Original

TP-00161

TP-00161

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-00161.....

Classification No. Final *Edition No.* ...1.....
Field Edited Map

LOCALITY

State ...Florida.....

General Locality .Martin County.....

Locality St. Lucie Inlet to Jupiter Island....

.....

1970 TO 1973

REGISTRY IN ARCHIVES

DATE .....

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [x] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-00161

MAP EDITION NO. d)

MAP CLASS Final

JOB PH-6910

PHOTOGRAMMETRIC OFFICE: Rockville, Maryland

OFFICER-IN-CHARGE: Commander Wesley V. Hull

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] 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 Instructions(1973) incorporate applicable, prior operational instructions. OFFICE-Supplement II, Sept. 24, 1973	Aerial Photography, 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit(PH-7000)General Instructions for Florida Coastal Zone Mapping, 1973

II. DATUMS

1. HORIZONTAL: [x] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [x] MEAN HIGH-WATER [x] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

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	BY	D.M.Brant	Aug.1971
METHOD: Analytic	LANDMARKS AND AIDS BY	Inapplicable	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	D. Phillips	Aug. 1971
METHOD:Coradomat	CHECKED BY	Inapplicable	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	Inapplicable	
	CHECKED BY		
INSTRUMENT:	CONTOURS BY	Inapplicable	
SCALE:	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	C. Lewis	Aug. 1972
Shoreline:Graphic	CHECKED BY	J.P.Battley,Jr.	Aug. 1972
METHOD:	CONTOURS BY	Inapplicable	
	CHECKED BY		
Interior:Orthophoto mosaic SCALE:	~~HYDRO SUPPORT DATA~~ BY	J. Taylor	Apr.1972
	CHECKED BY	J.P.Battley,Jr.	Apr.1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P.Battley,JR.	Aug.1972
6. APPLICATION OF FIELD EDIT DATA	BY	C. Lewis	June 1973
	CHECKED BY	R.Rich	Jan.1974
7. COMPILATION SECTION REVIEW	BY	J.P.Battley,Jr.	Feb. 1974
8. FINAL REVIEW	BY	D. Brant	Feb. 1975
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	D. Brant	June 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. Cator	Aug. 1975

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-00161

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8
E&L Cameras 6" focal length

TIDE STAGE REFERENCE
- ☐ PREDICTED TIDES
- ☐ REFERENCE STATION RECORDS
- ☒ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED B&W

TIME REFERENCE
ZONE: Eastern (EST) ☒ STANDARD
MERIDIAN: 60th &75th ☒ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*70E(C)5870-5872	2/14/70	1341-1343	1:40,000	The stage of tide is inapplicable for the color photography.
70L-6351R	8/12/70	0935-0936	1:25,000	Refer to following page for tidal information
70L6771-6772R	8/14/70	1410-1412	1:25,000	
70L7006-7010R	8/15/70	1045-1046	1:25,000	
70L-7105-7108R	8/17/70	0859-0901	1:25,000	
70L8832-8841R	2/10/70	1029-1038	1:30,000	

REMARKS

*Photography used in the orthophoto mosaic

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide-coordinated black-and-white infrared photography listed in item 1. The rectified color photography was used as an aid for interpreting culture features and compiling the limits of shoal and shallow areas for Nautical Charts. The color photography was also used ~~to update~~ as an aid in interpretating culture shoreline.

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

The source of the mean low water line is the tide controlled black-and-white infrared photography listed under item 1.

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-00159	No contemporary survey	TP-00162	TP-00160

REMARKS Final junctions were made in the Coastal Mapping Section.

* U. S. GOVERNMENT PRINTING OFFICE: 1974-768-078

PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
ATLANTIC OCEAN			
70L6351R	Jupiter Inlet	+0.07MLW	2.46
70L6771R-6772R	Jupiter Inlet	+0.70MLW*	"
70L7006R-7010R	Jupiter Inlet	-0.60MLW*	"
70L7105R-7108R	Jupiter Inlet	+0.13MHW	"
70L8836R-8841R	Ft. Pierce Inlet	-0.10MHW	1.84
INTERIOR WATERS			
70L6351R	Sewall Pt. Indian R.	-0.36MLW*	0.93
70L6771R-6772R	Stuart St. Lucie R.	+0.05MLW	0.88
	Hobe Sound	-0.51MLW*	1.52
	Sewall Pt. Indian R.	-0.25MLW	0.93
70L7006R-7010R	Sewall Pt. Indian R.	-0.12MLW	0.93
	Hobe Sound	-0.11MLW	0.88
70L7105R-7108	Sewall Pt. Indian R.	+0.14MHW	0.93
	Hobe Sound	+0.14MHW	0.88
70L8831R-8835R	Sewall Pt. Indian R.	-0.13MHW	0.93
70L8836R-8841R	Sewall Pt. Indian R.	-0.10MHW	0.93
	Hobe Sound	-0.38MHW*	1.52

*The stage of tide tolerance is greater than ±0.30ft. specified in the instructions for some of the photography used in compiling portions of the MHW and MLW lines. The horizontal position of these lines was verified by field edit.

NOAA FORM 76-36C
(3-72)

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

TP-00161

HISTORY OF FIELD OPERATIONS

I. [X] FIELD INSPECTION OPERATION * [X] FIELD EDIT OPERATION.

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R.R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY	W.H. Shearouse	Jan. 1972
	ESTABLISHED BY	N.A.	
	PRE-MARKED OR IDENTIFIED BY	N.A.	
3. VERTICAL CONTROL	RECOVERED BY	W.H. Shearouse	Jan. 1972
	ESTABLISHED BY	N.A.	
	PRE-MARKED OR IDENTIFIED BY	T.J. Bulfer	Feb. 1973
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	NONE	
	LOCATED (*Field Methods*) BY	T.J. Bulfer	Feb. 1973
	IDENTIFIED BY	T.J. Bulfer	Feb. 1973
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	T.J. Bulfer	Feb. 1973
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED *

PHOTO NUMBER	STATION NAME
	*Refer to Field Report. (page 10)

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION
70E5870	S224,T224
70E5871	46(SRD),H34,J34,Q224, R224
	TIDAL 1 in
	PINE V232

3. PHOTO NUMBERS (*Clarification of details*)

70E5870, 5871, 5872, 70L7105

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

No landmarks; aids to navigation were located or verified by field methods.

PHOTO NUMBER	OBJECT NAME (Aids)	PHOTO NUMBER	OBJECT NAME
70E5871	St. Lucie Crossover South R.F.		
70E5871	Great Pocket Lt. 9		
70E5871	" " Lt. 14		
70E5870	S.Jupiter Narrows Lt. 23		
70E5872	Okeechobee Waterway Lt. 7		

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS Sketchbook(Sextant fixes); 2 Planetable Sheets-Mylar
*Refer to Field Report bound with this report.

8. OTHER FIELD RECORDS (*Sketch books, etc.* DO NOT *list data submitted to the Geodesy Division*)
Sketchbook(Sextant fixes); 2 Planetable sheets - Mylar
*Refer to Field Report bound with this report. (page 10)

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

TP-00161

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 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
		4/9/75	4 Forms submitted for final report

2. ☑ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 4/9/75
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

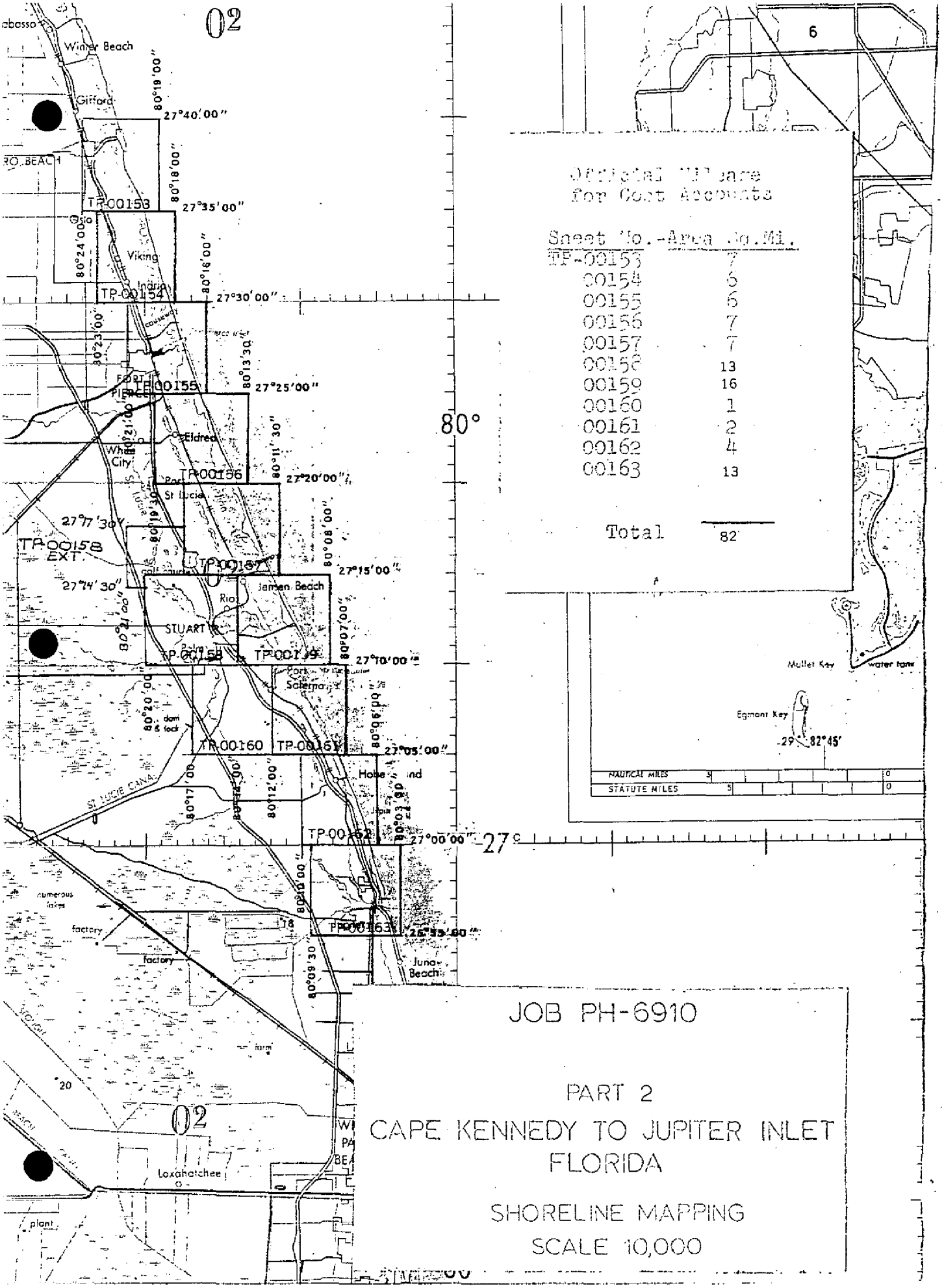
1. ☑ BRIDGING PHOTOGRAPHS; ☑ DUPLICATE BRIDGING REPORT; ☑ COMPUTER READOUTS.
2. ☑ CONTROL STATION IDENTIFICATION CARDS; ☑ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☑ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6



Original Mylars
for Cost Accounts

Sheet No.	Area Sq.Mi.
TP-00153	7
00154	6
00155	6
00156	7
00157	7
00158	13
00159	16
00160	1
00161	2
00162	4
00163	13
Total	82

JOB PH-6910

PART 2

CAPE KENNEDY TO JUPITER INLET
FLORIDA

SHORELINE MAPPING

SCALE 10,000

Record of Decisions
TP-00161

The Record of Decisions was discontinued on June 17, 1975. Refer to Form 76-36B bound in this Descriptive Report for tidal datum information.

SUMMARY
TP-00153 thru TP-00163

Coastal Zone Map TP-00161 is one of eleven (11) similar maps in project PH-6910, Part 2. The layout of sheets (page 6 of this report) will show its location. These maps are intended for planning purposes by the State of Florida and for the compilation of NOS Nautical Charts.

The area is covered by aerial photography taken in 1970 on color and black and white infrared film. The infrared film was tide coordinated.

Field operations consisted of the establishment of tidal datums, control recovery, pre-marking of control, and field edit. Data for the compilation of tide stations and tidal bench marks were furnished by the Tidal Datum Planes Section. Condensed descriptions of both tidal and geodetic bench marks shown on this map were furnished by the Coastal Surveys Section.

Horizontal control was extended by analytical aerotriangulation methods using the stereo comparator. This provided control for the orthophot mosaic and compilation.

Shoreline and alongshore features were compiled from tide coordinated black and white infrared photography using a stereo plotter and graphic methods. The interior of the maps are depicted by an orthophoto mosaic.

All line work is scribed, approved symbols are shown in the marginal data.

Explanatory notes relating to datum determinations approved by a special ad hoc committee are shown on the reverse side of the maps.

All maps are published by the NOS and were printed in three colors by the Reproduction Division. A special registration copy was prepared to meet the requirements for Nautical Charts. This registration copy shows additional offshore details not shown on the published map and will be noted "Registration Copy" under the title block.

The following items will be registered in the Bureau Archives:

1. A plastic copy of the published map (1:10,000 scale).
2. A stable base positive of the registration copy (1:10,000 scale).
3. The Descriptive Report.

All negatives will be filed with the Reproduction Division.

All field data such as Forms 152, field edit photographs, profiles, field edit ozalids, etc., are filed in the Federal Records Center.

FIELD REPORT
PREMARKING HORIZONTAL CONTROL
JOB PH-6910, CAPE KENNEDY TO JUPITER INLET, FLORIDA

In accordance with Instructions - FIELD - Supplement 1, Job PH-6910; Coastal Boundary Mapping, Cape Kennedy to Jupiter Inlet, Florida, twenty-two horizontal control stations were recovered and paneled in accordance with practices in use at this time. All stations were premarked for 1:40,000 scale photography.

White polyethylene plastic sheeting was used for all but 2 stations. Sketches on the CSI cards show the pattern used in each instance but most stations were paneled with a 5-ft. square target placed directly over the station mark and 3 runner-type wing panels 3.5/4' X 20' approximating 120° angles around the square.

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

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

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

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

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

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

Submitted 2/24/70

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

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

21. Area Covered

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

22. Method

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

23. Adequacy of Control

Horizontal control was premarked and was adequate for bridging.

24. Supplemental Data

None

25. Photography

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

Strip 27	70-E(C)-5861 thru 5886
Strip 28	70-E(C)-5850 thru 5856

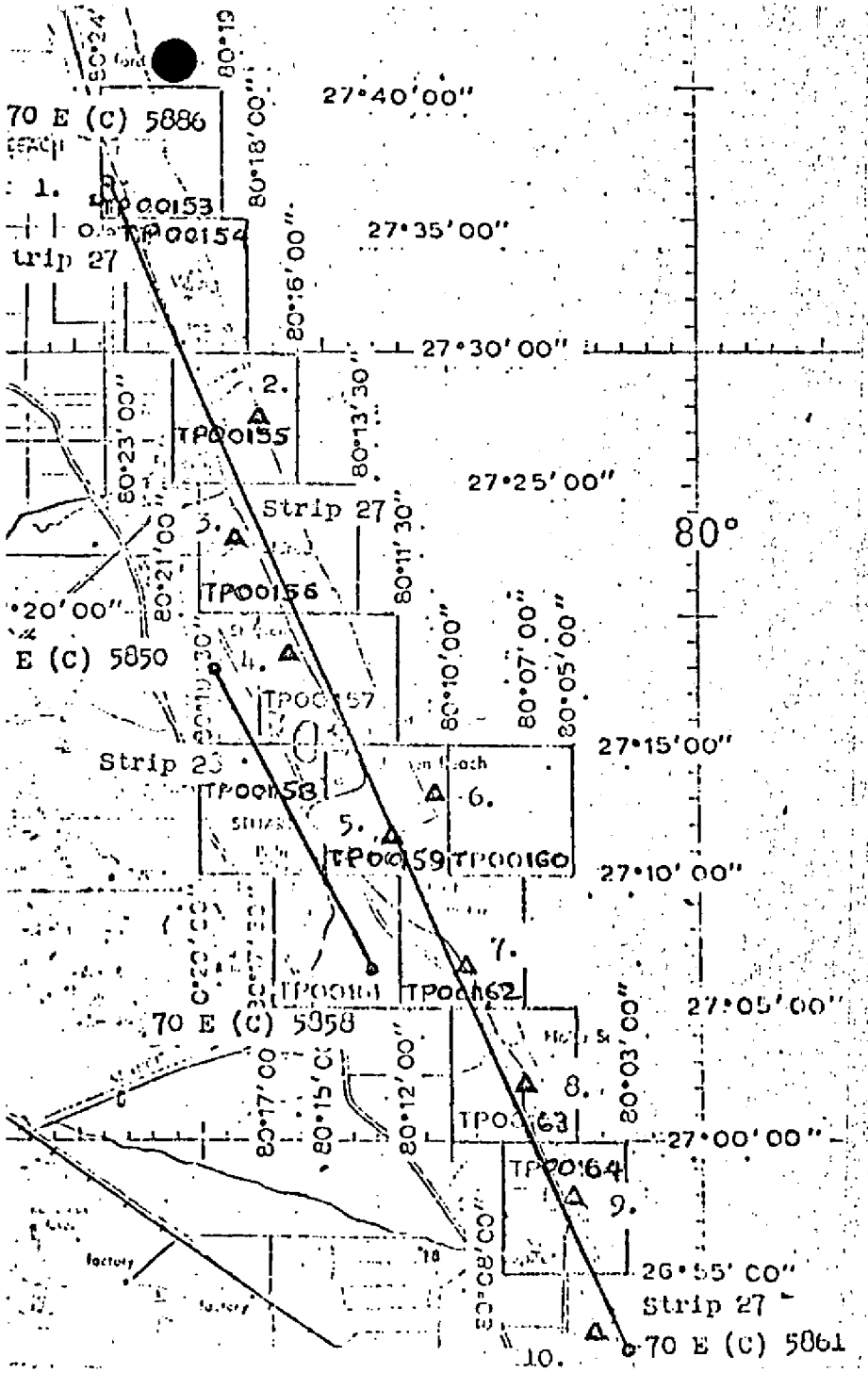
The definition and quality of the photography was good.

Respectfully submitted,

Donald M. Brant

Approved and Forwarded:

Henry P. Eichert, Chief
Aerotriangulation Section



CONTROL

1. 72804 (Tie from Strip 26)
2. PIERCE 2 1963
3. WHITE 2 1966
4. WALTON 1930
5. REFUGE 2 RM 4 1934
6. SEAWALL 1898
7. PINE 1929
8. CISTERN 1956
9. RADAR 1955
10. GOLF RM 1 1934

Note: The map layout for PH 6910 (part 2) was revised after the completion of the aerotriangulation operation. Refer to page 7 for revised layout.

■ Tie point used in adjustment
▲ Horizontal control used in adjustment
● 1:40,000 scale photography

JOB PH-6910

PART 2

CAPE KENNEDY TO JUPITER INLET FLORIDA

SHORELINE MAPPING

SCALE 10,000

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
CRAB, 1930	Book 421, P.8, 24, 25, 44, 54, G.P.-Fla. Vol. 1, P. 789, P.C. Fla. E Zone, P. 169
SNAKE, 1930	Book 421, P. 8, 30, G.P.-Fla. Vol. 1, P. 713, P.C. Fla. E Zone, P. 160
HIGH, 1929	Book 421, P. 8, 25, 38, 47, G.P.-Fla. Vol. 1, P. 158, P.C. Fla. E Zone, P. 20
PINE, 1929	Book 421, P. 9, 38, 43, 50, 56, G.P.-Fla. Vol. 1, P. 746, P.C. Fla. E Zone, P. 162
PECK, 1934	Book 421, P. 8, 28, 38, G.P.-Fla. Vol. 1, P. 159, P.C. Fla. E Zone, P. 20
LONG, 1930	Book 421, P. 7, 27, G.P.-Fla. Vol. 1, P. 158, P.C. Fla. E Zone, P. 20
ROCK (USE), 1934	Book 421, P. 29, G.P.-Fla. Vol. 1, P. 790, P.C. Fla. E Zone, P. 169

Geodetic Bench Mark	Elevations (feet) NGVD 1929	Condensed Description
46 (S.R.D.)	9.746	F.S.R.D. disk stamped 46 9.77; set on top of NE concrete guard rail of bridge, 19.5 ft. NE centerline A1A, 7.8 ft. NW of SE end of guard rail.
H 34	9.111	C&GS disk stamped H 34 1933 9.111; 74 ft. NW centerline of Cove Rd., 33.5 ft. SW centerline A1A.
J 34	21.998	C&GS disk stamped J 34 1933 21.998; 60.4 ft. S of milepost No. 270, 24 ft. NE centerline A1A.
Q 224	18.428	C&GS disk stamped Q 224 1965; 61 ft. NE of and across track from milepost No. 268, 32.5 ft. SW centerline A1A.
R 224	26.919	C&GS disk stamped R 224 1965; 21.5 ft. S of milepost No. 269, 22 ft. NE centerline A1A.
S 224	18.491	C&GS disk stamped S 224 1965; 526 ft. SE of milepost No. 271, 35 ft. NE of NE rail.
T 224	23.245	C&GS disk stamped T 224 1965; 166 ft. S centerline road crossing, 27 ft. NE centerline A1A.
PINE	25.003	C&GS disk stamped PINE 1929; 106 yds. S and across A1A from a road crossing, 129 ft. SW centerline A1A.
V 232	10.276	C&GS disk stamped Y 232 1965; 46 ft. SW of SW rail, 3 ft. NW of power pole, 32 ft. NW centerline A1A, 1.5 ft. SE of metal witness post.

Compilation Report
TP-00161
December 1974

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 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

Photography was adequate for the delineation of the mean high and mean low water lines.

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 Quadrangles:

St. Lucie Inlet, Fla., scale 1:24,000, photorevised 1970
Gomez, Fla., scale 1:24,000, photorevised 1967.

47. Comparison with Nautical Charts

Comparison was made with Nautical Chart 1247, scale 1:80,000, 5th Edition, Apr. 1972, and SC-845, scale 1:40,000, 10th Edition, Aug. 1971.

No significant differences were noted.

Items to be applied to Nautical Charts Immediately: None.

Items to be carried forward: None.

Submitted by,

Charles Lewis

Approved and forwarded:

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

Field Edit Report, Map TP-00161, Job PH-6910

51. METHODS

The Atlantic Ocean shoreline was verified visually from roads leading to the shore or by walking where necessary. The Indian River was verified visually from a skiff while cruising just offshore. Notes regarding apparent and fast shoreline, piers and other along shore and shoreline features were made on the photographs, plane table sheets and field edit sheet. No profiles were run: See letter from C34 dated 2/9/73.

The MLWL was visually inspected on 2/26/73 based on Sewall Pt. staff. The staff reading has not reached low-water for a number of days. The area was inspected with the water level being 0.4 of a foot above MLW. Revisions to the MLWL can be found on the LW photographs and field edit sheet.

No landmarks are submitted.

Forms 76-40 is submitted for nonfloating aids.

Bench marks were searched for and reported on Form 685A. The identified bench marks are on the rectified photographs.

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

Field edit notes will be found on the Discrepancy Print, Field Edit Sheet, 2 plane table sheets and the photographs.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No test required.

54. RECOMMENDATIONS

None.

55 EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

No investigation required.

Submitted 2/28/73

Robert R. Wagner
Chief, Photo Party 60

Addendum to Field Edit Report, Map TP-00161, Job PH-6910

The MLWL that was questioned on the discrepancy print in the area of Great Pocket north to Rocky Point was visually inspected on 3/15/73 based on the tide gage at Horseshoe Point. The MLWL as compiled appears good on the manuscript.

Review Report
Coastal Zone Map TP-00161
June 1975

61. General

The map manuscript for Coastal Zone Map TP-00161 was reviewed in its Class I (field edit applied) stage by the Quality Control Group. The review consisted of an examination of the following:

Map manuscript;
Photography;
Field edit and its application;
Reproduction negatives;
Descriptive report.

The proof copy of Coastal Zone Map TP-00161 was examined and edited by the Quality Control Group prior to its publication. This edit comprised a thorough inspection of map details to verify the accuracy of reproduction with reference to the map manuscript and the quality of reproduction. In addition, the proof copy was examined by the following sections:

Coastal Mapping - Map details;
Staff Geographer-Geographic Names;
Coastal Surveys - Horizontal and Vertical Control.

62. Cartographic Comparison

Comparison was made with the following quadrangles:

St. Lucie Inlet, Fla., 1948,photorevised 1970, 1:24,000 scale;
Gomez, Fla, 1948, photorevised 1970, 1:24,000 scale.

1. Numerous piers and culture features are shown on map TP-00161 that are not shown on the quadrangle in Manatee Pocket.

2. The quadrangle does not show the island northwest of Long Point.

Comparison was made with Nautical Chart 11472(formerly 845-SC), 13th Edition, dated August 31, 1974. The following differences were noted:

1. Numerous piers are shown on map TP-00161 that are not shown on the chart.

2. A shoreline difference on the east shoreline of Peck Lake (approx. latitude 27°06.7' and longitude 80°08.6' on field photograph 70E5870).

3. New canal in South Jupiter Narrows approximate latitude 27°05.4' and longitude 80°08.3' from plane table survey.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00161 complies with the instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000, and the National Standards of Map Accuracy.

Submitted by,

Donald M. Brant

Approved and forwarded:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

June 6, 1975

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6910 (Florida)

TP-00161

Atlantic Ocean
Corset Island
Florida East Coast (RR)
Gomez
Great Pocket
Hole in the Wall
Horseshoe Pt.
Jupiter Island
Long Island
Long Point
Manatee Creek
Manatee Pocket
North Jupiter Narrows
Peck Lake
Port Salerno
Rocky Point
Rocky Point Cove
South Point
South Jupiter Narrows
St. Lucie Inlet
The Narrows

Approved:

Chas. E. Harrington

Chas. E. Harrington
Staff Geographer-C51x2

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
- ☐ FIELD INSPECTION
- ☐ FIELD EDIT
- ☐ COMPILATION
- ☐ FINAL REVIEW
- ☒ QUALITY CONTROL AND REVIEW

(See reverse for responsible personnel)

☒ TO BE CHARTED
☐ TO BE DELETED

ORIGINATING LOCATION: Rockville, Maryland

DATE: 3/28/75

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-00161

DATUM: N.A. 1927

POSITION

CHARTING NAME	DESCRIPTION	LATITUDE ° ′	LATITUDE ″ D.M.METERS	LONGITUDE ° ′	LONGITUDE ″ D.P.METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
DYBN 18	NORTH JUPITER NARROWS	27 07	13.39 412.0	80 08	53.03 1460.5			P.4 2/16/73	845-SC
LIGHT 19		27 06	51.04 1571.0	80 08	40.70 1121.0			P.4 2/16/73	"
DYBN 20		27 06	49.09 1511.0	80 08	41.97 1156.0			P.4 2/16/73	"
DYBN 21		27 06	31.03 955.0	80 08	30.73 846.5			P.4 2/16/73	"
LIGHT 23	SOUTH JUPITER NARROWS	27 05	58.63 1804.5	80 08	14.41 397.0			P.1 70E5870 2/22/73	"
DYBN 24		27 05	39.48 1215.0	80 08	14.48 399.0			P.3 2/21/73	"
DYBN 25		27 05	28.46 876.0	80 08	11.22 309.0			P.3 2/21/73	"
DYBN 1	OKEECHOBEE WATERWAY ST. LUCIE RIVER SALERNO	27 09	49.24 1515.5	80 11	26.19 721.0			P.4 2/14/73	845-SC 855-SC
DYBN 2	SALERNO	27 09	50.64 1558.5	80 11	28.58 787.0			P.4 2/14/73	"
DYBN 27	SOUTH JUPITER NARROWS	27 05	6.34 195.0	80 07	51.38 1415.5			P.4 2/21/73	845-SC

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	T. J. Bulfer	☒ FIELD INSPECTOR ☐ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	R. R. Wagner	FIELD EDITOR
	J.Battley,Jr. - P.Dempsey	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	☐ 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	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		

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

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NOAA FORM 76-40
(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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- ☐ FIELD EDIT
- ☐ COMPILATION
- ☐ FINAL REVIEW
- ☒ QUALITY CONTROL AND REVIEW

(See reverse for responsible personnel)

☒ TO BE CHARTED
☐ TO BE DELETED

ORIGINATING LOCATION: Rockville, Maryland

DATE: 3/28/75

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-00161

DATUM: N.A. 1927

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DYBN 27	SOUTH JUPITER NARROWS	27 05	6.34 195.0	80 07	51.38 1415.5			P.4 2/21/73	845-SC

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2. Positions determined and/or verified		FIELD INSPECTOR
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3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	☐ REVIEWER ☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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STATE: FLORIDA

SURVEY NUMBER: T - TP-00161

DATUM: N.A. 1927

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DYBN	ST. LUCIE INLET ENTRANCE RANGE REAR	27 09	57.94 1783.2	80 10	20.37 561.0			"	"
	EAU GALLIE-ST. LUCIE INLET								
LIGHT	ST. LUCIE CROSSOVER SOUTH RANGE FRONT	27 09	33.81 1040.5	80 10	35.95 990.0			P.1 70E5871 2/22/73	"
LIGHT	ST. LUCIE CROSSOVER SOUTH RANGE REAR	27 09	27.47 845.5	80 10	32.86 904.5			P.4 2/22/73	"
DYBN 1	GREAT POCKET	27 09	43.47 1338.0	80 10	39.81 1096.0			"	"
DYBN 3		27 09	34.54 1063.0	80 10	33.35 918.0			"	"
DYBN 5		27 09	25.55 786.5	80 10	25.24 695.0			"	845-SC
LIGHT 6		27 09	21.15 651.0	80 10	24.90 685.5			Verified P.4 2/22/73	"
DYBN 7		27 09	20.48 630.5	80 10	19.56 538.5			"	"

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TP-00161
National Archives Data

1 Field Edit Sheet

1 Plane Table Sheet

1 Discrepancy Print

4 Forms 76-40

Tide Data

1 Sketch book (sextant fixes)

Photography:

70E5870, 5871 (2 copies of 5871)
70E5872 is filed with TP-00159
70L7105R