

8843

Diag'd. on Diag. Ch. No. 1247

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-9 (46) Office No. T-8843

LOCALITY

State Florida

General locality East Coast

Locality St. Lucie & Indian River Counties

"Oslo"

1946-'49

CHIEF OF PARTY

R.A. Gilmore

LIBRARY & ARCHIVES

DATE September 1, 1949

B-1870-1 (1)

8843

DATA RECORD

T- 8843

Quadrangle (II): "OSLO"

Project No. (II): Ph-9 (46)

Field Office: Vero Beach, Fla.

Chief of Party: Lt. Comdr. Ross A. Gilmore

Compilation Office: Tampa, Fla.

Chief of Party: Lt. Comdr. Ross A. Gilmore

Instructions dated (II III): 28 May 1947

Copy filed in ~~Office Files~~ *Project Report*

(VI)

Completed survey received in office:

14 Mar. 49

Reported to Nautical Chart Section:

Reviewed: *11 Aug. 49*

Applied to chart No.

Date:

Redrafting Completed:

Registered: *25 Aug. 49*

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): INDRIO, *1934* ✓Lat.: $27^{\circ} 31' 44.916$ (1382.5m) ✓Long.: $80^{\circ} 26' 22.161$ (608.1m) ✓

Adjusted ✓

Unadjusted

State Plane Coordinates (VI): *Florida East Zone*X = *681,656.38 Feet* Y = *1,161,887.03 Feet*

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
16372	27 Apr. 1946	11:17	1:20,000	
16373	"	11:18	"	
16374	"	11:19	"	
16381	"	11:32	"	Inshore quadrangle
16382	"	11:33	"	
16383-89	"	11:38	"	

Tide from (III): Inshore quadrangle

Mean Range: Inshore quadrangle Spring Range:

Camera: (Kind or source) 9-Lens USC&GS 8. 25" focal length

Field Inspection by: Leo F. Beugnet

date: Sept.-January 1948

Field Edit by:

J. E. Handley

date: Jan. 1949

Date of Mean High-Water Line Location (III): Inshore quadrangle

Projection and Grids ruled by (III) T.L.J. (W.O.)

date: 16 Oct. 1947

" " " checked by: T.L.J. (W.O.)

date: 16 Oct. 1947

Control plotted by: R. Dossett

date: 14 Nov. 1947

Control checked by: E.C. Andrews

date: 21 Nov. 1947

Radial Plot by: M.M. Slavney

date: 23 March 1948

Detailed by: R.A. Reece

date: April-May 1948

Reviewed in compilation office by: J.A. Giles

date: June 1948

Map Manuscript
Elevations on ~~Field Edit Sheet~~
checked by:

J.A. Giles

date: June 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 66 (Approx.)

Shoreline (More than 200 meters to opposite shore): 1/4 mi.

Shoreline (Less than 200 meters to opposite shore): 8 mi.

Number of Recoverable Topographic Stations established: 1

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 48.5

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:

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE T-8843

"OSLO"

N 2730 - W 8022.5/7.5

PROJECT Ph-9 (46)

15 January 1948

1. DESCRIPTION OF THE AREA

This quadrangle lies within Indian River and St. Lucie Counties on the East Coast of Florida. The area contains approximately 66 square statute miles of land. Elevations range from sea level to 49 feet on the highest sand dune near the east edge of the quadrangle and to the west of the Florida East Coast Railroad.

The principal cultural features in this quadrangle are the U.S. Highway No.1, Florida State Highway 605 and the Florida East Coast Railroad, all of which run in a northwest-southeasterly direction through the north-east part of the quadrangle and the many ditches which run from east to west and from north to south throughout the greatest portion of the quadrangle.

There are no incorporated towns within the limits of this quadrangle.

The citrus groves running from north to south through the central part of the quadrangle and the tomato farms in the southwest part of the quadrangle comprise the greater part of the cultivation of commercial value in this area. There are a few scattered farms which raise other crops, however, these are not very extensive in area.

The vegetation is composed mostly of scattered pine, palmetto, palms, grass in the low areas, and mangrove and marsh along the edge of tidal waters near the northeast corner of the quadrangle. The ridges are covered mostly with thick spruce pine of little or no commercial value.

The ponds in the area are almost entirely of the intermittent type due to the many drainage ditches throughout the quadrangle.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection was done in accordance with project instructions dated 28 May 1947 and other general instructions.

There are many ditches in the cultivated areas which appear very prominently on the photographs. These are very small, shallow farming ditches and are much less evident on the ground and have been deleted because of their temporary nature.

The field inspection was done on photographs Nos. 16381, 16372, 16374, 16382 and 16373.

3. INTERPRETATION OF THE PHOTOGRAPHS

In most cases the photographs could be readily interpreted. The color tone varies from white in the sandy areas to black in the deep water. Heavy pine areas appear to have a dark steel tone, palmetto and brush a gray tone and grass a light gray tone. Intermittent ponds vary from light gray in the ones with grass to almost black in the ones with muck bottoms.

4. HORIZONTAL CONTROL

The horizontal control recovered and identified for this quadrangle consist of one U.S.C. & G.S. triangulation station (INDRIO); three U.S.C. & G.S. traverse stations (VB 5, 1945; VB 6, 1945; and VB 6A, 1945); three U.S.E.D. traverse stations, (NE-4, 1944; NE-3, 1944; and NE-1, 1944). These stations were recovered and identified on photographs 16381 and 16374 for control of the radial plot.

The area where traverse station VB 7, 1945 is located is inundated by about two or three feet of water at this time and a search for this station was not feasible.

Traverse station VB 6A, 1945 was identified by arcs. This was the most practicable method as this area was also covered by water.

5. VERTICAL CONTROL

One U.S.C. & G.S. bench mark which falls within the limits of this quadrangle and one which falls outside the limits of the quadrangle were recovered and used to establish vertical control for this quadrangle. Fly level lines were run with a Wye level along the principal roads to provide a base for plane table contouring. Temporary bench marks were established at identifiable picture points and marked either with a bottle cap or a stake. All level lines were closed within the required accuracy and records carefully checked. Level points are shown on contour prints with a cross, labeled with the quadrangle designation letters "NA" and numbered consecutively in blue with elevations shown to the nearest tenth.

6. CONTOURS AND DRAINAGE

Contouring was done by a four man party, using standard planetable methods, on photographs 16372, 16382, 16383 and 16373.

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.

The many ditches and spoil banks throughout the quadrangle consumed a great part of the time spent contouring.

There is no natural drainage in this quadrangle.

7. MEAN HIGHWATER LINE

Not applicable.

8. LOW-WATER LINE

Not applicable.

9. WHARVES AND SHORELINE STRUCTURES

Not applicable.

10. DETAILS OFFSHORE FROM HIGH-WATER LINE

Not applicable.

11. LANDMARKS AND AIDS TO NAVIGATION

No landmarks are recommended in this quadrangle.

12. HYDROGRAPHIC CONTROL

No hydrographic signals required in this project.

13. LANDING FIELDS AND AERONAUTICAL AIDS

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

14. ROAD CLASSIFICATION

All roads have been classified in accordance with Photogrammetry Instructions No.10 and amendment dated 24 October 1947.

15. BRIDGES

There are a few fixed wooden bridges over ditches and canals within the limits of this quadrangle. There are no navigable waters within the limits of this quadrangle.

16. BUILDINGS AND STRUCTURES

All buildings to be shown have been circled in red on the photographs. In congested areas those not to be shown have not been deleted but in sparsely settled areas those not to be shown have been deleted in green.

17. BOUNDARY MONUMENTS AND LINES.

Due to the many ditches in the quadrangle a thorough search was not made for all section corners, but in areas not covered by ditches a thorough search was made for all section corners; where these could not be found a search was made for quarter corners.

A total of only five corners was recovered in the quadrangle. Several persons of authority were contacted in an attempt to locate more section corners. Information discloses that the drainage districts have right of ways of from 50 to 150 feet along the ditches. The section lines fall either in the ditches, on the road, or between the ditch and road, depending upon the width of the right of ways.

Because of the lack of section corners no attempt was made to show the county boundary or the precinct lines on the photographs. A legal description of the county and precinct boundaries will be submitted in a Special Report on Boundaries, Project Ph-9 (46). In ~~File Section, Div. of Photogram-~~
Project Report

18. GEOGRAPHIC NAMES *2.14*

This is the subject of a Special Report, Project Ph99 (46) which was submitted to the Washington Office on 8 January 1948. *On file in Geographic Name Section, Div. of Charts.*

19. TOPOGRAPHIC STATIONS

No topographic stations were established in this quadrangle.

20. JUNCTIONS

A junction was made with T-8841 to the north, T-8844 to the east, and T-8623 to the south. All junctions were in good agreement. There is no adjoining quadrangle to the west.

Leo F. Beugnet

Leo F. Beugnet
Engineering Aid

SUPERVISED:

William A. Rasure
William A. Rasure
Photogrammetric Engineer

APPROVED AND FORWARDED:

Ross A. Gilmore
Ross A. Gilmore
Chief of Party

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE "OSLO"
T-8843

26 AND 27. CONTROL AND RADIAL PLOT:

A special report prepared by M.M. Slavney, Photogrammetric Engineer was submitted to the Washington Office on 17 May, 1948.

In ~~the Section, Division of Photogrammetry~~ Descriptive Report T-8623

28. DELINEATING:

The nine-lens photographs used in delineating this quadrangle were clear and of fair scale.

The field inspection was well done; very few discrepancies being noted on the overlay for the field editor.

No unusual difficulties were encountered in delineating this manuscript. It was delineated according to the latest instructions for the project.

29. SUPPLEMENTAL DATA:

None.

30. MEAN HIGH-WATER LINE:

Inshore quadrangle; not applicable.

31. LOW-WATER AND SHOAL LINE:

Inshore quadrangle; not applicable.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Not applicable to this quadrangle.

33. WHARVES AND SHORELINE STRUCTURES:

Not applicable to this quadrangle.

34. LANDMARKS AND AIDS TO NAVIGATION:

None, see field inspection report item number 11.

35. HYDROGRAPHIC CONTROL:

Not applicable to this quadrangle.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

There are none within the limits of this quadrangle.

37. SECTION CORNERS:

See Field Inspection Report item No. 17. Section corners have been shown according to field inspector's notes.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES AND OTHER MAPS:

Only a small portion of the northeast corner of this quadrangle could be compared with Coast and Geodetic Survey planimetric map No. 4549 which was compiled from photographs taken on 29 April, 1928. Agreement is very good. Only minor changes have taken place:

- (1) Buildings have been added.
- (2) Citrus groves (orchards) have been planted and others abandoned.


45. COMPARISON WITH NAUTICAL CHARTS:

Visual comparison was made with chart No. 845 bearing a print date of 3 March 1947 and having a scale of 1:40,000. Comparable areas were in good agreement.

Respectfully submitted,


Richard A. Reece
Engr. Draftsman

Approved and Forwarded:


Ross A. Gilmore
Lieut. Comdr. USC&GS
Chief of Party.

GEOGRAPHIC NAMES

Survey No. T-8843

OSLO, Fla., 7 1/2' quad

Name on Survey

	A	B	C	D	E	F	G	H	K	
Florida									USGB	1
St. Lucie County										2
Indian River County										3
Florida East Coast										4
U.S. No. 1										5
State No. 605										6
State No. 607										7
<u>State No. 606</u>										8
Oslo										9
South Canal										10
McKee Jungle Gardens										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red are approved. 8/9/48 L. Heck

FIELD EDIT REPORT

QUADRANGLE T-8843

PROJECT PH-9(46)

The field edit of this quadrangle was accomplished in accordance with Field Edit Instructions dated 24 August 1945, and Supplement 1 dated 4 February 1946. Actual field work was started 25 January 1949 and completed 31 January 1949.

46. METHODS

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

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 used for contours on the photographs; other corrections, additions, and deletions were inadvertently shown in red ink. However, the red ink used on the photographs is a distinctive carmine red and the field editor's work has been initialed "FE" in black ink.

The reviewer's 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 along with the change and photograph number on the discrepancy print or 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. However, information concerning the two nearest map accuracy tests to this quadrangle was not available to the field editor.

49. TOPOGRAPHIC EXPRESSION

The topographic expression of the quadrangle is considered adequate.

50. EXAMINATION OF PROOF COPY

It is believed that Mr. Frank Englar, registered land surveyor in Fort Pierce, is best qualified to examine a proof copy of this quadrangle.

Submitted
14 February 1949

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

Approved and forwarded
14 February 1949

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

650

Review Report - T-8843
Topographic Map - 11 August 1949

Subject numbers not used in this review report have been adequately covered in other parts of the descriptive report.

28. Detailing.--During review, the "LOW GROUND" Classification has been removed from the map manuscript and the areas reclassified. These areas were not consistent with the contours and were of little value.

43. Comparisons with Previous Surveys.--

T-1650	1:20,000	1883
T-4549	1:20,000	1930

48. Accuracy.--This map complies with national map accuracy standards.

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

52. Application to Nautical Charts.--This survey has not been applied to nautical charts prior to review.

Reviewed by:

Jack L. Rihn
Jack L. Rihn
Cartographer

APPROVED:

L. V. Griffith
Chief, Review Section, 12/11/49
Div. of Photogr.

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

K. T. Adams
Chief, Division of Photogrammetry

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