TP-00143

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-6910 Map No. TP-00143
Classification No. Final Edition No1
Field Edited Map
LOCALITY
StateFlorida
General Locality . Brevard County
LocalitySatellite.Beach.to
Melbourne
19 69 TO 1971
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-598

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	survey TP- <u>00143</u>
	X ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	☐ RESURVEY	MAP CLASS Final
	REVISED	лов рн. 6910
PHOTOGRAMMETRIC OFFICE		ING MAP EDITION
Rockville, Maryland	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS
	RESURVEY	SURVEY DATES:
Commander Westey V. Hull	REVISED	19TO 19
IL INSTRUCTIONS DATED		
t. OFFICE General-Instructions-OFFICE-NOS	Aerial Photogr	FIELD 9/2/60
Cooperative Coastal Boundary Mapping,	Supplement I, 1	
Job PH-7000, June 19, 1973	Supplement II,	
OFFICE-Supplement I, August 19, 1973	Supplement III,	8/10/72
NOTE: Office and Field Edit Instruction	s Field Edit (P	H-7000 - General
(1973) incorporate applicable prior		r Florida Coastal
operational instructions.	Zone Mapping) 1	
OFFICE-Supplement II. September 24.197		J (3
II. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Secretary No.	
X MEAN HIGH-WATER	OTHER (Specify) Mean W	
2. VERTICAL: MEAN LOW-WATER	(Refer to Recor	
MEAN SEA LEVEL	bound with this	report).
3. MAP PROJECTION	4.	GRID(S)
Transverse Mercator	STATE	ZONE
	Florida	East
5. SCALE	STATE	ZONE
1:10,000	<u></u>	
OPERATIONS	NAME	DATE
	I.I. Saperstein	
METHOD: Analytic LANDMARKS AND AIDS BY		
<u></u>	P. Dempsey	5/71
METHOD: Coradomata CHECKED BY	Inapplicable	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	J.C. Richter	7/71
COMPILATION CHECKED BY	J.P. Battley	7/71
INSTRUMENT: B-8 CONTOURS BY	Inapplicable	
scale: 1:10,000 CHECKED BY	 	
	J.C. Richter	7/71
Shoreline: Graphic CHECKED BY	J.P. Battley	7/71
METHOD:	<u>Inapplicable</u>	
Interior:Orthophoto mosaic CHECKED BY HTTPS:OFFERST BY	J maylon	7/71
■ 「C 产 A 1 行 。	J.P. Battley	7/71
	J.P. Battley	8/71
BY	J.C. Richter	12/71
	J.P. Battley	12/71
7. COMPILATION SECTION REVIEW BY	P. Dempsey	2/72
8. FINAL REVIEW BY	J.P. Battley	3/72
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	<u></u> _	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	D. M. Brant	5/74
[]], MAP REGISTERED - COASTAL SURVEY SECTION BY	K.J. Coates	8-12-74

NOAA FORM 76-36B

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

TP-00143	ΤP	-0	0	14	3
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COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY									
CAMERA(S) Wild RC-8 E&L cameras 6" foc	al length	TYPES OF PI	HOTOGRAPHY END	TIME REFERENCE					
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAF		(C) COLOR (P) PANCHRON (I) INFRARED	T) Ø LT	zone Eastern MERIDIAN 75th&60th	X STANDARD				
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF T	IDE				
70L(C)003A 70E(C)5792 & 5793 70E(C)5762 & 5763 69L3378R - 3380R 70L6862R-6864R 70L6880R & 6881R 70L6410R 70L6551R	11/5/70 2/10/70 2/19/70 8/23/69 8/14/70 8/14/70 8/12/70	13:03 13:48 13:10 10:20 17:17 17:30 11:20 9:46	1:40,000 1:40,000 1:40,000 1:30,000 1:25,000 1:25,000 1:25,000	The stage of inapplicable color photog: (1)-0.3MHW (5)+0.06MHW (4) (1)-0.26MLW (5)+0.12MLW (6)	for the raphy.)-0.10MW;				
69L3434R & 3435R	8/23/69	11:27	1:30,000	(2)+0.14MLW(3					

See page 3 for tide stations

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high-water line is the tide coordinated black and white infrared photography listed in item 1. The mean water-level line was mapped in lieu of the mean high-water line along the shores of the Indian and Banana Rivers north of Eau Gallie Causeway (refer to Record of Decisions). The source of the mean water-level line is the tide coordinated black and white infrared photography.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The source of the mean low-water (Atlantic shore) is the tide coordinated black and white infrared photography listed in item 1. This photography was supplemented by foreshore profiles determined by field edit.

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 mp OOTH	EAST		SOUTH TIP_OOT	IIII WEST	No contom

TP-00145

TP-00142

REMARKS

Final junctions were made in the Coastal Mapping Section.

Atlantic Ocean

Tide Stations

- (1) Sebastian, Indian River
- (2) Port Canaveral
- (3) Titusville, Indian River
- (4) Eau Gallie, Indian River
- (5) Canova Beach
- (6) Orsino Causeway

TP-00143	ECTION OPER	ATION *See below X FIEL	OPERATIONS		1971
		RATION	T CON OFERAL	NAME	DATE
				1474112	
I. CHIEF OF FIEL	D PARTY	·		hearouse	10/71
•		RECOVERED BY		hearouse	4/71
2. HORIZONTAL C	ONTROL	ESTABLISHED BY	N.A.	h.o	9/71
		PRE-MARKED OR IDENTIFIED BY		hearouse	8/71 4/71
NEBTICAL CON	TRAI	RECOVERED BY	W.H. S:	hearouse	4/17
. VERTICAL CON	ITROL	ESTABLISHED BY		hearouse	4/71
· <u></u>				hearouse	10/71
. LANDMARKS AI		COVERED (Triangulation Stations) BY LOCATED (Field Methods) BY	None	near odse	10/12
AIDS TO NAVIG		IDENTIFIED BY		hearouse	10/71
		TYPE OF INVESTIGATION	, , , , , , , , , , , , , , , , , , ,		
5. GEOGRAPHIC N	IAMES	COMPLETE			
INVESTIGATION	1	SPECIFIC NAMES ONLY	W.H. S	hearouse	10/71
		NO INVESTIGATION			
. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY		hearouse	10/71
. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		
I. SOURCE DATA I. HORIZONTAL C	ONTROL IDEA	TIFIED	2 VERTICAL	CONTROL IDENTIFIED	
	ON I NOL IDEN	TIFLED	2. VERTICAL	CONTROL IDENTITIES	
None			ļ. <u></u>		<u></u>
PHOTO NUMBER	* > 0	STATION NAME	701.6686	VOIS	DESIGNATION
	Repor	to Field Inspection t	70L6686 70L6687 70L6688 70L6690 70L7261	TIDAL 1 10.54(SRD)	216,R230,T23 ,ABC(SRD), L230,M230(SR
			7817783 7017710	U32 R229 A230,C230 V32	
3. рното нимве 70E5763§7	·	•	70L7711	EAU GALLIE TIDAL 1	TANK RM1,
		VIGATION IDENTIFIED	***************************************		
Refer to	Field Ed	it Report			
PHOTO NUMBER		OBJECT NAME	РНОТО МИМВІ		CT NAME
70E5793	TANK		70E5792 70E5793		, CHANNEL 9 CHANNEL 11
5. GEOGRAPHIC N	IAMES:	REPORT X NONE	6. BOUNDARY	AND LIMITS.	PORT NONE
7. SUPPLEMENTA	L MAPS AND F e and So	uth Brevard Street M	ſap		PORT 23 NONE
		ch books, etc. DO NOT list data submit			

(3-72)	RM 76-36D			N	ATIONAL OC	U. S. DEPARTMENT OF COMMERCI Ceanic and atmospheric administration
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TP-0	CRIPT COPIES					
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	DATA COMPILED	T	DATE	1	MARKS	MARINE CHARTS HYDRO SUPPOR
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	to final review		TOI NA	101001 011	ar o unc	
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		-				
II. LANDM	ARKS AND AIDS TO NAVIGA	TION				
I. REP	ORTS TO MARINE CHART D	IVISIO	N, NAUTICAL	DATA BRANCH		
NUMBER	CHART LETTER NUMBER ASSIGNED	F	DATE DRWARDED			REMARKS
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2. 🕞	REPORT TO MARINE CHAR	T DIVI	SION, COAST	PILOT BRANCH.	DATE FOR	WARDED: 6/28/74
3.	REPORT TO AERONAUTICA	L CH	ART DIVISION	, AERONAUTICAL	DATA SEC	TION. DATÉ FORWARDED:
III. FEDE	RAL RECORDS CENTER DAT	TA				
1. F	BRIDGING PHOTOGRAPHS;	-	PDUPLICATE	BRIDGING REPO	RT: [4]C	COMPUTER READOUTS.
· · · · · · · · · · · · · · · · · · ·	CONTROL STATION IDENT	_	•			
ء. 3	SOURCE DATA (except for C		phic Names Re	port) AS LISTED	IN SECTION	II, NOAA FORM 76-36C.
	ACCOUNT FOR EXCEPTION	NS:				
4.	DATA TO FEDERAL RECO	RDS C	ENTER, DAT	E FORWARDED:		
IV. SURV	EY EDITIONS (This section s	shall b	e completed ea	ach time a new maj	o edition is re	registeredi
	SURVEY NUMBER		ЈОВ ИИМВЕ	R	[TYPE OF SURVEY
SECOND	TP -		PH			REVISED RESURVEY
EDITION	DATE OF PHOTOGRAP	нү	DATE OF FI	ELD EDIT		MAP CLASS
	SURVEY NUMBER		JOB NUMBE	R		TYPE OF SURVEY
THIRD	TP	_ (3)	PH			☐ REVISED ☐ RESURVEY
EDITION	DATE OF PHOTOGRAP	нү	DATE OF FI	ELD EDIT		MAP CLASS
	SURVEY NUMBER		JOB NUMBE		<u> </u>	TYPE OF SURVEY
COURTY	TP -	_ (A)	PH -			REVISED RESURVEY
FOURTH EDITION	DATE OF PHOTOGRAPI		DATE OF FI			MAP CLASS
111011			[□11.	□III. □IV. □V. □FINAL

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 (shown on this map), and Port Canaveral Tide Station (north of this map). The interior water areas shown on this map are Indian River, Banana River, Eau Gallie River and Elbow Creek.

Special treatment was given to the portrayal of the shoreline of the inland waters. The mean high-water line was delineated where the periodic tide was measurable (mean range of 0.2 ft. or greater). Where the periodic tide was masked by nontidal effects and the range was less than 0.2 ft., the mean high/low-water datums converge and become indistinguishable; for those water areas, the mean water-level line was mapped in lieu of the mean high-water line and shown by a distinctive symbol.

On this map, Eau Gallie Causeway was determined as the point of change between delineation of mean high-water and mean water-level lines. The mean water-level line shall be mapped north of the causeway and the mean high-water line south of the causeway. The point of change was based on tidal datum determinations at Palm Bay, Melbourne, Eau Gallie, and Pineda Tide Stations. The datums in Indian River and Banana River, north of the Eau Gallie Causeway, were established by observations at the Eau Gallie Tide Station (shown on this map) and Carters Cut Tide Station (not shown) respectively. South of the causeway, datums for Indian River, Eau Gallie River, and Elbow Creek were determined from observations at the Melbourne Tide Station (also shown on this map). Since the mean range at Melbourne Tide Station was approximately 0.2 foot, the standard mean high-water line symbolization was used for delineating the Indian River, Eau Gallie River, and Elbow Creek mean high-water lines, except for areas where vegetation, such as mangrove, obscures the shoreline, and then the apparent shoreline symbol was used. The mean low-water line was not mapped for interior water areas, 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.

* Decision Responsibility for Shoreline Symbolization

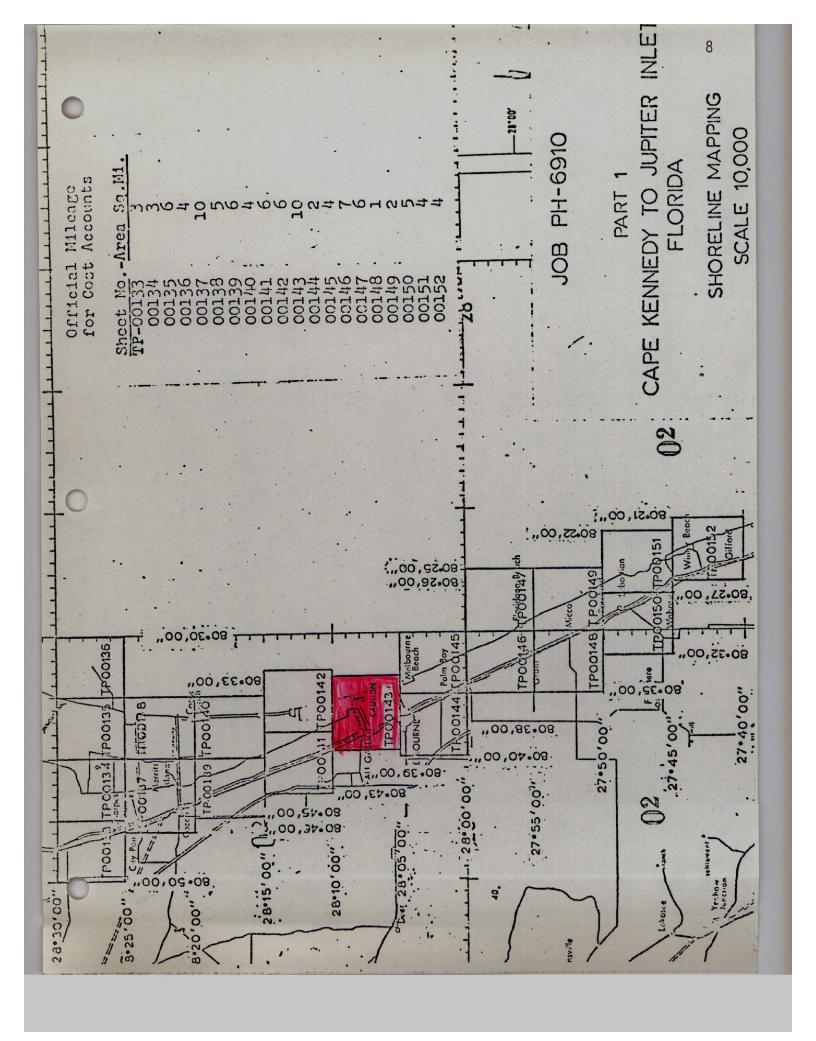
Specific decisions as to where the mean high-water line symbol and the mean water-level symbol would be used for mapping the shoreline and extensions of the symbolizations up creeks and drainages which empty into the Banana and Indian Rivers were made October 20,

* See Review Report for clarification of date.

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. Hugh J. Dolan, Staff Attorney, Office of General Counsel. They based their decisions on an examination and evaluation of tide station records, aerial photographs, and field edit records and reports.

Archiving

A copy of this report shall be included in Descriptive Report TP-00143 which will be permanently filed in the NOS Archives.



SUMMARY TP-00133 thru TP-00152

Coastal Zone Map TP-001 43 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 FREMARKING HORIZONTAL CONTROL JOB PH-6910, CAPS KENNEDY TO JUPITER INLET, FLORIDA

In accordance with Instructions - FIELD - 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 skeeting was used for all but 2 stations. Sketches on the CSI cards show the pattern used in each 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 trans-> mitted 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:

STATION				
No.	NAME		MAP NO.	USGS QUADRANGES
1	CENTRAL	1950	TP-00136	CAPE CANAVERAL
2	ARTESIA	1953	計	מ מ
<u>3</u>	POSE	1966	TP-00138	CCCCA BEACH
4	MUNSON	1940	TP-00139	Ħ
5 -	PATRICK N. BASE	1960	TP-00140	# #
6	TRIPOD 3	1963	TP-00142	TROPIC
7 ·	COLLEGE 2	1934	TP-00143	5
8	TURKEY CREEK	1934	TP-00144	MELECURNE EAST
9	VALKARIA	1966	TP-00146	GRANT
10	SLIP 2	1934	TP-00149	Sebastian na
11	SEBASTIAN 2	1934	TP-00150	KLITZLEES
12	SCCRPION 2	1961	TP-00153	VERO BEACH
13	RICMR 2	1960	TP-00154	IMDRIO
-	PIRCE 2	1963	TP-C0155	FORT PIERCE
14 15	WHITE 2	19∞	TP-00156	n b

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

Targets were visited after photography and found to be in good condition. No center panels were damaged except GCLF RM I 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 Chiaf, 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

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Strip 23A -- 70-L(C)-9991A thru 004A

Strip 24 -- 70-L(C)-007A thru 015A

Strip 25 -- 70-E(C)-5760 thru 5768

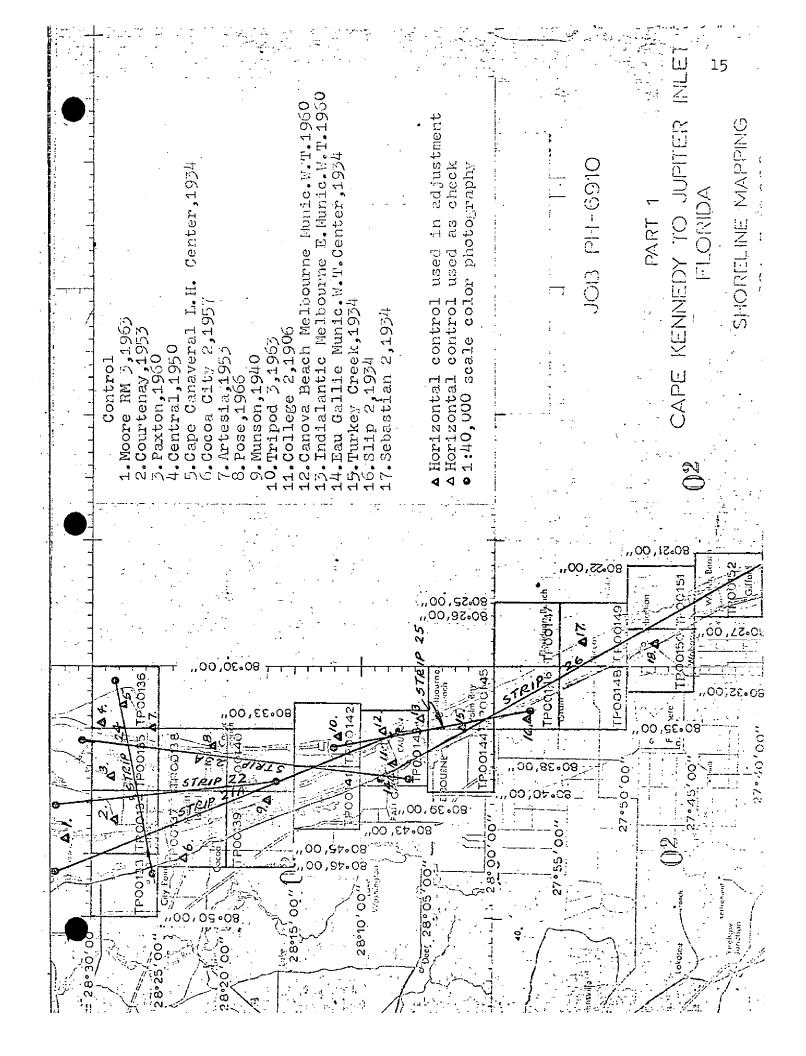
Strip 26 --- 70-E(C)-5772 thru 5794
```

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

home & Lasentan I. I./Saperstein

Approved and forwarded:

Henry P. Eichert, Chief Aerotriangulation Section



Horizontal Control

Map TP-00143

	NOS Geodetic Data Reference for
Station	Description, Positions, Coordinates
	and Azimuths
JESSUP, 1940	Book 419, P19, 52 G.PFla. Vol. 1, P. 547, P. C. Fla. E Zone, P. 141
EAU GALLIE, MUNICI- PAL W.T., 1930	Book 419, P20, 52 G.PFla. Vol 1, P. 191, P. C. Fla. E Zone, P.50
COLLEGE 2, 1906	Book 419, P24, 36, 51 G.PFla. Vol. 1, P. 153, P.C. Fla. E Zone, P. 18
AIRWAY BEACON 16, 1934	Book 419, P36 G.PFla. Vol. 1, P. 179, P.C. Fla. E Zone, P. 45
MELBOURNE TANK, 1934	Book 419, P25 G.PFla. Vol. 1, P. 152, P. C. Fla. E Zone, P. 18
INDIALANTIC TANK, 1934	Book 419, P23 G.PFla. Vol. 1, P. 152, P. C. Fla. E Zone, P. 18
INDIALANTIC, MELBOURNE EAST MUNICIPAL WATER TANK	Quad 280803, Vol. 2, P74
CANOVA BEACH, MELBOURNE MUNICI- PAL WATER TANK	Quad 280803, Vol. 2, P74
PATRICK S BASE, AZIMUTH MARK, 1953	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.
	{

Compilation Report TP-00143

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 corthophoto mosaic.

35. Shoreline and Alongshore Detail

The mean high-water line was mapped along the Atlantic shore. Also, the mean high-water line was mapped along the shores of the Indian and Eau Gallie Rivers south from the Eau Gallie Causeway. The mean water-level line was mapped along the shores of the Banana and Indian Rivers north of Eau Gallie Causeway (refer to the Record of Decisions). Due to heavy surf conditions on the tide coordinated photography, the mean low-water line was not compiled. Foreshore profiles are requested to verify the interpretation of the mean low-water line on the photographs.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids to 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

Tidal bench marks established by the tide observation party.

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 USGS Quadrangles Melbourne East, Melbourne West, Eau Gallie, Fla., edition of 1949, and Tropic, Fla., edition of 1951, scale 1:24,000, contour interval 5 feet.

No significant differences were noted.

47. Comparison with Nautical Charts

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

No significant differences were noted.

Items to be Applied to Nautical Charts Immediately - None.

Items to be Carried Forward - None.

Respectfully submitted,

John C. Richtez John C. Richter Carto(Photo)

Approved and forwarded:

Jeter P. Battley Jr.

J.P. Battley

Chief, Coastal Mapping Section

Field Edit Report, Map TP-00143, Job PH-6910

51. METHODS

Shoreline of the Atlantic Ocean was verified visually while driving, or walking where necessary, along the beach at the proper stages of tide. The Banana River and Indian River shoreline was verified visually from a small boat while cruising just offshore. No major inadequacies were found. Notes regarding apparent and "fast" shoreline, piers and other shoreline structures were made on the rectified photographs.

Five landmarks are recommended. Form 76-40 is submitted. Also submitted is Form 76-40 for the deletion of one landmark which appears on the 1970 edition of Chart 845-SC.

Forms 76-40 for the nonfloating aids arensubmitted covering these aids shown on Chart 845-SC and a new group of private aids not presently charted. These private aids appeared in a recent issue of the Notice to Mariners as being Coast Guard approved.

All known triangulation stations were searched for. Forms 526 were submitted to Rockville in April 1971.

Bench marks were searched for and reported on Form 685A. Those recovered were identified on contact photographs.

Highway numbers were obtained from signs, from General Highway maps and from the local State Department of Transportation office.

Names of the principal streets were obtained from signs and a city map.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were required.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

A complete names investigation was not required. Conflicts among names as they appear on the Preliminary Name Sheets are resolved as follows:

ELBOW CREEK EAU GALLIE RIVER

This is a matter of placement as there is an Eau Gallie River and an Elbow Creek. The names are correctly placed on the Field Edit Sheet and the Preliminary Name Sheet has been corrected. This information comes from the names on the bridges over the respective bodies of water, the Melbourne City Engineering Department and other local sources.

EAU GALLIE MELBOURNE

The name Eau Gallie no longer officially exists. By referendum approximately two years ago the people voted to consolidate the two cities and name the new area MELBOURNE. A map showing the city limits, etc is submitted. The City Engineers office says this map is correct.

MELBOURNE-EAU GALLIE AIRPORT JOHN F. KENNEDY MEMORIAL AIRPORT CAPE KENNEDY REGIONAL AIRPORT

The correct name as furnished by the Airport Manager's office is CAPE KENNEDY REGIONAL AIRPORT. Numerous signs in the Melbourne Area substantiate this.

The name EAU GALLIE BEACH should be removed from the Preliminary Name Sheet and Chart 845-SC and 1246. This name has not been applicable

for many years and must have been very narrowly known if ever correct.

The following new names correctly shown on the Advance Map Manuscript, but not on the Preliminary Name Sheet are recommended.

SATELLITE BEACH (an incorporated city)
INDIAN HARBOR BEACH (an incorporated city)
CANOVA BEACH (an unincorporated community)

They are well known in local usage and are shown on various maps without dispute.

The name PARADISE BEACH PARK is recommended. It is a recently constructed recreation facility and the name is without conflict.

Submitted 10/6/71

William H. Shearouse

William H. Shearouse Chief, Photo Party 60 Remarks: TP-00143

Foreshore profiles verified the tidal datum lines on the photography.

Review Report TP-00143 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. <u>Cartographic Comparison</u>

A comparison was made with map TP-00143 and the following USGS quadrangles:

Eau Gallie, Florida, 1949, photorevised 1970, scale 1:24,000 Tropic, Florida, 1949, photorevised 1970, scale 1:24,000 Melbourne, West, Florida, 1949, photorevised 1970, scale 1:24,000

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. Wreck on chart latitude 28°08.7' longitude 80°36.4'. Not on map TP-00143.
- 2. Pier in ruins on chart latitude 28°06.5' longitude 80°37'. Pier on map TP-00143.
- 3. Pier in ruins on chart latitude 28°05.4' longitude 80°36.5'. No pier on map TP-00143.
- 4. Stakes shown on chart east shore Indian River south of Melbourne Causeway. No stakes are shown on map TP-00143.

No mention of these differences was made by the field edit of 1971.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00142 complies with project instructions for NOSACooperative Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

enpurred by

Donald M. Brant

proved:

chief, Photogrammetric Branch

Chief, Coastal Mapping Division

GEOGRAPHIC NAMES FINAL NAMES SHEET

(PH-6910 N (Florida)

TP-00143

Atlantic Ocean

Banana River

Canova Beach

Carters Cut

Eau Gallie Bridge

Eau Gallie River

Elbow Creek

Florida East Coast RR

Horse Creek

Indialantic

Indian Harbour Beach

Indian River

Mathers Bridge

Melbourne

Melbourne Causeway

Approved by

C.E. Harrington Staff Geographer

Melbourne Regional Airport

Merritt Island

Satellite Beach

Tropic

Wells Point

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INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods

COLUMN TITLE 'Field Positions' are determined by field observations based entirely upon ground control. TYPE OF ENTRIES

1. New Position Determined-Enter the applicable data by symbols as indicated below:

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Applicable to office identified and located objects only. Enter the number and date of the photograph used to

FIELD EDIT

FIELD INSPECTION

COMPILATION

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Immediately beneath the data described above, enter the following:

- 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 Enter 'Verif, mo/day//r.'

NOAA FORM 78-40 (2-7

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1. Objects inspected from seaward	W.H. Shearouse	T FIELD EDITOR
		FIELD INSPECTOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD EDITOR
	J. C. Richter	COMPILER
3. Forms originated by Quality Cantrol and Review Group and final review activities	Checked after typing D. Brant	

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.

COMPILATION	Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.
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FIELD EDIT	F - Field P - Photogrammetric EXAMPLES:
	1. Triangulation 1. Field identified
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•	b. Planetable
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	Immediately beneath the data described above, enter the following:
	a. For 'Field Positions' enter the date of location.
	b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph

NOAA FORM 76-40

2. Triangulation Station Recovered - Enter 'l'riang. Rec. mo/day/yr.'

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

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	RESPUNSIBLE PERSONNEL	
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	W.H. Shearouse	FIELD INSPECTOR
		FIELD (NSPECTOR
2. Positions determined and/or verified	W. H. Shearouse	FIELD EDITOR
	J. C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Checked after typing D. Brant	A EVIEWER A QUALITY CONTROL AND REVIEW 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.

COLUMN TITLE		TYPE OF ENTRIES	
COMPILATION	Applicable to office identified an identify the object.	Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.	per and date of the photograph
FIELD INSPECTION	1. New Position Determined-Enter the	1. New Position Determined—Enter the applicable data by symbols as indicated below:	ow:
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	3. Intersection	3. Planetable	
	4. Resection	4. Sextant	P.2
	a. Theodolite		
	b. Planetable	•	
	c. Sextant		

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

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

Immediately beneath the data described above, enter the following:

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.

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

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	RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME	3 ግ, ይፈ
1. Objects inspected from seaward	W.H. Shearouse	T FIELD INSPECTOR
		FIELD INSPECTOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD EDITOR
		COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Checked after typing D. Brant	REVIEWER X QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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Applicable to office identified and located objects only. Enter the number and date of the photograph used to TYPE OF ENTRIES 'Field Positions' are determined by field observations based entirely upon ground control. identify the object. COLUMN TITLE COMPILATION

1. New Position Determined-Enter the applicable data by symbols as indicated below:

FIELD INSPECTION

FIELD EDIT

EXAMPLES:		F. 3.c		P.2	
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Immediately beneath the data described above, enter the following:

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- a. For 'Field Positions' enter the date of location.
- was used in locating the object or the object was identified on a photograph, enter the number of the photograph used. b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph
- 2. Triangulation Station Recovered Enter 'Triang, Rec. mo/day/yr.
- 3. Position Verified Enter 'Verif. mo/dav/vr.'

TP-00143 Data Forwarded to Federal Records Center

- 1 Field Edit Sheet
- 1 Form 76-36C (History of Field Operations)
- 7 Forms 76-40 (Non-floating Aids or Landmarks for Charts)

Photography:

1:10,000 scale 70E5763, 5792, and 5793

Contact scale 70L6686 thru 6690 70L7261 and 7262 70L7709 thru 7711

Sketchbook Vol. 10.