

original

TP-00144

TP-00144

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-00144...
Classification No. Final	Edition No. ...1.....
Field Edited Map	
LOCALITY	
State Florida.....	
General Locality ... Brevard County.....	
Locality Crane Creek to.....	
..... Turkey Creek.....	
<hr/> 1969 TO 1971 <hr/>	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. <u>00144</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB PH. <u>6910</u>	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
PHOTOGRAMMETRIC OFFICE Rockville, Maryland				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
OFFICER-IN-CHARGE Commander Wesley V. Hull							
I. INSTRUCTIONS DATED							
1. OFFICE 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				2. FIELD 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 checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify) Mean water-level (refer to the Record of Decisions bound with this report).			
3. MAP PROJECTION				4. GRID(S)			
				STATE Florida		ZONE East	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY				I.I. Saperstein		12/70	
				Inapplicable			
2. CONTROL AND BRIDGE POINTS METHOD: <u>Coradomat</u> PLOTTED BY				P.J. Dempsey		1/71	
				Inapplicable		3/	
3. STEREOSCOPIC INSTRUMENT COMPIATION INSTRUMENT: <u>B-8</u> SCALE: <u>1:10,000</u> PLANIMETRY BY				J.C. Richter		3/71	
				J.P. Battley, Jr.		3/71	
				Inapplicable			
4. MANUSCRIPT DELINEATION Shoreline: <u>Graphic</u> METHOD: Interior: <u>Orthophoto Mosaic</u> SCALE: <u>1:10,000</u> PLANIMETRY BY				J.C. Richter		3/71	
				J.P. Battley, Jr.		3/71	
				Inapplicable			
				J. Taylor		4/71	
				J.P. Battley, Jr.		4/71	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT				J.P. Battley, Jr.		4/71	
				J.C. Richter		7/71	
6. APPLICATION OF FIELD EDIT DATA				J.P. Battley, Jr.		7/71	
				R.A. Youngblood		8/71	
7. COMPILATION SECTION REVIEW				J.P. Battley, Jr.		10/71	
8. FINAL REVIEW							
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH				D. Brant		6/74	
11. MAP REGISTERED - COASTAL SURVEY SECTION				K.J. <u>1008</u>		8-12-74	

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

TP-00144

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 Camera E&L 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) <u>COLOR</u> (P) <u>PANCHROMATIC</u> (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	
				60th&75th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70E(C)5790 & 5791	2/10/70	10:46	1:40,000	The stage of tide is inapplicable for color photography Range 0.30 *-0.31MHW	
69L3376 & 3377	8/23/69	10:20	1:30,000		

REMARKS

*Sebastian, Indian River

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high-water line is the tide-coordinated black and white infrared photography listed in item 1.

The source of the mean water-level line shown along the shores of Crane Creek and Turkey Creek is the tide coordinated black and white infrared photography listed in item 1. (Refer to the Record of Decisions, bound with this report.)

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

There is no mean 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	EAST	SOUTH	WEST
TP-00143	TP-00145	No contemporary survey.	No contemporary survey.

REMARKS

Final junctions were made in the Coastal Mapping Section.

HISTORY OF FIELD OPERATIONS

TP-00144

I. ☒ FIELD INSPECTION OPERATION *See below ☒ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W.H. Shearouse	5/71
2. HORIZONTAL CONTROL	RECOVERED BY W.H. Shearouse ESTABLISHED BY Inapplicable PRE-MARKED OR IDENTIFIED BY Inapplicable	5/71
3. VERTICAL CONTROL	RECOVERED BY W.H. Shearouse ESTABLISHED BY Inapplicable PRE-MARKED OR IDENTIFIED BY W.H. Shearouse	4/71
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY W.H. Shearouse LOCATED (Field Methods) BY W.H. Shearouse IDENTIFIED BY W.H. Shearouse	4/71 5/71 5/71
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY W.H. Shearouse <input type="checkbox"/> NO INVESTIGATION	5/71
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY W.H. Shearouse	5/71
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	*Refer to Field Inspection Report.	70E5790 70E5791	L171, F33 P60, P132, 10.55 (FSRD) M171, PETER WRIGHT

3. PHOTO NUMBERS (Clarification of details)

70E5789 thru 5791

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Aids to navigation are plotted on FIELD EDIT SHEET No. 2.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70E5790	RADIO MAST (MELBOURNELOR FLORIDA STATE POLICE RADIO MAST 1960)		MICROWAVE TOWER (MELBOURNE SOUTHERN BELL MICROWAVE TOWER, 1960)
70E5791	RADIO MAST(MELBOURNE WMBM RADIO TOWER 1948)		

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)

*See Field Inspection Report bound with this report.
Sketchbook No. 1, Graphic Sextant fixes.

TP-00144

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No copies of Map TP-00144 were furnished to the Marine Chart				
Division 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	769 74	6/28/74	Final - One report was submitted for map TP00144

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 6/28/74
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 MHW, MLW, and MWL Datums
Map TP-00144

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water areas it covers are Crane Creek, Turkey Creek, and a portion of Indian River. The tidal datum in Indian River was established by observations at Melbourne Tide Station (just north of this map) and Palm Bay Tide Station (just east of this map).

Since the mean range at both stations was approximately 0.2 foot, the standard mean high-water line symbolization was used for delineating the Indian River mean high-water line. The mean low-water line was not mapped because Federal/State boundary problems are not applicable to those waters and for charting purposes, the lines would be synonymous because of the map scale and slope of the beach.

Restrictions in the entrances to Crane Creek and Turkey Creek which reduce the range of the tide from Indian River's 0.2 foot mean range to a significantly lesser range in the creeks, were noted on the aerial photographs and NOS charts. 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 of Crane and Turkey Creeks; 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. The shoreline symbolizations at the heads of Crane and Turkey Creeks were left open to indicate the interior limits of field inspection up these creeks.

* Decision Responsibility for Shoreline Symbolization

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

* See Review Report for clarification of date.

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

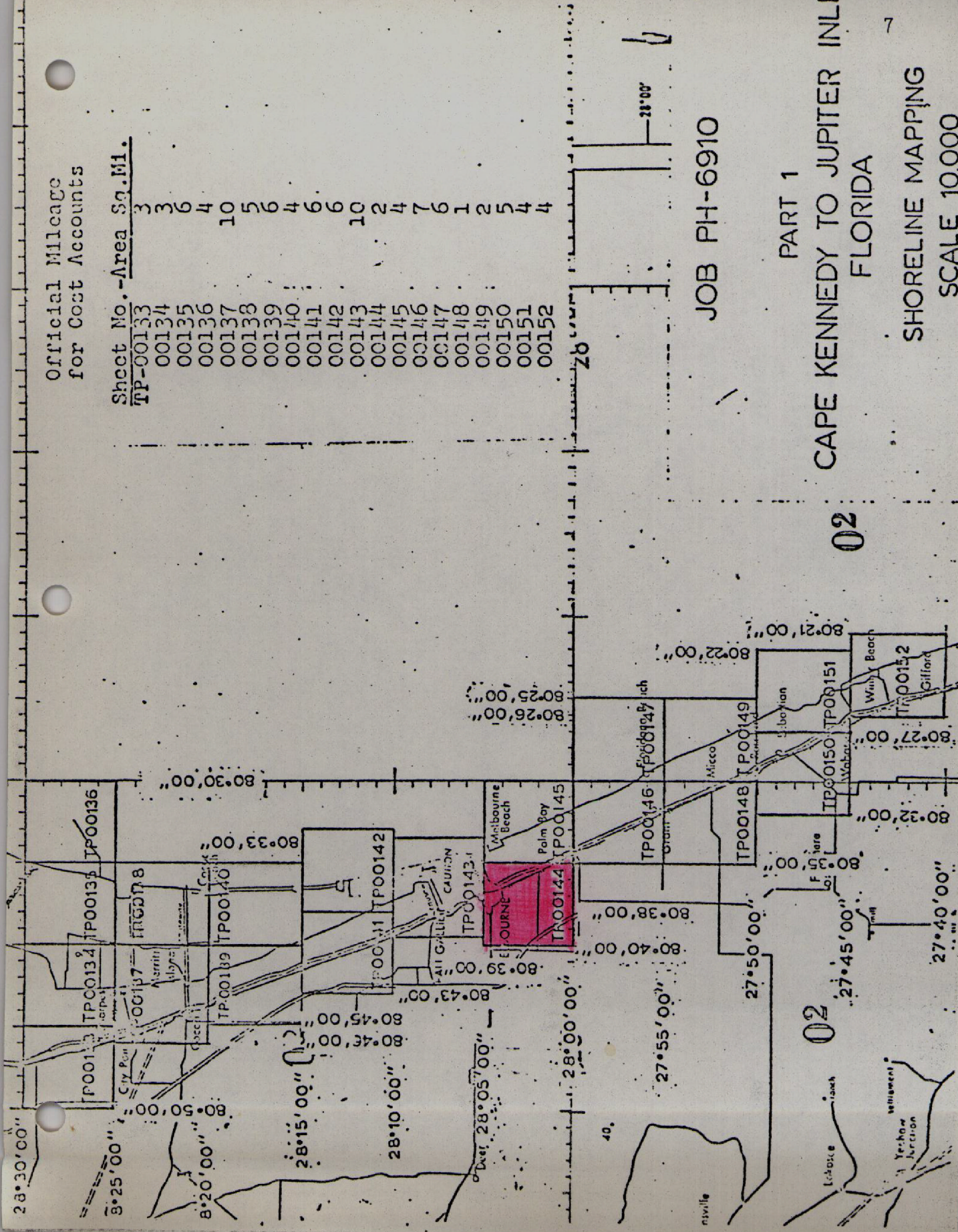
Archiving

A copy of this report shall be included in Descriptive Report TP-00144 which will be permanently filed in the NOS Archives.

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-00144 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 L, 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	GOVEZ
20	CISTERN	1956	TP-00163	HOEE 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 Dec 1967
Strip 22 -- 69-E(C)-4185 thru 4194 Dec 1967

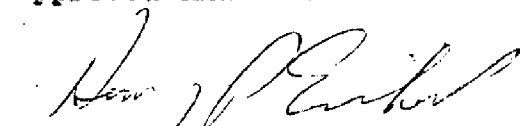
Strip 23A -- 70-L(C)-9991A thru 004A
Strip 24 -- 70-L(C)-007A thru 015A
Strip 25 -- ~~70-L~~-E(C)-5760 thru 5768
Strip 26 --- 70-E(C)-5772 thru 5794

The definition and quality of the photography were good.

Respectfully submitted:


I. I. Saperstein

Approved and forwarded:


Henry P. Eichert, Chief
Aerotriangulation Section

17. Sebastian 2, 1934

• 1:40,000 scale color photography

SHORELINE MAPPING

Horizontal Control

Map TP- 00144

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
MELBOURNE SOUTHERN BELL MICROWAVE TOWER, 1960	Write Director, National Geodetic Survey
PETER WRIGHT	" " " " "
MELBOURNE RADIO STATION WMMB TOWER, 1948	" " " " "
MELBOURNE FLORIDA STATE PATROL RADIO MAST, 1960	" " " " "

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
P 60	20.905	C&GS disk stamped P 60 1934; at base W abutment of steps, 1.2 ft. W of W face.
P 132	21.936	C&GS disk stamped P 132 1953; top E end N abutment of trestle.
PETER WRIGHT	20.118	C&GS disk stamped PETER WRIGHT 1906; 52 ft. E of SE corner of bldg., 17 ft. N of N of 3 palms.
10.55 (FLA. S.R.D.)	10.571	Fla. St. Rd. Dept. disk stamped 10.55; top W abutment of bridge, 13½ ft. S highway centerline.
F 33	18.494	C&GS disk stamped F 33 1933 18.537; 34 ft. E of E rail, 24 ft. SW of 14-inch palm, 2 ft. N of witness post.
M 171	21.411	C&GS disk stamped M 171 1958; 18 ft. E of E rail, 30 ft. N of street centerline.
L 171	21.690	C&GS disk stamped L 171 1958; 28 ft. E of E rail, 83 ft. NE of concrete signal base, 70 ft. SW of SW rail of spur track.

Compilation Report
TP-00144

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 tidal datum lines and any offshore features on this map were compiled from office interpreted tide coordinated black and white infrared photography. The rectified color photography was used as an aid for interpreting culture features and compiling the limits of shallow and shoal areas for Nautical Charts. The tide coordinated black and white infrared photography was controlled by common planimetric features and map points determined by aerotriangulation.

32. Horizontal Control

Refer to the Photogrammetric Plot Report which is a part of this Descriptive Report.

33. Supplemental Data - None.

34. Contours and Drainage

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

35. Shoreline and Alongshore Detail

The mean high-water line was mapped along the west shore of a portion of the Indian River.

The mean water-level line was mapped along the shores of Crane Creek and Turkey Creek.

The offshore spoil banks are subject to continual change in size and position.

The photography was adequate for compilation.

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 Melbourne East, Fla., scale 1:24,000, dated 1949, contour interval 5 feet.

No significant changes were noted.

47. Comparison with Nautical Charts

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

No significant changes were noted.

Items to be Applied to Nautical Charts Immediately - None.

Items to be Carried Forward - None.

Respectfully submitted,

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

Approved and forwarded,

K. N. Maki

K. N. Maki
Chief, Coastal Mapping Section

Field Edit Report, Map TP-00144, Job PH-6910

51. METHODS

Shoreline delineation was visually verified from a small boat running close to shore. Notes were made on the ratioed photographs where changes of line weights, from the heavy mean water line to apparent shoreline or light weight line, is indicated by marsh and mangrove limits. Alongshore structures were also classified.

Landmarks presently charted should be retained and Form 567 is submitted. The "MICRO TOWER" shown on chart 845-SC with the P. A. circle should be changed to the conventional 2.5 mm size as its location is accurate. No new landmarks are recommended.

Sextant fixes were taken at each daybeacon. These were plotted on FIELD EDIT SHEET NO. 2 and Forms 567 prepared for them.

The daybeacons leading into the Melbourne harbor remain about as previously charted, except for No. 8, although the numbering system has changed. The Form 567 clarifies this. The range lights for this channel were relocated and a point on range determined by sextant fix. It is shown graphically on F. E. Sheet No. 2 but the azimuth was not determined.

Daybeacons in the Intracoastal Waterway in this general area have been rebuilt in recent years using concrete piles instead of wood. Their positions have also changed somewhat as indicated by the sextant fixes. Lights found so far are the old type structure and the 1970 bridging positions were used in the fixes with good results.

Aids that "moved" were lined out on the Form 567 furnished from Rockville and listed on a new Form 567 indicating the necessity of a revised position.

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

Also, all triangulation stations were searched for and reported on Form 526. Station MELBOURNE MOTEL DOME 1930 should be removed from the map manuscript as it no longer exists.

Field edit notes will be found on the ratio photographs, the Discrepancy Print ^{and} of the FIELD EDIT 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

Not required.

56. GEOGRAPHIC NAMES

A complete names investigation was not made but no conflicts came to light during the course of the work, nor were any new names found.

Submitted 5/18/71

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Review Report TP-00144
Coastal Zone Map
June 1974

61. General

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

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

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

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

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

62. Registration Copy

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

63. thru 64. Inapplicable.

65. Cartographic Comparison

A comparison was made with map TP-00144 and the following USGS quadrangle:

Melbourne East, Florida, 1949, photorevised 1970, scale 1:24,000.

No significant changes were noted.

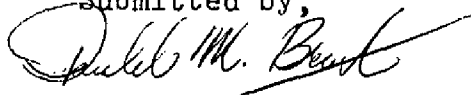
A comparison was made with Map TP-00144 and Nautical Chart 845-SC, 12th edition, dated September 8, 1973.

The comparison showed differences in piers and pier ruins along the west shore of the Indian River. No mention was made by the field edit of 1971 about these differences.

66. Adequacy of Results and Future Surveys


Coastal Zone Map TP-00144 complies with project instructions for NOS Cooperative Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,

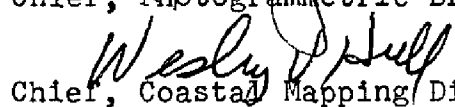


Donald M. Brant

Approved:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

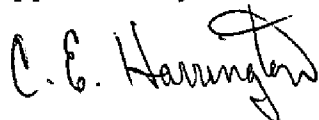
June 3, 1974

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

TP-00144

Crane Creek
Florida East Coast RR
Indian River
Melbourne
Melbourne Causeway
Palm Bay
Turkey Creek

Approved by:



C. E. Harrington
Staff Geographer

NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		NONFLOATING AIDS OR LANDMARKS FOR CHARTS		ORIGINATING ACTIVITY <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)			
TO BE CHARTED <input checked="" type="checkbox"/>		TO BE DELETED <input type="checkbox"/>		ORIGINATING LOCATION Rockville, Maryland		DATE 6/5/74			
JOB NUMBER PH-6910		SURVEY NUMBER T-TP-00144		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)			
STATE: Florida		DESCRIPTION		POSITION		CHARTS AFFECTED			
CHARTING NAME		LATITUDE	LONGITUDE	POSITION		FIELD INSPECTION	COMPILATION	FIELD EDIT	
				D.M.METERS	D.M.METERS				
LIGHT	MELBOURNE ENTRANCE RANGE FRONT LIGHT	28 04	80 35	30.89	58.53			P-4 5/10/71	845-SC
LIGHT	MELBOURNE ENTRANCE RANGE REAR LIGHT	28 04	80 36	951.0	1598.0			P-4 5/10/71	"
DYBN	MELBOURNE CHANNEL Daybeacon 1	28 04	80 35	30.77	2.38			P-4 5/10/71	"
DYBN	Daybeacon 2	28 04	80 35	947.0	65.0			P-4 5/10/71	"
DYBN	Daybeacon 3	28 04	80 35	31.22	40.65		*	P-4 5/10/71	"
DYBN	Daybeacon 4	28 04	80 35	961.0	1110.0			P-4 5/10/71	"
DYBN	Daybeacon 5	28 04	80 35	32.71	40.65		*	P-4 5/10/71	"
DYBN	Daybeacon 6	28 04	80 35	1007.0	1110.0			P-4 5/10/71	"
DYBN	Daybeacon 7	28 04	80 35	30.70	49.11		*	P-4 5/10/71	"
DYBN	Daybeacon 8	28 04	80 35	945.0	1341.0			P-4 5/10/71	"
DYBN	Daybeacon 9	28 04	80 35	32.20	49.44			P-4 5/10/71	"
DYBN	Daybeacon 10	28 04	80 35	991.0	1350.0			P-4 5/10/71	"
DYBN	Daybeacon 11	28 04	80 35	30.23	54.9		*	P-4 5/10/71	"
DYBN	Daybeacon 12	28 04	80 35	930.5	1499.0			P-4 5/10/71	"
DYBN	Daybeacon 13	28 04	80 35	31.84	55.54		*	P-4 5/10/71	"
DYBN	Daybeacon 14	28 04	80 35	980.0	1516.5			P-4 5/10/71	"
DYBN	Daybeacon 15	28 04	80 35	32.36	57.28			P-4 5/10/71	"
DYBN	Daybeacon 16	28 04	80 35	996.0	1564.0			P-4 5/10/71	"
DYBN	INDIAN RIVER(SOUTH SECTION) Daybeacon 6	28 04	80 35	40.35	20.80		*	P-4 5/10/71	24
DYBN	Daybeacon 6	28 04	80 35	1242.0	568.0			P-4 5/10/71	"

RESPONSIBLE PERSONNEL		TITLE
TYPE OF ACTION	NAME	
1. Objects inspected from seaward	W.H. Shearouse	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD INSPECTOR
	J.C. Richter	FIELD EDITOR
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	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

COMPLIATION

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

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. #

[illegible]

RESPONSIBLE PERSONNEL		TITLE	
TYPE OF ACTION	NAME		
1. Objects inspected from seaward	W.H. Shearouse	<input type="checkbox"/> FIELD INSPECTOR	<input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD INSPECTOR	
	J. 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
AND

FIELD EDIT

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

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 of 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.'

TP-00144
Data Forwarded to Federal Records Center

- 1 Field edit sheet (dated May 1971)
Field edit sheet #2 showing plotted positions of nonfloating
aids is lost.
 - 1 Discrepancy Print
 - 1 Form 76-36C(History of Field Operations)
 - 3 Forms 76-40 (Nonfloating Aids or Landmarks for Charts)
 - 1 Sketchbook Vol. 1 (TP-00144 and TP-00145)
- Photography is filed with TP-00145
- 2 Graphic sextant fixes sheets