

Original

TP-00157

TP-00157

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-00157 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	
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	
1. AEROTRIANGULATION METHOD: Analytic		DATE D. Brant 8/71 LANDMARKS AND AIDS BY Inapplicable	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat		DATE D. Phillips 8/71 PLOTTED BY CHECKED BY Inapplicable	
3. STEREOGRAPHIC INSTRUMENT COMPILEATION INSTRUMENT: SCALE:		DATE Inapplicable PLANIMETRY BY CHECKED BY Inapplicable	
4. MANUSCRIPT DELINEATION Shoreline: Graphic METHOD: Interior: Orthophoto mosaic		DATE P. Dempsey 8/72 J. Richter 8/72 PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY Inapplicable	
SCALE:		DATE J. Taylor 8/72 J. Battley 1/73 CHECKED BY	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		DATE J. Battley 8/72	
6. APPLICATION OF FIELD EDIT DATA		DATE R. Rich 1/73	
7. COMPILEATION SECTION REVIEW		DATE J. Battley 1/73	
8. FINAL REVIEW		DATE D. Brant 7/74	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		DATE	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		DATE D. Brant 7/74	
11. MAP REGISTERED - COASTAL SURVEY SECTION		DATE R. Cator 8/75	

TP-00157

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S)	TIDE STAGE REFERENCE	TYPES OF PHOTOGRAPHY LEGEND	TIME REFERENCE	
			ZONE	MERIDIAN
Wild RC-8	<input type="checkbox"/> PREDICTED TIDES	(C) COLOR	Eastern	<input checked="" type="checkbox"/> STANDARD
E&L cameras 6" focal length	<input type="checkbox"/> REFERENCE STATION RECORDS	(P) PANCHROMATIC		
	<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY	(I) INFRARED B&W	60th & 75th	<input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
70E(C) 5875 - 5877	2/14/70	13:45	1:40,000	The stage of tide is inapplicable for color photography.
70L7087R-7090R	8/17/70	08:36	1:25,000	(1)+0.15MHW(2)+0.18MHN
70L6356R-6360R	8/12/70	09:37	1:25,000	(3)+0.07MLW
70L8816R	2/10/70	10:12	1:20,000	(2)-0.30MHW
70L8820R-8824R	2/10/70	10:26	1:20,000	(2)-0.26MHW

REMARKS * Photographs used for the orthophoto mosaic.

Refer to attached page for tide stations.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide coordinated black and white infrared photography listed under item 1. Foreshore profiles determined by the field edit of 1972 verified the MHW line on the photography along the Atlantic shore.

The Nettles Island shoreline was mapped from field edit data of 1972. These changes occurred after the 1970 photography was taken and were caused by construction of bulkheads.

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

The source of the MLW line (Atlantic shore) is the tide coordinated infrared photography listed under item 1. There is no MLW line mapped in the Indian River. Foreshore profiles determined by the field edit of 1972 verified the MLW line on the photography along the Atlantic shore.

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-00156	No contemporary survey	TP-00158 TP-00159	No contemporary survey

REMARKS

Final junctions were made in the Coastal Mapping Section.

Tide Stations

Atlantic Ocean:

(1) MHWL, Fort Pierce Inlet Tide Station Range = 1.84'
(3) MLWL, Jupiter Inlet Tide Station Range = 2.46'

Indian River:

(2) MHWL, Fort Pierce Indian River Tide Station Range 1.25'

TP-00157

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION * FIELD EDIT OPERATION. Dec. 1972

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. R. Wagner	10/72
2. HORIZONTAL CONTROL	W. H. Shearouse ESTABLISHED BY RECOVERED BY PRE-MARKED OR IDENTIFIED BY	1/72 N. A. N. A.
3. VERTICAL CONTROL	W. H. Shearouse ESTABLISHED BY RECOVERED BY PRE-MARKED OR IDENTIFIED BY	1/72 N. A. R. R. Wagner 10/72
4. LANDMARKS AND AIDS TO NAVIGATION	R. R. Wagner LOCATED (Field Methods) BY RECOVERED (Triangulation Stations) BY IDENTIFIED BY	9/72 R. R. Wagner 9/72
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	One name changed
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. R. Wagner 10/72
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N. A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	See Field Report	70E5875	R231, S231, M236, M307, N307(SRD), G308
		70E5877	E225, Z225, J236, L307, D308, E308
		Field Edit sheet	TIDAL 1 CEMETERY, FRANZ, JEN 2, WALTON

3. PHOTO NUMBERS (Clarification of details)

70E5785, 5877, 70L6357R, 8821R, 8823R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Aids to navigation located by T-2, there are no landmarks.

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)

*Refer to Field Report bound with this descriptive report.
1 book, Vol. 1T-2 and Sextant fixes.

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

TP-00157

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No map copies furnished to Marine 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
	1079-74	8/20/74	One report submitted

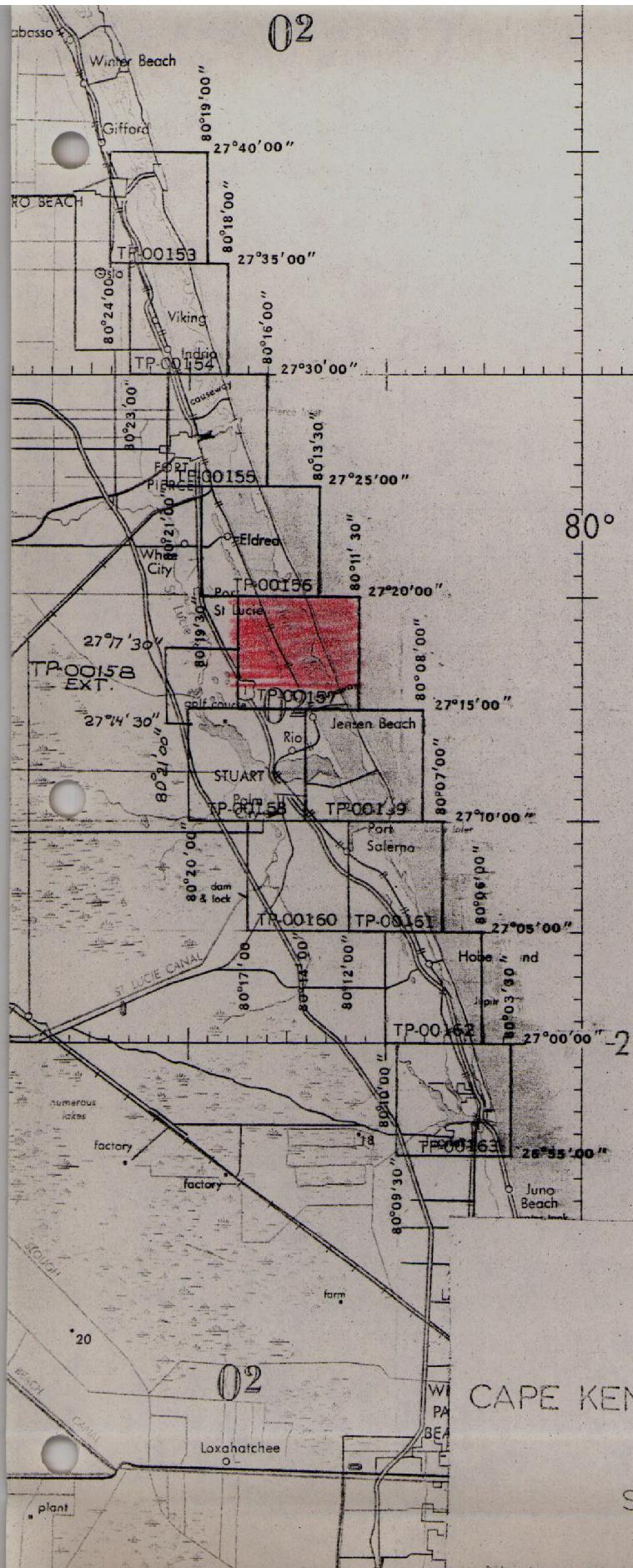
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 8/20/74
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

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

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY <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 <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 <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	



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

NAUTICAL MILES	5	0
STATUTE MILES	5	0

JOB PH-6910

PART 2
CAPE KENNEDY TO JUPITER INLET
FLORIDA

SHORELINE MAPPING
SCALE 10,000

Record of Decisions
TP-00157

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-00157 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 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, CAPS 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	CAPE CANAVERAL
2	ARTESLI	1953	" "
3	PCSE	1966	COCCA BEACH
4	MUNSON	1940	"
5	PATRICK N. BASE	1960	TROPIC
6	TRIPCD 3	1963	"
7	COLLEGE 2	1934	MELBOURNE EAST
8	TURKEY CREEK	1934	GRANT
9	VALKARIA	1966	SEBASTIAN NW
10	SLIP 2	1934	SEBASTIAN
11	SEBASTIAN 2	1934	VERO BEACH
12	SCORPION 2	1961	INDRILO
13	RIVAR 2	1960	FORT PIERCE
14	PIERCE 2	1963	" "
15	WHITE 2	1966	TP-00156

STATION NO.	NAME	MAP NO.	USGS QUADRANGLE
16	WALTON	1930	ANKONA
17	REFUGE 2 RM # 4	1967	ST. LUCIE INLET
18	SEAWALL	1934	" " "
19	PINE	1929	GOMDZ
20	CISTERN	1956	HOBK SOUND
21	RADAR	1954	JUPITER
22	GOLF RM # 1	1934	RIVIERA BEACH
			TP-00164

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

PHOTOCRAMETRIC 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 5858

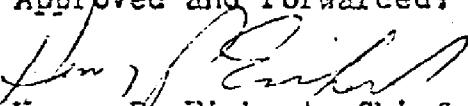
The definition and quality of the photography was good.

Respectfully submitted,



Donald W. Brant

Approved and Forwarded:



Henry F. Eichert, Chief
Aerotriangulation Section

CONTROL

1. 72804 (Tie from Strip 26)

2. PIERCE 2 1963

3. WHITE 2 1966

4. WHITON 1950

5. REFUGE 2 RM 4 1934

6. SEAWALL 1898 *The map layout for PH-6910(801/2)
was revised after the completion
of the 1929 1:20,000 scale
operation. Refer to page 6.*

7. PINE 1929

8. CISTERNS 1956 *For revised layout.*

9. RADAR 1955

10. GOLF RM 1 1934

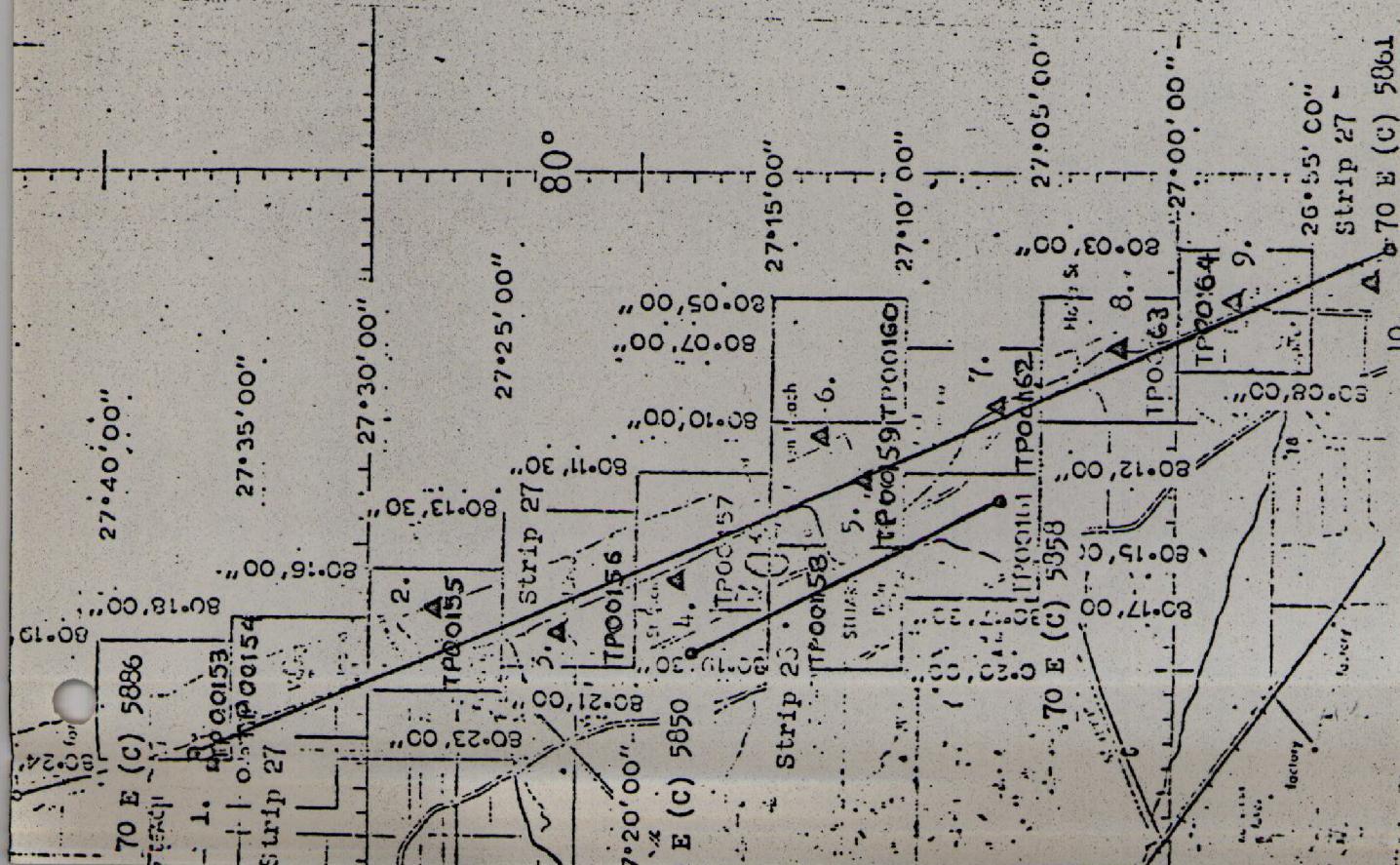
■ Tie point used in adjustment

▲ Horizontal control used in adjustment

● 1:10,000 scale photography

JOB PH-6910

PART 2

CAPE KENNEDY TO JUPITER INLET
FLORIDASHORELINE MAPPING
SCALE 1:10,000

FLORIDA- NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP- 00157

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
CEMETERY, 1906	Book 421, P. 3, 24, 32, 43, 45, G.P.-Fla. Vol. 1, P. 157, P.C. Fla. E.Zone, P. 20
FRANZ, 1934	Book 421, P. 2 G.P.-Fla. Vol. 1, P. 157, P.C. Fla. E Zone, P. 20
JEN 2, 1934	Book 421, P. 3, 26, 48 G.P.-Fla. Vol. 1, P. 157, P.D. Fla E Zone, P. 20
WALTON, 1930	Book 421, P. 2, 32, 43, 52 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- 00157

Geodetic Bench Mark	Elevations (feet) NGVD 1929	Condensed Description
L 307	4.134	C&GS disk stamped L 307 1970; 50.5 ft. W of centerline AlA, 1.3 ft. S of concrete right-of-way marker, 0.4 ft. E of metal witness post, on top of steel rod.
M 307	4.708	C&GS disk stamped M 307 1970; 93 ft. SW of center junction hwy., and driveway leading E, 47 ft. W centerline AlA, 2.5 ft. N power pole, 0.4 ft. E of metal witness post.
N 307 (SRD)	9.088	SRD disk stamped N 307; set in top of E end of S concrete curb of most easterly of 3 concrete bridges, 14.5 ft. S centerline hwy., 1.1 ft. W of E end of curb.
D 308	4.675	C&GS disk stamped D 308 1970; 65 ft. SE of center of junction AlA and narrow road leading E, 46 ft. E centerline AlA, 51 ft. S centerline of road, 2.4 ft. S metal witness post.
E 308	5.692	C&GS disk stamped E 308 1970; 47 ft. E centerline AlA, 78 ft. N of 4-inch sq., 4 ft. high concrete post, 1.7 ft. N of metal witness post.
G 308	5.932	C&GS disk stamped G 308 1970; 73 ft. NW centerline junction AlA and sand road leading E, 50 ft. W centerline AlA, 1.5 ft. N of concrete right-of-way marker, 36 ft. N along fence from N gate post.
FRANZ	12.664	C&GS disk stamped FRANZ 1934; near NE corner of clearing, 18 ft. W centerline road, 9.5 ft. NW of 4-inch sq. concrete post, 1.3 ft. N of metal witness post.
JEN 2	6.804	C&GS disk stamped JEN 2 1934 1944; 53 ft. N centerline driveway, 13 ft. W centerline of old N-S road, 2.2 ft. W of metal witness post.
E 225	37.188	C&GS disk stamped E 225 1964; 55 ft. W of W rail, 2 ft. S power pole, 0.8 ft. E of metal witness post.
Z 225	34.987	C&GS disk stamped Z225 1964; about 0.1 mile N of milepost No. 251, 0.15 mile S of semaphore No. 2506, 14.7 ft. E of E rail, 0.8 ft. S of metal witness post.

FLORIDA - NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP- 00157

Geodetic Bench Mark	Elevations (feet) NGVD 1929	Condensed Description
CEMETERY	79.951	C&GS disk stamped CEMETERY 1906 1934; 101 ft. E centerline Dr., 13.4 ft. NW of NE corner of an 11 ft. sq. concrete building, 1.4 ft. W of metal witness post, at 410 Skyline Dr.
WALTON	39.209	C&GS disk stamped WALTON 1930; 144 ft. E of E rail, 113 ft. W centerline of Ridge Ave., 107 ft. S centerline driveway.
R 231	26.765	C&GS disk stamped R 231 1965; 23.1 ft. E of E rail, 20 ft. SW centerline driveway, 1.8 ft. N of metal witness post.
S 231	15.177	C&GS disk stamped S 231 1965; 92 ft. N road centerline, 32 ft. W of W rail, 2 ft. S of telegraph pole with metal witness post.
J 236	24.570	C&GS disk stamped J 236 1965; 186 ft. SW of milepost No. 253, 56 ft. W of W rail, 21.5 ft. E centerline of N-S sand road, 1.5 ft. N power pole, 1.9 ft. S of metal witness post.
M 236	18.891	C&GS disk stamped M 236 1965; 56 ft. W of W rail, 1 ft. E of metal witness post, at the approx. extended centerline of Mocking Bird Hill Rd.

Compilation Report
TP-00157

31. Delineation

The land area of this map is shown by an orthophoto mosaic. The orthophoto mosaic was assembled with black-and-white rectified prints from the color photography. The rectified prints and mosaics were controlled by points determined by aerotriangulation.

The tidal datum lines and 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 and MLW lines were mapped along the Atlantic Ocean. Foreshore profiles are requested for the verification of these lines on the photography because of wave action.

The MHW line was mapped on the interior waters of the Indian River. Where the MHW line was obscured by vegetation, the apparent shoreline symbol was used. The MLW line was not mapped along the interior waters.

36. Offshore Detail

Spoil banks are subject to change in size and position.

37. Landmarks and Aids to Navigation

There are no charted landmarks on this map. Lights 209 and 214 were located by photogrammetric methods and will be verified by the field editor. The remaining aids will be located by field methods.

38. Control for Future Surveys

Tidal bench marks established by the Tide Observation Party.

39. 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 Quadrangles Eden, Fla., 1:24,000, 1950, and Ankona, Fla., 1:24,000, 1950.

No significant differences were noted.

47. Comparison with Nautical Charts

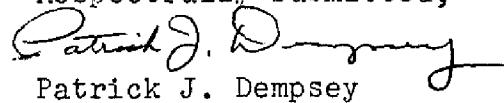
845-SC, 10th edition, August 7, 1971

No significant differences were noted.

Items to be Applied to Nautical Charts Immediately - None.

Items to be Carried Forward - None.

Respectfully submitted,


Patrick J. Dempsey

Approved and forwarded:


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

Field Edit Report, Map TP-00157, Job PH-6910

51. METHODS

The Atlantic Ocean shoreline was verified visually from roads leading to the shore or by walking where necessary. The only discrepancy is a sea wall, to be added, at the park near the junction of state roads A1A and 707A. The sea wall is indicated on photograph 70L8847R. Shoreline of the Indian River was verified visually from a skiff while cruising just offshore. Notes regarding apparent and fast shoreline, piers and other shoreline structures were made on the rectified photographs with cross referenced to HW & LW photographs for clarification.

No landmarks were submitted.

Form 76-40 is submitted for nonfloating aids. Theodolite cuts were used to locate the 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.

State and Federal highway numbers were obtained during the course of travel and are shown on the photographs.

Investigation was made of a group of rocks at approximate Lat. $27^{\circ}19.0'$ and Long. $80^{\circ}15.8'$. The rocks were located by sextant fix on 10/10/72 at 12:15 Daylight Saving Time. The rocks were covered by 1 foot. There was a tide gage in operation at Nettles Island that could be used to obtain Mean Water Level of Indian River.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were required.

54. RECOMMENDATIONS

None.

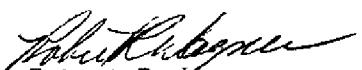
55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

See report attached.

Submitted 12/12/72

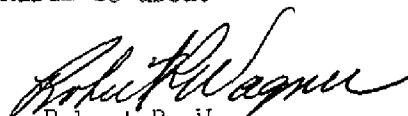


Robert R. Wagner
Chief, Photo Party 60

GEOGRAPHIC NAME REPORT
TP-00157

No investigation of names was required, however, a conflict was discovered during field edit. At approximate position Lat 27° 15.3' and Long 80° 13.2' the charted name of the bridge is JENSEN BEACH BRIDGE. At each end of this bridge there is a large concrete monument with a bronze plate that states "THE FRANK A. WACHA BRIDGE designated by 1965 Legislature of Florida".

It is recommended that "THE FRANK A. WACHA BRIDGE be used.


Robert R. Wagner
Chief, Photo Party 60

Remarks: Application of Field Edit for TP-00157

Foreshore profiles determined by field edit verified the tidal datum lines along the Atlantic Ocean on the tide-coordinated black and white infrared photography.

Review Report TP-00157
Coastal Zone Map
August 1974

61. The map manuscript for TP-00157 was reviewed in its Class I (field edit applied) stage by the Quality Control Group. The review consisted of an examination of the following major parts of the map:

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

During this examination omissions and deletions were noted on an overlay and returned to the Coastal Mapping Section for application to the map. The proof copy of this map was edited by the Quality Control Group. A careful inspection of all map details to verify the accuracy of reproduction with reference to the map manuscript and the quality of reproduction was made.

The shoreline on this map was symbolized in accordance with ongoing decisions set forth by officials of the National Ocean Survey. The 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 and checked by the Coastal Mapping Section for Marine Charts. This Registration Copy shows additional offshore information such as "shallow" and "shoal" areas not shown on the published map.

Also, the interpretation of the tide-coordinated black and white infrared photography shows some shallow areas that uncover at near mean low-water. Where this exists, the areas are labeled "tint" and when used for Nautical Chart compilation, should be shown with a "green tint" without an outline. This will represent the approximate mean low-water line. Several such areas are on map TP-00157.

63. thru 64. Inapplicable.

65. Cartographic Comparison

A comparison was made with USGS quadrangles Eden, Florida, 1949, 1:24,000 scale, photorevised 1970, and Ankona, Florida, 1949, 1:24,000 scale, photorevised 1970.

Numerous culture changes were noted. These changes are due to new construction.

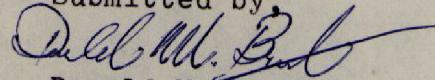
A comparison was made with Nautical Chart 845-SC, 12th edition, dated September 8, 1973, scale 1:40,000.

The comparison shows numerous differences in the positions of piers and pier ruins along the west shore of the Indian River. Also noted were differences in the positions and additional numbers of piling. The information shown on the Published Map and Registration Copy was compiled from 1970 photography and was verified by the field edit of December 1972. No mention was made about these differences by the field editor.

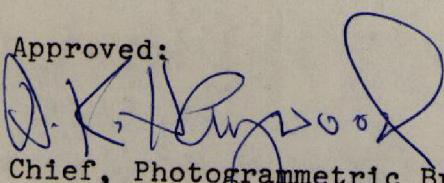
66. Adequacy of Results and Future Surveys

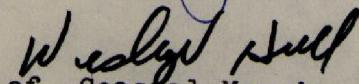
Coastal Zone Map TP-00167 complies with the instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000, and with the National Map Standards of Accuracy.

Submitted by,


Donald M. Brant

Approved:


D. K. Hargrove
Chief, Photogrammetric Branch


W. E. G. Hull
Chief, Coastal Mapping Division

July 16, 1974

GEOGRAPHIC NAMES

FINAL NAMES SHEET

PH-6910 (Florida)

}

TP-00157

Eden

Henderson Pond

Hutchinson Island

Indian River

Jensen Beach

Frank A. Wacha Bridge

Lake Eden

Martin Co.

Nettles Island

St. Lucie Co.

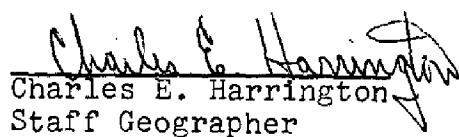
Florida East Coast R.R.

The Savannahs

Walton

Waveland

Approved:



Charles E. Harrington
Staff Geographer

NONFLOATING AIDS OR LANDMARKS FOR CHARTS		ORIGINATING ACTIVITY	
<input checked="" type="checkbox"/> TO BE CHARTED	<input type="checkbox"/> ORIGINATING LOCATION	<input type="checkbox"/> FIELD INSPECTION	<input type="checkbox"/> FIELD EDIT
<input type="checkbox"/> TO BE DELETED	Rockville, Maryland	<input type="checkbox"/> COMPILATION	<input checked="" type="checkbox"/> FINAL REVIEW
The following objects have (have not) been inspected from seaward to determine their value as landmarks:		(See reverse for responsible personnel)	

JOB NUMBER PH- 6910	STATE: MD	SURVEY NUMBER T- TP- 00157		ORIGINATING LOCATION N. A. 1927		DATE 10/11/72		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		CHARTS AFFECTED	
		CHARTING NAME	DESCRIPTION	POSITION	LATITUDE	LONGITUDE	FIELD INSPECTION	COMPILATION	FIELD EDIT	FIELD INSPECTION	D.P. METERS
EAU GALLIE-ST. LUCIE INLET Indian River (South Section)											
DYBN 208				27 19	42.28	80 15	37.73			P.2	845-SC
LIGHT 209				27 19	1301.	1037.2				9/14/72	
DYBN 210				27 19	16.42	80 15	21.14		2/14/70 P.2 Verif.	"	
DYBN 211				27 18	505.3	80 15	581.3		70E5877 9/13/72	P.2.	
DYBN 212				27 18	52.03	80 15	10.36		"	"	
DYBN 213				27 18	1602.0	80 15	285.0		9/13/72		
LIGHT 214				27 18	26.67	80 14	54.24			"	
DYBN 215				27 18	821.0	80 14	1491.3			"	
DYBN 216				27 18	1.04	80 14	42.91			"	
				27 18	032.0	80 14	1179.9			"	
					38.49	80 14	28.20			"	
				27 17	1184.6	80 14	775.5			"	
				27 17	12.61	80 14	16.69		2/14/70 P.2 Verif.	"	
				27 17	388.0	80 14	459.0		70E5876		
				27 17	49.42	80 14	1.84		P.2	"	
				27 17	1521.0	80 14	050.5		9/13/72	"	
		Coast Guard rebuilt on		27 16	24.05	80 13	50.22		"	"	
		9/11/72		27 16	740.3	80 13	1381.3			"	24

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
1. Objects inspected from seaward	Robert R. Wagner
2. Positions determined and/or verified	Robert R. Wagner
3. Forms originated by Quality Control and Review Group and final review activities	D. Brant—Copy checked after typing and submitted to Marine Charts

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

FIELD INSPECTION
AND
FIELD EDIT

FIELD INSPECTOR

F – Field

P – Photogrammetric

EXAMPLES:

- 1. Triangulation
- 2. Traverse
- 3. Intersection
- 4. Resection
 - 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 'Vert. mo/day/yr.'

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

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

COMPILATION

FIELD INSPECTION

FIELD EDIT

immediately beneath the data described above, enter the following:

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.

NOAA FORM 76-43

TP-00157
Federal Records Center Data

- 1 Discrepancy Print
- 1 Field Edit Sheet
- 1 Graphic Sheet (Foreshore profiles)
- 2 Forms 76-40 (Nonfloating Aids or Landmarks for Charts, originally from field)
- 1 Copy of tide information from Coastal Mapping Section
- 1 Form 76-36C (History of Field Operations)
- 1 Book (T-2 and Sextant fixes)

Field photography:

1:10,000 scale
70E5875, 5877
70L6357R, 8821R, and 8823R