

10971

ORIGINAL

10971

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-10971
LOCALITY	
State	FLORIDA
General locality	CALOOSAHATCHEE RIVER
Locality	ALVA
<u>1959</u>	
CHIEF OF PARTY George E. Varnadoe, Chief of Field Party William R. Kachel, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	AUG 3 1962

DESCRIPTIVE REPORT - DATA RECORD

T -10971

Project No. (II): PH-5806

Quadrangle Name (IV):

Field Office (II): Tampa, Florida

Chief of Party: George E. Varnadoe

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: William R. Kachel

Instructions dated (II) (III): 11 June 1959 (Office & Field)

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

Scale Factor (III): Pantographed to 1:20,000

Date received in Washington Office (IV): 1/31/61 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 21 Nov 1961

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean sea level except as follows: MHW
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): ALVA, 1937

Lat.: $26^{\circ}42'31.772''$ (977.8 m.)

Long.: $81^{\circ}33'59.981''$ (1658.0 m.)

Adjusted
Unadjusted

Plane Coordinates (IV):

State: FLORIDA

Zone: EAST

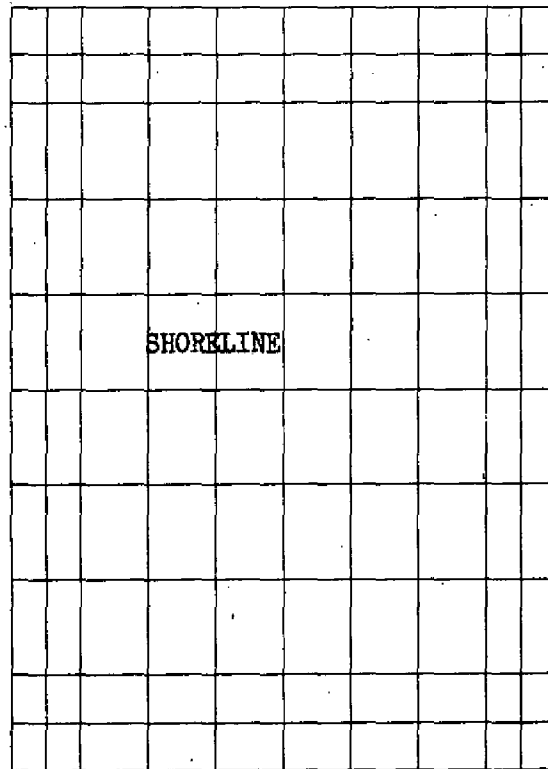
Y= 863,706.06 ft.

X= 315,006.24 ft.

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.

DESCRIPTIVE REPORT - DATA RECORD



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

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (ii): **George E. Varnadoe** Date: **Dec. 1959**

Planetable contouring by (ii): **Inapplicable** Date:

Completion Surveys by (ii): **Inapplicable** Date:

Mean High Water Location (iii) (State date and method of location): **Air Photo compilation**
Date of photography: **25 March 1959**

Projection and Grids ruled by (iv): **J. Keefer (W.O.)** Date: **June 1960**

Projection and Grids checked by (iv): **J.W.K. (W.O.)** Date: **June 1960**

Control plotted by (iii): **R. E. Smith** Date: **Aug. 1960**

Control checked by (iii): **V. P. Cackowski** Date: **Aug. 1960**

~~Rectified~~ Stereoscopic Control extension by (iii): **R. Fuechsel (W.O.)** Date: **June 1960**

Planimetry **R. E. Smith** Date: **Sept. 1960**

Stereoscopic Instrument compilation (iii):
Contours **Inapplicable** Date:

Manuscript delineated by (iii): **R. E. Smith** Date: **Sept. 1960**

of compilation
Photogrammetric Office Review by (iii): **I. I. Saperstein** Date: **Oct. 1960**

Elevations on Manuscript checked by (ii) (iii): **Inapplicable** Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **Single-lens Wild "W"**

Number	Date	PHOTOGRAPHS (III)			Stage of Tide
		Time	Scale		
59-W-3598	25 March 1959	1029	1:30,000	*	
3599	"	1030	"	*	
3600	"	1031	"	*	
3601	"	1031	"	*	
3602	"	1032	"	*	

*The water area in this part of Caloosahatchee River and Canal is a dredged cut too far from tidewater to be affected by the tide.

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

W. Shearouse

Date: *Aug. 1961*

Final Drafting by (IV): R. E. Smith, Jr. (Tampa District Office)

Date: Dec. 1960

" " Review by: W. H. Shearouse (Tampa District Office)

Dec. 1960

Drafting verified for reproduction by (IV):

W. Shearouse

Date: *Aug. 1961*

Proof Edit by (IV):

Date:

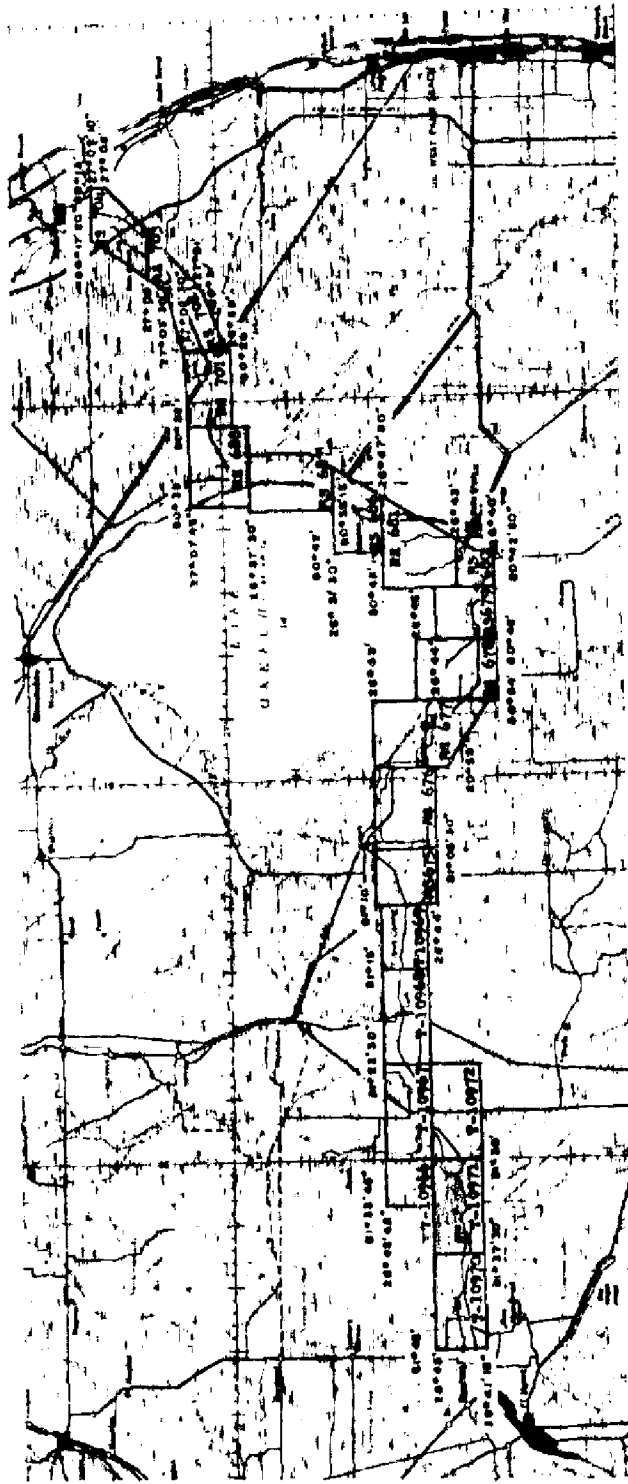
Land Area (Sq. Statute Miles) (III): 26
 Shoreline (More than 200 meters to opposite shore) (III): 8
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
 Control Leveling - Miles (II): **Inapplicable**
 Number of Triangulation Stations searched for (II): 2
 Number of BMs searched for (II): 0
 Number of Recoverable Photo Stations established (III): 0
 Number of Temporary Photo Hydro Stations established (III): 0

Recovered: 2 Identified: 2
 Recovered: 0 Identified: 0

Remarks:

PROJECT PH-5806

LOCATION OF AIDS TO NAVIGATION
LAKE OKEECHOBEE, FLORIDA



Official Mileage Per Cost Accounts

Sheet Number	Area Sq. Mi.	Lin. Mi. Shoreline
RS 675	24	21
RS 676	36	1
RS 677	25	17
RS 678	21	16
RS 679	9	16
RS 680	7	25
RS 681	15	18
RS 682	21	18
RS 683	21	18
RS 684	20	18
RS 685	17	7
RS 686	17	4
RS 687	17	4
RS 688	17	4
RS 689	17	4
RS 690	17	4
RS 691	17	4
RS 692	17	4
RS 693	17	4
RS 694	17	4
RS 695	17	4
RS 696	17	4
RS 697	17	4
RS 698	17	4
RS 699	17	4
RS 700	17	4
RS 701	17	4
RS 702	17	4
RS 703	17	4
RS 704	17	4
RS 705	17	4
RS 706	17	4
RS 707	17	4
RS 708	17	4
RS 709	17	4
RS 710	17	4
RS 711	17	4
RS 712	17	4
RS 713	17	4
RS 714	17	4
RS 715	17	4
RS 716	17	4
RS 717	17	4
RS 718	17	4
RS 719	17	4
RS 720	17	4
RS 721	17	4
RS 722	17	4
RS 723	17	4
RS 724	17	4
RS 725	17	4
RS 726	17	4
RS 727	17	4
RS 728	17	4
RS 729	17	4
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RS 731	17	4
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RS 737	17	4
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RS 747	17	4
RS 748	17	4
RS 749	17	4
RS 750	17	4
RS 751	17	4
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RS 992	17	4
RS 993	17	4
RS 994	17	4
RS 995	17	4
RS 996	17	4
RS 997	17	4
RS 998	17	4
RS 999	17	4
RS 1000	17	4

SUMMARY

to Accompany Shoreline Map Manuscripts T-10966 thru T-10972

The seven (7) subject shoreline surveys represent the western part of Project FH-5806. The project covers the inland waterway from the city of Stuart on the east coast of Florida westward through the St. Lucie Canal, the Okeechobee Waterway and the Caloosahatchee Canal and River to the outskirts of Ft. Myers near the Gulf of Mexico. The inland waterway from Stuart to Lake Okeechobee is covered by fourteen (14) R.S. sheets and the remainder by aforementioned seven shoreline surveys.

The purpose of these maps was to replace previously completed T-sheets of substandard accuracy by new compilations T-10966 through T-10972 and the location of aids to navigation for the entire project.

A stereoplanigraph bridging plot was done in the Washington Office in June 1960 covering subject map manuscripts. They were compiled by Kalsh plottier at the Tampa District Office from 59-W series photography of March 1959 and field inspection information of October to December of 1959.

The submitted final map compilations are the result of adequately scribed sheets and suitable for the direct reproduction of file copies.

A camera film positive at the compilation scale of 1:20,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

September 1961

THE FIELD INSPECTION REPORT ~~WAS SUBMITTED SEPARATELY ON 7 April 1960~~

is bound with T-10966

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 10971 PROJECT NO. Ph-5806 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -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)	FORWARD	(BACK)
ALVA, 1937	PC		863 706.06 ✓	26	3258.1 ✓					
	230		315 006.24 ✓	9	6014.1 ✓					
DENAUD, 1937	"		874 390.61 ✓	26	6514.8 ✓					
			333 406.43 ✓	10	1622.5 ✓					

COMPILATION REPORT T-10971PHOTOGRAMMETRIC PLOT REPORT

Stereo-bridge Report is submitted with T-10970.

31. DELINEATION

Delineation was done by Kelsh Plotter. The diapositives were sharp, but could have been printed lighter. The field inspection was good. The photographs evidently were taken during a wet season. There are dark areas which appear to be either intermittent ponds or low areas of seasonal inundation. Where a definite berm could be followed and the depressions were deeper, these were shown as intermittent ponds. Where a definite berm could not be followed and the ~~water~~^{depression} appeared shallow, it was shown with the marsh symbol.

32. CONTROL

The primary and secondary control for this map was very good. The placement of the secondary control was good and all was held excellently.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage not noted by field inspection was apparent. See Item 5.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate and was shown according to the field inspector's notes.

There are no low-water line or alongshore details excepting one boathouse along the canal.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions were made with T-10966 to the northeast, T-10970 to the west and T-10972 to the east. This manuscript is the north half of the U.S.G.S. ALVA quadrangle and the junction appears satisfactory. The U.S.G.S. quadrangle TELEGRAPH SWAMP S.E. is to the north, but is not available in this office. However, the comparison between the manuscript and the ALVA quadrangle appears satisfactory. It is therefore probable that the junction with the quadrangle to the north would be satisfactory.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. quadrangle ALVA, scale 1:24,000, culture and drainage compiled from aerial photographs taken in 1952, topography by planetable surveys in 1958; only minor vegetation changes were noted.

Comparison was also made with shoreline maps T-5885 and T-5886, scale 1:10,000, compiled from aerial photographs taken December 1939 and supplemented by other surveys to February 1943. The Seaboard Air Line Railroad no longer exists. Many cultural and vegetation changes have occurred with the passage of time.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Chart 1289, scale 1:80,000, second edition March 14, 1949, revised March 9, 1959. The levees between ALVA and DENAUD on Chart 1289 are actually old spoil banks and believed to have no landmark value. One spoil bank on a tributary canal has been shown on this map.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. E. Smith, Jr.

R. E. Smith, Jr.
Carto Photo Aid

APPROVED AND FORWARDED

William R. Kachel
William R. Kachel
Tampa District Officer

NOTES TO THE WASHINGTON OFFICE REVIEWER:

A permit has been taken out and the contract awarded to
construct a bascule bridge at DENAUD in place of the swing bridge.

48. GEOGRAPHIC NAMES LIST

Alva

Banana Branch
Bedman Creek

*Caloosahatchee River
Cypress Creek

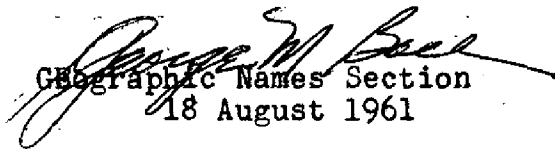
Denaud

Florida
Fort Simmons Branch

Jacks Branch

Spanish Creek

* B.G.N. decision


Geographic Names Section
18 August 1961

**REVIEW REPORT OF
SHORELINE MAP MANUSCRIPTS T-10966 WCU T-10972**

62. Comparison with Registered Topographic Surveys:

T-5884	1:10,000	1939
T-5885	1:10,000	1939
T-5886	1:10,000	1939
T-5887	1:10,000	1939
T-5888	1:10,000	1939
T-5889	1:10,000	1939

There are minor shoreline changes between these surveys. Cultural changes are more numerous throughout. Subject surveys are to supersede above-listed T-sheets of common area for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

OLGA, FLA.	1:24,000	1958	U.S.G.S.
ALVA, FLA.	1:24,000	1958	U.S.G.S.
SEARS, FLA.	1:24,000	1958	U.S.G.S.
LA BELLE, FLA.	1:24,000	1958	U.S.G.S.
GUGUHO, FLA.	1:24,000	1958	U.S.G.S.

The culture and drainage of these topographic quadrangles was compiled in part from photography of 1951-52 and this information differs between these surveys.

64. Comparison with Contemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts:

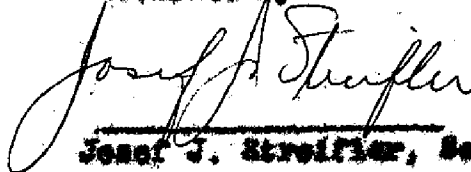
1289	1:80,000	Revised to 61 7/3
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There are only minor differences between these surveys that can be detected in consideration of scale difference.

66. Adequacy of Results and Future Surveys:

These shoreline map manuscripts have been compiled according to instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by:


Josef J. Streifler, Sept. 1961

Approved by:

L. C. Lande

Chief, Review & Mapping Sec.
Photogrammetry Division

Marvin J. Paulson

Chief, Nautical Chart Division

J. E. Knapth 8/3/62

Chief, Photogrammetry Division

Max Skellett

Chief, Operations Division

49. NOTES FOR THE HYDROGRAPHER

None.

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T. 10971

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS

5a. Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy WHS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks XX
9. Plotting of sextant fixes XX 10. Photogrammetric plot report W.O. 11. Detail points W.O.

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features WHS

CULTURAL FEATURES

27. Roads WHS 28. Buildings WHS 29. Railroads XX 30. Other cultural features WHS

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report WHS 38. Field inspection photographs WHS 39. Forms WHS

40. William H. Shearouse Milton M. Slattery
William H. Shearouse Supervisor, Review Section of 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:

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10971

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all
 information of like nature on the uncorrected chart.
 Give reasons for deviations, if any, from recommendations
 made under "Comparison with Charts" in the Review.