TP-00145

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Coastal Boundary
Field Edited Map
LOCALITY
State Florida
General Locality Brevard County
Locality Fisherman, Point. to Malabar
19 69 TO 1970
REGISTRY IN ARCHIVES

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-593

NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMER OCEANIC AND ATMOSPHERIC ADM	CE UN.	TYPE OF SURVEY	SURVEY	тр. <u>00145</u>	
		G	ORIGINAL	MAPEDIT	ои но. (])	
DESCRIPTIVE REP	ORT - DATA RECORD		RESURVEY		_s Final	
			REVISED	JOB	_{PH-} 6910	
PHOTOGRAMMETRIC OFFICE		 -				
			LAST PRECEE			
Rockville, Marvl	and		TYPE OF SURVEY		PH	
OFFICER-IN-CHARGE	<u> </u>	7 5	· -	SURVEY D	S	
		1 0		19TO1		
Commander Wesley	V. Hull			<u> </u>	· ——	
I. INSTRUCTIONS DATED					_	
	FFICE			FIELD		
General-Instruction erative Coastal Bo	ns-Office-NOS Coop		rial Photogr	apny 9/2	2/09	
PH-7000, June 19,	undary mapping, Jo	0 Su Su	pplement I, pplement II,	1/20/10 1/20/10	、	
OFFICE-Supplement	±212 Τ Δυσυς+ 10 1072=	Su	pplement III	8/10/5	7	
NOTE:Office and Fig	eld Edit Instruc-	Fi	eld Edit(PH-	7000-Ger	eral	
tions(1973) incorpo	orate applicable		structions f			
prior operational i		Zo	ne Mapping)			
	II, Sept. 24,1973	•		<u></u>		
II. DATUMS		lot.	IER (Specify)			
1. HORIZONTAL:	1927 NORTH AMERICAN	"	ter (Specify)			
	MEAN HIGH-WATER	отн	IER (Specify)			
	MEAN LOW-WATER		Mean Water level (refer to the			
2. VERTICAL:	MEAN LOWER LOW-WATER	Re	cord of Deci	sions)		
3. MAP PROJECTION	X MEAN SEA LEVEL		<u> </u>			
3. MAP PROJECTION				GRID(S)		
Transverse Mercat	or		Florida East			
5. SCALE 1:10,000		STA	TE	ZONE		
III. HISTORY OF OFFICE OPERA	TIONS		· · · · · · · · · · · · · · · · · · ·			
OPE	RATIONS		NAME		DATE	
1. AEROTRIANGULATION			I. Saperstein	<u> </u>	12/16/70	
метнор: Analytic	LANDMARKS AND AIDS		Dempsey		7 /73/71	
2. CONTROL AND BRIDGE POINT METHOD: COradomat	T\$ PLOTTED CHECKED		applicable		1/7.173	
3. STEREOSCOPIC INSTRUMENT		-17	Taylor		3/71	
COMPILATION	CHECKED	" ├─	Richter		3/71	
INSTRUMENT: Wild B-8	CONTOURS		applicable		1	
scale: 1:10,000	CHECKED	ÞΥ				
4. MANUSCRIPT DELINEATION	PLANIMETRY!		Taylor		3/71	
Graphic:Shoreline	CHECKED		Richter		3/71	
_ METHOD:	CONTOURS		applicable			
Interior:Orthophot	O MOSAIC CHECKED		. Taylor		4/71	
scale: 1:10,000	CHECKED		P.Battlev		4/71	
5. OFFICE INSPECTION PRIOR 1			P. Battlev	,	5/71	
A ARRIVATION OF EVEL DEDI	TDATA		Webber		6/71	
6. APPLICATION OF FIELD EDI	CHECKED	1 -	C. Richter		6/71	
7. COMPILATION SECTION REVI			C. Richter		8/71	
8. FINAL REVIEW			<u>P. Battley, </u>		9/71	
9. DATA FORWARDED TO PHOTO		av D	Dwon+		((7)	
10. DATA EXAMINED IN PROTOG		BY D.	Brant 1		6/74	

NOAA FORM 76-36B				U. S. DEPARTMENT	OF COMMERCE
(3-72)			NATIONAL OCEAN	IC AND ATMOSPHERIC A	DMINISTRATION OCEAN SURVEY
^	CO	MPILATION SO	IRCES		002/11 0011121
TP-00145		MI TEXTION 30	JIC 23		
1. COMPILATION PHOTOGRAPHY					
CAMERA(S) Wild RC-8			HOTOGRAPHY	TIME REFER	FNCE
E&L 6" focal lenght		LE	GEND		
TIDE STAGE REFERENCE		(C) COLOR	_	ZONE	STANDARD
PREDICTED TIDES		(P) PANCHEC	MATIC	Eastern	1 (X) STANDARD
TIDE CONTROLLED PHOTOGRAP	'нү	(I) INFRARE	B&W	60th & 75th	MOAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF T	
73E (C) 5788-5791	2/10/70	13:47	1:40,000	The stage of to inapplicable for photography.	
70L6882R~588 5 R	8/14/70	17:30	1:25,000	+0.13MHW(1)	
70L6405R-6409R	8/12/70	11:18	1:25,000	+0.14MLW(3)-0.2	6MLW(4)
70L8929R & 8930R	2/10/70	12:11	1:20,000	-0.16MLW(2)-0.10	6MHW (\$ -)
69L3376R & 3377R	8/23/69	10720	1:30,000	-0.31MHW(4)	
REMARKS (1) Canova Beach (3) Sebastian Inle			Gallie Tide		tion
2. SOURCE OF MEAN HIGH-WATER I	LINE:				
The source of the mean linfrared photography lis	high-water 1		ide-coordina	ated black and w	nite
the fide coordinated bla	The source of the mean water-level line shown on a small portion of Turkey Creek is the fide coordinated black and white infrared photography listed in item 1 (refer to the Record of Decisions bound with this report). (Photography dated 8/25/69)				
ł					
				· .	
3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE: The source of the mean low-water line (Atlantic shore) is the tide coordinated black and white infrared photography listed in item 1. The mean low-water line on the photography was verified by foreshore profiles determined by the field edit of 1971. There is no mean low-water line shown in the Indian River.					
				·	

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
Inapplica	pre)	j	ļ	
			<u> </u>		<u>L</u>
5. FINAL JUNCTIONS					
NORTH TP-00143	& the EAST		SOUTH	WEST	

TP-00146

REMARKS

Final junctions were made in the Coastal Mapping Section.

Atlantic Ocean

Atlantic Ocean

TP-00144

(3-72)			U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY				
TP-00145		HISTO	RY OF FIELD	OPERATIONS.	<u> </u>		
I. X FIELD INSPECTION OPERATION *See Below X FIELD EDIT OPERATION.							
	OPERAT	ION			NAME	DATE	
1. CHIEF OF FIE	LD PARTY			W.H. Sheard	2150	May 1971	
			RECOVERED BY	W.H. Sheard	May 1971		
2. HORIZONTAL	CONTROL		STABLISHED BY	Inapplicabl			
	P	RE-MARKED OF	I IDENTIFIED BY	Inapplicabl			
	<u> </u>		RECOVERED BY	W.H. Sheard	ouse	April 1971	
3. VERTICAL CO	NTROL	E	STABLISHED BY	Inapplicabl			
	P	RE-MARKED OF	IDENTIFIED BY	W.H. Sheard		April 1971	
		ERED (Triangul	ation Stations) BY	W.H. Sheard		April 1971	
4. LANDMARKS A AIDS TO NAVIO		LOCATED (Field Methods) BY	W.H. Sheard		May 1971	
		TYPE OF INV	IDENTIFIED BY	W.H. Sheard	ouse	May 1971	
5. GEOGRAPHIC I	NAMES	COMPLET					
INVESTIGATIO		SPECIFIC	NAMES ONLY	W.H. Sheard	ouse	May 1971	
		NO INVES	TIGATION				
6. PHOTO INSPEC	PHOTO INSPECTION CLARIFICATION OF DETAILS BY				ouse	May 1971	
7. BOUNDARIES	ND LIMITS	SURVEYED OF	I IDENTIFIED BY	N.A.			
II. SOURCE DATA				T			
	CONTROL IDENTIF	IED		2. VERTICAL CO	NTROL IDENTIFIED		
None	1			<u> </u>	T		
PHOTO NUMBER		STATION NAME	· -	70E5788	J171; V229; J304;		
	Refer to fi	eld menort		70E5789	Z229;Y229;Z304;		
	1.0201 00 11	cra report	•	70E5790			
					TURKEY CREEK		
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3 DUOTO NUMBE	Ps (Ot alliantia)				<u> </u>		
	RS (Clarification of	deteils)					
70E5788 t	nru 5/91	ř					
4. LANDMARKS A	ND AIDS TO NAVIG	ATION IDENTIF	IED		·		
Aids to nav	igation are	plotted or	FIELD EDIT	SHEET NO. 2.			
PHOTO NUMBER		OBJECT NAME		PHOTO NUMBER	OBJECT	NAME	
70E5789	MICROWAVE T						
	(F.S.R. T	OWER)					
				ļ]		
					<u> </u>		
5. GEOGRAPHIC NAMES: REPORT X NONE 6. BOUNDARY AND LIMITS: REPORT X NONE							
7. SUPPLEMENTAL MAPS AND PLANS							
None 8. OTHER FIELD	RECORDS (Shareh	ooks, ata DO N	OT list data submit	ted to the Geodesy D	Pivision)		
	Field Report No. 1. Graph				00144 t& TP-0014	51.	
THE COMMON	1, Graph					-	

NOAA	FORM	76-36D
(3-72)		

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

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	BRIDGING PHOTOGRAPHS;								
	CONTROL STATION IDENTI								
3.	SOURCE DATA (except for G ACCOUNT FOR EXCEPTION		phic Names Rep	port) AS LISTED :	N SECTION I	II, NOAA	FORM 76-36	,c.	
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EDITION	*				□n.	□ III.		_	FINAL

Record of Decisions Pertaining to Symbolization of the MHW, MLW, and MWL Datums Map TP-00145

Shoreline Delineation

The mean low-water and mean high-water tidal datums were determined along the outer coast (Atlantic Ocean) from tide observations at Canova Beach Tide Station (north of this map) and Vero Beach Tide Station (south of this map). The interior water areas shown on this map are Indian River, Palm Bay, and Turkey Creek.

The tidal datums in Indian River and Palm Bay were established by observations at Palm Bay Tide Station (shown on this map). Since the mean range at that station was approximately 0.2 foot, the standard mean high-water line symbolization was used for delineating the Indian River and Palm Bay mean high-water lines, except for areas where vegetation, such as mangrove, obscured the shoreline, and then the apparent shoreline symbol was used. The mean low-water line was not mapped because Federal/State boundary problems are not applicable to those waters, and, for charting purposes, the lines would be synonymous because of the map scale and slope of the beach.

Restrictions in the entrance to Turkey Creek which reduce the ebb and flow of the tide from Palm Bay's and Indian River's 0.2 foot range to a significantly lesser range in the creek, were noted on the aerial photographs and Bureau Charts where U.S. 1 highway bridge separates Palm Bay from Turkey Creek. In this situation, the mean high/low-water datums converge and, for mapping purposes, the mean high- and mean low-water lines are indistinguishable. As a consequence, special treatment was given to the portrayal of shoreline in Turkey Creek; the mean water-level line was mapped in lieu of the mean high-water line and shown by a distinctive symbol, except in areas where there are manmade features such as bulkheads which were then portrayed by a solid line.

* Decision Responsibility for Shoreline Symbolization

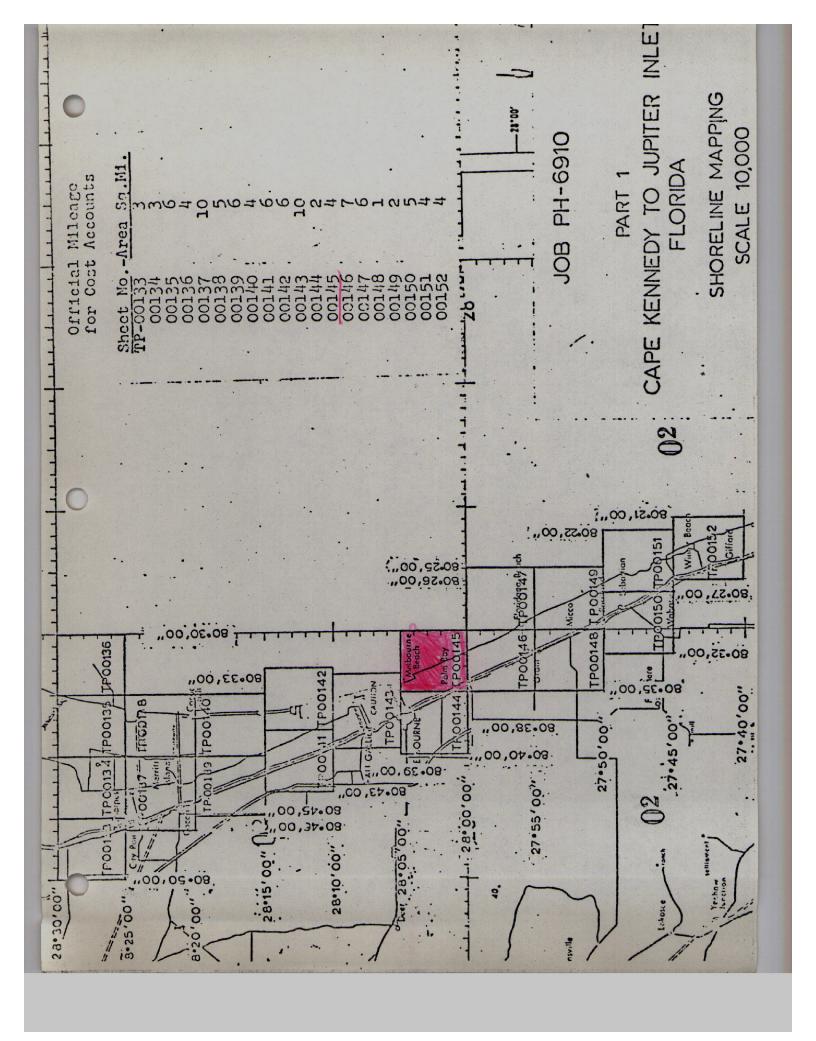
Specific decisions as to where the various symbols would be used for mapping the mean high-water line, mean water-level line, apparent shoreline, etc., were made November 22, 1972, in Rockville, Maryland, by competent technical and legal officials of NOS and NOAA. NOS was officially represented by Cdr. Wesley V. Hull, Chief, Coastal Mapping Division, and Mr. Carroll I. Thurlow, Chief, Tidal Datum Planes Section of the Oceanographic Division. The official NOAA representative was Mr. Carl Johnson, Staff Attorney, Office of General Counsel.

* See Review Report for clarification of date.

They also examined photographs and field edit reports with respect to inland penetration of small streams and drainages and concluded that those features were properly delineated and symbolized on the map.

Archiving

A copy of this report shall be included in Descriptive Report TP-00145 which will be permanently filed in the NOS Archives.



SUMMARY TP-00133 thru TP-00152

Coastal Zone Map TP-001 45 is one of twenty (20) similar maps in project PH-6910, Part I. The layout of sheets (page 6 of this report) 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 1969 and 1970 on color and black and white infrared film. The infrared film was tide coordinated.

Field operations consisted of the establishment of tidal datums, control recovery, pre-marking of control, and field edit. Data for the compilation of tide stations and tidal bench marks were furnished by the Tidal Datum Planes Section. Condensed descriptions of both tidal and geodetic bench marks shown on this map were furnished by the Coastal Surveys Section.

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 tidecoordinated black and white infrared photography using a stereo plotter and 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 threee 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 Bureau 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. The Descriptive Report.

All negatives will be filed with the Reproduction Division.

All field data such as Forms 152, field edit photographs, profiles, field edit ozalids, etc., are filed in the Federal Records Center.

FIELD REPORT PREMARKING HORIZONTAL CONTROL JOB PH-6910, CAPS KENNEDY TO JUPITER INLET, FLORIDA

In accordance with Instructions - FIZLD - Supplement I, Job PH-6910; Coastal Boundary Mapping, Cape Kennedy to Jupiter Inlet, Florida, twenty-two horizontal control stations were recovered and paneled in accordance with practices in use at this time. All stations were premarked for 1:40,000 scale photography.

White polyethylene plastic sheeting was used for all but 2 stations. Skatches on the CSI cards show the pattern used neach instance but most stations were paneled with a 5-ft. square target placed directly over the station mark and 3 runner-type wing panels 3.5/4' X 20' approximating 120° angles around the square.

TRIPOD 3, 1963 and WHITE 2, 1966 were premarked with black plastic, the center panel being 10' X 10' and the wing panels 8' X 20'. The ground surface at these 2 locations was considered too white for the white targets to be seen, hence the use of black material.

In addition to the sketches shown on the CSI cards the station locations have been spotted on USGS Quadrangle maps which are transmitted as part of the job data.

A recap, showing the stations as numbered on the job control diagram, the TP-map number and the quadrangle map on which it falls, follows:

STATICN No.	NAME		MAP NO.	USGS QUADRANGLE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	CENTRAL ARTESIA PCSE MUNSON PATRICK N. BASE TRIPOD 3 COLLEGE 2 TURKEY CREEK VALKARIA SLIP 2 SEBASTIAN 2 SCORPICH 2 RICMAR 2 PIERCE 2 WHITE 2	1950 1953 1966 1940 1960 1963 1934 1966 1934 1961 1960 1963 1966	TP-00136 TP-00138 TP-00139 TP-00140 TP-00142 TP-00143 TP-00144 TP-00146 TP-00150 TP-00153 TP-00154 TP-00155 TP-00156	CAPE CANAVERAL """ CCCCA BEACH """ TROPIC MELBOURNE EAST GRANT SEBASTIAN NW SEBASTIAN VERO BEACH INDRIO FORT PIERCE

STATION NO.	MAME		MAP NO.	USGS QUADRANGLE
16 17 18 19 20 21	WALTON REFUGE 2 RM # 4 SEWALL PINE CISTERN RADAR GOLF RM # 1	1930 1967 1934 1929 1956 1954	TP-00157 TP-00160 TP-00159 TP-00162 TP-00163 TP-00164 South of TP-00164	ANKONA ST. LUCIZ INLET BRUGGEZ HOEE SOUND JUPITER RIVIERA BEACH

Targets were visited after photography and found to be in good condition. No center panels were damaged except GCLF RM 1 and it was only slightly torn on its north edge. Images of all targets should be visible on the photographs.

Submitted 2/24/70

William H. Shearouse Chief, Photo Party 60

Photogrammetric Plot Report Cape Kennedy to Jupiter Inlet, Florida (Part 1) Job PH-6910 April, 1971

21. Area Covered

This report covers the area south from Cape Kennedy to an area about eight miles north of Fort Pierce Inlet. The job consists of twenty one (21) 1:10,000 scale sheets, TP-00133 thru TP-00153.

22. Method

Six (6) strips of photographs were bridged using analytical aerotriangulation methods. Strip 23 proved inadequate for bridging. Strip 23A, therefore, was flown at a later date farther west in order to include more land area to strengthen the photogrammetry. A cross flight, 24, was also flown at this time to include the cape area. Ties were made between strips. Points were located to rectify the photographs for mosaics. In addition, points were located to ratio high and low water photography. The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustment. Closures to control have been shown on the readouts. All bridge points have been plotted on the Coradimat on Florida East Zone plane coordinates.

23. Adequacy of Control

Horizontal control that fell on strips 21A, 22, 25, and 26 was premarked. Strips 23A and 24 were flown at a later date, and all control that fell on these two strips were transferred from the earlier pre-marked photography. It is noted that stations SCORPOIN 2, 1961 and RIOMAR 2, 1960 (terminal for Strip 26) do not appear on the attached sketch, as these stations are on or south of TP-00153. The control was adequate for bridging all strips.

25. Photography

All photography the subject of this report is 1:40,000 scale color as follows:

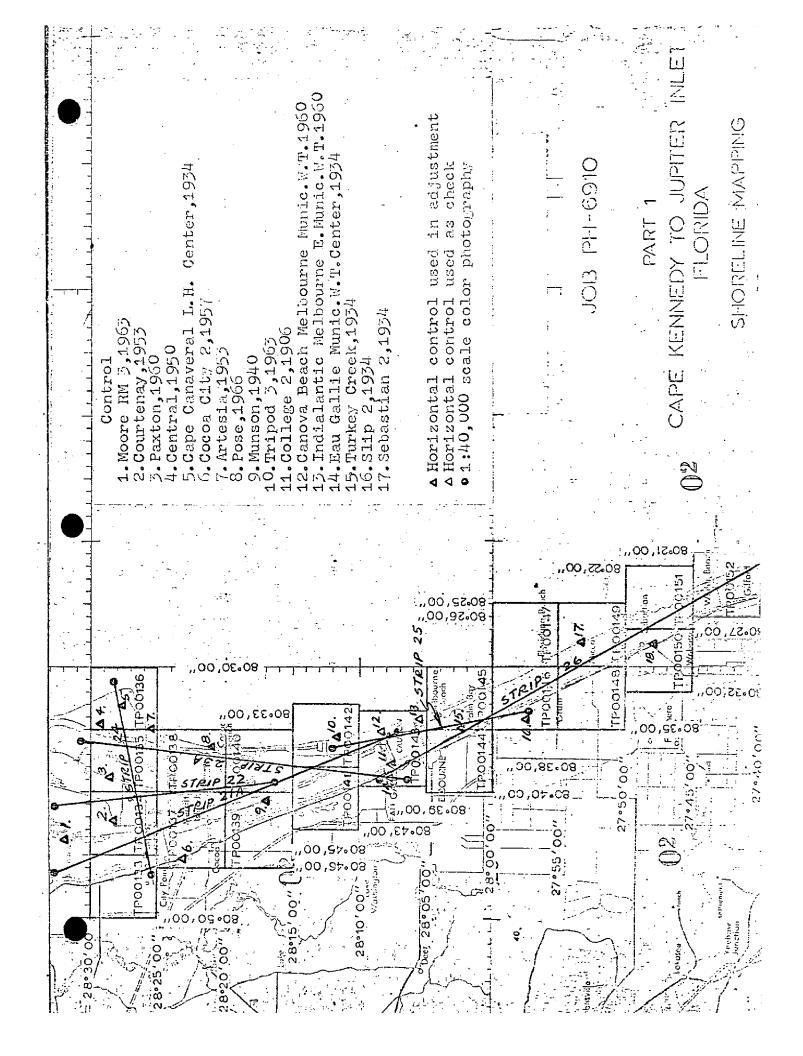
Strip 21A -- 69-E(C)-4247 thru 4261 Strip 22 -- 69-E(C)-4185 thru 4194 Strip 23A -- 70-L(C)-9991A thru 004A Strip 24 -- 70-L(C)-007A thru 015A Strip 25 -- 69-E(C)-5760 thru 5768 Strip 26 --- 70-E(C)-5772 thru 5794

The definition and quality of the photography were good. Respectfully submitted:

honig Lasenta

Approved and forwarded:

Henry P. Eichert, Chief Aerotriangulation Section



FLORIDA – NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP-00145

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
ANT 2, 1934	Book 420, pp. 1, 20, G.P. Fla.Vol. 1, P.C. Fla. E. zone, p. 18.
DOLITE 2, 1966	Write Director, National Geodetic Survey
TURKEY CREEK, 1877	Book 420, pp. 2, 20, G.P. Fla. Vol. 1, p. 153, P.C. Fla. E. zone, p. 18.
WINTER, 1930	Book 420, pp. 1, 21, G.P. Fla. Vol. 1, p. 179, P.C. Fla. E. zone, p. 46.
STEELE, 1934	Book 420, pp. 2, 3, 21, G.P. Fla. Vol. 1, p. 704, P.C. Fla. E. zone, p. 157.
•	
	·

Geodetic	Elevations (feet)	
Bench Mark	SLD 1929	Condensed Description
Z 229	18.028	C&GS disk stamped Z 229 1965; top E end S concrete abutment of bridge, 8 ft. E of E rail.
TURKEY	1.775	C&GS disk not stamped; in rock ledge, about 12 ft. west of edge of ledge.
Y 229	17.100	C&GS disk stamped Y 229 1965; on top E end catch basin, 18 ft. S road center-line, 22 ft. NW of S end pipe culvert.
J 171	22.582	C&GS disk stamped J 171 1958; 34 ft. NE of NE rail, 4 ft. N of wooden witness post, in concrete post projecting 4 inches.
₹ 229	25.991	C&GS disk stamped V 229 1965; 52 ft. NW highway centerline, 50 ft. SW of SW rail, ll ft. E power pole.
x 167	14.117	C&GS disk stamped X 167 1956; 32 ft. E highway centerline, 34 ft. SW of SW corner of house No. 1401.
Y 167	14.022	C&GS disk stamped Y 167 1956, 28 ft. N highway centerline, 7 ft. E power pole.
S TMA	18.356	C&GS disk stamped ANT 2 1934; 34 ft. W highway centerline, 155 ft. N of concrete power pole, 2 ft. N. witness post.
DOLITE 2	16.972	C&GS disk stamped DOLITE 2 1966; 34 ft. W fence, 42 ft. S fence, 74 ft. NE building 00001.
Z 30 ¹	16.788	C&OS disk stamped Z 304 1970; &1 ft. N street centerline, 1.9 ft. SE of SE corner fence.
G 304	16.916	C&GS disk stamped G 304 1970; 32 ft. E highway centerline, 3 ft. S of guy pole.

FLORIDA – NOAA Coastal Boundary Mapping Program

Vertical Control – Geodetic

Map TP- 00145

	Geodetic	Elevations (feet)				
	Bench Mark	SLD 1929	Condensed Description			
	н 304	15.715	C&GS disk stamped H 304 1970; 30 ft. W highway centerline, 2 ft. N of power pole.			
	J 304	18.537	C&GS disk stamped J 304 1970; 31 ft. W highway centerline, 1.5 ft. N of power pole.			
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		-	•			

Compilation Report TP-00145

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 which is a part of this Descriptive Report.

33. Supplemental Data - None.

34. Contours and Drainage

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

35. Shoreline and Alongshore Detail

The mean high-water line was mapped along the shore of the Atlantic Ocean and also, along the shores of the Indian River. The shoreline in the small portion of Turkey Creek on this map was mapped with the mean water-level line (refer to the Record of Decisions bound with this report).

Due to heavy surf condition (Atlantic shore) on the tide coordinated black and white infrared photography, the mean low-water line was not compiled. Foreshore profiles are requesteds to verify the interpretation of the mean low-water line on the photography.

The photography was adequate for compilation.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aidstto Navigation

The images of charted objects visible on the photography were compiled during compilation. Charted objects which were not visible on the photography were called to the attention of the field editor.

38. Control for Future Surveys

None.

39. Junctions

Refer to Form 76-36B (Data Record).

40. Horizontal Accuracy

This map complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outlined by the project instructions for Job PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGSiQuadrangle&Melbourne East, Fla., scale 1:24,000 dated 1949, contour interval 5 feet.

No.significant changes were noted.

47. Gomparison with Nautical Charts

Comparison was made with Nautical Chart 845-SC, scale 1:40,000, 9th edition, July 25, 1970, corrected to August 29, 1970.

No significant changes were noted.

Items to be Applied to Nautical Charts Immediately - None.

Items to be Carried Forward - None.

Respectfully submitted.

John C. Richter Carto(Photo)

Approved and forwarded:

Jeter H. Battley Jr.
J.P. Battley, Jr.

Chief, Coastal Mapping Section

Field Edit Report, Map TP-00145, Job PH-6910

51. METHODS

Shoreline of the Atlantic Ocean was verified visually while driving, or walking where necessary, along the beach at proper stages of tide. The Indian River shoreline was verified visually from a small boat while cruising just offshore. The apparent, or lightweight, shoreline should be drafted where marsh or mangrove has been classified on the field photographs in the river area. No discrepancies or inadequacies were found.

One landmark is recommended and Form 567 is submitted.

Sextant fixes were taken at each daybeacon. They were plotted on FIELD EDIT SHEET NO. 2 (which covers Maps TP-00144 and TP-00145) and Form 567 prepared.

The Coast Guard has in recent years replaced the wooden daybeacon piles with concrete piles in the Intracoastal Waterway in this general area and the new positions are somewhat different from those presently charted. Positions were lined out on the Form 567 furnished by Rockville and a new form prepared indicating the necessity for a revised position.

Geodetic bench marks were searched for and identified on the ratio photographs. Forms 685A is submitted.

All triangulation stations were searched for and reported on Form 526.

Field edit notes will be found on the ratio photographs, the Discrepancy Print and the FIELD EDIT SHEET.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

A complete names investigation was not made but no conflicts came to light during the course of the work. No new names were found.

Submitted 5/19/71

William H. Shearouse
William H. Shearouse

Chief, Photo Party 60

TP-00145

Remarks: Application of Field Edit

Foreshore profiles determined by field edit verified the tidal datum lines along the Atlantic Ocean on the tide coordinated black and white infrared photography.

Review Report TP-00145 Coastal Zone Map June 1974

61. General

This map was reviewed in the Coastal Mapping Section prior to its proof stage.

The proof copy of this map was examined by the Quality Control Group. During this examination any corrections to the compilation were noted and returned to the Coastal Mapping Section for application to the map.

The following major parts in the preparation of this map have been examined by the Quality Control Group and are adequate:

- 1. Field operations
- 2. Extension of control
- 3. Compilation
- 4. Descriptive Report

The shoreline on this map was symbolized in accordance with ongoing decisions set forth by officials of the National Ocean Survey. These decisions, however, were formalized and documented at the later date reflected in the Record of Decisions.

62. Registration Copy

A special Registration Copy of this map was prepared for Marine Chart use and checked by the Coastal Mapping Section. This Registration Copy shows additional offshore information (such as "shallow" and shoal! areas) not shown on the published map.

63. thru 64. Inapplicable.

65. Cartographic Comparison

A comparison was made with USGS quadrangle Melbourne East Florida, 1949, photorevised 1970, scale 1:24,000.

No significant changes were noted.

A comparison was made with Nautical Chart 845-SC, 12th edition, dated September 8, 1973, scale 1:40,000.

The following differences were noted:

- 1. A "pier ruins" and outline of piling is shown on the Nautical Chart 845-SC (Latitude 28°0.2' and the west shore of the Indian River). The published map shows two piling and is labeled "numerous stakes".
- 2. Privately maintained daybeacons at Cape Malabar on west shore of the Indian River are shown on Nautical Chart 845-SC. These daybeacons are not shown on the published map, nor are they listed in the 1974 C.G. Light List. These objects are not visible on the photography.
- 3. A "spire" is shown on Nautical Chart 845-SC (latitude 28°03.5' and longitude 80°35" south west of Crab Point). This "spire" is not shown on the published map and it was not reported by the field edit of 1971. This spire is visible on the 1970 photography.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00145 complies with project instructions for NOS Cooperative Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by

Donald M. Brant

Approved;

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

GEOGRAPHIC NAMES

FINAL NAMES SHEET

PH-6910 N (Florida)

TP-00145

Atlantic Ocean

Bluefish Point

Cape Malabar

Castaway Point

Coconut Point

Crab Point

Fisherman Point

Florida East Coast RR

Indian River

Long Sandy Point

Malabar

Melbourne Beach

Palm Bay (city)

Approved by:

C.E. Harrington Staff Geographer

Palm Bay

Turkey Creek

Whitehouse Cove

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3. Forms originated by Quality Control and COPY ch Review Group and final review activities D.		2. Positions determined and/or verified		1. Objects inspected from seaward	TYPE OF ACTION		
Copy checked after typing D. Brant	J.C. Richter		W.H. Shearouse	W.H. Shearouse	NAME	RESPONSIBLE PERSONNEL	
REVIEWER A QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	COMPILER	FIELD EDITOR	FIELD INSPECTOR	PIELD INSPECTOR	TITLE		

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION'

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

LIGH CTRL	FIELD INSPECTION		COMPILATION	COLUMN TULE
F'- Field P - Photogrammetric EXAMPLES	1. New Position Determined—Enter the applicable data by symbols as indicated below:	identify the object.	Applicable to office identified and located objects only. Enter the number and date of the photograph used to	TYPE OF ENTRIES

c. Sextant
 Immediately beneath the data described above, enter the following:

Triangulation
 Traverse
 Intersection

1. Field identified

F. 3.c

P.2

Resection

2. Theodolite3. Planetable4. Sextant

a. Theodoliteb. Planetable

- a. For 'Field Positions' enter the date of location.
- 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.
- 2. Triangulation Station Recovered Enter 'Triang, Rec. mo/day/yr,'
- 3. Position Verified Euler 'Verifi, mo Wyr.'

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	RESPONSIBLE PERSONNEL	THE RESERVE OF THE PROPERTY OF
TYPE OF ACTION	NAME	TITLE
1. Objects inspacted from seaward	W.H. Shearouse	FIELD INSPECTOR FIELD EDITOR
		FIELD INSPECTOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD EDITOR
	J.C. Richter	СОМРІСЕЯ
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	THE VIEWER (X) QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

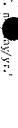
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2. Triangulation Station Recovered - Enter 'Triang, Rec. mo/day/yr.'

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

3. Position Venified - Enter 'Verif. n. 'ay/yr.'



* U.S. GOVERNMENT PRINTING OFFICE: 1971-760571/445 REG.H

TP-00145 Data Forwarded to Federal Records Center

Field edit sheet dated May 1971

Field edit sheet #2 showing plotted positions of nonfloating aids for TP+00144 and TP-00145

- 1 Discrepancy Print
- 1 Form 76-36C (History of Field Operations)
 - 4 Forms 76-40 (Nonfloating Aids or Landmarks for Charts)
 - 1 Sketchbook Vol. 1 (TP-00144 and TP-00145) is filed with TP-00145 Photography:

1:10,000 scale 70E5788 thru 5791

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