original

TP-00104

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-6716 *Map No.* TP-00104

Classification No. Final *Edition No.* I

Field Edited Map

LOCALITY

State Florida

General Locality Brevard County
Volusia County

Locality Tiger Shoal to Pardon Island

1967 TO 1970

REGISTRY IN ARCHIVES

DATE MAY 16 1974

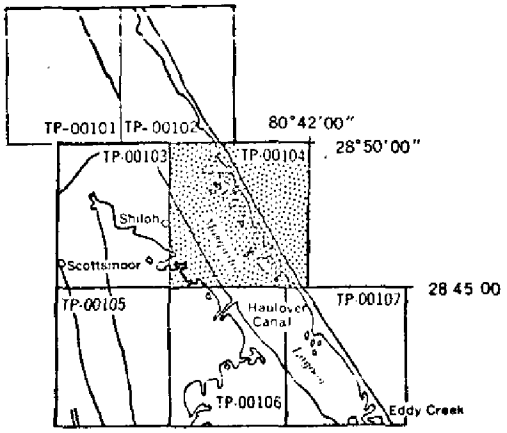
☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-599

TP-00104

SUPPLEMENTAL CONTROL DATA FOR COASTAL ZONE MAP

TP-00104

INDEX TO ADJOINING SHEETS



Florida
Brevard County – Volusia County
Pardon Island to Tiger Shoal
February 1973

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
T 210	9.446	C&GS disk stamped T 210 1963; 221 ft. NE centerline of old highway, 346 ft. NE centerline present highway, 3 ft. W of pole.
EDGAR	2.267	C&GS disk stamped EDGAR 1934; 26 ft. SW of HWL, 5.5 ft. N of witness post, 10.5 ft. S of witness post, 10.5 ft. W of witness post.
EDGAR RM 4	3.993	C&GS disk stamped EDGAR NO. 4 1934; 34 ft. S centerline of road, in pine trees, 130 ft. W of HWL.
U 210	8.182	C&GS disk stamped U 210 1963; 38 ft. E of E end of culvert, 83 ft. NE centerline of highway, 24 ft. NE centerline of sand road.
F 211	11.201	C&GS disk stamped F 211 1963; 215 ft. SW centerline of highway, 1.5 ft. SE of witness post, on steel rod in tile, projecting 2 inches.
X 208	6.798	C&GS disk stamped X 208 1963; 20 ft. NE centerline of road, 2 ft. SE of witness post, in concrete post projecting 8 inches.
MARK	7.854	C&GS disk stamped MARK 1949; 29 ft. NE centerline of road, 2 ft. SE of witness post, in concrete post projecting 2 inches.
Z 208	8.212	C&GS disk stamped Z 208 1963; 15 ft. NE centerline of road, 2.6 ft. NW of witness post, in concrete post projecting 3 inches.
B 209	9.934	C&GS disk stamped B 209 1963; 14 ft. NE centerline of road, 27 ft. SE of trail to beach, 2 ft. NW of witness post, projecting 6 inches.

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
L 209	9.797	C&GS disk stamped L 209 1963; 40 ft. NE centerline of road, 1.6 ft. W of witness post, disk on steel rod in tile projecting 3 inches.
Y 208	11.309	C&GS disk stamped Y 208 1963; 39 ft. NW centerline road, 16 ft. NW trail to beach, 3 ft. S of witness post, in concrete post projecting 3 inches.
A 209	8.166	C&GS disk stamped A 209 1963; 16 ft. NE centerline road, 2 ft. SE witness post, in concrete post projecting 3 inches.
TOAD	9.780	C&GS disk stamped TOAD 1949; 13 ft. NE centerline road, 2 ft. SW witness post, in concrete post projecting 2 inches.
C 209	10.305	C&GS disk stamped C 209 1963; 43 ft. NE centerline road, 2 ft. SE witness post, in concrete post projecting 5 inches.
D 209	11.273	C&GS disk stamped D 209 1963; 21 ft. NE centerline road, 2 ft. SE witness post, in concrete post projecting 4 inches.
E 209	10.787	C&GS disk stamped E 209 1963; 40 ft. NE centerline road, 50 ft. SW trail, 2 ft. SE witness post, concrete post projecting 4 inches.
CAT	13.681	C&GS disk stamped CAT 1934; 34 ft. NE road, 43 ft. SE trail, 2 ft. S witness post, in concrete post projecting 5 inches.
CAT RM 1	12.890	C&GS disk stamped CAT NO 1 1934; 55.5 ft. NW CAT 1934, 31 ft. NE road, 2 ft. SW witness post.

FLORIDA – NOAA Coastal Boundary Mapping Program

Vertical Control – Geodetic Map TP – 00104

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
CAT RM 2	10.426	C&GS disk stamped CAT NO 2 1934; 75 ft. S CAT 1934, 21 ft. SW road, 1.4 ft. E witness post, in concrete post projecting 5 inches.
M 209	13.727	C&GS disk stamped M 209 1963; 1.7 ft. S CAT 1934, on steel rod, in tile projecting 3 inches. Rod bent, use with caution.
F 209	13.127	C&GS disk stamped F 209 1963; 23 ft. NE road, 16 ft. SW trail, 2 ft. NE witness post, in concrete post projecting 3 inches.
G 209	13.855	C&GS disk stamped G 209 1963; 11 ft. NE road, 11 ft. SW trail, 3 ft. W witness post, in concrete post projecting 4 inches.
H 209	14.692	C&GS disk stamped H 209 1963; 14 ft. NE road, 17 ft. SE trail to beach, 1.5 ft. S of witness post, in concrete post projecting 3 inches.

FLORIDA– NOAA Coastal Boundary Mapping Program

Horizontal Control Map TP–00104

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
CAT, 1934	Book 418, P21, 38, 54 G.P.-Fla. Vol. 1, P. 147, P.C. Fla. E Zone, P. 16
EDGAR, 1934	Book 418, P22, 39, 55 G.P.-Fla. Vol. 1, P. 124, P.C. Fla. E Zone, P. 2
PARDON, 1934	Book 418, P22, 39, 58 G.P.-Fla. Vol. 1, P. 148, P.C. Fla. E Zone, P. 16
ROSS PT. ECC, 1934	Book 418, P20, 38 G.P.-Fla. Vol. 1, P. 148, P.C. Fla. E Zone, P. 16

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- 00104

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH- 6716

PHOTOGRAMMETRIC OFFICE: Rockville, Maryland

OFFICER-IN-CHARGE: Commander, Wesely 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, June 19, 1973 OFFICE-Supplement I, August 19,1973 Note: Office and Field Edit instructions (1973) incorporate applicable prior operational instructions.	Aerial Photography 9/2/69 Supplement I, 1/28/70 Supplemental II, 3/26/70 Supplemental III,8/10/72 Field Edit (PH-7000,General Instructions for Florida Coastal Zone Mapping)

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): Mean water level (See Record of Decision, page 5)

3. MAP PROJECTION: Transverse Mercator

4. GRID(S): STATE: Florida; ZONE: East Zone

5. SCALE: STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	J.D.Perrow	9/69
METHOD:	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	P.J. Dempsey	2/70
METHOD: Coradomat 21	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	J.C. Richter	3/70
	CHECKED BY	J.P. Battley,Jr.	3/70
INSTRUMENT: Wild B-8	CONTOURS BY	Inapplicable	
SCALE: 1:10,000	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J.C. Richter	4/70
Shoreline:Graphic	CHECKED BY	J.P. Battley,Jr.	4/70
METHOD:	CONTOURS BY	J. Taylor	4/70
Interior:Orthophoto mosaic	CHECKED BY	J.P. Battley, Jr.	4/70
SCALE:	HYDRO SUPPORT DATA BY		
	CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P.Battley, Jr.	8/70
6. APPLICATION OF FIELD EDIT DATA	BY	M.C. Webber	8/70
	CHECKED BY	J.P. Battley,Jr.	8/70
7. COMPILATION SECTION REVIEW	BY	J.P. Battley,Jr.	8/70
8. FINAL REVIEW	BY	J.P.Battley,Jr.	11/71
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	D.H. Brant	8/73
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. J. Coates	5/74

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

COMPILATION SOURCES

TP-00104

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8
S&L 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 — ☐ STANDARD
MERIDIAN: 60th — ☒ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
67S(C)5834 -5838	10/3/67	10:53	1:40,000	The stage of tide is inapplicable for the color photography.
69L3757R-3761R	8/27/69	9:05	1:30,000	* +0.31MHW
69L3560R-3564R	8/27/69	12:02	1:30,000	* +0.40MLW
69L3802R-3804R	8/27/69	9:33	1:30,000	** +0.14MWL
69L3495R	8/26/69	9:54	1:30,000	** -0.01MWL

REMARKS *hPorttCanaveralnTide Station;de** The Titusville Tide Station, Indian River, was used to insure that the water level was not significantly above or below the MWL Datum in Mosquito Lagoon.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high-water line(along the Atlantic Coast) is the 1969 infrared photography listed under item 1. The mean water-level line was mapped along the coast of the Mosquito Lagoon in lieu of the mean high-water line (see Record of Decisions bound with this report). The source of the mean water-level line is the 1969 infrared photography listed under item 1. The shoreline was field edited July 1970.

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

The source of the mean low-water line (along the Atlantic Coast) is the 1969 infrared photography listed under item 1.

The shoreline was field edited July 1970.

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-00102	TP-00103	TP-00106	TP-00104 Atlantic Ocean

REMARKS
Final junctions were made in the Coastal Mapping Section.

* U.S. G.P.O. 1972-769381/568 REG.#6

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION July 1970
*see item 8 below

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		W.H. Shearouse	7/70
2. HORIZONTAL CONTROL	RECOVERED BY	W.H. Shearouse	7/70
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	W.H. Shearouse	7/70
	ESTABLISHED BY	None	
Geo. Bench Marks	PRE-MARKED OR IDENTIFIED BY	W.H. Shearouse	7/70
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	None	
	LOCATED (*Field Methods*) BY	W.H. Shearouse	7/70
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: ☐ COMPLETE ☒ *SPECIFIC NAMES ONLY* ☐ NO INVESTIGATION — BY	W.H. Shearouse	7/70
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W.H. Shearouse	7/70
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	See item 8 below	69L(I)3804R 69L(I)3757R 69L(I)3758R 69L(I)3760R	F211 H209 C209,D209,E209,G209, X208,Y208,Z208,A209, B209,L209

3. PHOTO NUMBERS (*Clarification of details*)
69L(I)3802R and 3803R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
There are no landmarks on this map; the nonfloating aids were verified by sextant fix.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (*Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division*)
Refer to page 9 of this report concerning field inspection operations and data

* U.S. G.P.O. 1972-769381/567 REG.#6

NOAA FORM 76-36D
(3-72)

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

TP-00104

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 Nautical Charts prior		to final		review.

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	L-1184 (73)	9/7/73	One report for TP-00104 and one form 76-40 B

2. ☑ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9/7/73
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: 5/15/74 F.R.C.

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

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

NOAA FORM 76-36D

* U.S. G.P.O. 1972-769380/548 REG.#6

Record of Decisions
Pertaining to Symbolization of the MHW, MLW, and MWL Datums
TP-00104

Shoreline Delineation

The water areas covered by this map are portions of Mosquito Lagoon, Indian River, and the Atlantic Ocean. The datum in Mosquito Lagoon was established by observations at the Oak Hill; Eddy Creek; and, Allenhurst, Mosquito Lagoon Tide Stations. The datum in Indian River was established by observations at the Scottsmoor and Allenhurst, Haulover Canal Tide Stations. Tidal datums along the outer coast (Atlantic Ocean) were determined from observations at Daytona Beach and Port Canaveral, None of these tide stations are within the limits of this map.

The periodic tide in Mosquito Lagoon and Indian River was masked by nontidal forces and the mean range was substantially less than two-tenths of a foot. In this situation, the mean high/low-water datums converge, and for mapping purposes, the mean high- and low-water lines are indistinguishable. As a consequence, special treatment was given to the portrayal of the shoreline on this map: the mean water-level line was mapped in lieu of the mean high-water line and shown by a distinctive symbol, except in areas where there are manmade features such as bulkheads which were portrayed by a solid line, or where vegetation such as mangrove obscures the shoreline, in which case, the apparent shoreline symbol was used.

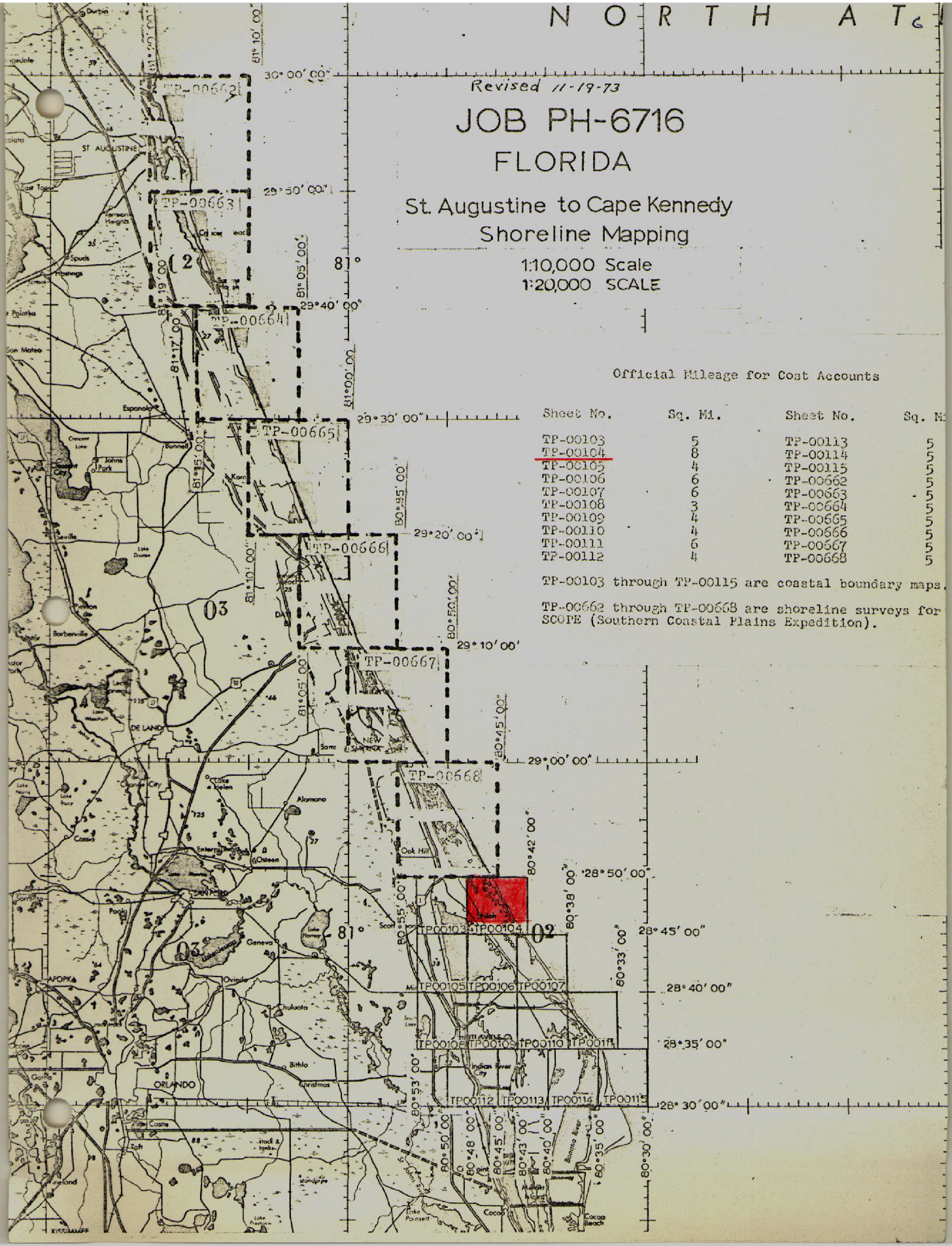
* Decision Responsibility for Shoreline Symbolization

Specific decisions as to where various symbols would be used for mapping the mean water-level line, apparent shoreline, etc., were made November 1972 in Rockville, Maryland, by competent technical officials of the National Ocean Survey. Cdr. Wesley V. Hull, Chief, Coastal Mapping Division, provided the technical field survey and cartographic expertise, and Mr. Carroll I. Thurlow, Chief, Tidal Datum Planes Section, Oceanographic Division, rendered decisions on tidal datum matters. They based their decisions on an examination and evaluation of tide station records, aerial photographs, and field edit records and reports.

Archiving

A copy of this report shall be included in Descriptive Report, TP-00104, which will be permanently filed in the Bureau Archives.

* See Review Report for clarification of date.



Official Mileage for Cost Accounts

Sheet No.	Sq. Mi.	Sheet No.	Sq. Mi.
TP-00103	5	TP-00113	5
TP-00104	8	TP-00114	5
TP-00105	4	TP-00115	5
TP-00106	6	TP-00662	5
TP-00107	6	TP-00663	5
TP-00108	3	TP-00664	5
TP-00109	4	TP-00665	5
TP-00110	4	TP-00666	5
TP-00111	6	TP-00667	5
TP-00112	4	TP-00668	5

TP-00103 through TP-00115 are coastal boundary maps.

TP-00662 through TP-00668 are shoreline surveys for SCOPE (Southern Coastal Plains Expedition).

SUMMARY
TP-00103 thru TP-00115

Coastal Zone Map TP-00104 is one of thirteen (13) similar maps in project PH-6716. The layout of sheets (page 6 of this report) will show its location. These maps are intented 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 1967 and 1969 on regular color and black and white infrared film. The black and white 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 the tide-coordinated black and white infrared photography using a stereoplotter 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 Inspection

Field operations performed prior to compilation were limited to recovery of horizontal control required for compilation, placing targets on selected horizontal control stations in advance of aerial photography, and photoidentification of supplemental control stations after photography. A Field Inspection Report was not considered appropriate and was not prepared.

Photogrammetric Plot Report
Cape Kennedy, Florida
Job PH-6716
October, 1970

21. Area Covered

This report covers the area immediately north of Cape Kennedy, Florida, from Latitude 28° 30' to 28° 50'. The job consists of thirteen (13) 1:10,000 scale sheets, TP-00103 thru TP-00115.

22. Method

Five (5) strips of photographs were bridged using analytical aerotriangulation methods. Strips 1 thru 4A were bridged using 1:40,000 scale color photography. Strip 50 was bridged using 1:25,000 scale panchromatic photography. Compilation was done concurrently with the bridging. No difficulty was encountered in the bridging or compiling strip 1. However, because of weak control, ties between strips 2, 3 and 4A were poor and subsequently these three strips were adjusted as a block. However, we still felt that the block was not as adequate as we would like. Therefore, a 1:25,000 scale strip flown at a later date was taken advantage of and bridged, using additional control. With this additional strip, the aerotriangulation proved adequate.

23. Adequacy of Control

Some of the horizontal control was premarked. All the control used in bridging strip 50 was office identified prior to the field work. That is, sub points were picked in the office, identified on the contact prints to be located by ground methods by the field party. This was done in order to save time by not holding up the aerotriangulation. The results proved very satisfactory. The horizontal control was adequate for bridging.

24. Photography

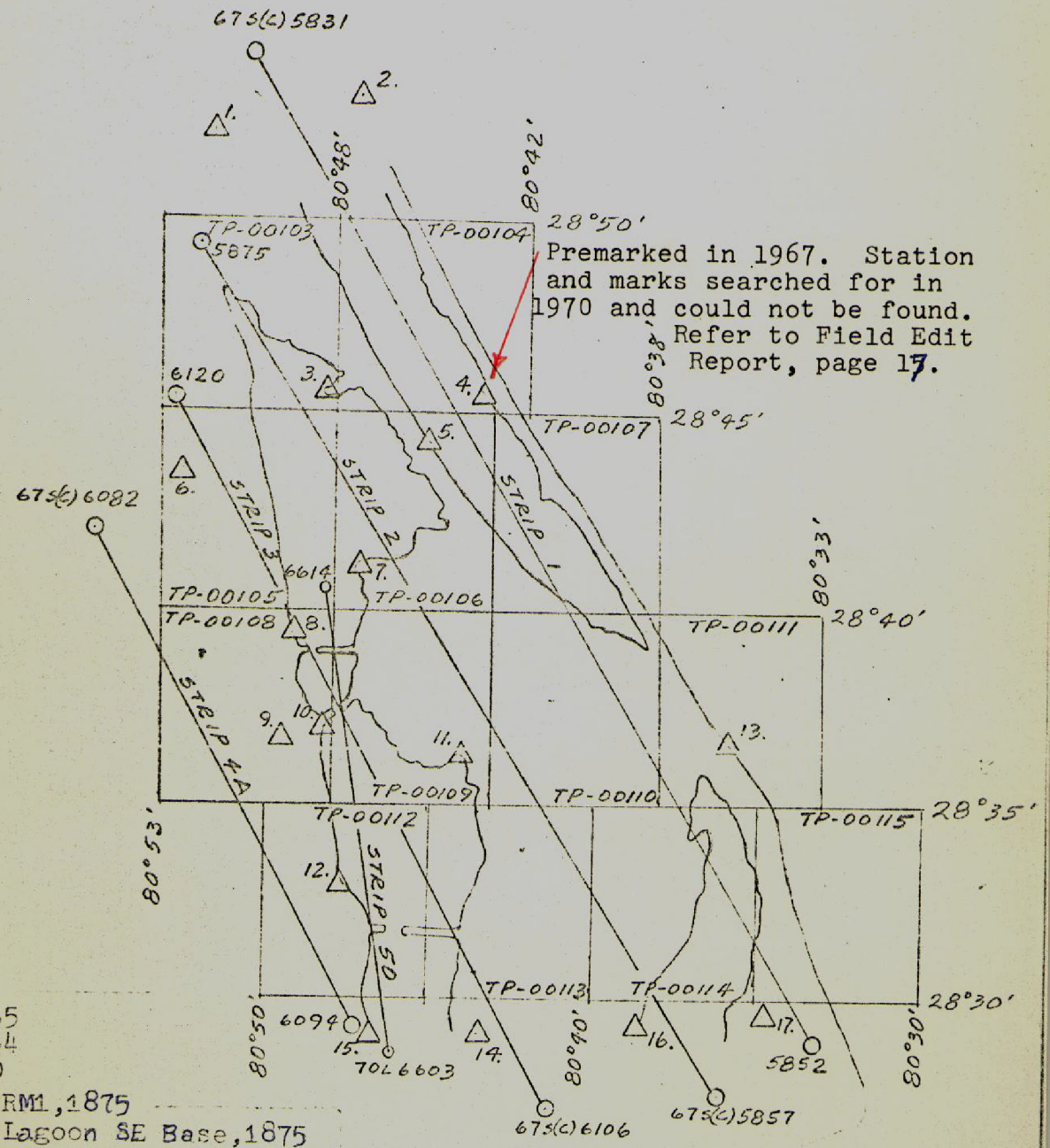
The definition and quality of the photography from the RC-8 "5" and "L" cameras were good.

Respectfully submitted:

I. I. Sapeystein

Approved and forwarded:

Henry P. Eichert, Chief
Aerotriangulation Section



1. Oak 2,1955
2. Mount,1934
3. Bush,1940
4. Scorpion RM1,1875
5. Mosquito Lagoon SE Base,1875
6. Titusville NW Base,1934
7. Whynot,1963
8. NS(USE)1940
9. Titusville New Munic. WT,1960
10. Titusville Water Tank,1934
11. Stayout,1963
12. Indian River City Microwave Mast,1960
13. Chester 3,1964
14. Courtenay,1953
15. Frontenac Fla. Power & Light Co. Smokestack,1964
16. Paxton,1960
17. Central,1950

AEROTRIANGULATION SKETCH
CAPE KENNEDY, FLORIDA
JOB PH-6716
October, 1970

△ Horizontal Control
○ 1:40,000 scale color photos
○ 1:25,000 scale pan. photos

FLORIDA– NOAA Coastal Boundary Mapping Program

Horizontal Control Map TP–00104

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
CAT, 1934	Book 418, P21, 38, 54 G.P.-Fla. Vol. 1, P. 147, P.C. Fla. E Zone, P. 16
EDGAR, 1934	Book 418, P22, 39, 55 G.P.-Fla. Vol. 1, P. 124, P.C. Fla. E Zone, P. 2
PARDON, 1934	Book 418, P22, 39, 58 G.P.-Fla. Vol. 1, P. 148, P.C. Fla. E Zone, P. 16
* ROSS PT. ECC, 1934	Book 418, P20, 38 G.P.-Fla. Vol. 1, P. 148, P.C. Fla. E Zone, P. 16

* Station "lost" (refer to recovery card submitted in 1970).

COMPILATION REPORT
TP-00104

31. Delineation

The interior features on TP-00104 are depicted by an orthophoto mosaic using rectified black and white prints of the color photography. Control for rectifying the color photography was furnished by the analytic bridge.

The shoreline on this map was compiled graphically from tide-coordinated black and white infrared photography. The color photography was used as an aid in interpreting culture and alongshore features.

The control for the graphic compilation consisted of planimetric features and map points compiled from models of the color photography set on the Wild B-8 stereoplotter.

32. Horizontal Control

Refer to the photogrammetric plot report bound with this Descriptive Report.

33. Supplemental Data

None.

34. Contours and Drainage

Contours are inapplicable. Drainage is depicted by the orthophoto mosaic.

35. Shoreline and Alongshore Details

The photography was adequate for the interpretation and delineation of the shoreline and alongshore features. There were no specific areas or features called to the attention of the field editor for verification.

The shoreline along Mosquito Lagoon is mapped as the mean-water level line. (See Record of Decisions bound with this Report).

36. Offshore Details

No unusual problems were encountered. Extensive apparent grass in water areas were called to the attention of the field editor for verification.

37. Landmarks and Aids to Navigation

There are no charted landmarks in the mapped area. No significant objects were noted on the photography.

The five charted fixed aids to navigation were identified and located during compilation and will be verified 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 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 Oak Hill, Florida, 1:24,000, 1949, USGS Quad Pardon Island, Florida, 1:24,000, 1949. No significant differences were noted.

47. Comparison with Nautical Charts

843-SC, 7th Edition, 1:40,000, September 1969. No significant differences were noted.

Items to be Applied to Nautical Charts Immediately:

None.

Items to be Carried Forward:

None.

Submitted:

John C. Richter

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(JB)

Approved and Forwarded:

K.N. Maki

K.N. Maki

JB

Field Edit Report, Map TP-00104, Job PH-6716

51. METHODS

Visual comparison of shoreline delineation was made from a small boat running close to the shore. On the east side of Mosquito Lagoon the large, very shallow mud flats limited the inspection to a greater distance than desired in some places. However, we were able to run close enough to determine that there were no apparent major errors.

Vegetation cover was not checked in detail as it is understood a photomosaic type map is to be published.

No landmarks for charts are recommended.

Form 567 is submitted for the nonfloating aids. These lights were located during compilation and their positions verified in the field by sextant fix.

26 geodetic bench marks were searched for and 24 were recovered. Of these 17 were photo-identified. Forms 6854 are submitted for all of them. An ozalid print showing their approximate locations is submitted.

Four triangulation stations were searched for. Three were recovered. Forms 526 are submitted.

Field edit notes are shown on the Field Edit Sheet, Discrepancy Print and ratio photos. Violet ink was used for notes.

52. ADEQUACY OF COMPILATION

After application of field edit information, compilation will be adequate.

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

No systematic investigation was made. The only change recommended affects BEACON CAMP at approximate Lat. 28° 45'.3, Long. 80° 46'.0. For many years this has been BEACON 42 FISH CAMP. The 1949 recovery note for a nearby triangulation station refers to that name at that time. It is recommended that the change be made.

Submitted 8/5/70

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Addendum to Field Edit Report
Map TP-00104, Job PH-6716

The field editor reported the nonfloating aids to navigation on form 567. A new form (form 76-40) was designed and is presently in use.

The 1970 recovery note for SCORPION, 1875, states that, after a careful search, no evidence of any of the marks was found.

Review Report TP-00104
Coastal Zone Map
August 1973

A detailed review of TP-00104 and its related records was made in the Coastal Mapping Section prior to its publication. The following major parts in the preparation of this map have been examined and are adequate:

1. Field operations
2. Extension of Control
3. Compilation

Comparison was made with the following USGS quadrangles and Nautical Chart:

Pardon Island, Florida, 1949, photorevised 1970
Oak Hill, Florida, 1949, photorevised 1970
Nautical Chart 843-SC, 10th Edition, August 12, 1972

Nautical Chart 843-SC and USGS Quadrangle Oak Hill show a row of piling and a single pile at the entrance to Kuhl Dock. No reference to these piling was made by the field editor.

The color photography dated October 1967 was used for bridging and the photomosaic. This photography was supplemented by ~~additional~~ photography dated August 1970. (Refer to photogrammetric plot report.) The black and white infrared photography dated August 23 and 27, 1969, was used for the compilation of the mean water-level line. The note on the published map does not mention the August 1969 photography.

The shoreline on this map was symbolized in accordance with ongoing decisions set forth by officials of the National Ocean Survey. These decisions, however, were formalized and documented at the latest date reflected in the Record of Decisions.

This map complies with Project instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,
Donald M. Brant
Donald M. Brant

Approved:
Chief, Photogrammetric Branch
Chief, Coastal Mapping Division

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: 8/10/73

The following objects have (have not) been inspected from seaward to determine their value as landmarks:

JOB NUMBER: PH- 6716
STATE:
SURVEY NUMBER: T - TP- 00104
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
	Intracoastal Waterway Mosquito Lagoon								
Light	Light 21	28 49	9.3 287.0	80 47	58.9 1598.0		67S(c)-5836	P-4 7/9/70 verified	843 SC
Light	Light 26	28 47	55.0 1692.0	80 47	15.4 417.0		67S(c)-5836	P-4 7/9/70 verified	843SSC
Light	Light 31	28 46	42.9 1322.0	80 46	28.8 780.0		67S(c)-5837	P-4 7/9/70 verified	843 SC
Light	Light 36	28 45	28.8 887.0	80 45	45.8 1242.0		67S(c)-5837	P-4 7/9/70 verified	843 SC
Light	Light 38	28 46 (52)	0.0 1.0	80 45	18.1 490.0		67S(c) 5837	P-4 7/9/70 verified	843 SC

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RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	William H. Shearouse	☐ FIELD INSPECTOR ☒ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	William H. Shearouse	FIELD EDITOR
	John C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	* See below	☐ 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
1. Triangulation
2. Traverse
3. Intersection
4. Resection
   a. Theodolite
   b. Planetable
   c. Sextant

P – Photogrammetric
1. Field identified
2. Theodolite
3. Planetable
4. Sextant

EXAMPLES:
F. 3.c
P.2

*Note: Positions listed were transposed from Office Form 76-40. Copy checked after typing in Quality Control Group

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.'

TP-00104

48. Geographic Name List

Atlantic Ocean
Beacon 42 Fish Camp
Bird Island
Cat Hammock
Glory Hole
Kuhl Dock
Mosquito Lagoon
Pardon Island
Pardon Slough
~~Pattillo Creek~~
Preachers Island
Shiloh Camp
Three Cabbage Island
Tiger Shoal
Vanns Island
Vanns Slough
Widgeon Bay
~~Intracoastal Waterway~~
Patillo Creek

PREPARED BY
Frank W. Pickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY
A. J. Wright
CHIEF GEOGRAPHER
by F.W.P.

TP-00104
Data Forwarded to Federal Record Center

Discrepancy Prints (#1 and 2)

1 Field Edit Sheet (By W.H. Shearouse dated July/Aug. 1970)

Photographs:
69L3802R thru 3804R
69L3757R, 3758R, and 3760R

1 Form 567 (Showing field data)

1 Geographic Name Standard (Pardon Island, Florida, dated 1949)

Project Data (Green Jacket) will be filed in the Federal Records Center.