TP-00154

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

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

10AA FORM 76-36A 3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	T	YPE OF SURVEY	SURVEY T	<u>, 00154</u>
		£k	ORIGINAL	MAPEDITION	NO.
DESCRI	PTIVE REPORT - DATA RECORD	0	RESURVEY	MAP CLASS	Final

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	LAST PRECEEC	ING MAP EDI	TION
	REVISED	JOB	_{РН-} 6910
0	RESURVEY		s Final
X-K	ORIGINAL	MAPEDIT	юи ио. (Д)

PHOTOGRAMMETRIC OFFICE	•	LAST PRECEE	DING MAP EDITION
Rockville, Maryland		TYPE OF SURVEY	JOB PH-
OFFICER-IN-CHARGE Commander Wesley V. Hull		RESURVEY REVISED	SURVEY DATES:

	·	<u> </u>
I. INSTRUCTIONS DATED		
	1. OFFICE	2. FIELD
erative Coastal PH-7000, June I OFFICE-Suppleme OFFICE-Suppleme NOTE: Office ar	actions-OFFICE-NOS Coop- l Boundary Mapping, Job 19, 1973 ent I, August 19, 1973 ent II, Sept. 24,1973 and field Edit Instruc- accorporate applicable instructions)	Aerial Photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/70 Field Edit (PH-7000, General Instructions for Florida Coastal Zone Mapping) 1973
II. DATUMS		
1. HORIZONTAL:	☐ 1927 NORTH AMERICAN	OTHER (Specify)
	X MEAN HIGH-WATER	OTHER (Specify)

2. VERTICAL:	MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	:		
3. MAP PROJECTION			4. GRID(S)	
Transverse Mer	rator	STATE	ZONE	
	V	Florida	East	
5. SCALE		STATE	ZONE	
1.10 000	1			

	IIII HISTORI OF OFFICE OF ERATION	13		
1	OPERATI	ONS	NAME	DATE
İ	1. AEROTRIANGULATION	ВУ	D.Brant	Aug.1971
i	METHOD: Analytic	LANDMARKS AND AIDS BY	Inapplicable	
ļ			D D1 4 7 7 4	A 1077

IDS BY	Inapplicable	
TED BY	D. Phillips	Aug.1971
CED BY	Inapplicable	
TRY BY	J. Richter	Jan, 1972
(ED BY	J. Battley	Jan 1972
URS BY	Inapplicable	
ED BY		
RY BY	J. Richter	Feb.1972
ED BY	J. Battley	Feb. 1972
URS BY	Inapplicable	
ED BY		
eoor ± BY	J. Taylor	Jan.1972
ED BY		
BY	J. Battley	Jan, 1972
BY	H. S. Jones	Jan. 1973
ED BY	J. Battley	Jan. 1973
8Y	P. Dempsey	Nov.1973
ВҮ	S. Blankenbaker	Nov. 1973
	8Y (ED 8)	TED BY TRO BY TRANSPY

9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH

10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH Ed. + BY S.

Blankenbaker

Dec.

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TP-00154

COMPILATION SOURCES

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1. COMPILATION PHOTOGRAPHY						
E&L 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE		
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHE (I) INFRAR		Eastern MERIDIAN 60th&75th	TSTANDARD Z DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF	TIDE	
70E(C)5772 70E(C)5884-5886 Infrared 70L8800R-8805R 70L8891R-8896R 70L6375R- 63 78R 70L6912R-6916R	2/10/70 2/14/70 2/10/70 2/10/70 8/12/70 8/14/70	10:13 11:40 10:50 16:48	1:40,000 1:40,000 1:25,000 1:25,000 1:25,000	Inapplicabi Inapplicabi * (See Reman	le	
REMARKS						

2. SOURCE OF MEAN HIGH-WATER LINE:
The sources of the MHW lines along the Atlantic Ocean and in the Indian River are the infrared photographs listed above. Foreshore profiles served to verify the line along the Atlantic Ocean. The map was field edited in February 1972.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:
The source of the MLW line along the Atlantic Ocean is the infrared photography listed above. Foreshore profiles served to verify the line. The map was field edited in Feb. 1972.

No MLW lines were mapped in the Indian River. Recommendations for the application of "shallow" and "shoal" areas (shown only on the Registration map copy) to nautical charts are made in the Final Review Report, heading 68.

SURVEY NUMBER	Inapplica	ble	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
5. FINAL JUNCTION					
TP-00153		one n foreshore pro-	TP-00155		west None

^{*} Tide stage data are attached to Forms 76-36

TP-00154 Tide Data

(Stage of tide at time of Photography)
(Data furnished by Coastal Mapping Section, Oct. 30, 1973)

INDIAN RIVER

1.0 Mean High Water

Tide Sta. Fort Pierce, Indian River (Mean Range=1.23 ft.)
Tide Stage = -0.30 ft. MHW
Tide Sta. Sebastian, Indian River (Mean Range =0.3 ft.)
Tide Stage = -0.06 ft. MHW

1.2 70L8891R thru 70L8896R
Tide Sta. Fort Pierce Indian River
Tide Stage = -0.17 ft. MHW
Tide Sta. Sebastian, Indian River
Tide Stage = 0.0 ft. MHW

2.0 Mean Low Water (Refer to Data Record 76-36b, heading 3)

70L6375R thru 70L6378R

Tide Sta. Fort Pierce, Indian River

Tide Stage = -0.47 ft. MLW

Tide Sta. Sebastian, Indian River

Tide Stage = -0.25 ft. MLW

ATLANTIC OCEAN

1.0 Mean High Water

70L6912R thru 70L6916R

Tide Sta. Fort Pierce Inlet (Mean Range = 1.84 ft.)

Tide Stage = 0.00 ft. MHW

Tide Sta. Sebastian Inlet (Mean Range = 2.14 ft.)

2.0 Mean Low Water
70L6375R thru 70L6378R
Tide Station Fort Pierce Inlet
Tide Stage= -0.33 ft. MLW
Tide Station Sebastian Inlet
Tide Stage =-0.02 MLW

Tide Stage = #0.18 ft MHW

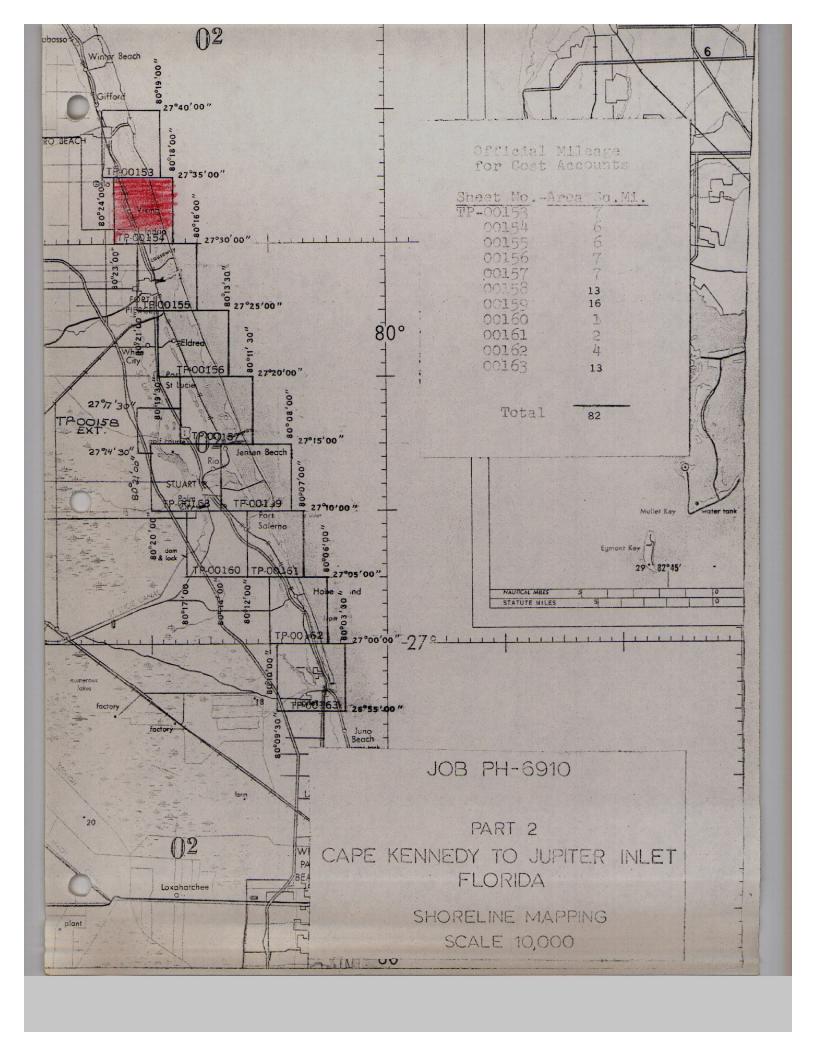
TP-00	154	1
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HISTORY OF FIELD OPERATIONS

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OF.	ENATION			NAME	DATE
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4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods	1.7 1		arouse	Mar 1972
	TYPE OF INVESTIGATION	D BY W .1	· Dire	arouse	1101 17/2
5. GEOGRAPHIC NAMES	COMPLETE				
INVESTIGATION	SPECIFIC NAMES ONL	YBY			
	NO INVESTIGATION				
6. PHOTO INSPECTION	CLARIFICATION OF DETAIL	s BY W.I	I. She	arouse	Mar 1972
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIE	DBY N.	١.		
II. SOURCE DATA					
I. HORIZONTAL CONTROL IDE	NTIFIED	2. VEF	TICAL CO	NTROL IDENTIFIE	D
PHOTO NUMBER	STATION NAME	РНОТО	NUMBER	STATION	DESIGNATION
		70E5	772	Y306, Z306	
pplicable only to	o field inspection	70E5	383	V33, A201,	C307
peration. See se	ection 8 below	70E5		B307	
		70E5		K200, M200	,P200,P230,
		not	prick	ed-Riomar	2
3. PHOTO NUMBERS (Clarification)		000 =		C00 - 70.	(224 d
4. LANDMARKS AND AIDS TO N	DE 5883, 70E 5	804,5	885,0	5 886,700	6374 \$
No aids to navigat	tion were photo-ic	dentifie	i. Loc	ated by se	xtant fixes.
PHOTO NUMBER	OBJECT NAME	рното	NUMBER	ОВЛ	ECTNAME
0E5883 House	/msz\				
'0E5884 Tower	(IV)				
GEOGRAPHIC NAMES:	REPORT X NONE	6. BOL	NDARY AI	ND LIMITS: R	EPORT NONE
SUPPLEMENTAL MAPS AND					HOILE
None					

Sketchbook, Vol.13 -Sextant fixes for TP-00154&TP-00155.

TP-00	154		RECO	RD OF SURVE	Y USE			
I. MANUSC	RIPT COPIES							
	со	MPIL.	ATION STAGE	s			DATE MANUSCR	IPT FORWARDED
- c	ATA COMPILED	_	DATE	RE	MARKS	 .	MARINE CHARTS	HYDRO SUPPOR
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	ARKS AND AIDS TO NAVIGA		N, NAUTICAL	DATA BRANCH				
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2. [] F 3. [] F	REPORT TO MARINE CHART REPORT TO AERONAUTICA	DIVI	SION, COAST ART DIVISION,	PILOT BRANCH. AERONAUTICAL	DATE FOR	NARDED:	: //////75 ATE FORWARDED:	
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IV. SURVE	Y EDITIONS (This section s SURVEY NUMBER	hell b	e completed ea		o edition is re		TYPE OF SURVEY	
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THIRD EDITION	DATE OF PHOTOGRAPH	(3) IY	PH	ELD EDIT	<u>□</u> 11.	□ REV	MAP CLASS	GURVEY
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Record of Decisions Pertaining to Symbolization of the MHW and MLW Datums Map TP-00154

Shoreline Delineation

The mean low-water and mean high-water tidal datums along the outer coast (Atlantic Ocean) were determined from tide observations at Vero Beach Tide Station (north of this map) and Fort Pierce South Jetty Tide Station (south of this map). The interior waters shown on this map are a portion of Indian River and numerous adjacent tributeries in the form of bays, coves, creeks and canals. The tidal datums for these waters were established by observations at Oslo Tide Station (north of this map) and St. Lucie Indian River Tide Station (south of this map).

For these interior waters, the mean high-water line was shown. The mean low-water line was not shown because it does not have a boundary application. Because of the small range of tide, the portrayal of shallow areas has a greater application to charting than does the mean low-water line, and the registration copy of the manuscript shows those features

Decision Responsibility for Shoreline Symbolization

Specific decisions as to the symbolization required for mapping the mean high-water line, apparent shoreline and solid lines for along-shore manmade features were made July 19, 1973, in Rockville, Maryland, by competent technical officials of National Ocean Survey. Cdr. Wesley V. Hull, Chief, Coastal Mapping Division, provided the technical field survey and cartographic expertise, and Mr. Carroll I. Thurlow, Chief, Tidal Datum Planes Section of the Oceanographic Division, rendered decisions on tidal datum matters.

Archiving

A copy of this report shall be included in Descriptive Report TP-00154 which will be permanently filed in the NOS Archives.

* See Review Report for clarification of date.

SUMMARY TP-00153 thru TP-00163

Coastal Zone Map TP-00154 is one of eleven (11) similar maps in project PH-6910, Part 2. 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 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 orthophot mosaic and compilation.

Shoreline and alongshore features were compiled from tide coordinated 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 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:

- 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 sheeting 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.

TRIPCD 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 USI cards the station locations have been spotted on USGS Quadrangle maps which are trans-\nitted 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 QUADRANGLE
1 2 3 4 5 6 7 8 9 9 11 12 13 14 15	CENTRAL ARTESIA POSE MUNSON PATRICK N. BASE TRIPOD 3 COLLEGE 2 TURKEY CREEK VALKARIA SLIP 2 SEBASTIAN 2 SCORPION 2 RICMAR 2 PIRACE 2 WHITE 2	1940 1960 1963 1934 1934	TP-00136 TP-00138 TP-00140 TP-00142 TP-00143 TP-00144 TP-00146 TP-00146 TP-00150 TP-00153 TP-00154 TP-00155 TP-00156	CAPE CANAVERAL COCCA BEACH TROPIC MELBOURNE EAST GRANT SERASTIAN NA SERASTIAN VERO BEACH INDRIO FORT PIERCE

NAME		MAP NO.	USGS QUADRANGLE
WALTON REFUCE 2 RM # 4 SEVALL 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 BRUTE GGMEZ HOEE SOUND JUPITER RIVIERA BEACH
	WALTON REFUCE 2 RM # 4 SEWALL PINE CISTERN RADAR	WALTON 1930 REFUGE 2 RM # 4 1967 SEWALL 1934 PINE 1929 CISTERN 1956 RADAR 1954	WALTON 1930 TP-Q0157 REFUGE 2 RM # 4 1967 TP-00160 SEWALL 1934 TP-C0159 PINE 1929 TP-C0162 CISTERN 1956 TP-C0163 RADAR 1954 TP-C0164

Targets were visited after photography and found to be in good condition. No center panels were damaged except GOLF 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

Chief, Photo Party 60

PHOTOGRAMMETRIC PLOT REPORT Cape Kennedy to Jupiter Inlet, Florida (Part 2) Job PH-6910 August 1971

21. Area Covered

This report covers the area south from an area about eight miles north of Fort Pierce Inlet to Jupiter Inlet. The job consists of eleven (11) 1:10,000 scale sheets, TP-00153 thru TP-00163.

22. Method

Two (2) strips of photographs (Nos. 27 and 28) were bridged using analytical aerotriangulation methods. Ties were made between the two strips and with a previous bridge (strip 26) from Part 1 of this project. Image points were located to rectify photographs for mesaics and to ratio infrared photography. Additional points were located for the construction of mesaic type nautical and small craft charts. The final positions of points for the two strips of photographs were determined by a 35-photo block adjustment. Closures to control have been noted on the read-outs. The attached sketch of the strips bridged shows the placement of the control used in the block adjustment. All bridge points have been plotted by the Coradinat on the Florida East Zone plane coordinate system.

23. Adequacy of Control

Horizontal control was premarked and was adequate for bridging.

24. Supplemental Data

None

25. Photography

The following 1:40,000 scale, RC-8, color photography was used in bridging:

Strip 27 Strip 28 70-E(C)-5861 thru 5886 70-E(C)-5850 thru 5858

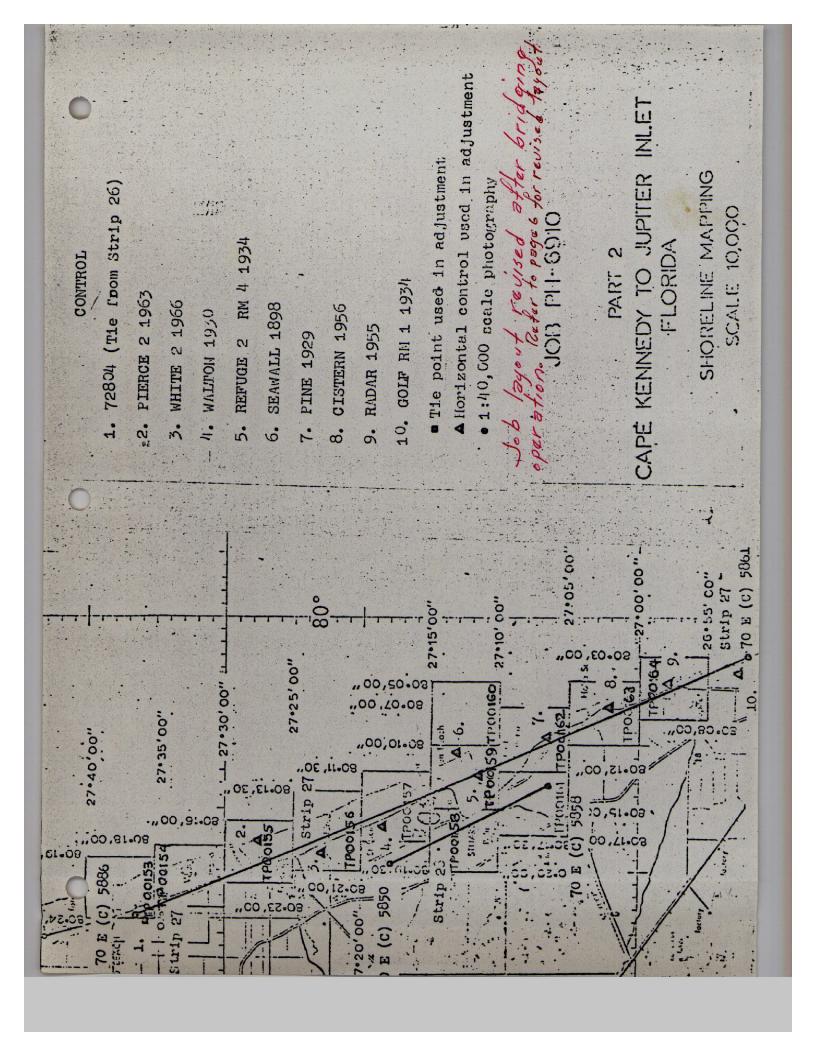
Respectifully submitted:

The definition and quality of the photography were good.

Approved and Forwarded:

Donald M. Brant

Menry P. Eichert, Chief Aerotriangulation Section



Мар	TP-	0015
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1	Geodetic	Elevations (feet)	
	Bench Mark	NGVD 1929	Condensed Description
	RIOMAR 2 Y 306	7.011	C&GS disk stamped RIOMAR 2 1960; 44 ft. E of Hwy centerline, 1.7 ft. E of witness post. C&GS disk stamped Y 306 1970; 48 ft. E of Hwy centerline, 2 ft. W of Hwy right-of-way marker.
	Z 306 A 307	14.468 12.680	C&GS disk stamped Z 306 1970; 44 ft. W of Hwy centerline, 17 ft. N of center of sand road. C&GS disk stamped A 307 1970; 48 ft. E of Hwy centerline, 95 ft NW of 24-inch Australian pine, 1.7 ft N of witness post.
	В 307	10.630	C&GS disk stamped B 307 1970; 50 ft. W of Hwy centerline, 1.5 ft. S of concrete right-of-way marker.
	C 307	2.887	C&GS disk stamped C 307 1970; 51 ft. W of Hwy
	P 230	10.873	centerline, 1.8 ft. N of metal witness post. C&GS disk stamped P 230 1965; 25 ft. W of center- line of S-bound lane, 16 ft. S of N end culvert headwall.
	K 200	13.517	C&GS sidk stamped K 200 1960; 40 ft. N of center-
	M 200	17.073	line 20th Place S.W., 30 ft. E of E rail. C&GS disk stamped M 200 1960; 7.7 ft. E of E rail, 9 ft. S of N end and set vertically in W face of pier.
	P 200	14.055	C&GS disk stamped P 200 1960; 21 ft. E of Hwy centerline, in top of 5 x 2.5 x 3 ft. concrete block, 94 ft. NW of EM U 33.
	A 201	21.640	C&GS disk stamped A 201 1960; 46 ft. S of road centerline, 8 ft. E of Power line pole.
	V 33	16.946	C&GS disk stamped V 33 1933 16.946; 35 ft W of W rail, 23 ft. E of road centerline, 1 ft. S of witness post.
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FLORIDA – NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP-00154

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
PAIMETTO, 1860	Book 420, P. 13, 14, 24, G.PFla. Vol. 1, P. 711 P.C. Fla. E Zone, P. 160
RIOMAR 2, 1960	Write Director, National Geodetic Survey, Rockville, Maryland

Compilation Report TP-00154

31. Delineation

The shoreline and alongshore features were compiled by graphic methods using tide-coordinated infrared photography, supplemented by color photography, which was used as an aid in interpreting man-made shoreline and alongshore features. The color photography was also used to compile shallow and shoal areas for use in nautical charting.

Control for the graphic compilation consisted of planimetric features and map points compiled from stereo models of the bridging color photography.

Interior features were depicted by an orthophoto mosaic constructed with rectified black and white prints of the bridging color photography.

32. <u>Control</u>

Refer to the photogrammetric plot report.

33. Supplemental Data: None.

34. Contours and Drainage

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

35. Shoreline and Alongshore Details

The photography was generally adequate for the interpretation of the details. Foreshore profiles are recommended to verify the mean high-water and mean low-water lines because of the presence of surf at the time of photography.

36. Offshore Details

The photography was considered adequate.

37. Landmarks and Aids to Navigation

All landmarks and aids require field location and/or photo-identification.

38. Control for Future Surveys

Tidal bench marks established by the tide observation party.

39. Junctions

Refer to Form 76-36B (page 2 of the Descriptive Report).

40. Horizontal and Vertical Accuracy

The map complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outlined in project instructions, PH-7000.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

USGS Quad Indrio, Fla., scale 1:24,000, edition 1950, photorevised, 1970.

No significant differences were noted.

47. Comparison with Nautical Charts

No. 845-SC, 10th Edition, August 7, 1971.

Items to be Applied to Charts Immediately: None.

Items to be Carried Forward: None.

Submitted by:

J. C. Richter SEB J. C. Richter

Approved and forwarded:

J. P. Battley, Jr.

Chief, Coastal Mapping Section

4

Y. Battley

Field Edit Report, Map TP-00154, Job PH-6910

51. METHODS

Shoreline of the Atlantic Ocean was verified visually from roads leading to the shore or by walking the beach when necessary. No discrepancies or inadequacies were found. Shoreline of the Indian River was verified visually from a small boat while cruising just offshore. Notes regarding apparent and fast shoreline, piers and other shoreline structures were made on rectified photographs.

Two landmarks are recommended for charting. Form 76-40 is submitted. Each one was photo-identified.

Form 76-40 is also submitted for nonfloating aids. Sextant fixes were obtained and the aids were plotted on the Field Edit Sheet.

Bench marks were searched for, identified on the photographs and reported on Form 685A.

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

State and Federal highway numbers are shown on the photographs.

Field edit notes will be found on the Field Edit Sheet and the photographs. No Discrepancy Print was furnished with this sheet.

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

No required.

Submitted 3/31/72

William H. Shearouse by Pful. Chief, Photo Party 60

Report on beach profiles is attached.

Addendum to Field Edit Report, Map TP-00154, Job PH-6910

This sheet was completed by former Chief of Party and not forwarded due to not having tidal information for running profiles along the outer beach.

Tide gage data for the Fort Pierce South Jetty Gage was received by telephone on the evening of Dec. 6th from Mr. Ron Brewer, Coastal Surveys Section and profiles accomplished along the outer beach on Dec. 8th and forwarded to Rockville the same day.

The staff values for this gage are as follows:

Range - 2.6 feet Low-water - 2.83 feet High-water - 5.46 feet BM 2 Reset 1971 - 6.27 feet MHW

Submitted by: R. Wagner Dec. 1972 Note: All field data (profiles) are on field photographs.

Review Report Coastal Zone Map TP-00154 November 1973

61. General

This map was reviewed in the Class I (field edit applied) astage. The review consisted of an examination of the manuscript, reproduction negatives (scribe coat, and type overlay), field data, and the Descriptive Report. Compilation procedures such as the plotting of control and sextant angles for foreshore profiles and aids to navigation and the scaling of the plotted positions were not checked during this review. As discussed in the Compilation Report, foreshore profiles along the Atlantic Ocean shore were requested. As indicated in the Data Record, the profiles accomplished by the field editor verified the compiled MHW and MLW lines. These lines were not rechecked during this final review. Field edit photograph 70L6374 was missing at the time of review.

Changes and additions in map information resulting from final review were accounted for by notes on an ozalid copy of the manuscript. The reproduction negatives will not be reexamined prior to processing the map proof.

The shoreline conthis 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. thru 65. Cartographic Comparison

USGS Quad, Indrio, Fla., scale 1:24,000, dated 1940, photorevised 1970.

Chart 845-SC, 1:40,000 scale, 11th Edition, July 15, 1972.

No significant differences were noted. Forms 76-40, (landmarks and aids to navigation) were typed and submitted to the Marine Chart Division at the time of final review.

66. Adequacy of Results and Future Surveys

The map complies with the instructions for NOS Cooperative Mapping, and with the National Map Accuracy Standards.

67. Registration Map Copy

The mean low-water line was not mapped in the Indian River. In addition to foreshore areas, there are numerous shallow and shoal areas which appear (on the infrared photography) to be covered very little at near mean low water. These features equal foreshore areas in importance for charts.

In the absence of contemporary sounding data, a green tint shown without a limit line is used to portray these features on charts. This method cannot be used, however, where the features border on foreshore areas. For this survey, foreshore areas and the subject shallow and shoal areas will be shown (on the Registration map copy) as shallow" with the note "tint" included to indicate areas recommended for charting with a green tint. The Registration copy had not been processed at the time of this review.

Submitted by:

). O. Blankenbaker

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

July 11, 1974

GEOGRAPHIC NAMES FINAL NAMES SHEET PH-6910 N (Florida)

TP-00154

Atlantic Ocean

Big Starvation Cove

Blue Hole Creek

Blue Hole Point

Fish House Cove

Florida East Coast RR

Garfield Cut

Garfield Point

Head Cove

Head Cove Pocket

Indian River

Indian River County

Indrio

Prepared by:

Staff Geographer

Jack Island

Little Parks Cove

Negro Cut

Old Inlet

Parks Cove

Round Island

Round Island Creek

Starvation Point

St. Lucie County

St. Lucie County Airport

Viking

				1 05 45	£
1088 FORK 76-40	5-40 U.S. DEPARTMENT OF	,	COMMERCE - NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING	Y.1.7.1.3
PRESCRIBED FROTO 334 VM	RESCRIBED BY NOTENCTION NO. 64. NONFLOAT	LOATING AIDS OR LANDMARKS FOR CHARTS	RKS FOR CHARTS	FIELD INSPECTION	402
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The following	following objects have that not) been inspected from a	sonward to determine their value as landmarks			consible personal
- 1	01	DATUM N.A. 1927	METHOD AND DATE OF	* LOCATION	
STATE FIORIA	17P-00154		(See Instructions on reverse of this form)	se of this form)	
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		1 31 2013.4	1.043.B		<u></u>

		TITLE
1. Objects in space of from spoward	W.H. Shearouse	EX PIETO INSPECTOR
		FIELD INSPECTOR
2. Positions determined and/or varified	. W.H. Shearouse	FIELD EDITOR
	J. Richter'* See below	COMPILER .
3. Farms originated by Quality Control and Review Group and final review activities	Copy checked after typing S. Blankenbaker	REVIEWER GHOUP REPRESENTATIVE GHOUP REPRESENTATIVE
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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. 'Field Positions' are determined by field observations based entirely upon ground control.

	Immodiately benea	c. Sextant	a. Theodolite b. Flunctable	4. Resection	one of our cy r. Dempsey 3. Intersection	Scaled by J. Richter 2. Taverse		RELDERT F- Field	RELD INSPECTION 1. New Position Det	COMPILATION Applicable to office identify the object.	COLUMN TITLE
a. For 'Field Positions' enter the date of location.	Immediately beneath the data describer above, enter the following:		able ,	4. Sextant	on 3. Planetable	2. Theodolite	tion 1. Field identified	P - Photogrammetric	1. New Position Determined—Enter the applicable data by symbols as indicated below:	Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.	TYPE OF ENTRIES
				P.2		F. 3.c		; EXMIPLES:		ind date of the photograph used to	: :

Server for the Carlo

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

* U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.

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

2 OF 45

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NOAA FORM 76-40	U.S. DEPARTME	U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	MOSPHERIC ADMINISTRATION	ORIGINATING ACTIVIT	1V17Y
PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO.	NONFLOA	TING AIDS OR LANDMARKS FOR	CHARTS	FIELD INSPECTION	NON
	ORIGINATING LOCATION	TON	DATE	COMPLATION	
TO BE DELE	Deterso Rockville,	e, Maryland	Nov 10,1973	FINAL REVIEW X OUALITY CONT	FINAL REVIEW OUALITY CONTROL AND FEVIEW
The following objects have (have	is have (have not) been inspected from se	nost) been inspected from seaward to determine their value as landmarks:	الإرجاب الأوانيي المتطاقية بوانسة فيهون المتأثر والمتاثرة والمتاثرة والمتاثرة والمتاثرة والمتاثرة والمتاثرة وا	-111	onsible per ound,
JOS NUMBER PH- 6010	SURVEY NUMBER T	DATUM N.A. 1927	METHOD'AND DATE OF	LOCATION	AND THE PROPERTY OF THE PROPER
1., . 1	da 17P-00154	POSITION	(See instructions on reverse of this form)	of this form)	
CHARTING	DESCRIPTION	CATITUDE LONGITUDE	FIELD COMPILATION	FIELD EDIT	CHARTS AFFECTED
DYBK 11		27 34 55.9980 2034.00		1/25/72	845-80
DYEM 12		7 80 20 25.2		4	14
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toll 02 MBYC	c in place 10/17/72				
1725N 22	-	27 34 44.1 80 20 16.63		10/17/72 P.4	=
E D C	TT GOASTAL WATERWAY TAU TALLIE-ST.LUCIE INLET CTCTT SECTION)INDIAN RIVE	£.	,		
7.7ET 15.		27 34 <u>59.95</u> 80 21 16.47		P.4	845 - .sc
D.BK 161		27 34 36.15 80 21 10.73		1/25/72 P.4	23

TV + OF ACTION	NAME	TITLE
1. Chairs inspected from seaward	W.H. Shearouse	FIELD INSPECTOR FIELD EDITOR
The spring of the designation and the state of the state		FIELD INSPECTOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD 501TOR
	J. Richter * See below	COMPILER .
3. Forms originated by Quality Control and	Copy checked after typing	REVIEWER OUALITY CONTROL AND REVIEW
Keylew Croop and that teview activities	o. Blankenoaker (GROUP REPRESENTATIVE

. TV + OF ACTION		NAME	TITLE
1. Chavis inspected from seaward	W.H. Shearouse		FIELD INSPECTOR
The spring ray to decrease as the or the property was deposit and description of the state of the state of the		-	FIELD INSPECTOR
2. Positions determined and/or verified	W.H. Shearouse		FIELD EDITOR
	J. Richter * S	See below	COMPILER .
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked af S. Blankenbaker	f t	REVIEWER OROUP REPRESENTATIVE
ka dia makampinya si salaman adalah dia makada di da ka ka di makada di da ka di da ka di da ka di da ka di da	INSTRUCTIONS FOR METHOD A	INSTRUCTIONS FOR METHOD AND DATE OF LOCATION' SECTION	
NOTE: 'Photogrammetric Positions' are 'Field Positions' are	'Photogrammetric Positions' are dependent entirely, or in part, upon control established 'Field Positions' are determined by field observations based entirely upon ground control.	centrol established by photogrammetric methods.	c methods.
COLUMN TITLE		. TYPE OF ENTRIES	: .
COMPILATION	Applicable to office identified and located objects of identify the object.	nly.	Enter the number and date of the photograph used to
FIELD INSPECTION	1. New Position Determined-Enter the	1. New Position Determined-Enter the applicable data by symbols as indicated below:	below:
FIGLE FAT	-	P — Photogrammetric	. EXAMPLES:
* Scaled by J. Elchter Checked by P. Dempsey	2. Traverse 3. Intersection	2. Theodolite 3. Planetable	F. 3.c
			P.2
	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 was used in locating the object or the object was ident 	bec above, enter the following:	
	Q	hot above, enter the following: ale of location. enter the date of field work; and, if a photograph the object was identified on a photograph, enter	For 'Photogrammetric Positions' enter the date of field work; and , if a photograph on the number of the photograph used. was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.
	C	hot above, enter the following: ate of location. enter the date of field work; and, if a phore the object was identified on a photograp	tograph h, enter the number of the photograph used.

- 2. Triangulation Station Recovered Enter 'Triang, Rec. mo/day/yr.'
- 3. Position Verified Enter 'Verif. mo/day/yr.'

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

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PRESCRIBED BY PROTOCTION NO.64.	ON NO. 64.	LOATING AIDS OR LANDWARKS	FOR	CHARTS	FIELD INSPECTION	20 -
TITL TO BE CHARTED	ORIGINATING LOCATION	NOIF		DATE	COMPILATION	
9 6	The Open	Rockville, Maryland	land	Nov 10,197		FINAL REVIEW QUALITY CONTROL AND FEVIEW
he following about the following the followi	ioilewing abjects have (have not) been inspected from seavard	eaward to determine their va ue as landmarks	se as tandmarks:		(See reverse for res	See reverse for responsible personnel)
Joв мужеея РН~ 6930		DATUM N.A. 1927		METHOD AND DATE OF	OF LOCATION	
STATE: FLOSTAN	TP- 00154			(See instructions on reverse of this form)	rerse of this form)	
	DESCRIPTION	LATITUDE LOI	LONGITUDE / / / IN OP-METERS IN	FIELD COMPLATION	TION FIELD EDIT	CH4RTS APPECTED
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		·	1			

TY ! OF ASTION	. NAME	TITE
1. C) ects inapaeend from soowerd	W.H. Shearouse	EX FIELD EDITOR
		FIELD INSPECTOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD EDITOR
	J. Richter'* See below	COMPILER .
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing	REVIEWER
Keview Group and tinal review activities	S. Blankenbaker	

		FIELD INSPECTOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD EDITOR
	J. Richter'* See below	COMPILER .
Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing S. Blankenbaker	REVIEWER GROUP REPRESENTATIVE
	INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION	
NOTE: 'Photogrammetric Positions' are d 'Field Positions' are determined by fi	'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.	etric methods.
COLUMN TYPE	. TYPE OF ENTRIES	
COMPILATION	Applicable to office identified and located objects only. Enter the identify the object.	Enter the number and date of the photograph used to
FIELD INSPECTION	i. New Position Determined-Enter the applicable data by symbols as indicated below:	ted below:
FIGLO EDIT	ון . ע	EXAMPLES:
* Scaled by J. Richter Checked by P. Dempsey	 Triangulation Traverse Traverse Theodolite Intersection Planetable 	F. 3.c
·	4. Resection 4. Sextant a. Theodolite b. Planetable	P.2
	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 	photograph
	was used in locating the object or the object was identi	graph, enter the number of the photograph used.
	2. Triangulation Station Recovered - Enter 'Triang. Rec. mo/day/yr.'	

10:1 -1 8/4 76-40 ...- 21)

3. Position Verified - Enter 'Verif, mo/day/yr.' * U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.5

HOAA FORM 76-40	U.S. DEPARTMENT GF	ENT OF CO	COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	OCEANIC AND AT	MOSPHERIC AD	MINISTRATION	ORIGINATING ACTIVITY	71/217
PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		LOATING	NONFLOATING AIDS OR LANDMARKS FOR CHARTS	MARKS FOR	CHARTS		FIELD INSPECTION	NOLL
THE TO BE CHARACTED	ORIGINATING LOCATION	ATION			DATE	(1)	COMPLATION	
TO SE DELETED		Fockv:	111e, Maryla	າກ໔	Nov.	.10,1973	FINAL REVIEW R. QUALITY CONT	FINAL REVIEW QUALITY CONTROL 4ND FRV.EA
own month and solds in the figure of the very large many objects and the second solds are second to determine their value as landmarks. The second solds are second solds and second solds are second solds and second solds are second solds.	noj) been inspected from s	seaward to	determine their valu	e as landmarks:			Ç.	poasible per oute
5 E 1	SURVEY NUMBER T - TP - 17.1	DATUM	A. 1927		METHOD AND DATE (See instructions on rev		OF LOCATION cree of (bis form)	
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NOLDS & C. S.	N. N. ME	TITLE
1. Cityects inspected from seaward	₩.H. Shearouse	TELD INSPECTOR
		FIELD INSPECTOR
2. Positions determined and/or varified	W.H. Shearouse	רופנים פט(דסת
	J. Richter * See below	COMPILER .
 Forms originated by Quality Control and Review Group and final review activities 	Copy checked after typing S. Blankenbaker	TEVIEWER ABOUT REPRESENTATIVE ABOUT REPRESENTATIVE

	-		FIELD INSPECTOR .
2. Positions determined and/or varified	W.H. Shearouse		FIELD EDITOR
	J. Richter * See	below	COMPILER .
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after S. Blankenbaker	er typing	AGYIEWER SHOUP REPRESENTATIVE
	INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION	DATE OF LOCATION' SECTION	
NOTE: 'Photogrammetric Positions' are 'Field Positions' are determined by	'Photogrammetric Positions' are dependent entirely, or in part, upon control established by 'Field Positions' are determined by field observations based entirely upon ground control.	rol established by photogrammetric methods. d control.	methods.
COLUMN TETLE		. TYPE OF ENTRIES	÷
COMPILATION	Applicable to office identified and located objects only. identify the object.		Enter the number and date of the photograph used to
HELD INSPECTION	1. New Position Determined-Enter the applicable data by symbols as indicated below:	icable data by symbols as indicated b	elow:
FIGURE TO THE FIRST CONTRACT OF THE FIRST CO	F - Field	P - Photogrammetric	EXAMPLES:
	1. Triangulation	 Field identified 	
بت. الد: الد:	2. Traverse	2. Theodolite	F. 3,c
uneaked by F. Dempsey	3. Intersection	3. Planetable	
	4. Resection	4. Sextant	P.2
	a. Theodolite		
	b. Planetablec. Sextant		
	Immediately beneath the data describer above, enter the fol-	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 	f location. r the date of field work; and, if a phote	oganh da a d
	was used in locating the object or the	object was identified on 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.'	'Triang, Rec. mo/day/yr.'	
	Z. Inauguation Station Recovered - Entier	inang, kec. mo/day/yr.	

This is mother female (2 mpt)

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

* U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.:

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MONFTOATING AIDS OR LANDWARKS FOR CHARTS PROJECT	2000		THE PROPERTY OF THE PROPERTY O		074 0124 000	CA CIBRHOROME	NOIT AUTOLOGIS	ORIGINATING ACTIVITY	TIVITY
Description of the property Control of t	12-711		The state of the s					T FIELD INSPEC	TION
The billion is been trace	PRESCRIBED PHOTOGRAM)	ļ	ONFLOATING A	IDS OR LAND	MARKS FOR	CHARTS		FIELD EDIT	
	, C	ORIGINATING	LOCATION			DATE		COMPILATION	
The following shiets have these fines from the counter of the co		E DELETED ROCK	ville, Mary	/land			.10,1973	MY QUALITY CON'	FROL AND REVIEW
STATE PLOCATION T. P. DOTSH	The followin	is objects have (have not) been inspected	rom seaward to detr	ermine their value	as landmarks			(See reverse for res	consible personnel)
State Plantida TP-00154	JOB NUMBE PH- KC	C	DATU	1027		METHOD A	ND DATE OF	OCATION	
Силития Силития Latitude Longitude File Compile AFFECTED HOUSE WILTER HE 32(80) 27 30 28.49 90 21 34.00 1.42 3.00 3.27.73 124.7 5.00 1.42 3.00 1.42 5.75 5.75 5.75 5.75 5.75 5.75 5.75 5.7	STATE: TI			POSITION		(See instructi	ons on reverse	of this form)	
MITTE Ht=32(80) WINTE	0.00				GITUDE	ŭ ŭ			CHARTS
HOUSE WHITE Ht=32(80) 27 30 28.49 80 21 1.42	2 B M A Z		\		D.P.METERS	INSPECTION	COMPILATION	FIELD EDIT	
TOURTH WINX MYNX MY TOWER MYNX MY TOWER MY = 475 (512) MOS 1 105 0 8 28 11 28 12 12 12 12 12 12 12 12 12 12 12 12 12		WHITE Ht=32(80)	30	08				P.1 /2/72 70E588	845-SC ~~
WTVX TV Towars 27 32 1402.5 60 22 775.0 1754 12 845.56 H. = 475 (572) 27 32 1402.5 60 22 775.0 #UTVX TV Towar 27 32 1402.5 60 22 775.0 #UDS rabutf in 1966		WIVX / FV / TOWER HE= 475(512)/	33	70	21.92	-		11/13/72/	8 7
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	" • Direct offse	
		FIELD INSPECTOR
2. Positions determined and/or verified	W.Shearouse	FIELD EDITOR
	[. Richter * See below	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	S. Blankenbaker Copy checked after typing	TEVIEWER WY GUALITY 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:

	late of the photograph used to		EXAMPLES:
TYPE OF ENTRIES	Applicable to office identified and iocated objects only. Enter the number and date of the photograph used to identify the object.	ition Determined—Enter the applicable data by symbols as indicated below:	P - Photogrammetric
	Applicable to office identified e identified e	1. New Position Determined-Enter th	F - Field
COLUMN TITLE	COMPILATION	FIELD INSPECTION	FIELD EDIT

	1. New Position Determined-Enter the applicable data by symbols as indicated below:	P - Photogrammetric EXAMPLES:	2. Theodolite F. 3.c	3. Planetable	4. Sextant P.2				Immediately beneath the data described above, enter the following:	s' enter the date of location.	b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph
identify the object.	1. New Position Determined-Enter the applica	F. Field	1. Triangulation 2. Traverse	3. Intersection	4. Resection	a, Theodolite	b. Planetable	c, Sextant	Immediately beneath the data described abo	a. For 'Field Positions' enter the date of location.	b. For 'Photogrammetric Positions' enter the

* Scaled by J. Richter Checked by P. Dempsey

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

U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 RES.#6 3. Position Verified - Enter 'Verif, mo/day/yr.'

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

(2-711 NOAA FORM 76-40

TP-00154 Federal Records Center Data

No Discrepancy Print was submitted to the field editor - refer to the Field Edit Report.

Field Edit Sheet Field Edit Photographs:

70E 5772,5883 thru 5886 70LL6374
Forms 76-40 submitted by the field editor