### TP-00106

### NOAA FORM 76-35

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

### DESCRIPTIVE REPORT

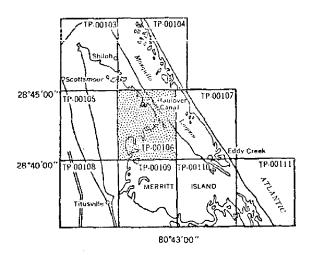
Type of Survey Coastal.B	oundary
Job No. P.H6716	Map No. TP20106
Classification No.	Edition No1
Field Edited Map	
LOCALITY	r
StateFlorida	ountyoCreek
1967 TO	19 70
REGISTRY IN AR MAY 1619	

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

### SUPPLEMENTAL CONTROL DATA FOR COASTAL ZONE MAP

### TP-00106

### INDEX TO ADJOINING SHEETS



Florida

Brevard County

Cowpen Creek to Haulover Canal

### FLORIDA I

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

### TIDAL BENCH MARKS

Allenhurst, Mosquito Lagoon Lat. 28° 44'.2; Long. 80° 45'.0

BENCH MARK W215 (1966) is a standard disk, stamped "W215 (1966)", set in the top of a concrete post flush with the ground, 24 feet north of the centerline of Wilson Street where it dead ends at a house on the shore of Mosquito Lagoon, 90 feet northwest of the northwest corner of the house, 3.5 feet southwest of a power pole and transformer, and two feet west of the witness post. Elevation: 3.73 feet above mean water level.

BENCH MARK NO. 1 (1970) is a standard disk, stamped "No. 1 1970", set flush in a drill hole in the northeast corner of a concrete boat ramp, 72.3 feet east of BENCH MARK NO. 2, 36.3 feet southeast of the southeast corner of a house, and 1.2 feet west of the east edge of the boat ramp. Elevation: 3.86 feet above mean water level.

BENCH MARK NO. 2 (1970) is a standard disk, stamped "No. 2 1970", set flush in a drill hole in the northeast corner of a concrete patio, 72.3 feet west of BENCH MARK NO. 1, 17 feet southeast of the northeast edge of a nearby house, and 1.4 feet southwest of the northwest corner of the patio. Elevation: 4.53 above mean water level.

BENCH MARK NO. 3 (1970) is a standard disk, stamped "No. 3 1970", set flush in a concrete post, 58 feet east of BENCH MARK W215, 25 feet south of a power pole, 24 feet southwest of a cabbage palm tree, and 37 feet northwest of the northwest corner of a nearby house. Elevation: 4.22 feet above mean water level.

BENCH MARK NO. 4 (1970) is a standard disk, stamped "No. 4 1970", set flush in a concrete post, about 100 feet northeast of a road junction, 24 feet north of the centerline

(OVER)

of the road, 14 feet east of a power line pole, and two feet west of a witness post. Elevation: 3.35 feet above mean water level.

Mean water level at Allenhurst, Mosquito Lagoon is based on 17 months of record, April 1966 - August 1970, reduced to mean values. The periodic tide is small and is masked by nontidal effects.

### FLORIDA I

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

### TIDAL BENCH MARKS

Allenhurst, Haulover Canal Lat. 28°44'.0; Long. 80°45'.4

BENCH MARK IWBV USE 106 (1966) is a standard disk, stamped "IWBV 106," set in the top of a cement post, flush with the ground, along the south bank of the Haulover Canal about 190 feet southwest of the south end of the new drawbridge over the canal, 45.5 feet west of the centerline of State Highway AIA, 58.5 feet west of and across the highway from a large power pole supporting a power line, and 21.5 feet north of the centerline of a sand road leading southwest. Elevation: 7.72 feet above mean water level.

BENCH MARK 318 USE (1962) is a standard USE disk, stamped "318 JLR 1962," set in the top of a concrete post projecting ten inches above the level of the ground. The mark is 28.5 feet west of the centerline of the highway, 57.5 feet southeast of a cabbage palm, midway between two white witness posts, and two feet above the level of the highway. Elevation: 8.33 feet above mean water level.

BENCH MARK 1 (1972) is a standard disk, stamped "No. 1 1972," set flush in the northwest end of the concrete bulkhead, located under the north end, 34.4 feet west of the west side of the bridge. Elevation: 4.66 feet above mean water level.

BENCH MARK 2 (1972) is a standard disk, stamped "No. 2 1972," set flush in the southwest end of the concrete bulkhead located under the south end of the bridge. Elevation: 4.68 feet above mean water level.

BENCH MARK 3 (1941) is a standard disk, stamped "No. 3 1941," set in a drill hole near the north end of the third concrete step from the bottom leading to the terrace on the south side of the Allenhurst Post Office and general store. It is seven feet southwest of the southeast corner of the building and 32 feet west of the centerline of the highway. Elevation: 9.43 feet above mean water level.

Mean water level at Allenhurst, Haulover Canal is based on 17 months of record, March 1966 through September 1968, reduced to mean values. The periodic tide is small and is masked by nontidal effects.

### FLORIDA – NOAA Coastal Boundary Mapping Program Vertical Control – Geodetic Map TP – 00106

Geodetic	Elevations (feet)	
Bench Mark	SLD 1929	Condensed Description
309 (USE)	3.766	USE disk stamped 309 JLR 1962; 58.4 ft. W centerline highway, 131 ft. N palm with painted blaze, 37 ft. NW of R/W marker.
F 190	3.970	C&GS disk stamped F 190 1959; 50 ft. W centerline highway, 2 ft. N witness post, in concrete post projecting 3 inches.
DUMMIT	3.996	C&GS disk stamped DUMMIT 1934; 58 ft. W centerline highway. A Bilby tower is over mark.
DUMMIT RM4	3.763	C&GS disk stamped DUMMIT NO. 4 1934; 129.3 ft. N of DUMMIT, 53 ft. W centerline highway.
311 (USE)	2.487	USE disk stamped 311 JLR 1962; 55 ft. W centerline highway, near white witness post, in concrete post projecting 4 inches.
312 (USE)	4.272	USE disk stamped 312 JLR 1962; 52 ft. E centerline highway, 32 ft. SW pole H575, in concrete post flush with ground.
313 (USE)	3.412	USE disk stamped 313 JLR 1962; 36 ft. E centerline road, 41 ft. S centerline road, 91 ft. NW of NW corner of building.
G 190	6.339	C&GS disk stamped G 190 1959; 27 ft. W centerline highway, 52 ft. NE centerline road, in concrete post flush with ground.
D 211	8.045	C&GS disk stamped D 211 1963; 63 ft. W centerline highway, 11 ft. E oak tree, disk on steel rod projecting 3 inches, and in tile.

### FLORIDA – NOAA Coastal Boundary Mapping Program Vertical Control – Geodetic Map TP – 00106

Geodetic	Elevations (feet)	
Bench Mark	SLD 1929	Condensed Description
E 211'	8.104	C&GS disk stamped E 211 1963; 231 ft. SE centerline highway, 55 ft. S centerline dirt road, on top steel rod in tile.
K 214	4.616	C&GS disk stamped K 214 1964; 80 ft. SW centerline road, 21 ft. W canal bank, 2 ft. E witness post.
P 214	4.905	C&GS disk stamped P 214 1964; 12 ft. W centerline road, 16 ft. E canal bank, 2 ft. S witness post, 8 inches under-ground.
Q 214	3.550	C&GS disk stamped Q 214 1964; 11 ft. E centerline road, 3 ft. W canal bank, 18 in. S. witness post.
ALLENHURST, MOSQUITO LAGOON TIDAL 4	3.593	(*)
W 215/	3.970	(*)
ALLENHURST, MOSQUITO LAGOON TIDAL 3	4.462	(*)
ALLENHURST, MOSQUITO LAGOON TIDAL 2	4.774	(*)
ALLENHURST, MOSQUITO LAGOON TIDAL 1	4.104	(*)

<sup>\*</sup> Description given under Tidal Bench Marks.

### FLORIDA – NOAA Coastal Boundary Mapping Program

Vertical Control – Geodetic

Map TP-00106

Geodetic	Elevations (feet)	
Bench Mark	SLD 1929	Condensed Description
IWBV 106 (USE)	8.012	(*)
318 (USE)	8.625	(*)
TIDAL 3 (1941)	4.462	(*)
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<sup>\*</sup> Description given under Tidal Bench Marks.

### FLORIDA – NOAA Coastal Boundary Mapping Program

### Horizontal Control

Map TP-00106

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
BLACK POINT, 1875	Book 418, P. 24, 25, 34, 53, G.PFla. Vol.1, P. 147, P.C. Fla. E. Zone, P. 16.
DUMMIT, 1934	Book 418, P. 24, 34, G.PFla. Vol.1, P. 125, P.C. Fla. E. Zone, P. 3.
MOSQUITO LAGOON SOUTHEAST BASE, 1875	Book 418, P. 25, 34, 50, 52, 56, G.P Fla. Vol.1, P. 148, P.C. Fla. E. Zone, P. 17.
WHYNOT, 1963	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.
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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOS PHERIC ADMIN	TYPE OF SURVEY	SURVEY TP. 00106
TOTAL OCEANIC AND ATMOSPHERIC ADMIN	M ORIGINAL	MAPEDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
DESCRIPTIVE REPORT - DATA RECORD	☐ REVISED	JOB РН. <u>6716</u>
PHOTOGRAMMETRIC OFFICE	<del>                                     </del>	
·	Ι	ING MAP EDITION
Rockville, Maryland	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
Commander Wesley V. Hull	REVISED	19TO 19
I. OFFICE	7.	FIELD
General Instructions-OFFICE-NOS	Aerial Photogr	
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 instruc-	Field Edit (PH-	
tions (1973) incorporate applicable	Instructions fo	
prior operational instructions.	Coastal Zone Ma	pping), 1973
II. DATUMS		
	OTHER (Specify)	
1. HORIZONTAL: 1927 NORTH AMERICAN		·
MEAN HIGH-WATER	отне <i>к (Specify)</i>  Mean water leve	1 (see record of
2. VERTICAL:	decisions bound	
MEAN LOWER LOW-WATER	report).	
3. MAP PROJECTION	4.	GRID(G)
Transverse Mercator	STATE	ZONE
Transverse Mereavor	Florida	East
1:10,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
	J.D. Perrow	9/69
METHOD: Analytic LANDMARKS AND AIDS BY	inapplicable	
2. CONTROL AND BRIDGE POINTS PLOTTED BY	P.J. Dempsey	2/70
METHOD: Coradomat CHECKED BY	inapplicable	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY CHECKED BY	J.C. Richter	3/70
	J.P. Battley Inapplicable	3/70
INSTRUMENT: CONTOURS BY  SCALE: 1:10,000 CHECKED BY	Inappircable	
SCALE: 1.10 000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY	J.C. Richter	3/40
Shoreline: Graphic CHECKED BY	J.P. Battley	3/70
CONTOURS BY	Inapplicable	
Interior:Orthophoto mosaic CHECKED BY		
ETIPO SUSPONTO BY	J. Taylor	4/70
SCALE: 1:10,000 CHECKED BY	J.P. Battley	4/70
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	J.P. Battley	5/70
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	J.C. Richter J.P. Battley	9/70
7. COMPILATION SECTION REVIEW BY	J.P. Battley	11/70
8. FINAL REVIEW BY	J.P. Battlev	12/70
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	D.M. Brant*	9/73
11 MAD REGISTERED - COASTAL SHRVEY SECTION BY	MI DOT	أ يرّ م/ شرّ ا

NOAA FORM 76-36B			<u></u>			2 T OF COMMERCE
(3-72)				EANIC AND A		ADMINISTRATION OCEAN SURVEY
TP-00106	COA	APILATIO	N SOURCES		<u></u>	
. COMPILATION PHOTOGRAPHY						
CAMERA(S) Wild RC-8		TYPE	S OF PHOTOGRAPHY		TIME REFER	RENCE
S&L Camera 6"fo	cal length		LEGEND		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
TIDE STAGE REFERENCE		(C) COL	.or	ZONE		
PREDICTED TIDES  REFERENCE STATION RECORDS	•	(P) PAN	CHROMATIC	Las	tern	STANDARD
TIDE CONTROLLED PHOTOGRA		(I) INF	RARED B&W	60t		M DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	000	STAGE OF	TIDE
67S(C)5867 - 5870	10/3/67	11:11		OO The		of tide is
-1-(-7500) 5010	120, 3, 0,		1.10,0			for the
			1		r photog	
_					- 1	,,, •
69L3713R-3716R	8/27/69	8:34			.3 MWL	
69L3496R-3498R	8/26/69	9:55	1:30,000	0.0-	1 MWL	
69L3 <b>7</b> 21R	8/27/69	8:40	1:30,000		.3 MWL	
			<b>(</b>			
EMARKS The Tituevil	lo Indian	Divon				
EMARKS The Titusvil that the water leve	ie, indian	NIVEL	itue Stario	n was u	sed to 1	nsure
Datum in Mosquito 1	lagoon.	PERMIT	reality abov	ve or b	etom cue	IIM L
2. SOURCE OF MEAN HIGH-WATER			<u>.</u>			
The mean water-leve	el line was	mappe	d in lieu or	f the m	ean high	-water
line (refer to the	Record of	Decisi	ons bound wi	ith thi	s report	). The
source of the mean	water-leve	l line	is the $1969$	9 tide~	coordina	ted black
and white infrared	photograph	y list	ed in Item	l. Thi	s map wa	s field
edited July 1970.						
. SOURCE OF MEAN LOW-WATER	OR MEAN LOWER LO	OW-WATER L	INE:			
There is no mean lo	ow-water li	ne sho	wn on this m	nap.		-
			· · ·			
······································						
4. CONTEMPORARY HYDROGRAPH	IC SURVEYS (List of	only those su	rveys that are sources	for photogran	nmetric survey ir	iformation.)
SURVEY NUMBER DATE(S)	SURVEY CO	PY USED	SURVEY NUMBER	DATE(S)	SURVE	Y COPY USED
Inapplicable						
S. FINAL JUNCTIONS						
	AST		SOUTH		WEST	
	P-00107	·	TP-00109		TP-0010	8
REMARKS						

Final Junctions were made in the Coastal Mapping Section.

TX FIELD INSP	ECTION OPERATION		FIELD EDIT OPERATIO	ON Tuly 1070	)
*See h	elow OPERAT			NAME	DATE
. CHIEF OF FIEL	D PARTY		W.H. Shea	rouse	7/70
<u> </u>		RECOVERED			7/70
. HORIZONTAL C	CONTROL	ESTABLISHED	NY .	ii oase_	1/-10
		RE-MARKED OR IDENTIFIED	77		·
		RECOVERED	ву W.H. Shea	rouse	7/70
, VERTICAL CON	ITROL	ESTABLISHED	37		
	P	NEWSTREE SET IDENTIFIED	W.H.Shear	ouse	7/70
	RECOV	ERED (Triangulation Stations	1.7 17 (1)		7/70
. LANDMARKS AT		LOCATED (Field Methods)	1		7/70
AIDS TO NAVIG	AIION	IDENTIFIED	ву W.H. Shea	rouse	7/70
		TYPE OF INVESTIGATION			
i, GEOGRAPHIC N INVESTIGATION		COMPLETE	ву		
INVESTIGATION	N	SPECIFIC NAMES ONLY	W.H. Shea	rouse	7/70
		NO INVESTIGATION	<del></del>	<del></del>	
. PHOTO INSPEC		LARIFICATION OF DETAILS			7/70
. BOUNDARIES A I. SOURCE DATA		SURVEYED OR IDENTIFIED	<sup>BY</sup>   Inapplica	hle	
	ONTROL IDENTIF	IED	2. VERTICAL C	ONTROL IDENTIFIE	D
HOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION	N DESIGNATION
HOTO NOMBER		JIA IIVII IIAME	69L3721R		311(USE)312(
			0,11,111	313(USE),	
			69L3716R	D211,K214	
	See item	8 below	69L3496R	E211	,
		•	69L3713R		
			DAMMIT 19	34 is also	a B.M.
Transpare 3721R. LANDMARKS AI One land	ND AIDS TO NAVIG mark is re	1234 thru 4237;	ifloating aid		
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	1 081	ECT NAME
59L3714R	Tower (I	HYNOT, 1963)	THE POST OF THE PERSON OF THE		470/16
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05005:::::			<del></del>	1	
. GEOGRAPHIC N		REPORT TO NONE	6. BOUNDARY A	ND LIMITS: R	EPORT Y NONE
	L MAPS AND PLAN	15			
None					

NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

### RECORD OF SURVEY USE

			RECOR	D OF SURVET	USL			
. MANUSC	RIPT COPIES					_		
	СО	MPILAT	ION STAGES					IPT FORWARDED
	ATA COMPILED	D	ATE	REM	ARKS	м	ARINE CHARTS	HYDRO SUPPORT
N	copies furnis	had .	to Nau	icel Cher	ts prio	r th	final re	view.
No mar	copies furnis	nea	CO Nau	rear char	CS PIIO		111101 10	
	ARKS AND AIDS TO NAVIGA		MAUTICAL	DATA BRANCH				
1. REP	ORTS TO MARINE CHART D	TO BE STORY	DATE	DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	FOR	WARDED			REMAR		
	1303	Det	1. 1, 1973	Only	one i	apo	rt was	
				- 6	11.1			
				3401111	7764			
	REPORT TO MARINE CHAR		ou coast	DU OT BRANCH	DATE FORWA	ARDED:	October 1.	1973
2. 🗸	REPORT TO MARINE CHAR	AL CHAP	RT DIVISION	, AERONAUTICAL	DATA SECTI	ON. DAT	TE FORWARDED	
	RAL RECORDS CENTER DA							
	BRIDGING PHOTOGRAPHS		DUDI ICATE	BRIDGING REPOR	RT: 🖂 CO	MPUTER	READOUTS.	
2. 17	CONTROL STATION IDENT	TIFICAT	ION CARDS;	FORM NOS	567 SUBMIT	TED BY	FIELD PARTIES	
3.	SOURCE DATA (except for	Geograph	nic Names Re	eport) AS LISTED I	N SECTION II	, NOAA F	ORM 76-36C.	
	ACCOUNT FOR EXCEPTION	)N3.						
4.	DATA TO FEDERAL RECO	ORDS CE	NTER. DAT	E FORWARDED:	_ 5/1	6/14	R.J.6	
IV. SURV	EY EDITIONS (This section	shall be	completed e	ach time a new map	edition is reg	gistered)	YPE OF SURVE	,
	SURVEY NUMBER	THE REAL PROPERTY.	<b>РН -</b>	R		Contract of the last of the la	ISED RI	
SECONE	DATE OF BHOTOGRAL		DATE OF F				MAP CLASS	
EDITION					□.n.		VPE OF SURVE	
	SURVEY NUMBER		JOB NUMBE				SED R	
THIRD	TP - DATE OF PHOTOGRA	(3)	PH	IELD EDIT			MAP CLASS	
EDITIO	57,20,710,000				□n.			
	SURVEY NUMBER		JOB NUMBE				YPE OF SURVEY	
FOURTH	TP		PH -	TELD EDIT		- KEV	MAP CLASS	
EDITIO	N DATE OF PHOTOGRA		DATE OF F		□n.	□m.	□ıv. □v.	FINAL

### Record of Decisions Pertaining to Symbolization of the MWL Datums TP-00106

### Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water areas it covers are portions of Mosquito Lagoon and Indian River. These two bodies of water are connected by Haulover Canal. The datum in Mosquito Lagoon was established by observations at the Allenhurst, Mosquito Lagoon Tide Station, siutated in Mosquito Lagoon just south of the eastern entrance to the canal. The datum in Indian River was established by observations at the Allenhurst, Haulover Canal Tide Station, situated near the western end of the canal; and, at the Titusville Tide Station.

At the three stations, the periodic tide was masked by non-tidal forces and the mean range was substantially less than two-tenths of a foot. 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 the shoreline on this map; 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 bulk-heads which were portrayed by a solid line, or where vegetation such as mangrove obscures the shoreline and then the apparent shoreline symbol was used.

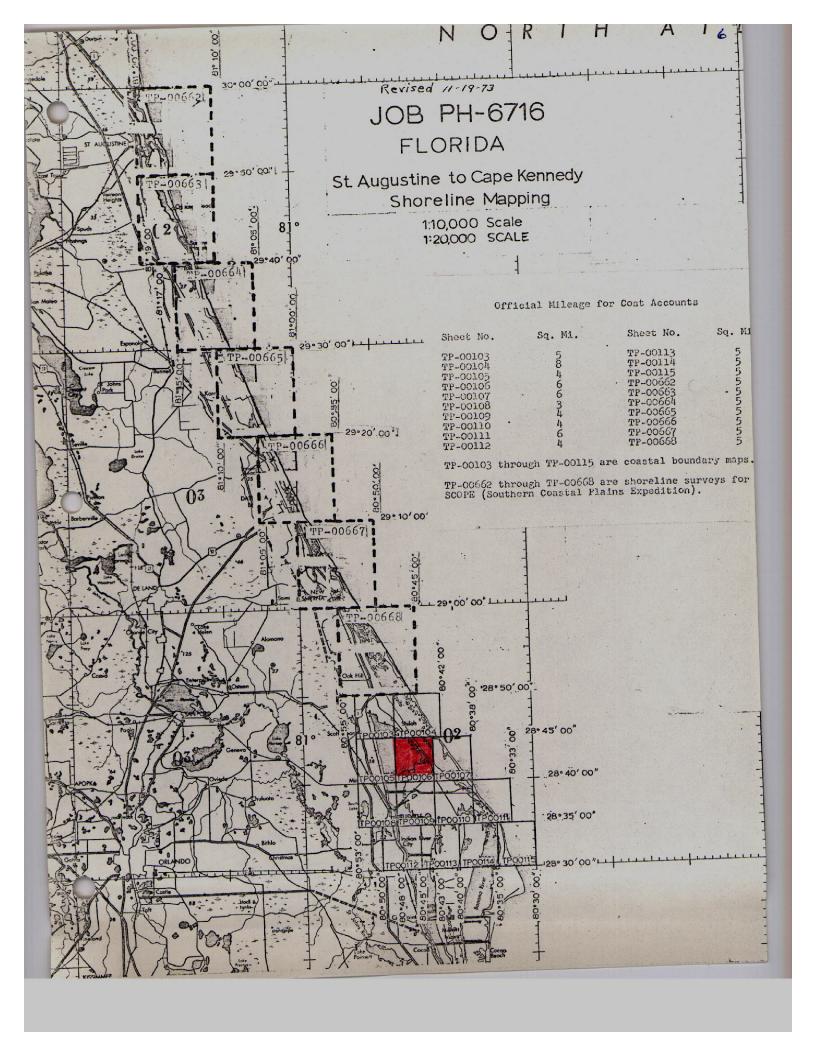
### Decision Responsibility for Shoreline Symbolization

Specific decisions as to where the symbolization for mapping the mean water-level line, apparent shoreline, and solid lines for the along-shore manmade features were made November 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-00106 which will be permanently filed in the Bureau Archives.

\* See Review Report for clarification of date.



### SUMMARY TP-00103 thru TP-00115

Coastal Zone Map TP-00106 is one of thirteen (13) similar maps in project PH-6716. The layout of sheets (page 6 of this report) will show its location. These maps are intented 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 1967 and 1969 on regular color and black and white infrared film. The black and white 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 the tidecoordinated black and white infrared photography using a stereoplotter 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 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 Bureau Archives:

- A plastic copy of the published map (1:10,000 scale). 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 Inspection

Field operations performed prior to compilation were limited to recovery of horizontal control required for compilation, placing targets on selected horizontal control stations in advance of aerial photography, and photoidentification of supplemental control stations after photography. A Field Inspection Report was not considered appropriate and was not prepared.

Photogrammetric Plot Report Cape Kennedy, Florida Job PH-6716 October, 1970

### 21. Area Covered

This report covers the area immediately north of Cape Kennedy, Florida, from Latitude 28° 30' to 28° 50'. The job consists of thirteen (13) 1:10,000 scale sheets, TP-00103 thru TP-00115.

### 22. Method

Five (5) strips of photographs were bridged using analytical aerotriangulation methods. Strips 1 thru 4A were bridged using 1:40,000 scale color photography. Strip 50 was bridged using 1:25,000 scale panchromatic photography. Compilation was done concurrently with the bridging. No difficulty was encountered in the bridging or compiling strip 1. However, because of weak control, ties between strips 2, 3 and 4A were poor and subsequently these three strips were adjusted as a block. However, we still felt that the block was not as adequate as we would like. Therefore, a 1:25,000 scale strip flown at a later date was taken advantage of and bridged, using additional control. With this additional strip, the aerotriangulation proved adequate.

### 23. Adequacy of Control

Some of the horizontal control was premarked. All the control used in bridging strip 50 was office identified prior to the field work. That is, sub points were picked in the office, identified on the contact prints to be located by ground methods by the field party. This was done in order to save time by not holding up the aerotriangulation. The results proved very satisfactory. The horizontal control was adequate for bridging.

24. Photography

Time 2 Saperstein

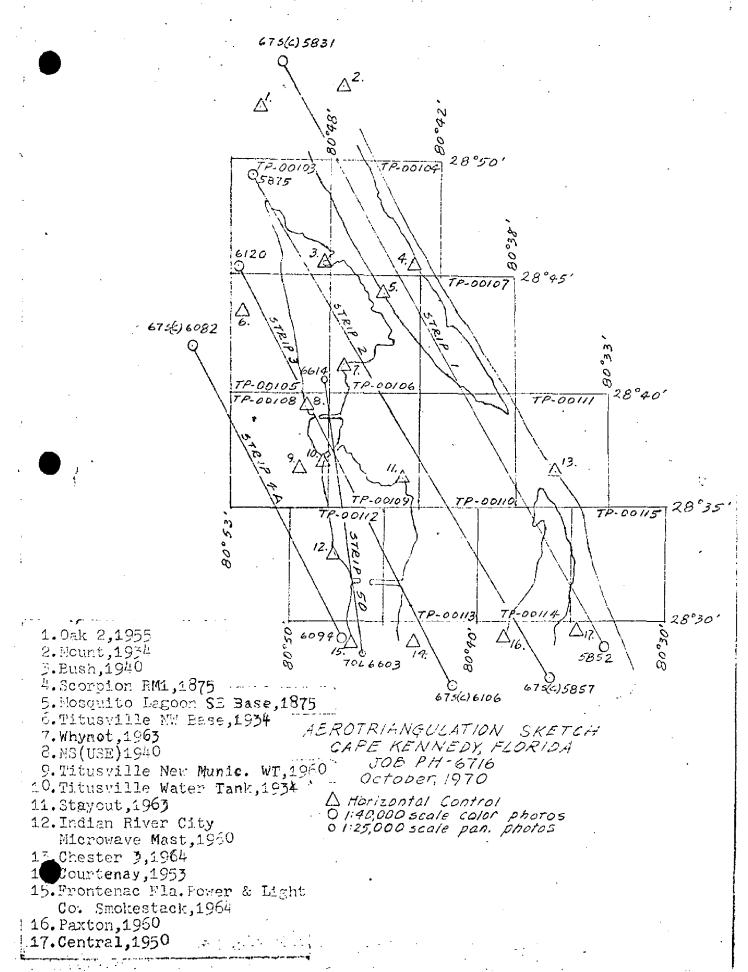
the photography from

The definition and quality of the RC-8 "5" and "L" cameras were good.

Respectfully submitted:

Approved and forwarded:

Henry P. Eichert, Chief Aerotriangulation Section



### FLORIDA – NOAA Coastal Boundary Mapping Program

### Horizontal Control

Map TP-00106

· · · · · · · · · · · · · · · · · · ·	
Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
BLACK POINT, 1875	Book 418, P. 24, 25, 34, 53, G.PFla. Vol.1, P. 147, P.C. Fla. E. Zone, P. 16.
DUMMIT, 1934	Book 418, P. 24, 34, G.PFla. Vol.1, P. 125, P.C. Fla. E. Zone, P. 3.
MOSQUITO LAGOON SOUTHEAST BASE, 1875	Book 418, P. 25, 34, 50, 52, 56, G.P Fla. Vol.1, P. 148, P.C. Fla. E. Zone, P. 17.
WHYNOT, 1963	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.
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### COMPILATION REPORT TP-00106

### 31. Delineation

The interior features on TP-00106 are depicted by an orthophoto mosaic using rectified black and white prints of the color photography. Congrol for rectifying the color photography was furnished by the analytic bridge.

The shoreling of this map was compiled graphically from tide-coordinated infrared photography. The color photography was used as an aid in interpreting culture and alongshore features.

The control for the graphic compilation consisted of planimetric features and map points compiled from models of the color photography set on the Wild B-8 stereoplotter.

### 32. Horizontal Control

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

### 33. Supplemental Data

Vertical control from USGS quadrangles was used for leveling the B-8 stereo models.

### 34. Contours and Drainage

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

### 35. Shoreline and Alongshore Details

The photography was adequate for the interpretation and delineation of the shoreline and alongshore features.

The mean water-level line was mapped in lieu of the mean-high-water line (refer to the Record of Decisions bound with this report).

### 36. Offshore Details

No unusual problems were encountered.

Offshore spoil areas were delineated from office interpretation of the photography.

### 37. Landmarks and Aids to Navigation

Landmarks and aids to navigation that were office identified and located will be verified by the field editor, and those not visible on the photography will be located by the field editor.

### 38. Control for Future Surveys

Tidal bench marks located by the tide observation party.

### 39. Junctions

Refer to Form 76-36b (page 2 of this Descriptive Report).

### 40. Horizontal Accuracy

The map 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 quads Mims, Florida, and Wilson, Florida, Edition of 1952, scale 1:24,000, contours 5 ft. intervals. None of the newly dredged ditches are shown on the quads.

### 47. Comparison with Nautical Charts

Comparison has been made with Nautical Chart No. 843-SC, Side B, 7th Edition, dated September 1969. Many new ditches have been dredged behind the MHW line and the spoil has closed off some of the small bays and intles.

Items to be Applied to Nautical Charts Immediately: The MHW Line has changed in a few areas due to the dredging of ditches and should be shown on the chart.

Items to be Carried Forward: None.

. Respectfully submitted:

John C. Richter (JB)

John C. Richter Cartographer

Approved and Forwarded:

K.N. Maki (JB)

K.N. Maki

Chief, Compilation Section

### Field Edit Report, Map TP-00106, Job PH-6716

### 51. METHODS

Visual comparison of the shoreline as compiled was made by riding close to shore in a small boat. Notes regarding shoreline structures, etc., will be found on the Field Edit Sheet with cross-referencing to the photo. transparencies or ratioed infrared photos.

In some areas notes regarding vegetation classification will be found on the ratio photographs. This was done before it was learned that the orthophotomesaic type may would be published.

Nonfloating aids were verified, if compiled, or located by sextant. This work is shown on Field Edit Sheet No. 2. Form 567 is submitted.

The Bilby steel tower which is permanently in place over triangulation station WHYNOT 1963 is recommended for a landmark. Form 567 is submitted.

24 geodetic bench marks were searched for, 17 recovered and 14 photoidentified. An ozalid showing their approximate locations is part of the data transmitted. Forms 685A are submitted.

The tide gage just southeast of Haulover Canal was reactivated the last of July by Lt. Knecht. Its location is shown on the Field Edit Sheet.

Violet ink was used for field edit notes.

### 52. ADEQUACY OF COMPILATION

After application of field edit information, compilation will be adequate.

### 53. MAP ACCURACY

No tests were specified.

### 54. RECOMMENDATIONS

None.

### 55. EXAMINATION OF PROOF COPY

Not required.

### 56. GEOGRAPHIC NAMES

A complete investigation was not required and no conflicts came to light during field work.

A question regarding which of two small points is BLACK POINT was asked on the Preliminary Name Sheet, MIMS quad. map. This area is part of the Merritt Island National Wildlife Refuge and the question was discussed with the assistant manager. He was firm in his opinion that the entire land mass is BLACK POINT. It is recommended that the name be shown as placed on the Preliminary Name Sheet and the Field Edit Sheet.

Submitted 8/7/70

William H. Shearouse\_

William H. Shearouse Chief, Photo Party 60

### Review Report TP-00106 Coastal Zone Map September 1973

A detailed review of TP-00106 and its related records was made in the Coastal Mapping Section prior to its publication. The following major parts in the preparation of this map have been examined indthe Quality Control Group and are adequate:

- 1. Field operations
- 2. Extension of control
- 3. Compilation

The following two questionable areas on this map were noted during examination by the Quality Control Group:

- 1. The elevations of the "steel piling in ruins" (Latitude 28°43.5' and longitude 80°47.2') are shown without reference to any datum. Later maps will show this information under the legend of the map.
- 2. The spoil area at the entrance to Duckroast Cove is poorly depicted on this map.

These questionable areas do not affect the accruacy of this map.

Comparison was made with the following USGS quadrangles and Nautical Chart:

Mims and Wilson, Florida, 1949, photorevised 1970 Nautical Chart 843-SC, 10th Edition, August 12, 1972

The Wilson quadrangle and Nautical Chart 843-SC show a row of piling or a pier in ruins on the west coast of Mosquito Lagoon (Latitude 28°42.1' and longitude 80°43'). No reference was made to this culture feature by the field editor.

The color photography dated October 1967 was used for bridging and the photomosaic. This photography was supplemented by additional photography dated August 1970. (Refer to photogrammetric plot report.) The infrared photography dated August 23 and 27, 1969, was used for the compilation of the mean waterlevel line. The note on published map does not mention the August 1969 photography.

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.

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

Submitted by

Donald M. Brant

Approved:

Chief, Photogrammetric Branch

Chief, Chastal Mapping Division

48. Geographic Name List

Allenhurst Black Point Black Point Creek Cow Pen Creek Duckroost Cove Duckroost Point Dummit Cove Dummit Creek Granny Cove Haulover Canal Indian River Marsh Bay Marsh Bay Creek Marsh Bay Point Merritt Island National Wildlife Refuge - Mosquito Lagoon Intracoastal Waterway

PREPARED BY

CARTOGRAPHIC TECHNICIAN

APPROVED BY
A. V. Wraight

CHIEF GEOGRAPHER

NOAA FORM 76-40	5-40	U.S. DEPARTMENT OF		COMMERCI	F A Z	ON AL C	CEANIC AND	COMMERCE - NATIONAL CCEANIC AND ATMOSPHERIC ADMINISTRATION	MINISTRATION	ORIGINATING ACTIVITY	TIVITY	[
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	RESPONSIB_E PERSONNEL	
PE OF ACTION	A11	THTE
1. Objects inspected from seaward		FIELD INSPECTOR
		FIELD INSPECTOR
2. Positions determined and/or verified	William H. Shearouse	FIELD EDITOR
	John C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	* See below	REVIEWER  QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

'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. NOTE:

### Applicable to office identified and located objects only. Enter the number and date of the photograph used to 1. New Position Determined-Enter the applicable data by symbols as indicated below: TYPE OF ENTRIES identify the object. FIELD INSPECTION COLUMN TITLE COMPILATION

	P - Photogrammetric	1. Field identified	2, Theodolite	3. Planetable	4. Sextant		
	F - Field	1, Triangulation	2. Traverse	3. Intersection	4, Resection	a. Theodolite	,
AND	FIELD EDIT	*NOTE: Positions listed	-	red	in Quality Control.		

EXAMPLES:

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P.2

Immediately beneath the data described above, enter the following:

c. Sextant

- a. For 'Field Positions' enter the dute 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. mɔ/day/yr.'

(2-71)

NOAA FORM 76-40

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	RESPONSIB'LE PERSONNEL	-
PE OF ACTION	111	TITLE
1. Objects inspected from seaward		FIELD INSPECTOR
		FIELD INSPECTOR
2. Positions determined and/or verified	William H. Shearouse	FIELD EDITOR
	John C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	* See below	REVIEWER  SOUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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b. Planetable		
c. Sextant		
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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, mayday/yr,'

(2-71)NOAA FORM 76-40

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	RESPONSIBLE PERSONNEL	
PE OF ACTION	VII	TITLE
L. Objects inspected from seaward		FIELD INSPECTOR
		FIELD INSPECTOR
2, Positions determined and/or verified	William H. Shearouse	FIELD EDITOR
	John C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	* See below	REVIEWER  QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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Immediately beneath the data described above, enter the following:

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- a. For 'Field Positions' enter the dute 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/yi.
- 3. Position Verified Enter 'Verif, mɔ/day/yr.'

NOAA FORM 76-40 (2-71)

### TP-00106 Data Forwarded to Federal Records Center

Field edit sheets Numbers 1 and 2

- 1 Discrepancy Print
- 1 Ozalid copy showing location of bench marks.

### Photographs

69L3496R thru 3498R 69L3713R thru 3716 and 3721R 69E4231 thru 4237 (transparencies)