

Original

TP-00141

TP-00141

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-00141...
Classification No. Final	Edition No.1.....
Field Edited Map	
LOCALITY	
State	Florida
General Locality ..	Brevard County
Locality ..	Lotus to Sherwood Park
1969 TO 1971	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. 00141	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS Final	
				<input type="checkbox"/> REVISED		JOB PH- 6910	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Rockville, Maryland				TYPE OF SURVEY		JOB PH- _____	
OFFICER-IN-CHARGE				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
Commander Wesley V. Hull				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
General-Instructions- OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, June 19, 1973 OFFICE-Supplement I, August 19, 1973 Note: Office and Field Edit Instructions (1973) incorporate applicable prior operational instructions. OFFICE-Supplement II, Sept. 24, 1973				Aerial photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000-General Instructions for Florida Coastal Zone Mapping) 1973			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify) Mean Water Level (See Record of Decisions, page 5)			
3. MAP PROJECTION Transverse Mercator				4. GRID(S)			
5. SCALE 1:10,000				STATE Florida		ZONE East Zone	
				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				I.I. Saperstein		4/71	
				Inapplicable			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY				P.J. Dempsey		5/71	
				Inapplicable			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				J.C. Richter		5/71	
INSTRUMENT: B-8				J.P. Battley, Jr.		5/71	
SCALE: 1:10,000				Inapplicable, Jr.		5/71	
4. MANUSCRIPT DELINEATION PLANIMETRY BY Shoreline: Graphic CHECKED BY				J.C. Richter		6/71	
METHOD:				P.J. Dempsey		6/71	
Interior: Orthophoto mosaic				Inapplicable			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				J. Taylor		6/71	
				J.P. Battley, Jr.		6/71	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				J.P. Battley, Jr.		6/71	
6. APPLICATION OF FIELD EDIT DATA BY				J. Taylor		10/71	
				P.J. Dempsey		11/71	
7. COMPILATION SECTION REVIEW BY				J.P. Battley, Jr.		12/71	
8. FINAL REVIEW BY							
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				S. Blankenbaker-D. Brant		6/73	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				K. J. Lake		8-12-74	

TP-00141

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 E&L 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) <u>COLOR</u> (P) PANCHROMATIC (I) <u>INFRARED B&W</u>		ZONE	<input checked="" type="checkbox"/> STANDARD <input checked="" type="checkbox"/> DAYLIGHT
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Eastern	
				MERIDIAN	
				60th&75th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70L(C)001A & 002A	11-5-70	13:02	1:40,000	The stage of tide is inapplicable for color photography.	
*71L(C)9260-	8-24-71	14:07	1:30,000		
69L3382R - 3385R	8-23-69	10:23	1:30,000	*-0.04 MWL	

REMARKS

**Titusville Tide Station - Banana River

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean water-level line was mapped in lieu of the mean high-water line along the east and west shores of the Indian River and along the west shore of the Banana River. (Refer to the Record of Decisions bound with this report) The source of the mean water-level line is the tide coordinated black and white infrared photography listed in item 1.

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

There is no low-water line shown on this map.

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 TP-00139 TP-00140	EAST TP-00142	SOUTH TP-00143	WEST No contempor- ary survey.
REMARKS *The 1971 color photography was flown for the center span of the Pineda Causeway. Final junctions were made in the Coastal Mapping Section.			

HISTORY OF FIELD OPERATIONS

TP-00141

1. ☒ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

August 1971

See below

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W.H. Shearouse	Sept 1971
See Field Inspection	RECOVERED BY W.H. Shearouse	Apr 1970
2. HORIZONTAL CONTROL Report	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY W.H. Shearouse	Feb 24/70
** See Below	RECOVERED BY W.H. Shearouse	Apr 1971
3. VERTICAL CONTROL	ESTABLISHED BY N.A.	
(Geo Bench Marks)	PRE-MARKED OR IDENTIFIED BY W.H. Shearouse	Apr 1971
	RECOVERED (Triangulation Stations) BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY W.H. Shearouse	Sept 1971
	IDENTIFIED BY W.H. Shearouse	Sept 1971
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	W.H. Shearouse Sept 1971
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY W.H. Shearouse	Sept 1971
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	See field inspection report	70L6583	J230
		70L6584	K230, Z303, A304
		70L6585	P229, Q229, B304, D304
		70L6586	F229, X304
		70L7263	H230

3. PHOTO NUMBERS (Clarification of details)

70L001A, 70L002A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Nonfloating aids were verified or located by sextant fix.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70L002A	TANK	70L002A	Private aids, Day-beacons 7&8 (other private aids located by sextant fix)

5. GEOGRAPHIC NAMES: ☐ REPORT ☐ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

*Field inspection: recovery and pre-marking of control.

Field edit-sextant fixes are in sketchbook No.10.

**Tidal bench marks-established by and location sketches by tide observation party.

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

TP-00141

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No map copies	furnished	to Marine Charts prior to		
final review.				
No map copies furnished	for Nautical	Chart use prior to final review.		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	595 74	5/23/74	Final - One report was submitted for map TP-00141

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 5/25/74
 3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☐ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:
 4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

Record of Decisions
Pertaining to Symbolization of the MWL Datums
Map TP-00141

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water areas it covers are portions of Indian River and Banana River. The datum in Indian River was established by observations at Pineda Tide Station (shown on this map); the datum in Banana River was established by observations at Carters Cut Tide Station (just south of this map).

At both tide stations, the periodic tide was masked by non-tidal forces and the mean range was 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 bulkheads 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 the symbolization for mapping the mean water-level line, apparent shoreline and solid lines for the along-shore manmade features were made November 22, 1972, in Rockville, Maryland, by competent technical and legal officials of NOS and NOAA. NOS was officially represented by Cdr. Wesley V. Hull, Chief, Coastal Mapping Division, and Mr. Carroll I. Thurlow, Chief, Tidal Datum Planes Section of the Oceanographic Division. The official NOAA representative was Mr. Carl Johnson, Staff Attorney, Office of General Counsel. They also examined photographs and field edit reports with respect to inland penetration of small streams and drainages and concluded that those features were properly delineated and symbolized on the map.

Archiving

A copy of this report shall be included in Descriptive Report TP-00141 which will be permanently filed in the Bureau archives.

* See Review Report for clarification of date.

Official Mileage
for Cost Accounts

Sheet No. -Area Sq.Mi.

TP-00133	3
00134	3
00135	6
00136	4
00137	10
00138	5
00139	6
00140	4
00141	6
00142	6
00143	10
00144	2
00145	4
00146	7
00147	6
00148	1
00149	2
00150	5
00151	4
00152	4

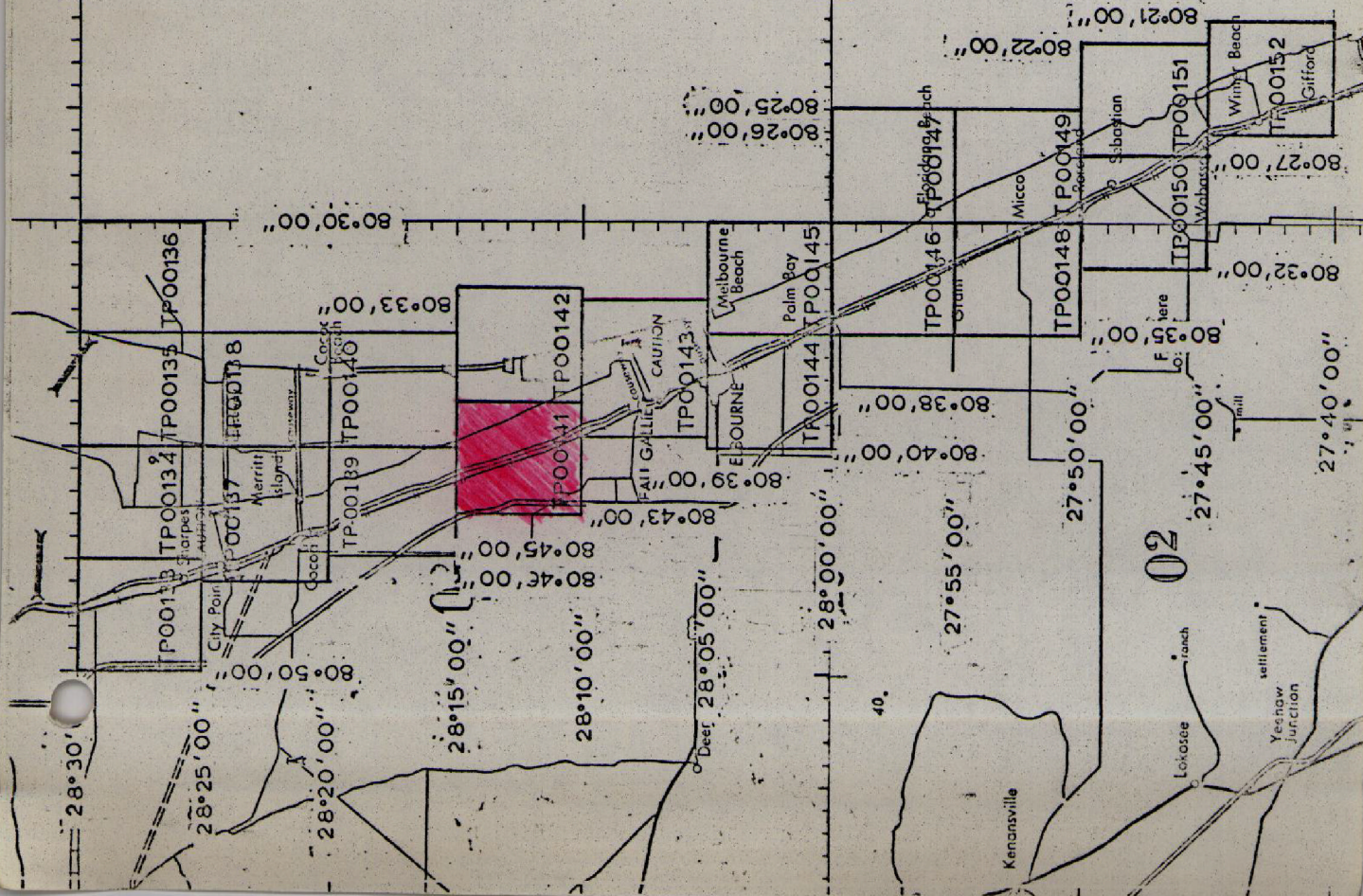
JOB PH-6910

PART 1

CAPE KENNEDY TO JUPITER INLET
FLORIDA

SHORELINE MAPPING

SCALE 10,000



SUMMARY
TP-00133 thru TP-00152

Coastal Zone Map TP-00141 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 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
PREMARKING HORIZONTAL CONTROL
JOB PH-6910, CAPE 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.

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

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

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

STATION No.	NAME	MAP NO.	USGS QUADRANGLE
1	CENTRAL	1950 TP-00136	CAPE CANAVERAL
2	ARTESIA	1953 " "	" "
3	POSE	1966 TP-00138	COCOA BEACH
4	MUNSON	1940 TP-00139	" "
5	PATRICK N. BASE	1960 TP-00140	" "
6	TRIPOD 3	1963 TP-00142	TROPIC
7	COLLEGE 2	1934 TP-00143	" "
8	TURKEY CREEK	1934 TP-00144	MELBOURNE EAST
9	VALKARIA	1966 TP-00146	GRANT
10	SLIP 2	1934 TP-00149	SEBASTIAN NW
11	SEBASTIAN 2	1934 TP-00150	SEBASTIAN
12	SCORPION 2	1961 TP-00153	VERO BEACH
13	RICMAR 2	1960 TP-00154	INDRIO
14	PIERCE 2	1963 TP-00155	FORT PIERCE
15	WHITE 2	1966 TP-00156	" "

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

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

Submitted 2/24/70

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

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

21. Area Covered

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

22. Method

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

23. Adequacy of Control

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

25. Photography

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

Strip 21A -- 69-E(C)-4247 thru 4261
Strip 22 -- 69-E(C)-4185 thru 4194


Strip 23A -- 70-L(C)-9991A thru 004A
Strip 24 -- 70-L(C)-007A thru 015A
Strip 25 -- ~~7062~~-E(C)-5760 thru 5768
Strip 26 --- 70-E(C)-5772 thru 5794

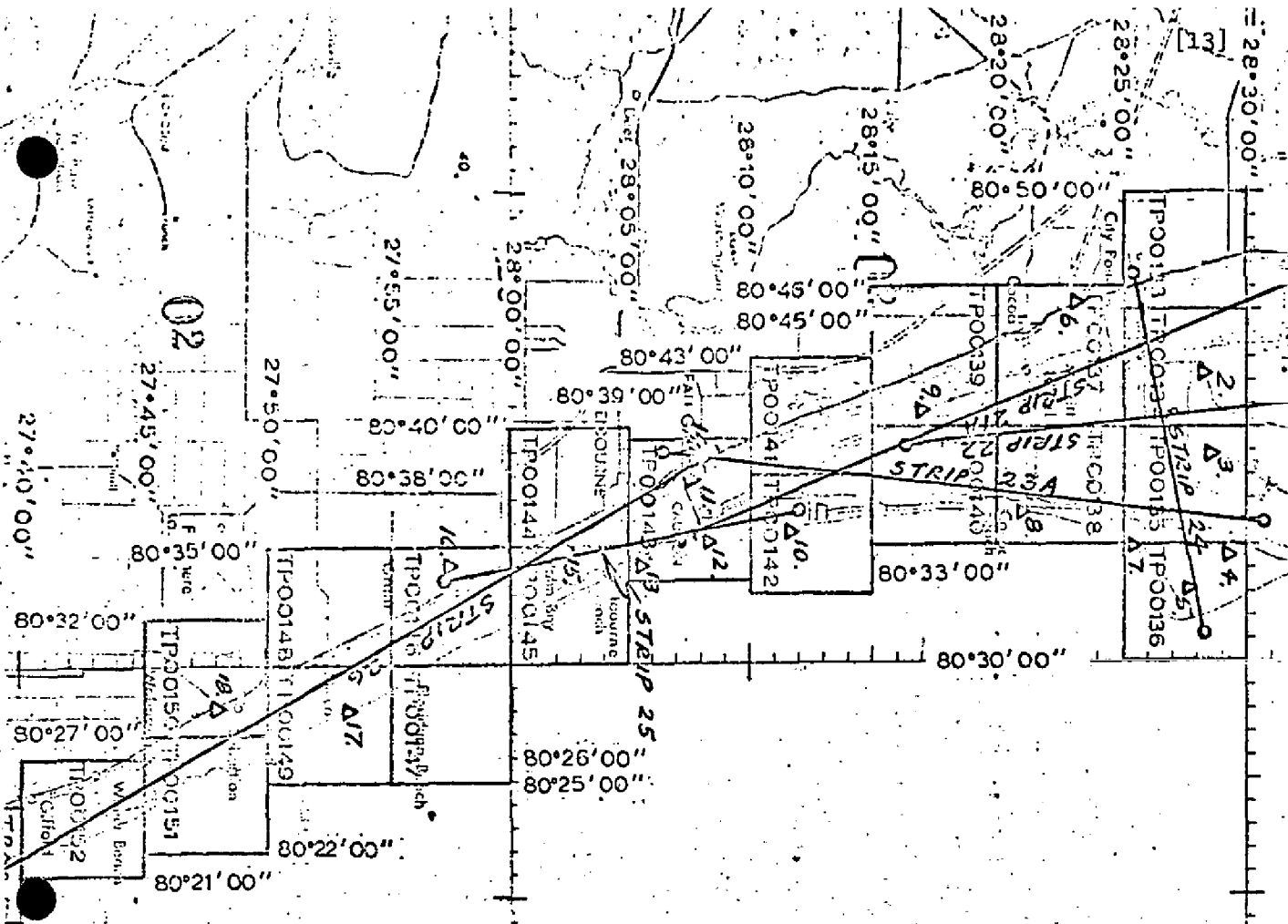
The definition and quality of the photography were good.

Respectfully submitted:


I. I. Saperstein

Approved and forwarded:


Henry P. Eichert, Chief
Aerotriangulation Section



Control

1. Moore RM 3, 1965
2. Courtenay, 1953
3. Paxton, 1960
4. Central, 1950
5. Cape Canaveral L.H. Center, 1934
6. Cocoa City 2, 1957
7. Artesia, 1953
8. Pose, 1966
9. Munson, 1940
10. Tripod 3, 1963
11. College 2, 1906
12. Canova Beach Melbourne Munic. W.T. 1960
13. Indiantic Melbourne E. Munic. W.T. 1960
14. Eau Gallie Munic. W.T. Center, 1934
15. Turkey Creek, 1934
16. Slip 2, 1934
17. Sebastian 2, 1934

Δ Horizontal control used in adjustment

Δ Horizontal control used as check
• 1:40,000 scale color photograph

• 1:70,000 scale color photograph;

JOE P-I-6910

PART 1

CAPE KENNEDY TO JUPITER INLET
FLORIDA

FLORIDA

SI-ORIELINE MAPPING

UNIT 14

Horizontal Control

Map TP-00141

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
AIR, 1940	Book 419, pp. 17, 33, G.P. Fla. Vol. 1, p. 548, P.C. Fla. E. Zone, p. 141
O'HARA, 1940	Book 419, pp. 18, 34, G.P. Fla. Vol. 1, p. 547, P.C. Fla. E. Zone, p. 141
CHRIS, 1940	Book 419, pp. 18, 34, G.P. Fla. Vol. 1, p. 547, P.C. Fla. E. Zone, p. 141

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
F 229	7.507	C&GS disk stamped F 229 1964; 32 ft. E centerline N-bound lane and 4 ft. N of pole No. 71-E-4.
P 229	5.266	C&GS disk stamped P 229 1965; in top of culvert headwall and 45 ft. W centerline S-bound lane.
Q 229	25.912	C&GS disk stamped Q 229 1965; 59 ft. W centerline S-bound lane and 2 ft. N of powerline brace pole.
K 230	8.510	C&GS disk stamped K 230 1965; on top culvert headwall and 48 ft. W centerline of S-bound lane.
CHRIS	9.052	C&GS disk stamped CHRIS 1940; 75 ft. NE of duck pond, 13 ft. SE of SE corner of furnace and on rock ridge.
J 230	6.909	C&GS disk stamped J 230 1965; set in culvert headwall and 31 ft. W of S-bound lane.
D 304	7.257	C&GS disk stamped D 304 1970; 18 ft. W centerline of road and 4.5 ft. N of power pole.
B 304	8.284	C&GS disk stamped B 304 1970; 17 ft. E centerline of road and 1.5 ft. E of pole No. 7.
A 304	8.862	C&GS disk stamped A 304 1970; 44 ft. E centerline of road, 19 ft. N centerline of driveway and 1.5 ft. N of power pole.
Z 303	7.306	C&GS disk stamped Z 303 1970; 23 ft. W centerline of road and 5 ft. NW of power pole with 2 guy wires.

Compilation Report
TP-00141

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 mosaics were controlled by points determined by aerotriangulation.

The shoreline (mean water-level and apparent lines) and offshore features were compiled from office interpreted tide-coordinated black and white infrared photography. This infrared photography was controlled by common planimetric detail and map points compiled from the orthophoto mosaic. The rectified color photography was used as an aid in interpreting culture features and compiling the limits of shallow and shoal areas for Nautical Charts.

Pineda Causeway was under construction at the time the 1970 photography was taken. The field editor was asked for recommendations for mapping the causeway.

32. Horizontal Control

Refer to the photogrammetric report which is a part of this Descriptive Report.

33. Supplemental Data - None.

34. Contours and Drainage

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

35. Shoreline and Alongshore Detail

The infrared photography was adequate for the delineation of the mean water level and apparent lines. Culture features were interpreted from the color photography.

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. Chartist 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 Quadrangle EAU GALLIE, Fla., scale 1:24,000, edition of 1949, contour interval 5 feet.

No significant differences were noted.

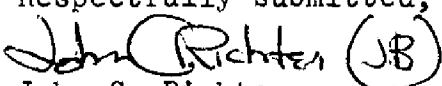
47. Comparison with Nautical Charts

Comparison was made with Nautical Chart No. 843-SC, side B, scale 1:40,000, 8th edition, August 8, 1970, and Nautical Chart 845-SC, Side A, 9th edition, corrected to August 29, 1970.


No significant differences were noted.

Items to be Applied to Nautical Charts Immediately - None.

Items to be Carried Forward - None.

Respectfully submitted,

John C. Richter

Approved and forwarded:


J. P. Battley, Jr.
Chief, Coastal Mapping Section

Field Edit Report, Map TP-00141, Job PH-6910

51. METHODS

The Shoreline of the Indian and Banana rivers was verified visually from a small boat while cruising just offshore. Field notes were made on the photographs at this time. No major discrepancies were noted from the compiled shoreline.

Two Intracoastal waterway lights exist and their positions/^{were} verified by sextant fix. Eight privately maintained daybeacons at the Diamond 99 Marina were located by sextant fix and plotted on the FIELD EDIT SHEET. Form 76-40 accounting for the aids is submitted.

One landmark, presently shown on chart 845-SC, is again recommended and is shown on Form 76-40.

Field edit notes will be found on the 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

The PINEDA CAUSEWAY is under construction and approximately 80% complete. It is recommended that the name be shown.

A complete names investigation was not required and no other new names or conflicts of charted names came to light during the course of field work.

Submitted 9/24/71

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Remarks - Application of Field Edit Data

The field editor recommended taking new photography for mapping the Pineda Causeway, which was under construction at the time of field edit. Color photography was taken and used for the mosaic and for graphic compilation.

Review Report TP-00141
Coastal Zone Map
May 1974

61. General

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

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

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

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

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

62. Registration Copy

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

63. thru 64. Inapplicable.

65. Cartographic Comparison

A comparison was made with this map (TP-00141) and the following USGS quadrangle:

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

No significant differences were noted.

A comparison was made between this map (TP-00141) and the following Nautical Charts:

Nautical Chart 843-SC, 11th edition, dated August 25, 1973,
1:40,000 scale.


Nautical Chart 845-SC, 12th edition, dated September 8, 1973.

No significant differences were noted.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00141 complies with the project instructions for NOS Cooperative Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,

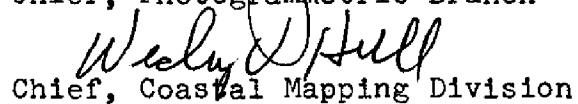


Donald M. Brant

Approved:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

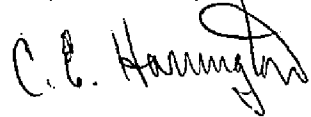
April 23, 1974

GEOGRAPHIC NAMES
FINAL NAMES SHEET
PH-6910 (Florida)

TP-00141

Banana River
Florida East Coast RR
Indian River
Lotus
Mangrove Point
Merritt Island
Palm Shores
Pineda
Pineda Causeway
Plover Point
Sherwood Park

Approved by:



C.E. Harrington
Staff Geographer

U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION											
NONFLOATING AIDS OR LANDMARKS FOR CHARTS											
NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		ORIGINATING LOCATION		DATE		ORIGINATING ACTIVITY					
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE DELETED		Rockville, Maryland		6/12/74		<input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input type="checkbox"/> FINAL REVIEW <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW (See reverse for responsible personnel)					
The following objects have (have not) been inspected from seaward to determine their value as landmarks:											
CHARTING NAME	JOB NUMBER PH-6910 STATE of Florida	SURVEY NUMBER T- TP-00141	DESCRIPTION	DATUM N.A. 1927			METHOD AND DATE OF LOCATION (See instructions on reverse of this form)			CHARTS AFFECTED	
				POSITION		FIELD INSPECTION	COMPILATION	FIELD EDIT			
				LATITUDE	LONGITUDE						
				° /	0	" /	D.M. METERS	"	D.M. METERS		
LIGHT			MOSQUITO LAGOON-EAU GALLEE INDIAN RIVER(NORTH SECTION)	28 13	80 39	2.70	17.90		70L001A 11/5/70	P-4 Verif. 9/21/71	843-SC Side B
LIGHT				28 10	80 38	83.0 16.44 506.0	488.0 6.85 187.0		70L002A 11/5/70	P-4 Verif. 9/21/71	845-SC Side A
DYBN			DIAMOND 99 MARINE CHANNEL DAYBEACON(PRIVATE AIDS)	28 10	80 38	46.55	48.43			P.4 9/21/71	"
DYBN			Daybeacon 1	28 10	80 38	1433	1321			"	"
DYBN			Daybeacon 2	28 10	80 38	47.07	48.79			"	"
DYBN			Daybeacon 3	28 10	80 38	1449 44.31	1331			"	"
DYBN			Daybeacon 4	28 10	80 38	1364	50.59			"	"
DYBN			Daybeacon 5	28 10	80 38	44.86	1380			"	"
DYBN			Daybeacon 6	28 10	80 38	1381	51.40			"	"
DYBN				28 10	80 38	42.17	1402			"	"
DYBN				28 10	80 38	1298	53.16			"	"
DYBN				28 10	80 38	42.62	1450			"	"
DYBN				28 10	80 38	1312	53.85			"	"
DYBN				28 10	80 38		1460			"	"

1. Objects inspected from seaward	William H. Shearouse		<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	William H. Shearouse		FIELD INSPECTOR
	John C. Richter		FIELD EDITOR
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant		<input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> 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 and located objects only. Enter the number and date of the photograph used to identify the object.

FIELD INSPECTION
AND

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

FIELD EDIT

F — Field

P — Photogrammetric

EXAMPLES:

1. Triangulation

1. Field identified

2. Traverse

2. Theodolite

F. 3.c

3. Intersection

3. Planetable

4. Resection

4. Sextant

P. 2

a. Theodolite

b. Planetable

c. Sextant

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/yr.'

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

[illegible]

1. Objects inspected from seaward	William H. Shearouse		<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	William H. Shearouse		FIELD INSPECTOR
	John C. Richter		FIELD EDITOR
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant		<input type="checkbox"/> COMPILER <input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> 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 and located objects only. Enter the number and date of the photograph used to identify the object.

FIELD INSPECTION

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

AND
FIELD EDIT

F - Field

1. Triangulation
2. Traverse
3. Intersection
4. Resection

- a. Theodolite
- b. Planetable
- c. Sextant

P - Photogrammetric

1. Field Identified
2. Theodolite
3. Planetable
4. Sextant

EXAMPLES:

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 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/yr.'

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

[illegible]

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	William H. Sherouse	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	William H. Sherouse	FIELD INSPECTOR
	John C. Richter	FIELD EDITOR
3. Forms originated by Quality Control and Review Group and final review activities		COMPILER <input type="checkbox"/> REVIEWER <input type="checkbox"/> 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 and located objects only. Enter the number and date of the photograph used to identify the object.

FIELD INSPECTION

AND

FIELD EDIT

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

F — Field	P — Photogrammetric
1. Triangulation	1. Field identified
2. Traverse	2. Theodolite
3. Intersection	3. Planetable
4. Resection	4. Sextant
a. Theodolite	
b. Planetable	
c. Sextant	

EXAMPLES:

F. 3.c
P. 2

Immediately beneath the data described above, enter the following:

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

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

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

TP-00141
Data Forwarded to Federal Record Center

- 1 Field Edit Sheet
- 1 Discrepancy Print
- 1 Form 76-36C (History of Field Operations)
- 3 Form 76-40 (Nonfloating Aids or Landmarks for Charts)

Photography:

Scale 1:10,000
70L(C)001A and 002A
Contact scale
70L6583 thru 6586 and 70L7263