

original

TP-00150

TP-00150

NOAA FORM 76-33	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Type of Survey ...Coastal Boundary.....	
Job No. ...PH-6810.....	Map No. TP-00150.....
Classification No. Final	Edition No.1.....
Field Edited Map	
LOCALITY	
StateFlorida.....	
Brevard and Indian	
General Locality ..River Counties.....	
LocalitySebastian.....	
.....	
<hr/> 1970 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>00150</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PH-6910</u>	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB <u>PH-_____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland				OFFICER-IN-CHARGE Commander Wesley V. Hull			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, 6/19/73 OFFICE-Supplement 1, 8/10/73 NOTE:Office and Field Edit Instr. (1973) incorporate applicable,prior operational instructions.				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 Record of Decisions)			
3. MAP PROJECTION Transverse Mercator				4. GRID(S) STATE <u>Florida</u> ZONE <u>East</u> STATE <u> </u> ZONE <u> </u>			
5. SCALE 1:10,000							
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY				Don Brant		12/70	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY				P.J. Dempsey		1/71	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				J.C. Richter		4/71	
INSTRUMENT: <u>B-8</u> CONTOURS BY				M.C. Webber		4/71	
SCALE: <u>1:10,000</u> CHECKED BY				Inapplicable			
4. MANUSCRIPT DELINEATION PLANIMETRY BY Shoreline:Graphic CHECKED BY				J.C. Richter		4/71	
METHOD: <u>Interior:Orthophoto mosaic</u> CONTOURS BY				M.C. Webber		4/71	
SCALE: <u>1:10,000</u> CHECKED BY				Inapplicable			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				J. Taylor		5/71	
6. APPLICATION OF FIELD EDIT DATA BY				J.P. Battley, Jr.		5/71	
7. COMPILED SECTION REVIEW BY				J.C. Richter		7/71	
8. FINAL REVIEW BY				M.C. Webber		7/71	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				M.C. Webber		8/71	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				J.P. Battley, Jr.		9/71	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				D. Brant		6/74	
				R. J. Coen		8-12-74	

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

TP-00150

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) E&L 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED <u>B&W</u>		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 60th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70E(C)5780 - 5781	2/10/70	13:39	1:40,000	The stage of tide is inapplicable for color photography.	
70L8915R - 8916R - 8917R	2/10/70	12:05	1:20,000	+0.15 MHW*	

REMARKS

*Sebastian Indian River Tide Station.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high-water line is the tide coordinated black and white infrared photography dated 2/10/70 listed in item 1. The source of the mean water-level line along the shores of Sebastian Creek is the color photography dated 2/10/70 listed in item 1. There was no infrared photography covering this portion of Sebastian Creek. The shoreline was field edited in June 1971.

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

There is no mean low-water line shown on this map (refer to the Record of Decisions).

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

5. FINAL JUNCTIONS

NORTH	TP-00148	EAST	TP-00149	SOUTH	No	WEST	No
	TP-00149		TP-00151		contemporary survey		No contemporary survey

REMARKS

Final junctions were made in the Coastal Mapping Section

TP-00150

HISTORY OF FIELD OPERATIONS

- 1.
- ☒
- FIELD INSPECTION OPERATION *See below
- ☒
- FIELD EDIT OPERATION, June 1971

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

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

NONE

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Refer to Field Report	70E5780	D200
		70E5781	Z200, F200, W199, X199, C200
			J227

3. PHOTO NUMBERS (Clarification of details)

70E5780, 5781

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Nonfloating gaids and landmarks for charts were located by sextant fix and plotted on rectified photographs.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70E5781	MAST		

5. GEOGRAPHIC NAMES:
- ☐
- REPORT
- ☒
- NONE

6. 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)

Sketchbook No. 4, Graphic Sextant fixes

*Refer to Field Report bound with this report.

TP-00150

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No mNo copies of this map furnished to Nautical Charts 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	

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	

5

Record of Decisions
Pertaining to Symbolization of the MHW, MLW and MWL Datums
Map TP-00150

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water areas it covers are portions of Indian River and Sebastian Creek. The tidal datum in Indian River was established by observation at Sebastian Indian River Tide Station, which has a mean range of approximately 0.3 foot. The mean high-water line was shown for that area. Mean low-water was not shown, but shallow areas were shown on a vault copy of the manuscript because of its appropriateness to charting in this portion of Indian River.

As reported for TP-00148, the tide in Sebastian Creek was masked by nontidal forces and the mean range of tide was substantially less than two-tenths of a foot; in this situation, the mean high/low-water datums converge and, for mapping purposes, the mean high- and mean low-water lines are indistinguishable. Consequently, special treatment was given to the portrayal of the Sebastian Creek shoreline; the mean water-level line was mapped in lieu of the mean high-water line and shown by a distinctive symbol.

* Decision Responsibility for Shoreline Symbolization

Specific decisions as to where the symbolization for mapping mean high-water, mean water-level, apparent shoreline and solid lines for along-shore manmade features were made January 10, 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, rendered decisions on tidal datum matters.

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-00150 which will be permanently filed in the NOS 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

204
791
08

JOB PH-6910

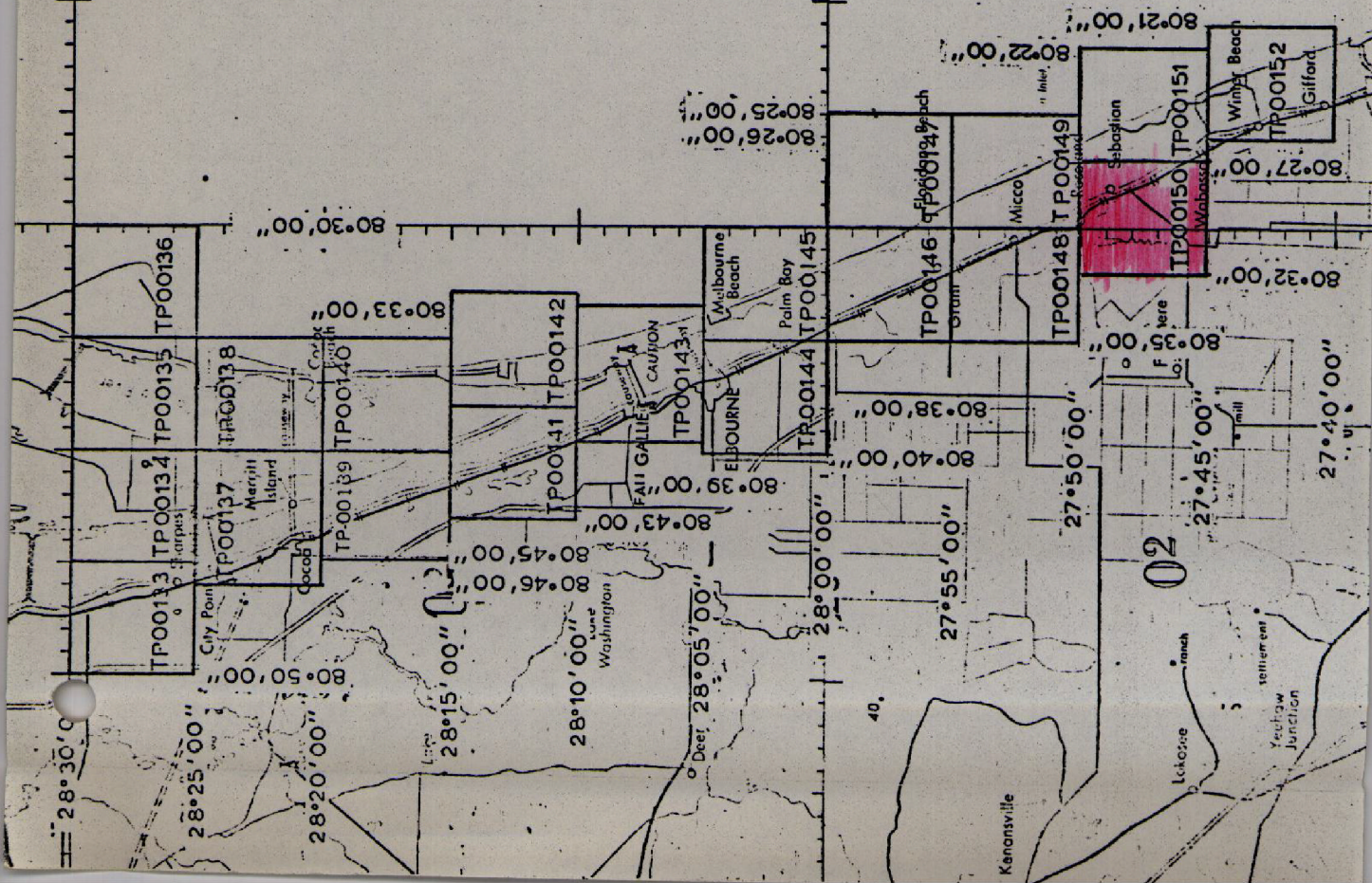
PART 1

CAPE KENNEDY TO JUPITER INLET
FLORIDA

SHORELINE MAPPING

SCALE 10,000

02



SUMMARY
TP-00133 thru TP-00152

Coastal Zone Map TP-001 50 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	COCCA 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	GGMEZ
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
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 -- ~~70~~68-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

1. Moore RM 3, 1963
2. Courtenay, 1953
3. Paxton, 1960
4. Central, 1950
5. Cape Canaveral L. H. Center, 1934
6. Cocoa City 2, 1957
7. Artesia, 1955
8. Pose, 1966
9. Munson, 1940
10. Tripod 3, 1963
11. College 2, 1906
12. Canova Beach Melbourne Munic. W. T. 1960
13. Indialantic 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

- ▲ Horizontal control used in adjustment
- △ Horizontal control used as check
- 1:40,000 scale color photography

JOB #1-6910

PART 1

CAPE KENNEDY TO JUPITER INLET
FLORIDA

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13

SHORELINE MAPPING

Horizontal Control

Map TP— 00150

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
SEBASTIAN 2, 1906	Book 420, pp. 7, 8, 26, G.P. Fla. Vol. 1, p. 154, P.C. Fla. E. zone, p. 19.

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
TIDAL 1	5.210	C&GS disk stamped NO. 1 1969; at S side of boat landing slip, 1.1 ft. S of N end of seawall.
C 200	18.045	C&GS disk stamped C 200 1960; 15 ft. W of milepost 216, 31 ft. W of W rail, 24.5 ft. NE of centerline of road.
D 200	17.776	C&GS disk stamped D 200 1960; 78 ft. NE of center of road and E rail, 28.2 ft. E of E rail.
F 200	19.701	C&GS disk stamped F 200 1960; 66 ft. NW from centerline of road and W rail, 40.5 ft. W of W rail.
Z 200	23.255	C&GS disk stamped Z 200 1960; 15.2 ft. NE of NE rail, in top of 25 ft. x 2 ft. concrete base.
W 199	17.155	C&GS disk stamped W 199 1960; 95 ft. W of centerline of road and W rail, 24.5 ft. S of centerline of road.
X 199	23.540	C&GS disk stamped X 199 1960; 37 ft. NW of centerline of road, at power line crossing.
J 227	22.136	C&GS disk stamped J 227 1965; 253 ft. NW from intersection of Fleming St. and airport road, 33 ft. NE of airport road.
SEBASTIAN 2	15.814	C&GS triangulation disk unstamped; 7.3 ft. S of S curb of Main St., 40.5 ft. W of NW corner of bldg., 8 in. below ground.

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
SEBASTIAN TIDAL 1	5.210	(*)
SEBASTIAN TIDAL 2	5.253	(*)
SEBASTIAN TIDAL 3	10.200	(*)
SEBASTIAN TIDAL 4	10.364	(*)
SEBASTIAN TIDAL 5	5.131	(*)

* Description given under Tidal Bench Marks.

Compilation Report
TP-00150

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 bound with this Descriptive 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 mean high-water line was compiled along the west shore of the Indian River using tide coordinated black and white infrared photography. The mean water-level line was compiled along the shores of Sebastian Creek using color photography. This was necessary because the tide coordinated black and white infrared photography covering Sebastian Creek was not acceptable for compilation because of haze and shadows (refer to the Photographic Flight Report).

There was no mean low-water line compiled in these interior waters.

36. Offshore Details

The spoil banks shown on this map are subject to continual change in size and shape.

37. Landmarks and Aids to Navigation

The images of charted objects visible on the photography were located during compilation and will be verified by field edit. Objects not visible on the photography will be located by the field editor.

38. Control for Future Surveys

Tidal bench marks established by the tide observation party.

39. Junctions

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

40. Horizontal Accuracy

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

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with USGS quadrangles Sebastian and Fellsmere, Fla., dated 1949, photorevised 1970, 1:24,000 scale.

No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with Nautical Chart 845-SC, scale 1:40,000, 9th edition, dated July 25, 1970. Corrections to August 20, 1970.

No significant differences were noted.

Items to be Applied to Nautical Charts Immediately: None.

Items to be Carried Forward: None.

Submitted by,

John C. Richter
John C. Richter

Approved and forwarded:

John P. Battley Jr
J.P. Battley, Jr.

Field Edit Report, Map TP-00150, Job PH-6910

51. METHODS

Shoreline delineation was visually verified from a small boat running close to shore. Notes were made on the rectified photographs showing changes of line weights, from heavy mean water line to light line for sea walls and bulkheads.

One landmark is recommended for charting and Form 76-40 is submitted.

Sextant fixes were taken at each daybeacon. In addition a cut was taken from a photo point to each daybeacon. Light 67 can be seen on the photographs. Fixes for a number of private channel markers and piling were taken. All fixes were plotted on rectified photo 70E5781.

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. Light 67 is of the old type wooden structure and was used in many of the fixes. Aids that "moved" were lined out on the Form 76-40 furnished from Rockville and listed on a new Form 76-40 indicating the necessity of a revised position. Form 76-40 is submitted only for the Coast Guard maintained aids.

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

One triangulation station was recovered and Form 526 submitted.

Field edit notes will be found on the rectified photographs and the Discrepancy Print.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were required.

54. RECOMMENDATIONS

None.

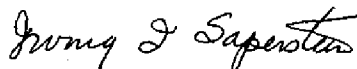
55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

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

Submitted 6/30/71



Irving I. Saperstein
Acting Chief, Photo Party 60

Review Report TP-00150
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 USGS quadrangles Sebastian and Fellsmere, Florida, 1949, photorevised 1970, scale 1:24,000.

No significant differences were noted.

A comparison was made with Nautical Chart 845-SC, 12th edition, dated September 8, 1973, scale 1:40,000.

The following differences were noted:

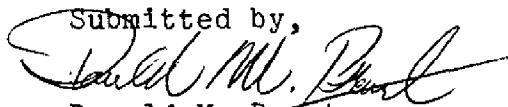
1. A wreck located at latitude 27°29.6' and longitude is shown on the Nautical Chart. This wreck was not noted by the field edit of June 1971.

2. Numerous differences in piers and pier ruins were noted along the west shore of the Indian River and Sebastian Creek. Also noted were differences in the positions and additional numbers of piling and signs. The information shown on the published map and Registration Copy was furnished by the Field Edit of June 1971 and no mention was made about the differences between the published map and Nautical Chart.

46. Adequacy of Results and Future Surveys


Coastal Zone Map TP-00150 complies with project instructions for NOS Cooperative Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,

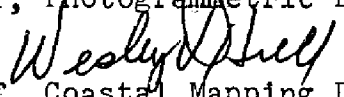


Donald M. Brant

Approved:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

June 21, 1974

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

TP-00150

Brevard County

Cummings

Florida East Coast RR

Indian River

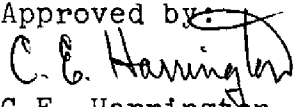
Indian River County

Roseland

Sebastian

Sebastian Creek

Sebastian Municipal Airport

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)			
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE DELETED		ORIGINATING LOCATION Rockville, Maryland								DATE 6/20/74					
The following objects have (have not) been inspected from seaward to determine their value as landmarks:															
JOB NUMBER PH- 6910 STATE: Florida		SURVEY NUMBER T - TP-00150		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)						CHARTS AFFECTED			
CHARTING NAME		DESCRIPTION		LATITUDE 0 /		LONGITUDE 0 /		FIELD INSPECTION		COMPILATION		FIELD EDIT		CHARTS AFFECTED	
INTRACOASTAL WATERWAY EAU GALIE-ST. LUCIE INLET INDIAN RIVER(South Section)		27 49		80 28		3.00		P.4 70E5781 6/22/71		P.4 70E5781 6/22/71		845-SC		"	
DYBN 65		27 49		80 27		41.58		"		"		"		"	
DYBN 65A		27 49		80 27		1138.0		54.26		70E5781 2/10/70		"		"	
DYBN 66		27 49		80 27		1485.0		30.21		"		"		"	
LIGHT 67		27 48		80 27		826.8		32.31		"		"		"	
DYBN 68		27 48		80 27		384.2		12.16		"		"		"	
DYBN 69		27 48		80 27		333.0		"		"		"		"	
"		"		"		"		"		"		"		"	
"		"		"		"		"		"		"		"	
"		"		"		"		"		"		"		"	

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
	P. Dempsey	FIELD EDITOR
	Copy checked after typing D. Brant	COMPILER <input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
3. Forms originated by Quality Control and Review Group and final review activities		

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 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.'

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

TP-00150
Data Forwarded to Federal Records Center

1 Discrepancy Print

1 Form 76-360 (History of Field Operations)

4 Forms 76-40 (Nonfloating Aids or Landmarks for Charts)

1 Sketchbook Vol. 4

Photography:

1:10,000 scale
70E 5780 and 5781