

original

TP-00148

TP-00148

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-00148 .
Classification No. Final	Edition No. ... 1
Field edited map	
LOCALITY	
State	Florida
General Locality	Brevard County
Locality	Shell Pit Point to
	Se
	Sebastian Creek
<hr/> 1970 TO 19 71 <hr/>	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland		SURVEY TP. <u>00148</u> MAP EDITION NO. (1) MAP CLASS Final JOB PH. <u>6910</u>	
OFFICER-IN-CHARGE Commander Wesley V. Hull		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, 6/19/73 OFFICE-Supplement I, 8/19/73 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 type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) Mean water-level line (see Record of Decisions bound with this report).	
3. MAP PROJECTION Transverse mercator		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: Analytic LANDMARKS AND AIDS BY		D. Brant 1	12/70
2. CONTROL AND BRIDGE POINTS METHOD: Coradomata PLOTTED BY		P.J. Demsey	1/71
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY		J.C. Richter	3/71
INSTRUMENT: Wild B-8 SCALE: 1:10,000 CONTOURS BY		J.P. Battley, Jr.	3/71
4. MANUSCRIPT DELINEATION Shoreline: Graphic METHOD: Interior: Orthophoto mosaic SCALE:		J.C. Richter J.P. Battley, Jr. Inapplicable	3/71 3/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Taylor	3/71
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		J.P. Battley, Jr.	3/71
7. COMPILATION SECTION REVIEW BY		J.P. Battley, Jr.	5/71
8. FINAL REVIEW BY		R.A. Youngblood	6/71
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J.P. Battley, Jr.	7/71
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		J.P. Battley, Jr.	8/71
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		D. Brant & S. Blankenbaker	8/73
12. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		D. Brant	9/73
13. MAP REGISTERED - COASTAL SURVEY SECTION BY		K. J. Battley	8-12-74

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

TP-00148

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 E&L cameras 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED B&W		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)5781 - 5785	2/10/70	13:43	1:40,000	The stage of tide is inapplicable for color photography.	
70L6890R-6892R	8/14/70	17:40	1:25,000	-0.23 Ft. MHW *	
70L8919R & 8920R	2/10/70	12:05	1:25,000	+0.15Ft. 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 8/14/70 listed in item 1. The source of the mean-high water line along a small portion of the north shore of Sebastian Creek is the tide coordinated black and white infrared photography dated 2/10/70 listed in item 1.

Beyond longitude 80°30.2' along the shores of Sebastian Creek the mean water-level line was mapped (refer to the Record of Decisions). The source and date of the mean water-level line is the color photog. dated 2/10/70, listed in item 1. These lines were field edited in 1971.

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

There is no mean low-water line shown on map TP-00148, refer to the Record of Decisions for explanation.

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-00146	TP-00149	TP-00150	No contemporary survey.

REMARKS

Final junctions were made in the Coastal Mapping Section.

HISTORY OF FIELD OPERATIONS.

TP-00148

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W.H. Shearouse	6/71
2. HORIZONTAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
3. VERTICAL CONTROL	RECOVERED BY W.H. Shearouse	5/71
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY W.H. Shearouse	5/71
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY W.H. Shearouse	5/71
	IDENTIFIED BY None	
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	6/71
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY W.H. Shearouse	6/71
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	79E5784	T227, S227, R227, K33
		70E5783	N227, P227

3. PHOTO NUMBERS (Clarification of details)

70E5784

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

No landmarks. Aids to navigation verified by sextant fix and plotted

on photo 5784

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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)

Sketchbook Vol. 2 which also covers Map TP-00146.

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

TP-00148

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No copies of this map were furnished to Nautical prior to Final Review.			Charts	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
(1)	L-1203	9/11/73	Only one letter, comprised of one form, was submitted for this map.

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9/11/733. ☒ 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-00148

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 observations at Micco Tide Station (just east of this map); the datum in Sebastian Creek was established by observations at Sebastian Indian River Tide Station.

Since the mean range of tide in Indian River was 0.2 to 0.3 foot, the standard mean high-water line symbolization was used for delineating the Indian River meanhigh-water line.

The mean low-water line was not mapped in these interior waters 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.

A group of islands noted on the aerial photographs and NOS charts at approximately 80° 30.2' west longitude reduce the Sebastian Creek tide beyond this point to a significantly lesser range than 0.2 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 part of the shoreline in Sebastian Creek; 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 then portrayed by a solid line.

* 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.

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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-00148 which will be permanently filed in the NOS archives.

Official Mileage
for Cost Accounts

Sheet No. - Area Sq. Mi.

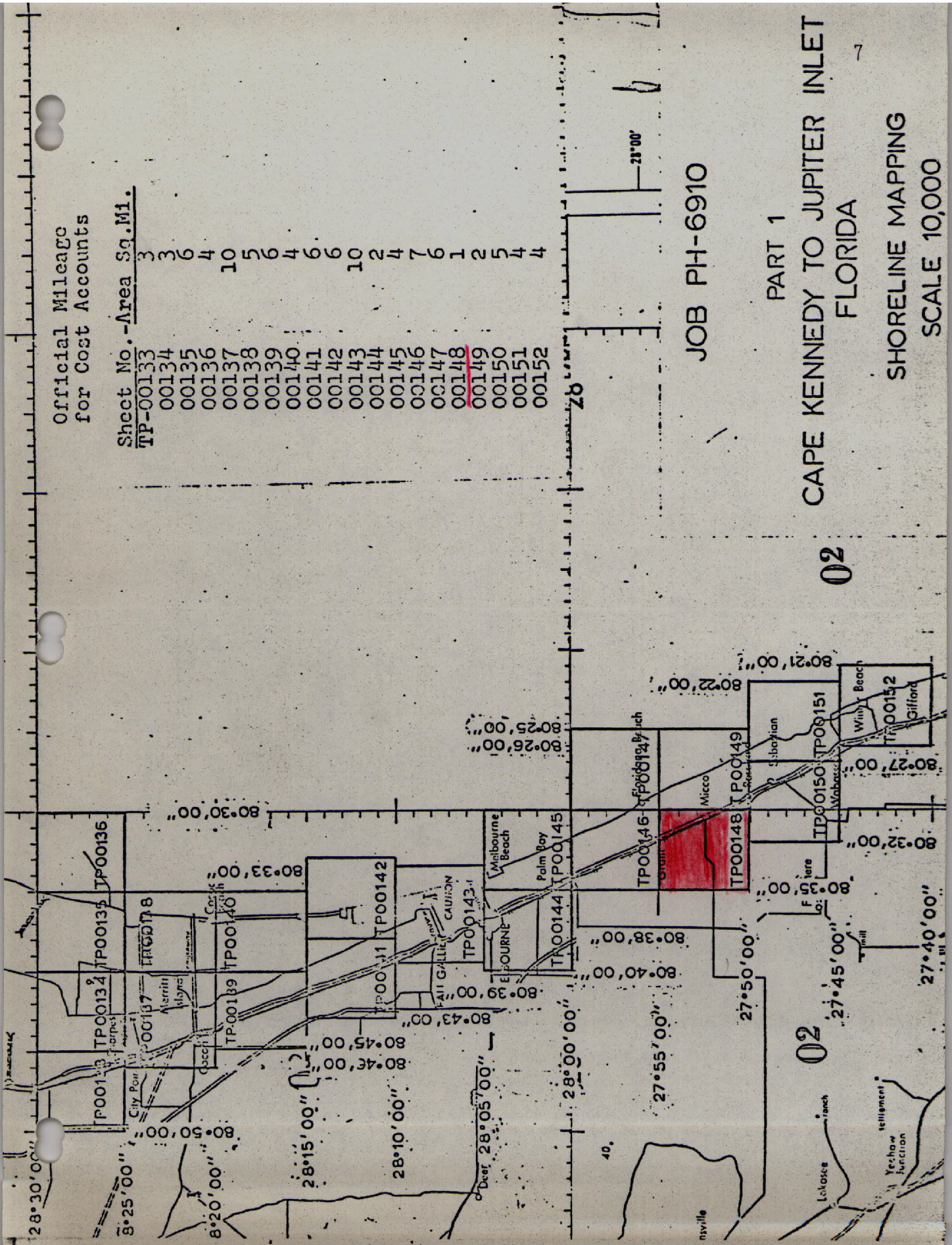
TP-00133	3
00134	3
00135	6
00136	4
00137	10
00138	5
00139	6
00140	4
00141	6
00142	6
00143	10
00144	2
00145	4
00146	7
00147	6
00148	1
00149	2
00150	5
00151	4
00152	4

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-00148 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.

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

In addition to the sketches shown on the 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	TRIPCD 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	HCEE 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

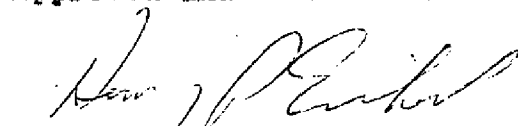
Strip 23A -- 70-L(C)-9991A thru 004A
Strip 24 -- 70-L(C)-007A thru 015A
Strip 25 -- ~~70-L~~ 70-E(C)-5760 thru 5768
Strip 26 --- 70-E(C)-5772 thru 5794

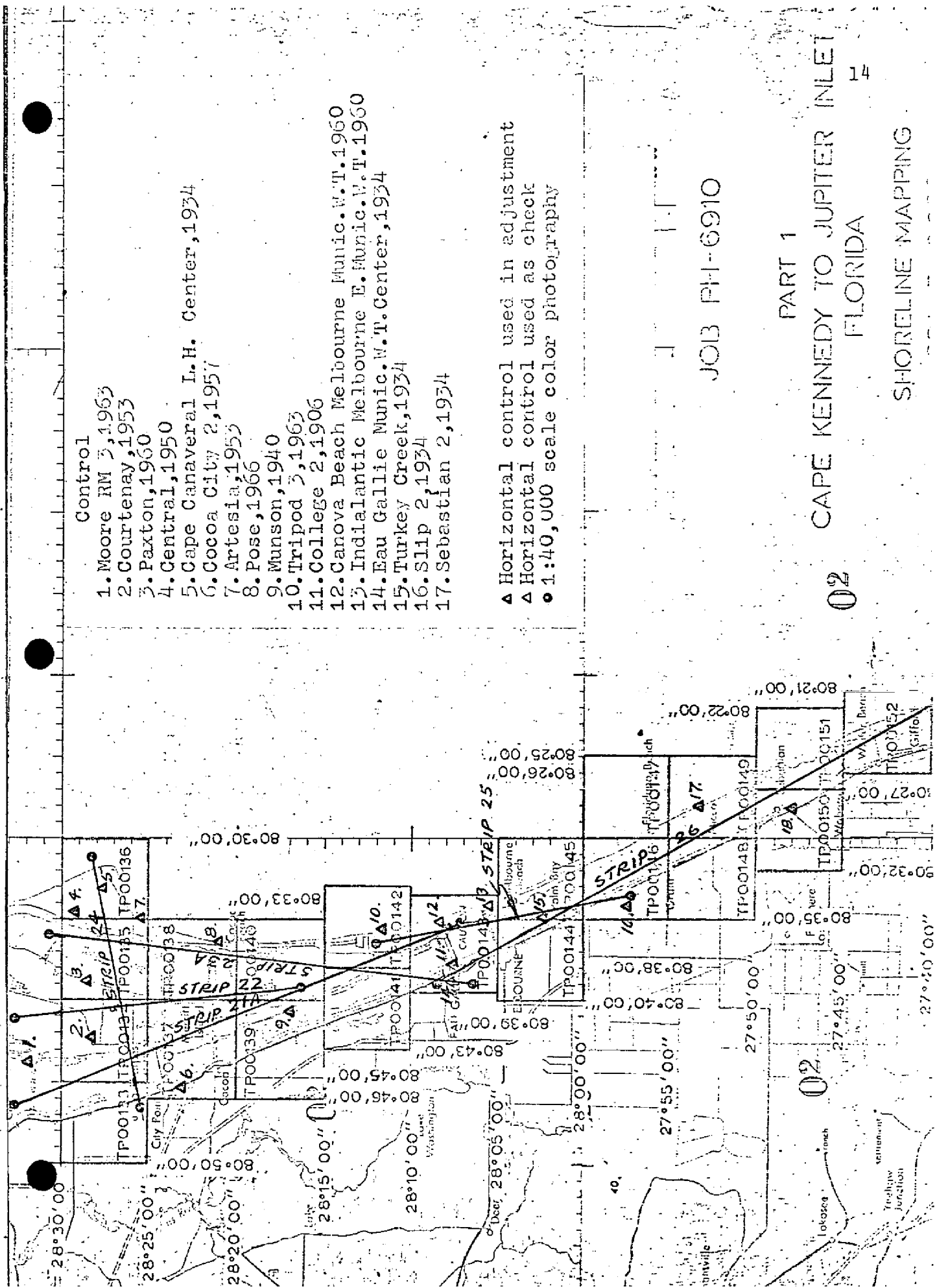
The definition and quality of the photography were good.

Respectfully submitted:


I. I. Saperstein

Approved and forwarded:


Henry P. Eichert, Chief
Aerotriangulation Section



Control

1. Moore RM 3, 1963
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. Indiantonic 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 PH-6910

PART 1

CAPE KENNEDY TO JUPITER INLET
FLORIDA

SHORELINE MAPPING

FLORIDA - NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP - 00148

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Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
K 33	23.379	C&GS disk stamped K 33 1933 23.458; 55 ft. S of centerline of road, 6.6 ft. W of W rail, 29.5 ft. SE of telegraph pole.
N 227	20.069	C&GS disk stamped N 227 1965; 34.1 ft. W of W rail, 12 ft. SW of power pole.
P 227	20.987	C&GS disk stamped P 227 1965; 0.2 mile S of milepost 210, 42 ft. W of W rail, 44 ft. NW of telegraph pole.
R227	7.648	C&GS disk stamped R 227 1965; on top of S end of W concrete headwall of culvert, 39 ft. W centerline of S-bound lane of highway.
S 227	6.260	C&GS disk stamped S 227 1965; 12 ft. S of N end of culvert headwall, 31 ft. W of S-bound lane of highway, 42 ft. S of driveway centerline.
T 227	6.480	C&GS disk stamped T 227 1965; on top of SE end of NE headwall of culvert, 26 ft. NE of road centerline, 16 ft. NW of SE end of E wingwall.

Compilation Report
TP-00148

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 mosaic 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 and a small portion of Sebastian Creek (north shore) from tide-coordinated black and white infrared photography.

The mean water-level line was compiled along the shores of Sebastian Creek (west of latitude $80^{\circ}32.2'$). This portion of Sebastian Creek was compiled from color photography. There was no tide coordinated black and white infrared photography covering this portion of Sebastian Creek.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids to Navigation

There are no charted landmarks on this map.

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 - None.

39. Junctions

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

40. Horizontal Accuracy

The map complied 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 quadrangle Grant, Fla., dated 1949, photorevised 1970.

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-00148, Job PH-6910

51. METHODS

The shoreline of Indian River was verified visually from a small boat while cruising just offshore. No discrepancies or major inadequacies were found. Notations regarding a fringe of marsh were made on the photograph.

No landmarks are recommended.

Sextant fixes were taken at each daybeacon and the angles plotted directly on photograph 5784. These should be transferred to the map manuscript in the office. Form 76-40 is submitted showing approximate positions.

There are many stakes of 4-inch diameter and smaller marking oyster leases. Sextant fixes were taken at the corners of the areas so marked and the general limits drawn. These are shown on photograph 5784 or the FIELD EDIT SHEET. It is recommended that a label "numerous stakes mark oyster leases" be applied.

There are no triangulation stations.

Geodetic bench marks were recovered and identified on the ratio photograph.

Field edit notes will be found on the FIELD EDIT SHEET, the Discrepancy Print and ratio photograph.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

A complete investigation was not required. No conflicts among charted names was noted during field work.

Submitted 6/9/71

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

TP-00148

Remarks: Application of Field Edit

Request for field edit revision of several areas where stakes on limits of shellfish beds are shown on maps TP-00148 and TP-00149. Refer to memorandum dated August 6, 1973.



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SURVEY
Rockville, Md. 20852

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Date: August 6, 1973

Reply to
Action of: C3413

Subject: Field edit of stakes on limits of shellfish beds and in other areas,
Florida Coastal Boundary Maps

To: Chief, Photo Party 60
THRU: Chief, Coastal Mapping Division, AMC

Information in this memorandum is intended to provide guidance regarding desired treatment of subject features until instructions can be revised. Procedures established will result in the proper information reaching the Marine Charts Division.

Stakes that mark limits of shellfish beds, for setting fish nets, comprise fish traps, or placed in navigable waters for any other purpose shall be located only if they meet criteria established for locating privately maintained aids to navigation. Coastal maps and nautical charts will carry the cautionary note "NUMEROUS STAKES" in areas where stakes are numerous but do not meet the specified criteria for charting. The field editor must supply information to guide map and chart compilers. Do this by lettering the note in appropriate locations on the Field Edit Sheet. It is neither intended nor desired that limits of such areas are to be indicated.

Field edit data of two maps completed previously are being sent to you for field verification of several areas where limits of oyster beds are shown. You are to revise the field edit of these maps to obtain conformance with this memorandum. Existing data are confusing as to actual conditions and conflict with charted data in some instances.

Wesley V. Hull
Wesley V. Hull

Chief, Coastal Mapping Division

Addendum 1 TP-00148 & TP-00149

Reference letter dated August 6, 1973 from C3413 to Chief, Photo Party 60.

The subject piles and stakes were inspected and found to range in size from 4x4 pressure treated lumber to 10 inch piling projecting about 5 feet above water. There are approximately 200 to 300 additional piles and stakes that have not been located. About 70% of these are the 4x4 range. This information was reported to the Rockville office. Mr. Battley reported later that after a conference, it was decided to ~~show~~ the limits of the piles and stakes.


The limits have been shown on Field Edit sheet TP-00149 and photo 70E5784 using red ink. The approximate limits were located using sextant cuts and photographic details. The limits have changed since the original field edit and it appears that the limits will change in the future with new leases. Care was taken not to run over the shallow lease areas, which would destroy the beds, in locating the limits.

Since the two sheets to the north (TP-00146 and TP-00147) have been printed no inspection was done except to complete the leases on the east and west side of the river on photo 70E5784. This area that appears on TP-00146 and TP-00148 could possibly be omitted from TP-00148 since it appears that in June 1971, the time of the original field edit, these leases were not in place.

It is also recommended that the stakes located by the original field edit not be shown. They do not stand out any better than the ones not shown.

The two stakes located, approximately at 27 50.7' and 80 27.7', should be shown.

Submitted 8/21/73


Robert R. Wagner
Chief, Photo Party 60

TP-00148

Remarks: Application of revised Field Edit

(Addendum 1 TP-00148 and TP-00149)

Stakes marking the limits of shellfish beds were applied to maps TP-00148 and TP-00149.

Review Report TP-00148
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 Quadrangle Grant 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:

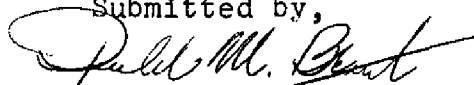
1. Numerous differences in piers and pier ruins were noted along the west shore of the Indian River. These features on Map TP-00148 were compiled from 1970 color photography. The field editor made no reference to the existence or nonexistence of ruins for those charted piers which are not shown on the published map.

2. The published map shows additional stakes marking the limits of areas labeled "Numerous stakes" than are shown on Nautical Chart 845-SC. Refer to Addendum 1 for explanation of stake areas.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00148 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

Feb. 9, 1973

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

TP-00148

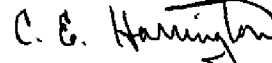
Fleming Grant
Florida East Coast RR
Indian River
Intracoastal Waterway
Micco
North Prong
Sebastian Creek
Shell Pit Point

Approved by:



A. Joseph Wraught
Chief Geographer

Prepared by:



C. E. Harrington
Cartographer

NOAA FORM 76-40 (2-71)		U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		NONFLOATING AIDS OR LANDMARKS FOR CHARTS		ORIGINATING ACTIVITY	
PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		ORIGINATING LOCATION		DATE		<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		Rockville, Maryland		6/8/71			
The following objects have (have not) been inspected from seaward to determine their value as landmarks:							
JOB NUMBER PH-6910	SURVEY NUMBER T-TP-00148	DATUM NA 1927	METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		CHARTS AFFECTED		
STATE: Florida	DESCRIPTION	LATITUDE ° / ' " D.M. METERS	LONGITUDE ° / ' " D.M. METERS	FIELD INSPECTION	COMPILATION	FIELD EDIT	
	INTRACOASTAL WATERWAY EAU GALLIE-ST LUCIE INLET INDIAN RIVER (SOUTH SECTION)						
DYBN 43	"	27 54 49.0 1507.0	80 30 53.2 1454.0			P4 6/7/71 70E5784	845SC
LT 44	"	27 54 44.3 1364.0	80 30 53.9 1474.0		2/10/70 70E5784	Verif. 6/7/71	845SC
DYBN 45	"	27 54 41.6 1282.0	80 30 49.5 1354.0			P4 6/7/71 70E5784	845SC
DYBN 47	"	27 54 17.4 536.0	80 30 32.5 888.0			P4 6/7/71 70E5784	845SC
LT 48	"	27 54 11.6 356.0	80 30 31.0 849.0		2/10/70 70E5784	Verif. 6/7/71	845SC
DYBN 49	"	27 54 11.3 349.0	80 30 25.9 707.0			P4 6/7/71 70E5784	845SC
DYBN 50	"	27 53 59.5 1831.0	80 30 11.0 300.0			P4 6/7/71 70E5784	845SC
LT 51	"	27 53 58.8 1809.0	80 30 06.2 169.0		2/10/70 70E5784	Verif. 6/7/71	845SC
DYBN 52	"	27 53 53.5 1648.0	80 30 05.4 148.0			P4 6/7/71 70E5784	845SC

TP-00148
Data Forwarded to Federal Records Center

1 Field edit sheet

1 Discrepancy Print

1 Form 76-36C(History of Field Operations)

2 Form 76-40 (Nonfloating Aids or Landmarks for Charts)

Sketchbook Vol. 2 is filed with TP-00146

Photography:

70E5784