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DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. B

REGISTER NO. 6182

State Florida
General locality AFECRIDASEAST COAST
Locality VICINITY OF PORT EVERGLADES
Scale 1 to 5,000 Date of surveyJune 21 to July 21, 1934
Vessel Party No. 22
Chief of party W. H. Bainbridge
Surveyed by C. L. Roshore
Inked by C. L. Roshore
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated April 30 & Way 10
Remarks:

applied to chart 546. Oct. 14, 1935 g. H.S.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET 'B', PROJECT H.T. 181, PORT EVERGLADES, FLORIDA, UNDER INSTRUCTIONS DATED APRIL 30, 1934, and MAY 10, 1934.

General:

The Sheet, of 1 to 5,000 scale, covers Port Everglades, Fla.; its entrance from the Atlantic Ocean; the adjacent Atlantic Coast and Intracoastal Waterway a distance of 0.30 nautical miles north and 1.46 nautical miles south. The general character of the coast is low and sandy, backed by (1) Mangrove swamps - south of latitude 26° 04' 30", (2) Hydraulic dredged Florida Rock spoil banks from port construction - north of latitude 26° 04' 30".

Landmarks:

The prominent land marks visible from the ocean and from the air and shown on the sheet are: (1) Two rock jetties extending approximately 200 meters off the coast line at Port Everglades entrance; (2) The floating buoys, fixed navigation aids, front and rear range towers (lighted); (3) The Port Everglades dock facilities: slip, wharves, warehouse, and office; (4) The Standard Oil Company and Belcher Oil Company storage tanks. The rectangular area adjacent to and south of the slip is hydraulic dredged Florida rock fill and is used as a U.S. Marine camp and drill ground.

Character of Control:

The third order triangulation stations Mabel, Spoil, Front Range Light, Rear Range Light, Sollee, Mullet, and Wave, appearing on the sheet were extended by this party in connection with and prior to the topographic survey from the second order stations Count and Dale, 1928 datum adjusted in accordance with attached correction sheet to conform with the values given in Appendix No. 6, Report for 1911. The above stations provided an adequate and circumambient control scheme for the supplemental plane table graphic triangulation traverses and establishment of additional stations at vantage points.

Traverse Closures:

The traverses were closed within the prescribed limits; the closure errors being distributed, and all occupied stations checked by the three point resection method.

Page 2 of 3 Descriptive Report to Accompany Topographic Sheet "B"

Surveying Methods Used:

All hydrographic stations and navigation aids were located by graphic triangulation intersection from three to five stations, or located by stadia and checked by intersection from two stations. The high and low water shore lines and topographic features of lesser importance were located by stadia distances. Hydrographic control in the restricted inshore waters afforded a comparatively close check on the accuracy of the hydrographic stations and navigation aids.

Changes of Prominent Features:

Comparison with previous maps and charts, shows that the sandy coast line is subject to considerable change, especially in the vicinity of station Mabel. The shore line at this point is now some 70 meters west of the previously shown; and the position of station Sand - G.C.M. 1928 - is now 58 meters off shore. The old Intracoastal Waterway at this point is now 85 meters in width instead of a previously charted width of 140 meters.

Chart No. 1248 shows an inlet from the Atlantic Ocean into the old Intracoastal Waterway at latitude 26° 04' 45" which is now non-existant. The Intracoastal Waterway now has a dredged channel south from latitude 26° 05' 07" that does not show on previous charts.

Data compiled by this party shows the azimuth of Port Everglades Entrance Lighted Range to be 269° 44' 28.0" instead of $271\frac{10}{2}$ according to 1934 Local Light and Buoy List, and Atlantic Coast Light List.

Incompleted Work, and Reasons Therefor:

The Mangrove Swamp area with its high tide lagoons, south of latitude 26 05 30 and west of the new Intracoastal Waterway was not charted, due to the impenetrable nature and minor importance of the swamp.

Positions of Hydrographic Stations:

The hydrographic survey was accomplished by this party in its combined operations, and for this reason it is deemed unnecessary to incorporate a list of plane table positions for the hydrographic stations.

Page 3 of 3
Descriptive Report to Accompany Topographic Sheet "B".

Character of Swamps:

The Mangrove Swamps are tangled masses of mangrove trees and roots, and are awash at high tide. The tidal flats are bare soft mud flats that would not sustain the weight of a man.

Magnetic Variation:

The declinatoire was applied at stations Sollee and Wave, and the magnetic variation of 1° 10° east was observed at both points. It will be noted that charts of this area show a variation of 1° 30° east with no annual change.

Statistics:

Area surveyed, in square statute miles - - - 1.54
Length of detailed shore line, in statute miles - 11.00
Length of roads, in statute miles - - - - 0.30
Length of railroads, in statute miles - - - - 2.30

Approved:

Jan 8, 1935

* CORRECTION TO TRAVERSE

Baker from Publication 1911 Baker by Traverse, 1928 Correction Traverse to Public	25 25	54	tude 28.538 28.850 -0.312"		tude 20.992 20.92 +0.072"
Hillsboro Inlet Light from publication 1911 Hillsboro Inlet Light by traverse 1928			32.350 32.62		51.572
Correction Traverse to Public Mean Correction Traverse to F	atio	n	-0.27"		+0.052"

TRAVERSE STATIONS PLOTTED ON TOPOGRAPHIC SHEETS

Black Water Tank,	26 Tr	ver 07	se 22.62	Corr.	Corr 26	ecte 07	d Positio	n Meters (1177.8)
(Ft. Louderdale)	80	07	29.74	+0.06	80	07	29.80	668.7 (839.1) 827.9
Count, Broward Co.	(26	06	53.84	-0.29	26	06	53-55	(198.5)
Courthouse,(Ft. Louderdale)	(80	08	26.84	+0.06	80	08	26.90	(919.63) 747.3
Sand (Lost)	26	04	27.16	-0.29	26	04	26.87	(1019.6.)
	80	06	34.51	+0.06	80	06	34-57	826.9 960.9 1151.3 (706.8) (516.4)
Cupola, Bathing Casino	26	06	58.90	-0.29	26	06	58.61	(½2.7) 1803.7
(Ft. Louderdale)	80	06	18.52	+0.06	80	06	18.58	(1150.8) 516.2

* NOTE:

The positions on topographic sheets A and B, vicinity Port Everglades, Florida, are based on the coastal traverse of 1928. The positions were taken from field computations but were adjusted for the discrepancies found at Station Baker and Hill boro Light House. When this traverse was run northward from Biscayne Bay discrepancies as indicated above were found at Baker and at Hillsboro Light House. As the locality of this work is approximately half way between those two stations the mean of the discrepancies was used in correcting the field computations. This should make the positions used correspond with the values for this locality given in Appendix No. 6, Report for 1911.

F. S. Borden.

altach to Description Report Shew "B"

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

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,						J	amiary	7 . 1935		
Descror, U. S. Coast and Geo	ODETIC	SUR	RVEY;							•
The following determined description given below, and sh	objec Jould l	ts ar be ch	e prominer arted.	nt, ca	n be	readily di	stinguish	ed from s	eaward from the	}
description given boton, and an	ourų,									
								ainbride	Chief of Party.	.
				POSI	TION					•
DESCRIPTION		LATI	ITUDE		LONG	SITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED	
	0		D. M. METERS	•	ı	D. P. METERS	DATUM			
FRONT RANGE LIGHT (Port										-
Everglades, Fla.)	26	05	1072.1	80	07	754.8		Triang.	1248, 3260)	546
REAR RANGE LIGHT (Port								_		
Everglades, Fla.)	26	05	1068.1	80	07	1589.6		ž†	1248, 3260	,546
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Positions corrected to a	gree	wit	h val ues	for	thi	s locali	ty give	n in App	endix No. 6,	
Report for 1911.										,
The azimuth of the light	ed re	ange	is 269°	441				-		,
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A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Land-

marks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently represent to short. sufficiently permanent to chart.

To:	H	M	.St	ror	ıg
Fron	n:	C.	.ਸ [ੇ]	Mi.	

GEOGRAPHIC NAMES

Jan. 31, 1**93**5 FLORI DA

1248 Chart No._

Names approved Feb. 7, 1935.

- *, Approved by the Division of Geographic Names, Department of Interior.
- ¢, Not Approved by the Division of Geographic Names, Department of Interior.
- R, Referred to the Division of Geographic Names, Department of Interior.

			New Names	Names assisted	
Status	Name on Survey	Name on Chart	in local use	Names assigned by Field	Location
	Stranahan River			Same	
	Sul andreas 111 vol	Book Brown L		Dano	
		Port Everglades			
	Intra-Coastal Waterway	Intracoastal Waterway	n other C &	G S Charts	·
<u></u>	Atlantic Ocean	·	 	<u> </u>	
	Lake Mabel *				
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<u></u>	Add: Taken from large so on file in office of	ale recent official maps the Geographer of the Ce	of Fort Laud	erdale	
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Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. T-6182(1934).

Vicinity of Port Everglades, East Coast, Florida Surveyed June-July 1934 Instructions dated April 30, 1934

Plane Table Survey - Aluminum Mounted

Chief of Party - W. H. Bainbridge. Surveyed by - C. L. Roshore.

1. Condition of Records.

The records conform to the requirements of the Topographic Manual with the following exceptions:

- a. Evidence that the projection and the plotting of the triangulation stations had been checked was lacking, since the usual notations at the bottom of the sheet were omitted. This has been accomplished in the office.
- b. The mangrove line is shown as a full line, the same as the high water line. Although there is an explanatory note regarding this, it would have been preferable to indicate this mangrove edge by symbol to make it apparent that this edge is not the high water line.
- c. The survey fails to show the station at which the magnetic meridian was obtained.
- d. Channel markers and beacons are inked in solid triangles. This method of indicating beacons is not desirable because it covers up the prick point which marks the exact location.

2. Compliance with Instructions for the Project.

The survey complies with the instructions for the project.

3. Junction with Contemporary Surveys.

The junction with T-6181(1934) is satisfactory.

4. Comparison with Prior Surveys.

a. T-1510 (1883).

Since the time of this survey dredging and jetty construction have changed this area very considerably. There is a marked shift in the outer coast line at lat. 26°04.5°. It appears to have shifted about 70 meters westward.

b. T-4357 (1928).

This survey shows good agreement in the shore line from the north to lat. 26°05.0°, From here south there has been considerable change due probably to the new Intra-Coastal Waterway. An inlet at lat. 26°04.8° has been closed entirely and the outer coast line has shifted about 70 meters to the west. The tendency appears to be to shift the narrow strip of sand so that the water immediately inshore is being filled up.

c. T-4527 (1927).

This is an air photo compilation on 1:20,000 scale. A comparison was made and the agreement is good except where dredging operations have caused changes since the time of the present survey. This sheet is to be used for the location of the submerged jetties north 5. Field Drafting. and south of the entrance to Port Everglades.

The field inking of the sheet is satisfactory.

6. Additional Field Work Recommended.

The survey is complete and no additional work is necessary.

7. Superseding Prior Surveys.

Insofar as the topography actually included in the present survey is concerned, it supersedes the following surveys for charting purposes:

T-1510 (1883) In part. T-4357 (1928) " " T-4527 (1927) " "

8. Reviewed by A. F. Jankowski, February 1935.

Inspected by A. L. Shalowitz.

Examined and Approved:

C. K. Green, C. H. Treen. Chief, Section of Field Records.

Chief, Section of Field Work.

Chief. Div. of Charts.

Chief, Div. of H & T.