies in Precinct 5. All the land area east of the Indian River lies in Precinct 9. This is contradictory to Item 17 of the field inspection report but is in complete agreement with the precinct map submitted with the boundary report for the project.

C. Section Lines: Section lines were delineated on the map manuscript with the aid of recovered section corners and plats of the General Land Office. They are shown in red pencil and will be inked after verification by the field editor.

It is doubtful if all section lines are accurate since every section corner was "pricked direct" on the field photographs.

*Section lines that are approx. in their position are shown with a dash line.*

D. County Line: The entire area falls within Brevard County.

38. GEOGRAPHIC NAMES:

All geographic names submitted have been applied to the map manuscript.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic quadrangles available in this office for comparison.

A comparison was made with Planimetric Map 4556. The shoreline along the mainland is in good agreement. Much of the marsh area is now ponds and many roads have been added. The shoreline along the east side of Merritt Island has receded in many areas and has been built up in other areas. The railroad spur leading into Eau Gallie has been destroyed and should be deleted from the planimetric map.


-4-

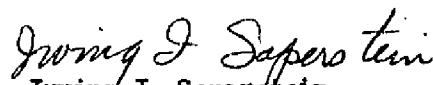
45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with chart 844 bearing a print date of June 21, 1948. The shoreline is in good agreement with the chart. However, a portion of Horse Creek, approximate latitude  $28^{\circ} 09.18$ , longitude  $80^{\circ} 38.19$ , shown on chart 844 as open water is actually marsh.

Much of the marsh area shown on the chart is ponds according to the field inspector. The railroad spur leading into Eau Gallie should be deleted on the chart. The compilation should supersede the charted information.

Approved and Forwarded:

  
Ross A. Gilmore, 2/20/49  
Chief of Party. *sm*

  
Irving I. Saperstein,  
Engineering Aid

19.

FIELD EDIT REPORT

QUADRANGLE T-8881

PROJECT PH-19(47)

The field edit of this quadrangle was accomplished in compliance with Field Edit Instructions dated 24 August 1945, and Supplement I dated 4 February 1946. Actual field work was completed in twelve working days between 3 May and 2 June 1949.

46. 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, sextant, hand level, and tape methods were used to make 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 used for all work on the photographs and violet ink on the discrepancy prints.

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

Twenty-five section corners were searched for, and twenty recovered and identified on the photographs or located by planetable on the field edit sheet.

Twelve points on section lines were searched for, and six were recovered and identified on the photographs.

Forms 524 are submitted for all recovered boundary monuments.

*On file in Div. of Photogrammetry General Files.*

51. ROADS

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

Florida State Road #3, on Merritt Island, is to be widened in the near future.

52. BUILDINGS

Classified in accordance with Photogrammetry Instructions No.29, dated 1 October 1948.

53. WOODLAND COVER

Classified in accordance with Photogrammetry Instructions No.21, dated 18 August 1948.

*+10  
Photogr. Instr. #29 & 21, on file  
Div. Photogr General Files.*

54. EXAMINATION OF PROOF COPY

It is believed that H. H. Wilson, registered land surveyor of Merritt Island, Florida, is best qualified to examine a proof copy of this quadrangle.

Submitted  
7 June 1949

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

Approved and forwarded  
7 June 1949

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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

NONRELOCATING/ADDS/OR LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED  
~~TO BE CHARTED~~

26 September, 1945

Gaines, Florida

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

The positions given have been checked after listing by

Levell L. Bass  
Nagr.A1A.

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

STATE <b>FLORIDA</b>			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	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED								
			°	'	D. M. METERS	°								'	D. P. METERS						
<b>2466 (Elev)</b>	Silver water tank erected atop 100 ft. skeleton steel tower. (SAN GALLIE, MUNICIPAL WATER TANK 1934)		28	07	1732.2	80	38	286.6	NA 1927	Triangulation	1934	2466									
<b>2466</b>	Small silver water tank erected atop Glenader's Hotel, San Galle, Florida. (TANK, GLASSBORO HOTEL, 1930)		28	07	1573.8	80	37	922.4	NA 1927	Triangulation	1934	2466									
<b>2466 (Elev)</b>	Acro beamon erected atop 80 ft. skeleton steel tower. (SAR GALLIE, MUNICIPAL WATER TANK 1934, 1934, 1934)		28	14	164.4	80	40	919.4	NA 1927	Triangulation	1934	2466									
966-48	573-48																				
269-49	747-48																				
468	279-49																				
466																					
19-50																					

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR HANDMARKS FOR CHARTS

**STRIKE OUT ONE**

**TO BE CHARTED**

26 September, 1944

**Cocoa, Florida**

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

The positions given have been checked after listing by

**Irvine J. Unpublished**

**Tape Photogrammetric Office**

**George L. Harris, Jr., Chief of Party.**

**Alvin. Oswald.**

STATE <b>FLORIDA</b>		POSITION				METHOD OF LOCATION AND SURVEY		DATE OF LOCATION		HARBOR CHART		INSHORE CHART		OFFSHORE CHART		CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION	LATITUDE		LONGITUDE		DATUM	NO.	LOCATION	DATE	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED				
		D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS												
<b>WILSON'S PILE</b>	<b>Black pile.</b>	28 14	145	80 40	0	1927	NA	Radial Plot	June 1948				1264 644				
<b>LIGHT NO. 156</b>	<b>Indian River North Light No. 156. A light atop red triangular daymark with yellow border set on a 3 pile dolphin. (INDIAN RIVER NORTH LIGHT NO. 156, 1940)</b>	28 13	654.6	80 39	0	1927	NA	Triangulation station	Sept 1948				1264 644				
<b>INDIAN RIVER NORTH LIGHT NO. 156</b>	<b>White square daymark on skeleton steel tower.</b>	28 11	1245	80 37	0	1927	NA	Radial Plot	June 1948				1264 644				
<b>INDIAN RIVER NORTH LIGHT NO. 156</b>	<b>White square daymark on pile dolphin. A black square daymark is visible from channel.</b>	28 11	1274	80 37	0	1927	NA	Radial Plot	June 1948				1264 644				

22

# GEOGRAPHIC NAMES

Survey No. T-8881

7 $\frac{1}{2}$ ' quad., East Coast, Fla.

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A	B	C	D	E	F	G	H	K
Florida	✓								USGB 1
Brevard County	✓								2
Intracoastal Waterway	✓								USGB 3
Indian River	✓								4
Banana River	✓								5
Florida East Coast	✓								6
U.S. No. 1/ State No. 5	✓								7
Old Dixie Highway									8
									9
Elbow Creek	✓	✓							10
Eau Gallie	✓	✓							11
Gleason Cemetery	✓	✓							12
Aurora	✓	✓							13
Lake Washington	✓	✓							14
Horse Creek	✓	✓							15
Plover Point	✓	✓							16
Pineda	✓	✓							17
Merritt Island	✓	✓							18
Lotus	✓	✓							19
Mangrove Point	✓	✓							20
									21
									22
Above names are approved, based on previous usage and special report by Bass. Subject to final check by Field Edit. 4/19/49									23
L.H.									24
									25
									26
									27

Review Report T-8881  
Topographic Map  
2 February 1950

62. Comparison with Registered Topographic Surveys.-

This survey supersedes common areas on T-1450b (1876) 1:20,000; T-1460 (1878) 1:20,000; and T-4556 (1930) 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. 844 6-21-48 and No. 845 8-9-48 1:40,000. Additions and corrections made during review have been shown in red ink on the manuscript. There were no changes of consequence to nautical charts.

66. Horizontal Control.-The U. S. Engineers station mentioned in the Compilation Report has its position computed and adjusted. It is listed as "USE Mark, 1940" in the GPs (Form 28B) page 569.

The traverse points are not shown with the triangle symbol because they are not marked.

67. Landmarks and Aids to Navigation.-Landmarks and aids are listed on Form 567 and filed as Chart Letter No. 269 (49) in the Division of Charts. See carbon copies following Field *Edit* ~~Inspection~~ Report.

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

69. Overlay.-An overlay has been prepared showing road classification, control, etc.

Reviewed by:

Jack L. Rihn  
Jack L. Rihn, Cartographer

APPROVED:

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

H. Edmonston  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

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



## HISTORY OF HYDROGRAPHIC INFORMATION

T-8881, Florida

Hydrography was applied to this manuscript in accordance with Division of Photogrammetry request of February 6, 1950; and with general specifications of May 18, 1949. *omitted on registered copy*

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

H-1380	(1876-77)	1:20,000
BP. 39926	(1945)	1:10,000 (U.S.E.)
BP. 33576	(1939)	1:2,000 (U.S.E.)
Chart 844	1:40,000, printed 10/24/49, corrected 2/6/50.	
Chart 1246	1:80,000, printed 4/4/49, corrected 2/6/50.	

The depth curves are drawn at 6 and 12 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