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TP-00189

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Coastal Boundary
Job No. PH-7010 Map No. TP-00189.
Classification No. Final Edition No1
Field Edited Map
LOCALITY
State Florida
General Locality Palm Beach County
Locality Lantana to Boynton Beach
19 70 TO 197 3
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAR FORM 76-35A NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.				_			-
DESCRIPTIVE REPORT - DATA RECORD RESURVEY	NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OCEANIC AND ATMOS	OF COMMERCE PHERIC ADMIN,	Ť	YPE OF SURVEY	SURVEY	тр. 00189
PHOTOGRAMMETRIC OFFICE Rockville, Maryland OFFICER-IN-CHARGE Commander Wesley V. Hull I. INSTRUCTIONS DATED I. OFFICE General-Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, June 19, 1973 OFFICE-Supplement 1, August 19, 1973 OFFICE-Supplement 1, August 19, 1973 OFFICE-Supplement 11, Sept, 24, 1973 II. DATUMS I. HORIZONTAL: Commander Wesley V. Hull OTHER (Specify) DATE OTHER (Specify)					ORIGINAL	MAPEDITI	on no. (1)
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NOAA FORM 76-36B (3 - 72)			NATIONAL OCEAN	U. S. DEPARTMEN IC AND ATMOSPHERIC NATIONAL	
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TIDE STAGE REFERENCE		(C) COLOR		ZONE	EST
PREDICTED TIDES		(P) PANCHE	-	Eastern	EST STANDAR
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TIDE CONTROLLED PHOTOGR	APHY	(I) INFRAR	ED D G W	75th&60th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF	TIDE
*71E(C)9514-9517	3/8/71	1202	1:30,000	The stage of	tide is
	1			inapplicable	for the
				color photog	raphy.
70L7169R-7172R	8/17/70	1045	1:25,000	Refer to the	:
70L7037R-7040R	8/15/70	1300	1:25,000	following pa	ge for
				tide informa	ition.
				<u></u>	
REMARKS	_	_			
*Photography used	for the ass	embly of	the orthoph	noto mosaic.	
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		the tide	-coordinate	ed black-and-	white
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4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
Inapplicable					
5. FINAL JUNCTIONS					
NORTH	EAS	T	SOUTH	WEST	
TP-00188	N-	one	TP-00190	Non	e
REMARKS					

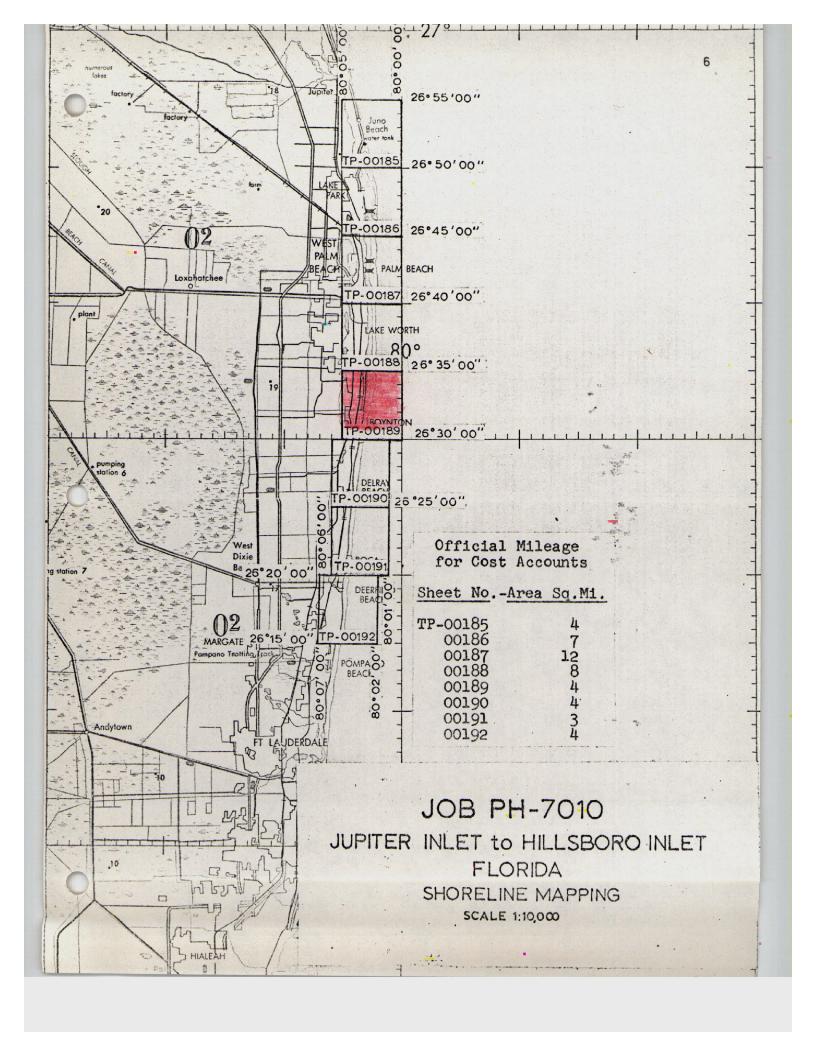
Final junctions were made in the Coastal Mapping Section

TP-00189 TIDE INFORMATION

РНОТОСКАРНУ	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RAIIGE
ATLANTIC SHORELINE			
70L7037R~7040R	Hillsboro Inlet Ocean	+0.22MLW	2.57
70L7169R~7172R	Hillsboro Inlet Ocean	-0.01MHW	
INTERIOR WATERS			
70L7037R~7040R	Boynton Beach Lake Worth	+0.18MLW	2.52
70L7169R-7172R	Boynton Beach Lake Worth	+0.50MHW*	
in the instructions portions of the MH	tolerance is greater than + for some of the photography and MLW lines. The Horizon ified by field edit.	used in c	bmpiling
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		· · ·	ECOVERED BY	R. R. Wa		5/73
. HORIZONTAL	CONTROL		TABLISHED BY		agner	5/73
. HUNIZONTAL	SORTNOL	PRE-MARKED OR 1		Inappli		
 			ECOVERED BY	Inappli		5 / 7 2
NERTICAL CO	NTROL		TABLISHED BY	C. V. U	11man	5/73 5/73
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				1	llman	5/73_
. LANDMARKS A		COVERED (Triangulat	eld Methods) BY	C. V. U		5/73
AIDS TO NAVIO		, ,	DENTIFIED BY	C. V. U		
		TYPE OF INVES		 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TTIIIGIL	
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. PHOTO INSPEC	TION	CLARIFICATION	OF DETAILS BY	c. v. u	llman	5/73
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	Refer t	o Field Edi	t Report	71E9515	1 7	DELRAY RM1,
				71E9516	W233 RESET	, INTRACOAST WATERWAY
	J			71E9517	T315, R315	
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. GEOGRAPHIC	AMES:	REPORT X	NONE	6. BOUNDARY A	ND LIMITS: R	EPORT X NONE
. supplementa None	L MAPS AND F	PLANS				
OTHER FIELD	RECORDS (Ske	ch books, etc. DO NO	T list data submit	ted to the Geodesy	Division)	
Skatabbaal	k pages				•	

NOAA FOI (3-72)	RM 76-36D				NATION	AL.OC	EANIC A	U. S. DEI	PARTMEN SPHERIC	NT OF COMMERCE Administration
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2. 🔽	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT SOURCE DATA (except for C ACCOUNT FOR EXCEPTIO	IFICA Geogra	TION CARDS;	FORM	NOS 567	SUBMIT	TTED BY	FIELD P	ARTIES.	
- 4. □	DATA TO FEDERAL RECO		ENTER. DAT	E FORWARD	ED:		,			-
IV. SURV	EY EDITIONS (This section	shall b	e completed e	ach time a ne	w map aditi	on is re	gistered	,		
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Record of Decisions TP-00189

The Record of Decisions was discontinued on June 17, 1975. Refer to Form 76-36B bound in this Descriptive Report for tidal datum information.

SUMMARY TP-00185 thru TP-00192

Coastal Zone Map TP-00189 is one of eight (8) similar maps in Job PH-7010: The index to adjoining sheets will show its location. These maps are intended for planning purposes by the State of Florida and for the compilation of NOS Nautical Charts.

The area is covered by aerial photography taken in 1970 and 1971 on color and black-and-white infrared film. The infrared film was tide coordinated.

Field operations consisted of the following:

- 1. Recovery of horizontal and vertical control
- 2. Pre-marking of horizontal control for aerotriangulation
- 3. Establishment of tidal datums
- 4. Tide station and tidal bench mark information.

Horizontal control was extended by analytical aerotriangulation methods using the stereo comparator. This provided control for the orthophoto mosaic and compilation.

Shoreline and alongshore features were compiled from tide-coordinated black-and-white infrared photography using stereo plotter and/or graphic methods. The interior of the maps are depicted by an orthophoto mosaic.

All line work is scribed, approved symbols are shown in the marginal data.

Explanatory notes relating to datum determinations approved by a special ad hoc committee are shown on the reverse side of the maps.

All maps are published by the NOS and were printed in three colors by the Reproduction Division. A special registration copy was prepared to meet the requirements for Nautical Charts. This registration copy shows additional offshore details not shown on the published map and will be noted "Registration Copy" under the title block.

The following items will be registered in the NOS Archives:

- 1. A plastic copy of the published map (1:10,000 scale)
- 2. A stable base positive of the registration copy (1:10,000 scale)
- 3. A continuous tone negative of the orthophoto mosaic
- 4. The Descriptive Report.

All negatives used in printing the maps are filed in the Reproduction Division.

All field data such as field edit sheets, discrepancy prints, field edit photographs, foreshore profiles, and field forms are filed in the National Archives.

Flalb Racan

JOHS FH-7010 and PH-7113

In accordance with Instructions - FIELD - PH-7010, Aerotriangulation Control, and Instructions - FIELD - Job PH-7113; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Florida, the following report is submitted.

1. HORIZONTAL CONTROL

The two jobs are treated as one for report purposes, targets on Job PH-7010 being replaced in approximately the same positions as they were in November 1970.

Twenty-one stations were premarked for 1:30,000 scale color photography. Where feasible, Array No. 1 was used, being a 9-foot triangle with 3 runners or wing panels of 2 x 20 ft. dimensions. Several variations were used as the area is highly developed, particularly in the southern part, and space was not always available. The CSI cards are believed to be adequate to explain the variations but some discussion is in order.

From north to south the first 8 stations are Array No. 1 with varying degrees of angle between the wing panels.

PUMPANO 1928 was marked by a triangle painted on the macadam (station is in a parking area) over the station mark. Paint used was Pittsburg flourescent TANGERINE (very close to what we call fire orange) and should show well on the color photographs. (This paint was used on two other stations and we would be interested to know how it turns out.) In addition, a white 9-ft. trianglewas placed on top of a nearby flat-roofed building approximately 10 feet high, which is a substation.

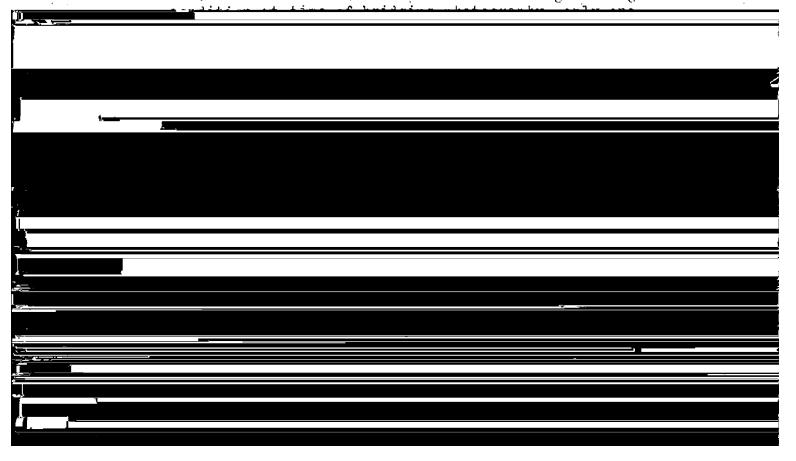
HALLAHD 1928 was marked by a painted target substation placed on the light brown sand of a public beach. We used a white plactic target and painted it. No room was available for wing panels at this small beach.

CAPE FLORIDA OLD TOWER FINIAL 1883 was marked by a single white triangle. No room was available for wing panels.

CAUSLWAY 1934 was marked by a painted triangle placed on the west end of a bridge under construction. The bridge is real white and the color should show "like a light".

PAN ALERICAN 1935 was marked by 2 white triangles placed on the lower level of the 3-level, flat-topped building, one on the east side and one on the south. They are approximately 18 to 20 feet above ground. Two triangles were used "to be sure".

BLACK POINT 3 and NARROW POINT are in the water and approximately 50 feet offshore. Triangles were built over the station marks and about 3 feet above estimated mean high-water level. 8-foot squares were used as wing panels believing these would withstand more wind. The Commander of ESSA 88 reported these targets in good



stations were manned.

- (1) Lake Worth, Atlantic Ocean
- (2) Andrews Avenue Pridge, Fort Lauderdale
- (3) Bahia Mar Yacht Club, Fort Lauderdale
- (4) Port Everglades
- (5) Biscayne Creek, North Miami
- (6) Biscayne Bay, Kiama
- (7) Biscayne Hay, Cutler
- (8) Biscayne Bay, Turkey Point
- (9) Card Sound

Photography obtained was based on the first seven gages. Lines 30-5 and 30-6 would have been based on TURKEY PULWY and CARD SCUND. These lines were not photographed. Also, high-water only was obtained for line 30-4, based on CUTLLR.

Recordings entered in the tide volumes, Form 277, were at 5 minute intervals near and during photography; otherwise 15 minute interval. Wet staff readings—crest, trough and mean—were recorded while photography was in progress. Tolerances of ±0.3 ft. for mean high-water and ±0.1 ft. for mean low-water were observed. Eastern Standard Time was used.

Photography was obtained on 2 days: Low-water February 24 and high-water Earch 2. Lines 30-1, 30-2 and 30-3 were flown at low-water. Lines 30-1, 30-2, 30-3, and 30-4 were flown at high.

<u>Low-water photography Feb. 24.</u> (Time furnished by Photographer.)

- (1) Segment of Line 30-1 approximately & miles north and & miles south of Port Everglades inlet (or entrance) 1201 to 1210 hrs. based on PORT EVERGLADES staff reading of 1.7 ft.
- (2) Line 30-1, based on LAKE WORTH PIER, photographed in its entirety from 1828 to 1241 hrs. when the tide reading was 1.4/1.3 ft.
- (3) An 8 mile segment of line 30-1, based on BAHLA TACHT CLUB, was photographed at 1444 to 1449 hrs. when the tide staff read 1.7 ft.

- (4) An 8 mile segment of line 30-1, based on ANDREWS AVENUE BRIDGE was photographed at 1511 to 1515 hrs., when the staff read 118 ft.
- (5) Line 30-2, based on BISCAYNE BAY, MIAMI, and flown south to north, was photographed at 1259 to 1305 hrs., when the staff read 2.2 feet.
- (6) Line 30-3, based on BISCAYNE BAY, MIAHI and BIS-CAYNE CREEK, NORTH MIAHI, flown south to north, was photographed at 1319 th 1324 hrs, when the BISCAYNE Bay, Miami staff read 2.1 and the BISCAYNE CREEK staff read 3.1, both ends of the line being with tolerance.
- (7) Line 30-2 was then photographed again, based on



3. FORESHORE PROFILES

Ten planetable beach profiles were run within the limits of Job PH-7113. They cover a linear distance of approximately 40 miles. The northerly one is at triangulation station PUMPAHO and the southernmost one is near the Cape Florida lighthouse on Key Biscayne. Mr. Phil Walbolt ran 7 of the 10 during the period of photography, basing tide stage on a nearby tide gage. The other 3 were similarly accomplished two or three days after photography, with information as to tide level being obtained from the Weather Service's remote recorder in Fiami Beach via telephone, in 2 instances.

The procedure was to drive a stake to water level near shore and obtain the tide gage reading at that time by radio from a nearby gage. This elevation thus became the bench mark to determine the horizontal position of mean high— and mean low-water lines from a planetable setup. Points occupied were triangulation stations or recoverable photo-topo points. The planetable was oriented to magnetic north with an azimuth to an identifiable point. One variation from this is at profile No. 7 where no distant azimuth was visible and the profile was laid out to parallel a beach groin that should be clearly visible on the low-water photographs.

No profiles were run in Job PH-7010 since the infrared photography was obtained several months ago.

In addition to sketches at some of the occupied points, USGS quad maps show the approximate locations of the profiles along with premark target locations.

Submitted 3/25/71

William H. Shearaux

William H. Chearouse
Chief, Photo Party 60

PHOTOGRAMMETRIC PLOT REPORT JUPITER INLET TO HILLSBORO INLET, FLORIDA Job PH-7010 January 1973

21 AREA COVERED

This report covers an area on the east coast of Florida south from Jupiter Inlet to Hillsboro Inlet. The job consists of eight (8) 1:10,000 scale sheets: TP-00185 through TP-00192.

22 METHOD

Two (2) strips of photography (Nos. 1 and 2) were bridged using aerotriangulation methods. Ties were made between these strips and with strip No. 27 of the Cape Kennedy to Jupiter Inlet Report immediately to the north of this area. Image points were located to rectify photographs for orthophoto nautical and small craft charts. All points were drilled by the PUG method. Closure to control has been noted on the read-outs. Attached is a sketch which shows the control used in the strip adjustments. All points were plotted on the Florida East Zone Plane Coordinate System using the Coradimat Plotter. Ratio prints of the area were ordered. The bridging work was completed in December 1971.

23 ADEQUACY OF CONTROL

Horizontal control was premarked and was adequate for bridging.

24 SUPPLEMENTAL DATA

USGS Topographic quadrangles were used to obtain vertical control for bridging.

25 PHOTOGRAPHY

The following 1:30,000 scale RC-8 color photography was used in bridging:

Strip 1 71E(c) 9497 through 9507 Strip 2 71E(c) 9511 through 9530

The quality and definition of the photography was adequate.

Respectively submitted,

Victor McNeel

Approved and forwarded:

John D. Perrow, Jr., Chief
Aerotriangulation Section

JCB IN-720
JUPITER INCET TO RILESSONO INCET
FLOAIDA
SHORELINE RAPPING
SCALE 1:10,000

ONTRO

. Golf 1934, TM 1

. Ct. Marys 2-2, (subpoint)

3. East 1924, (subpoint !) 4. Police 1970, (subpoint A)

4. Police 1970, (subpoint 65. Delray North Base 3M 2,

6. Delrey Couth Base 1934, UN o 7. Cloicter 1929

3. Turtle 1929
9. Fompano 1923 (subpoint A)

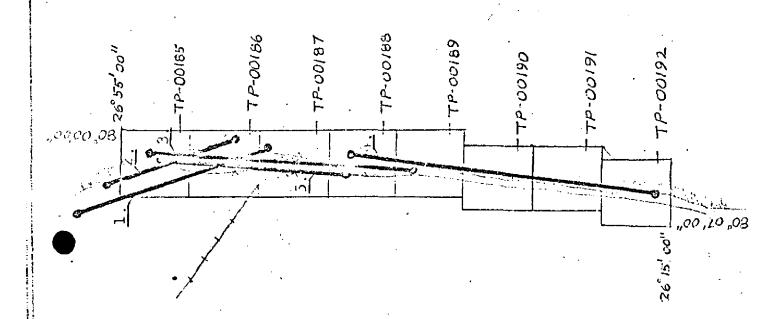
A Horizontal control used in adjustment

1:39,000 scale photography

JOB PH-7010
JUPITER INLET TO HILLSBORD INLET
FLORIDA
COMPILATION PHOTOGRAPHY

1:25,000 SCALE INFIARED

1; 70, 6991; - 7003; MCW 2; 70, 7385; - 7394; MIW 3; 70, 7021; - 7056; MW 4; 70, 7155; - 7176; MIW 5; 70, 7361; - 7373; MW



Horizontal Control

Map TP- .00189

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
HAULOVER, 1929	Book 422, p. 2, 21 G.PFla. Vol. 1, p.769, P.C. Fla. E Zone, p. 165
LANTANA HIGH SILVER TANK, FUYIAL, 1934	Book 422, p. 1, 22 G.PFla. Vol. 1, p. 183, P.C. Fla. E. Zone, p. 47
KIRK 2, 1966	Write Director, National Geodetic Survey
ALLING, 1929	Book 422, p. 1, 22 G.PFla. Vol. 1, p. 769, P.C. Fla. E Zone, p. 165
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Geodetic	Elevations (feet)	
Bench Mark	NGVD 1929	Condensed Description
Z34	10.440	C&GS Disk stamped Z34 1933 10.440, 50.0 ft. E of track, 24.5 ft. W of W curb of U.S. H. 1, 24.5 ft. E of E of rail of N-bound track.
T121	9.091	C&GS Disk stamped T 121 1945, 24.5 ft. W of W curb of U.S. H. 1, 25.3 ft. E of E rail of N-bound track, 18.0 ft. N of centerline of road.
DELRAY NORT BASE RMI	H 12.582	C&GS Disk stamped DELRAY NORTH BASE NO 1 1933, 87.0 ft. W of and across track from W curb of U.S. H. 1, 19.5 ft. W of W rail of S-bound main track, 15.0 ft. E of E side of fence.
G315	5.210	C&GS Disk stamped G315 1970, 44.4 ft. W of centerline of hwy., 14.6 ft. E of junction of N-S seawall, 1.3 ft. W of E end of E-W seawall.
н315	19.419	C&GS Disk stamped H315 1970, 68.3 ft. NE of and across road from S end of fence, 25 ft. E of center of S.H. AlA, 4.0 ft. NW of NW palm tree of two.
T315 (SRD)	25.210	F.S.R.D. Disk stamped T315 1970, 17.8 ft. S of centerline of Ave., 7.3 ft. E of W end of bridge bannister.
R315	15.499	C&GS Disk stamped R315 1970, 22 ft. E of center- line of road, 66 ft. N of centerline of driveway, 2 ft. W of pole.
W233 RESET 1969	13.504	C&GS Disk, W233 R. 1969, 132 ft. S of RR X-ing, 103 ft. W of center of NE 4th St., 17 ft. W of W rail, 1.4 ft. N of witness post.
HAULOVER	26.900	In E bridge rail, 54.5 ft. SE of bridge center, 32 ft. N of SE bridge corner, 20.5 ft. E of Ala centerline, C&GS Disk HAULOVER 1929.
N310	6.516	*
P310	5.312	*
Q310 .	5.308	*
R310	5.410	, , , , , , , , , , , , , , , , , , ,
U233	11.407	

^{*} Description given under Tidal Bench Marks

Compilation Report TP-00189

31. Delineation

The land area of this map is shown by an orthophoto mosaic. The orthophoto mosaic was assembled with black-and-white rectified prints from the color photography. The rectified prints and mosaic were controlled by points determined by aerotriangulation.

The tidal datum lines and any offshore features on this map were compiled from office interpreted tide-coordinated black-and-white infrared photography. The rectified color photography was used as an aid for interpreting culture features and compiling the limits of shallow and shoal areas for Nautical Charts. The tide-coordinated black-and-white infrared photography was controlled by common planimetric features and map points determined by aerotriangulation.

32. Horizontal Control

Refer to the photogrammetric plot report bound with this Descriptive Report.

33. Supplemental Data - None '-

34. Contours and Drainage

Contours are inapplicable. Drainage is depicted by the orthophoto mosaic.

35. Shoreline and Alongshore Details

Photography was adequate for the delineation of the mean high and mean low water lines.

Completeness and accuracy of the tidal datum lines will be verified during the field edit operation.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

The images of charted objects visible on the photography were located during compilation and will be verified by field edit.

Objects not visible on the photography will be located by the field editor.

38. Control for Future Surveys - None

39. Junctions

Refer to form 76-36B(page 2 of this Descriptive Report).

40. Horizontal Accuracy

Coastal Zone Map TP-00189 complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outlined by project instructions, PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle:

Lake Worth, Fla, scale 1:24,000, 1945, photorevised 1967.

47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

SC-847, scale 1:40,000, 11th edition, dated Aug. 1972.

No significant differences were noted.

Submitted by

J. P. Battley,Jr.

Chief, Coastal Mapping Division

51. METHODS

The shoreline of the Atlantic Ocean was verified visually by walking along the shoreline. The shoreline of Lake Worth and the Intracoastal Waterway was verified visually from a small boat while cruising just off shore. Notes regarding apparent and "fast" shoreline, piers, groins, and other shoreline features were made on the rectified photographs.

Three landmarks are recommended for charting. Form 76-40 is submitted. All three are triangulation stations.

Form 76-40 is also submitted for nonfloating aids. One was photo-identified, and the others located by sextant cuts.

Bench marks were searched for, identified on the photographs, and reported on forms 76-89.

All	triangulation	stations	on the	map	manuscrip	t were	searched	<i>a</i>
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Review Report Coastal Zone Map TP-00189 July 1975

61. General

The map manuscript for Coastal Zone Map TP-00189 was reviewed in its Class I (field edit applied) stage by the Quality Control Group. The review consisted of an examination of the following:

Map manuscript
Photography
Field edit and its application
Reproduction negatives
Descriptive Report

The proof copy of Coastal Zone Map TP-00189 was examined and edited by the Quality Control Group prior to its publication. This edit comprised a thorough inspection of map details to verify the accuracy of reproduction with reference to the map manuscript and the quality of reproduction. In addition, the proof copy was examined by the following sections:

Coastal Mapping - Map details Staff Geographer - Geographic names Coastal Surveys - Horizontal and vertical control

62. Cartographic Comparison

Comparison was made with the following USGS quadrangle:

Lake Worth, Fla., 1946, photorevised 1967, 1:24,000 scale

No significant differences were noted.

Comparison was made with the following Nautical Chart:

11467(formerly 847-SC) 13th edition, Sept. 14, 1974, 1:40,000 scale.

The following differences were noted between Nautical Chart 11467 and Map TP-00189:

 Chart 11467 shows a smallislet located in Lake Worth at approximate latitude 26°23.6' and longitude 80°02.6'. Coastal Zone Map TP-00189 shows the feature at MLW. This MLWL was verified by the field editor.

- 2. 2. Features such as posts, piles, etc., shown on Coastal Zone Map TP-00189 located between Hypoluxo Island and South Lake Worth Inlet are in disagreement with Chart 11467. These features were either verified or located by the field editor.
- 63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00189 complies with the instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000, and the National Standards of Map Accuracy.

Submitted by

Donald M. Brant

Approved and forwardedy

Chief, Photogrammetric Branch

Chief coastal Mapping Division

July 1975

GEOGRAPHIC NAMES FINAL NAME SHEET PH-7010 (Florida)

TP-00189

Atlantic Ocean

Boynton Beach

Boynton Canal

Florida East Coast (RR)

Hypoluxo

Hyplouxo Island

Lake Osborne

Lake Worth

Lantana

Manalapan

Ocean Ridge

Seaboard Coast Line (RR)

South Lake Worth Inlet

Approved:

Charles E. Harrington

Staff Geographer

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3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	REVIEWER GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.

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NOAN FORM 76-40 (2-71)

3. Position Verified - Enter 'Verif. mo/day/yr.'

2. Triangulation Station Recovered - Enter 'Triang, Rec. mo/day/yr.'

b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph

was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

a. For 'Field Positions' enter the date of location.

4 U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.#6

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TP-00189 National Archives Data

- 1 Field edit sheet
- 1 Discrepancy print
- 3 Forms 76-40
- 7 Pages of sketchbook of sextant
- 5 Pages of tide data

Photography:

71E(C)9514 thru 9517 (black and white ratio)
70L7037R (ratio)