

original

TP-00158

TP-00158

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-00158.....
TP-00158 Extension	
Classification No. Final	Edition No. ... 1.....
LOCALITY	
State Florida.....	
St. Lucie County	
General Locality ... Martin County.....	
Locality ... Stuart.....	
.....	
1970 TO 1973	
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 type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland		SURVEY TP. 00158 TP00158 - Extension MAP EDITION NO. 1 MAP CLASS Final JOB PH-6910	
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 General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, 6/19/73 OFFICE-Supplement I, 8/10/73 NOTE: Office and Field Edit Instr. (1973) incorporate applicable, prior operational instructions		2. FIELD Aerial photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000)-General Instructions for Florida Coastal Zone Mapping, 1973	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Transverse Mercator		4. GRID(S) STATE Florida ZONE East Zone	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytical LANDMARKS AND AIDS BY		D. Brant	July 1971
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat PLOTTED BY		D. Phillios	Aug. 1971
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY		Inapplicable	
INSTRUMENT: CONTOURS BY		Inapplicable	
SCALE: CHECKED BY			
4. MANUSCRIPT DELINEATION Shoreline: Graphic PLANIMETRY BY		H. Jones	Aug. 1972
METHOD: CHECKED BY		E. Dempsey	Aug. 1972
Interior: Orthophoto mosaic CONTOURS BY		Inapplicable	
SCALE: CHECKED BY		J. Taylor	Feb. 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley	Feb. 1972
6. APPLICATION OF FIELD EDIT DATA BY		R. Rich	Aug. 1972
CHECKED BY		J. Battley	Feb. 1973
7. COMPILATION SECTION REVIEW BY		P. Dempsey	July 1974
8. FINAL REVIEW BY		D. Brant	Sept. 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		D. Brant	April 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. Cator	Aug. 1975

COMPILATION SOURCES

TP-00158 and TP-00158 Extension

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8
"E" and "L" 6" focal lengthTYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

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

- (C) COLOR
(P) PANCHROMATIC
(I) INFRARED B&W

ZONE

Eastern

☒ STANDARD

MERIDIAN

60th&75th

☒ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
* 70E(C)5852-5855	2/14/70	1312	1:40,000	The stage of tide is inapplicable for the color photography.
70L8880R-8886R	2/10/70	1115	1:20,000	Refer to the following page for tide information.
70L8862R-8871R	2/10/70	1057	1:20,000	
70L7453R	8/20/70	0913	1:25,000	
70L7461R	8/20/70	0915	1:28,000	
70L6776R-6778R	8/14/70	1511	1:25,000	

REMARKS

*Mosaic assembled from these photographs.

2. SOURCE OF MEAN HIGH-WATER LINE:

The date and source of the mean high-water line is the tide-coordinated black-and-white infrared photography listed under Item 1. The map was field edited in 1973.

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

The date and source of the mean low water line is the tide-coordinated 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-00157*	TP-00159	TP-00160	No contemporary survey

REMARKS *The northwest corner of TP-00158 joins TP-00158 extension on reverse side of the map.

Final junctions were made by the Coastal Mapping Section.

TP-00158 and TP-00158 Extension
TIDE INFORMATION

3

PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
St. Lucie River including North & South Forks			
70L8880R-8886R	Stuart Tide Station	-0.27MHW	0.88
70L8862R-8871R	" " "	-0.33MHW*	"
70L7453R-7459R	" " "	-0.03MLW	"
70L6776R-6778R	" " "	-0.05MLW	"
70L7461R	" " "	-0.3 MLW	"
<p>*The stage of tide tolerance is greater than +0.3 off specified in the instruction for some of the photography used in compiling the MHWL. The horizontal position of the MHW line was verified by field edit.</p>			

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

TP-00158 and TP-00158

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION *☒ FIELD EDIT OPERATION

February 1973

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	2/9/73
2. HORIZONTAL CONTROL	R.R. Wagner	
RECOVERED BY		
ESTABLISHED BY		
PRE-MARKED OR IDENTIFIED BY		
3. VERTICAL CONTROL	W.H. Shearouse	2/12/72
RECOVERED BY		
ESTABLISHED BY		
REMARKED OR IDENTIFIED BY	R.R. Wagner	12/12/72
4. LANDMARKS AND AIDS TO NAVIGATION	R.R. Wagner (planetable)	2/12/73
RECOVERED (Triangulation Stations) BY		
LOCATED (Field Methods) BY	R.R. Wagner	1/31/73
IDENTIFIED BY		
5. GEOGRAPHIC NAMES INVESTIGATION	R.R. Wagner	1/31/73
TYPE OF INVESTIGATION		
<input type="checkbox"/> COMPLETE		
<input checked="" type="checkbox"/> SPECIFIC NAMES ONLY		
<input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	R.R. Wagner	2/12/73
CLARIFICATION OF DETAILS BY		
7. BOUNDARIES AND LIMITS	N.A.	
SURVEYED OR IDENTIFIED BY		
II. SOURCE DATA		
1. HORIZONTAL CONTROL IDENTIFIED	2. VERTICAL CONTROL IDENTIFIED	
None		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER
	See field report	STATION DESIGNATION
		70E5854 V231, L236
		70E5855 F224, G224, W231,
		TIDAL 1
G224 plots on TP-00159		
3. PHOTO NUMBERS (Clarification of details)		
70E5853 thru 5855, 70L7455R, 70L8882R, 70L8827R		
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED		
The positions of landmarks and non-floating aids were determined by field methods and photogrammetric methods.		
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER
70E5854	LT 25	70L8882R
"	LT 27	70E5854
		Radio Tower
		Tank
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE
7. SUPPLEMENTAL MAPS AND PLANS		
Central and Southern Florida Flood Control Project		
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)		
*Refer to Field Report bound with this report.		
Sketchbook Vol. 1		

NOAA FORM 76-36C
(3-72)

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

TP-00158 Extension

HISTORY OF FIELD OPERATIONS.

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION. February 1973

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	2/73
2. HORIZONTAL CONTROL		
RECOVERED BY		
ESTABLISHED BY		
PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL		
RECOVERED BY		
ESTABLISHED BY		
PRE-MARKED OR IDENTIFIED BY	None	
4. LANDMARKS AND AIDS TO NAVIGATION		
RECOVERED (Triangulation Stations) BY		
LOCATED (Field Methods) BY		
IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION		
TYPE OF INVESTIGATION		
<input type="checkbox"/> COMPLETE		
<input type="checkbox"/> SPECIFIC NAMES ONLY BY		
<input checked="" type="checkbox"/> NO INVESTIGATION	R.R. Wagner	2/73
6. PHOTO INSPECTION	R.R. Wagner	2/73
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

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

70E5852

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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)

None

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00158 and TP-00158
Extension

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

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

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		4/9/75	3 Forms 76-40 final report

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 4/9/753. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

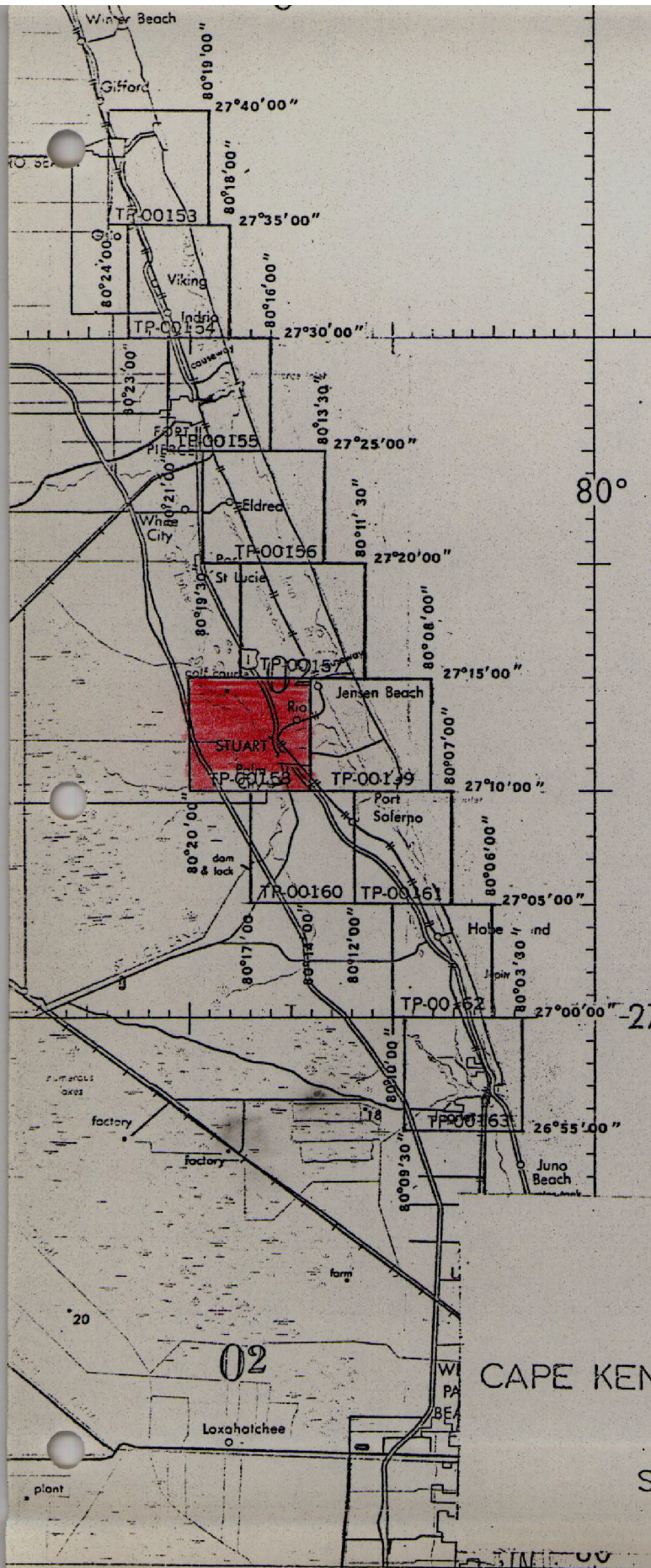
III. FEDERAL RECORDS CENTER DATA

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:
Except for missing data (CSI cards)
 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	

NOAA FORM 76-36D

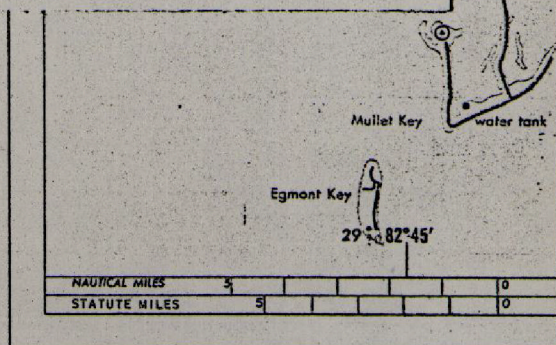


Official Mileage for Cost Accounts

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-00158

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-00158 is one of eleven (11) similar maps in project PH-6910, Part 2. The layout of sheets (page 7 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 orthophotomosaic 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	ARTESLI	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	RICAR 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-C0157	ANXONA
17	REFUGE 2 RM # 4	1967	TP-C0160	ST. LUCIE INLET
18	SEWALL	1934	TP-C0159	" " "
19	PINE	1929	TP-C0162	GOVETZ
20	CISTERN	1956	TP-C0163	HCEE SOUND
21	RADAR	1954	TP-C0164	JUPITER
22	GOLF RM # 1	1934	South of TP-C0164	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

PHOTOCGRAMMETRIC PLCT 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 5858

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 1950
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-6510 (3/2/2) was revised after the completion of the zero-triangulation operations. Refer to page 6 for revised layout.

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

JOB PH-6910

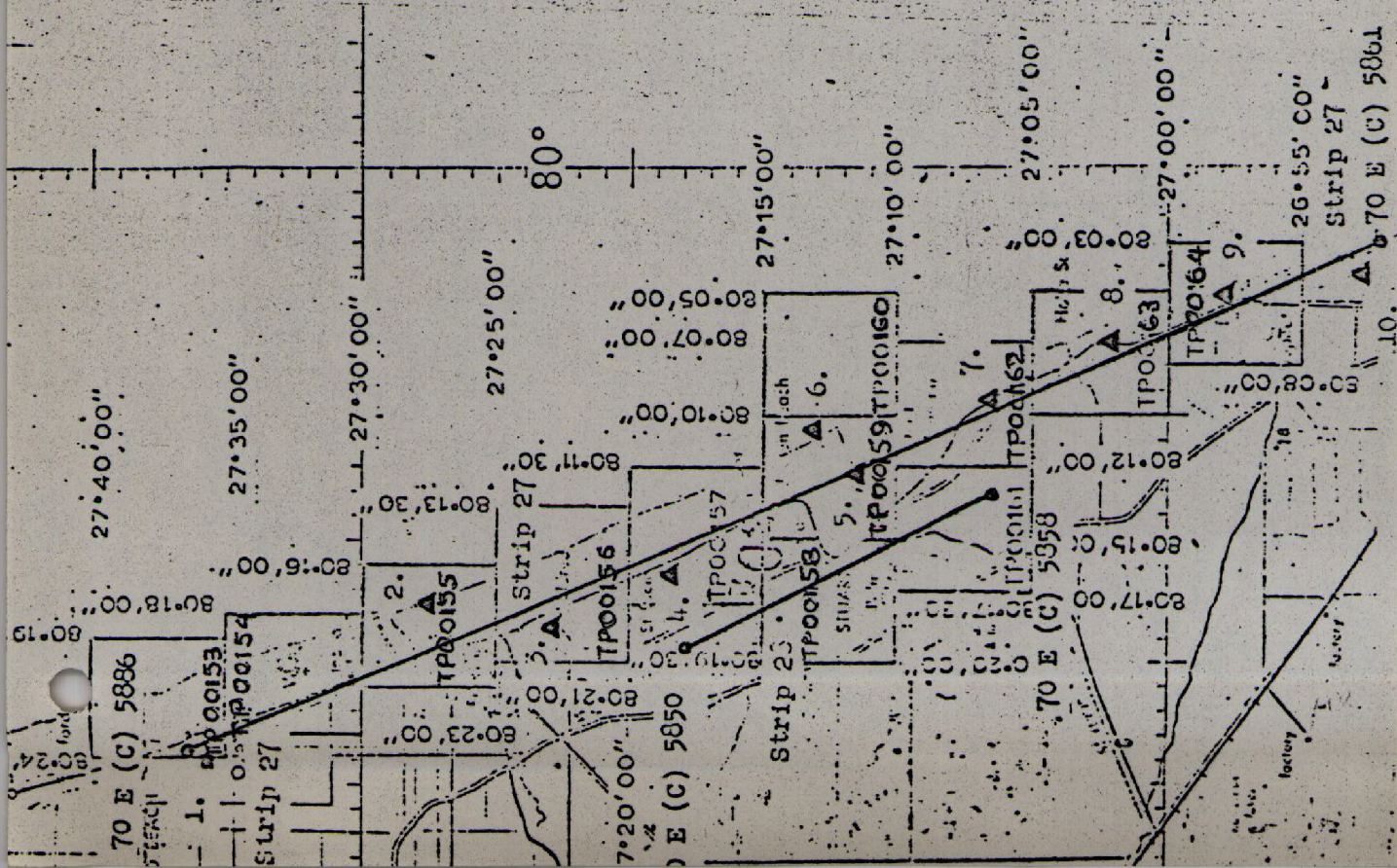
PART 2

CAPE KENNEDY TO JUPITER INLET FLORIDA

SHORELINE MAPPING

SCALE 10,000

14



Horizontal Control

Map TP-00158

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
RIO (U.S.E.), 1934	Book 421, P. 29, 57, G. P.-Fla. Vol. 1, P. 788, P. C. Fla. E Zone, P. 168
STUART, SOUTHERN BELL TELEPHONE CO., MICROWAVE TOWER, 1961	Vol. II, P. 603
BRIDGE 2 (U.S.E.), 1934	Book 421, P. 24, 38, 53, G. P.-Fla. Vol. 1, P. 788, P. C. Fla. E Zone, P. 168
MAN, 1930	Book 421, P. 6, 27, 56, G. P.-Fla. Vol. 1, P. 709, P. C. Fla. E Zone, P. 159
PINEY, 1930	Book 421, P. 6, 29, 38, 56, G. P.-Fla. Vol. 1, P. 709, P. C. Fla. E Zone, P. 159
MID, 1930	Book 421, P. 6, 28, G. P. Fla. Vol. 1, P. 710 P. C. Fla. E Zone P. 159

FLORIDA-NOAA Coastal Boundary Mapping Program

Vertical Control-Geodetic

Map TP-00158

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	NGVD 1929	
F 224	13.146	C&GS disk stamped F 224 1965; 66 ft. SE center line road, 54 ft. SW of S rail, 4.5 ft. W SW of N corner of wire fence, 1.9 ft. NE of metal witness post.
V 231	9.905	C&GS disk stamped V 231 1965; 43 ft. N of N rail, 1.5 ft. W of power pole, 1.4 ft. E of metal witness post.
W 231	15.961	C&GS disk stamped W 231 1965; 118 ft. S center line of hwy A1A, 1.3 ft. N or SW corner of bldg., set vertically in W face at SW corner of one of two most northerly bldgs.
L 236	9.039	C&GS disk stamped L 236 1965; 65 ft. NE road centerline, 16.6 ft. NW of NW rail, 1.4 ft. NE of metal witness post.
STUART, TIDAL 1	5.387	*
STUART, TIDAL 2	5.502	*
STUART, TIDAL 3	3.891	*
STUART, TIDAL 4	12.110	*
STUART, TIDAL 5 (FLA SRD)	12.398	*

* Description given under Tidal Bench Marks.

Compilation Report
TP-00158
and
TP-00158 Extension

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 north limits of the map were extended to latitude 27°17'30". Processing of both the published and registration copies will be discussed in the final review report.

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 compiled from the orthophoto mosaic 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 shown by the orthophoto mosaic.

35. Shoreline and Alongshore Detail

The tide-coordinated black and white infrared photography was adequate for the delineation of the tidal datum lines.

The MHW line was mapped on the interior waters of the St. Lucie River and its tributaries. Where the MHW line was obscured by vegetation, the apparent shoreline symbol was used. The small areas of MLW near the south limits of the map were compiled from tide-coordinated black and white infrared photography.

36. Offshore Detail

No unusual problems were encountered in the compilation of offshore details.

37. Landmarks and Aids to Navigation

The images of landmarks and non-floating aids are not visible on the photography. Their positions will be determined by field methods.

38. Control for Future Surveys - None39. Junctions

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

40. Horizontal Accuracy

This 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

USGS Quad Palm City, Fla., 1:24,000, 1970
USGS Quad St. Lucie Inlet, Fla., 1:24,000, 1970
USGS Quad Ankona, Fla., 1:24,000, 1970

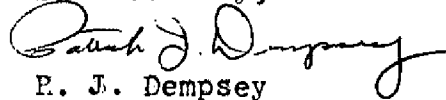
No significant differences were noted.

47. Comparison with Nautical Charts

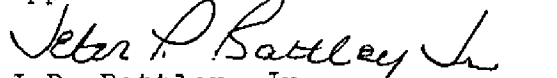
Chart 1247, 1:80,000, 4th edition, Feb. 17, 1969
855-SC, 1:40,000 9th edition, Oct. 9, 1971

No significant differences were noted.

Submitted by;


E. J. Dempsey

Approved and forwarded:


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

Field Edit Report, Map TP-00158, Job PH-6910

51. METHODS

The shoreline was verified visually from a small boat while cruising just off-shore. Notes regarding apparent and fast shoreline, piers and other shoreline structures were made on the photographs.

Three landmarks are recommended for charting. Form 76-40 is submitted. A radio mast and a tank were photo-identified on the photographs. A cable T.V. mast was not in place at the time of photography and its position was cut in on photo 70E5853.

Bench marks were searched for, identified on the photographs and reported on Form 685A.

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

State and Federal highway numbers are shown on the photographs.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were required.

54. RECOMMENDATIONS

None.

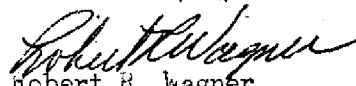
55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

See report attached.

Submitted 2/14/73



Robert R. Wagner
Chief, Photo Party 60

Field Edit Report, Map TP-00158 Extension, Job PH-6910

51. METHODS

The shoreline was verified visually from seaward in a small craft. Additions and corrections are indicated on photograph 70E5852 and the Field Edit Film Ozalid. All notes regarding apparent and fast shoreline, piers and other structures, are shown on these two documents.

No landmarks were submitted.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were required.

54. RECOMMENDATIONS

None.

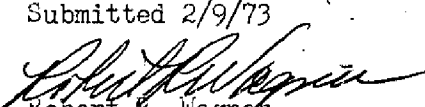
55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

A complete names investigation was not required. No conflict of charted names was noted during field operations.

Submitted 2/9/73


Robert R. Wagner
Chief, Photo Party 60

GEOGRAPHIC NAME REPORT
TP-00158

The name shown as County Line Canal on TP-00158 is incorrect. No one could be found that knew this canal by this name. All the maps in the County engineering office at Stuart and the Central and Southern Florida Flood Control Project calls this canal C-23. See attached map.

Robert R. Wagner
Chief Clerk, Putney Co.
2/14/73

*This change was verified 4/6/73
by Dr. Wraight & corrected on
names standard.*

Review Report
Coastal Zone Map TP-00158 and TP-00158 Extension
April 1974

61. General

The north limits of this map were extended to latitude 27°17'30". This extension was necessary in order to map the tidal waters to the limits of the photography. Map TP-00158 Extension is published on the reverse side of Map TP-00158. It was necessary to make two separate maps for registration because of the transparent material used for the base. The registration copies of these maps will be numbered and registered as TP-00158 and TP-00158 Extension.

This map (TP-00158 and TP-00158 Extension) was reviewed in its Class I stage (field edit applied). The review consisted of an examination of the following:

- The map manuscript;
- Photography;
- Field edit and its application;
- Reproduction negatives
- Descriptive report.

A proof copy of this map (TP-00158 and TP-00158 Extension) was examined by the Quality Control Group prior to its printing. 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:

- Staff Geographer - Geographic Names;
- Coastal Surveys - Horizontal and vertical control;
- Coastal Mapping - Map details.

62. Cartographic Comparisons

Comparison was made with the following USGS Quadrangles:

- St. Lucie Inlet, FL, 1948, 1:24,000 scale, photorevised 1970;
- Palm City, FL, 1948, 1:24,000 scale, photorevised 1970;
- Ankona, FL, 1948, 1:24,000 scale, photorevised 1970.

No significant differences were found.

Comparison was made with Nautical Chart 11428 scale 1:40,000, 12th Edition, August 24, 1974.

A small islet located west of Taylor Point is shown on Chart 11428. This islet is not visible on the photography.

A rock awash at MLW is shown on map TP-00158 along the south shore of the St. Lucie River at the approximate longitude of 80°15'. This rock awash was located by the field edit of 1972 and it is not shown on Nautical Chart 11428.

Nautical Chart 11428 shows a wreck at the entrance to Pendaris Cove. Map TP-00158 shows two piles. No mention of this wreck was made by the field edit of 1973.

The comparison shows numerous differences in the positions of piers and pier ruins in the St. Lucie River and the North and South Forks. Also, there are differences in the positions and the number of piling shown.

The information shown on the Published Map and Registration Copy was compiled from 1970 photography and was verified by the field edit of 1973.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

Coastal Zone Maps TP-00158 and TP-00158 Extension complies with the instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000, and with the National Map Standards of Accuracy.

Submitted by,

Donald M. Brant
Donald M. Brant

Approved,

W. H. G. [Signature]
Chief, Photogrammetric Branch

W. H. G. [Signature]
Chief, Coastal Mapping Division

3 April 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

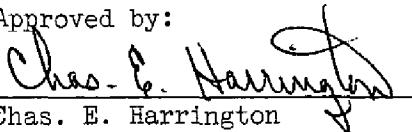
Ph-6910 (Florida)

TP-00158

Arbeau Point
Bessey Creek
Bessey Creek Point
Bessey Point
Blakeslee Creek
Britt Creek
Britt Point
C-23 (canal)
Coconut Point
Danforth Creek
Diversion Canal
Dyer Point
Florida East Coast (RR)
Frazier Creek
Greenridge Point
Head Point
Howard Creek
Jenkins Point
Kitching Cove
Lighthouse Point (locality)
Long Cove
Matchett Point
Mile Lake
Mud Cove
North Fork St. Lucie River
North River Shores
Palm City
Port St. Lucie
Poppolton Creek
Pendarvis Cove
Pendarvis Point

Rio
St. Lucie River
South Fork St. Lucie River
Spruce Bluff
Stuart
Taylor Point
Warner Creek
Winters Creek

Approved by:



Chas. E. Harrington
Staff Geographer-C51x2

U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION										
NONFLOATING AIDS OR LANDMARKS FOR CHARTS										
NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		ORIGINATING LOCATION		DATE		ORIGINATING ACTIVITY				
		Rockville, Maryland		10/9/74		<input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input type="checkbox"/> FINAL REVIEW <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW (See reverse for responsible personnel)				
The following objects have (have not) been inspected from seaward to determine their value as landmarks:										
CHARTING NAME	JOB NUMBER PH-6910 STATE: Florida	SURVEY NUMBER T-TP-00158	DESCRIPTION	DATUM N.A. 1927			METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		CHARTS AFFECTED	
				LATITUDE	LONGITUDE	FIELD INSPECTION	COMPILATION	FIELD EDIT		
				DIMETERS	DIMETERS	DIMETERS				
LIGHT 22			Okeechobee Waterway St. Lucie River	27 12	33.25	80 14	32.25		2/7/73 P.4	855-SC
LIGHT 23				27 12	1023.5	80 14	887.5		"	"
DAYBN 1			North Fork (Private Aids)	27 12	25.03	80 14	24.16		1/31/73 P.4	"
DYBN 2				27 12	770.5	80 15	665.0		"	"
DYBN 3				27 12	072.5	80 16	041.0		2/6/73 P.4	"
DYBN 4				27 12	06.50	80 16	45.47		2/7/73 P.4	"
DYBN 6				27 14	200.0	80 18	1251.5		"	"
DYBN 7				27 14	22.68	80 18	08.32		"	"
DYBN 24			Okeechobee Waterway St. Lucie River	27 11	698.0	80 15	229.0		1/31/73 P.4	24
					50.60	80 16	43.37		"	"
					1557.5	80 18	1193.5		"	"
					23.31	80 18	45.92		"	"
					717.5	80 18	1263.5		"	"
					22.22	80 18	55.77		"	"
					684.0	80 18	1534.5		"	"
					47.13	80 15	1420.5		"	"
					1450.5	80 15	1420.5		"	"

RESPONSIBLE PERSONNEL		TITLE
TYPE OF ACTION	NAME	
1. Objects inspected from seaward	P. R. Wagner	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	R. R. Wagner	FIELD EDITOR
	P. Demspey	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	<input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR METHOD AND DATE OF LOCATION SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.

COLUMN TITLE

TYPE OF ENTRIES

COMPILATION

Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.

FIELD INSPECTION

AND

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

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		TITLE	
TYPE OF ACTION	NAME		
1. Objects inspected from seaward	R. R. Wagner	<input type="checkbox"/> FIELD INSPECTOR	<input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR	
	R. R. Wagner	FIELD EDITOR	
	P. Dempsey	COMPILER	
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	<input type="checkbox"/> REVIEWER	<input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.

COLUMN TITLE

TYPE OF ENTRIES

COMPLATTON

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

EXAMPLES:

F. 3.c

P. 2

Immediately beneath the data described above, enter the following:

a. For 'Field Positions' enter the date of location.

b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

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

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

U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION										ORIGINATING ACTIVITY			
NONFLOATING AIDS OR LANDMARKS FOR CHARTS										<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)			
DATE										DATE			
Rockville, Maryland										10/9/74			
The following objects have (have not) been inspected from seaward to determine their value as landmarks:													
JOB NUMBER		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION		FIELD INSPECTION		FIELD EDIT		CHARTS AFFECTED	
PH-6910		T -		N.A. 1927		(See instructions on reverse of this form)							
STATE: Florida		TP-00158		POSITION									
CHARTING NAME		DESCRIPTION		LATITUDE		LONGITUDE							
				D.M. METERS		D.M. METERS							
T.V. Tower	Cable T.V. Tower Ht=448(456)	27 14	12.85	80 16	26.91					*70L5853 2/12/73 P.3		855-SC 1247	
Radio Tower	WSTU Radio Tower Ht=229(233)	27 12	395.5	80 15	740.5					70L8882R 1/31/73 P.1		855-SC 1247	
TANK	Ht=133(147) Tank on top of steel tower	27 11	53.33	80 15	23.84					70E5854 1/31/73 P.1		855-SC	
			1641.5		656.0								
			44.19		1.25								
			1360.0		34.5								
										* P.3 on Photo 70L5853			

RESPONSIBLE PERSONNEL		TITLE
TYPE OF ACTION	NAME	
1. Objects inspected from seaward	R. R. Warner	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	R. R. Warner	FIELD INSPECTOR
	P. Dempsey	FIELD EDITOR
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing Don Brant	COMPILER <input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.

COLUMN TITLE

TYPE OF ENTRIES

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

Immediately beneath the data described above, enter the following:

a. For 'Field Positions' enter the date of location.

b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

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

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

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

TP-00158
Federal Records Center Data

- 1 Field edit sheet for TP-00158
- 1 Field edit sheet for TP-00158 Extension
- 1 Discrepancy Print TP-00158
- 1 Discrepancy Print TP-00158 Extension
- 3 Forms 76-40 (Nonfloating Aids or Landmarks for Charts)
- 2 Forms 76-36C (History of Field Operations)
- 1 Tide information for Sheet No. TP-00158
- 1 Sketchbook Vol. 1 for TP-00158

Photographs:

70E(C) 5852 thru 5855

70L 8882R and 70L 7455R