TP-00103

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-00103

Classification No. Final *Edition No.* 1

Field Edited Map

LOCALITY

State Florida

General Locality Brevard County
Volusia County

Locality Turnbull Creek to Georges Flats

1967 TO 1970

REGISTRY IN ARCHIVES

DATE MAY 16 1974

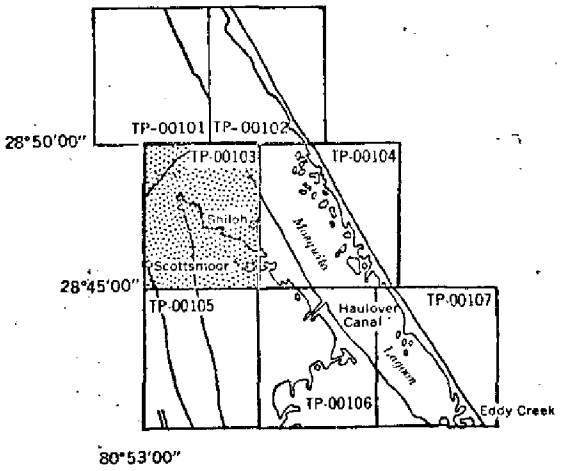
☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-593

TP-00103

SUPPLEMENTAL CONTROL DATA FOR COASTAL ZONE MAP

TP-00103

INDEX TO ADJOINING SHEETS



Florida
Brevard County – Volusia County
Georges Flats to Turnbull Creek
February 1973

2/28/73

Florida I

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

TIDAL BENCH MARKS

Scottsmoor, Indian River
Lat. 28° 48'.3; Long. 80° 51'.5

BENCH MARK 1 (1970) is a standard disk, stamped "No. 1 1970", set flush in a concrete post, 4.5 feet northeast of a palm tree and 37 feet northwest of a boat slip. It is 4 feet south of a small cedar tree and a woven wire fence, and 14.5 feet northeast of the northeast corner of the pier. Elevation: 4.22 feet above mean water level.

BENCH MARK 2 (1970) is a standard disk, stamped "No. 2 1970", set in a concrete post projecting 8 inches. The mark is 7 feet below the elevation of the tracks, 18 feet east of the east rail and 10 feet east of the east edge of the bridge, 13 feet north of the waters edge and 10 feet southeast of the northeast bridge abutment corner. Elevation: 2.73 feet above mean water level.

BENCH MARK 3 (1970) is a standard disk, stamped "No. 3 1970", set flush in a concrete post, 3.7 feet south of a 2 feet diameter palm tree and 1.8 feet west of a post and gate. It is southwest of a fence and northeast of a one foot diameter cedar tree. Elevation: 3.56 feet above mean water level.

BENCH MARK 4 (1970) is a standard disk, stamped "No. 4 1970", set in a concrete post, projecting 8 inches. The mark is 7 feet below the elevation of the tracks, 14 feet east of the east rail and 9.5 feet east of the east side of the bridge. It is 14 feet south of the waters edge, 7.4 feet northeast of the southeast bridge abutment corner and 16.5 feet north of the sign "Private Property - No Fishing". Elevation: 2.66 feet above mean water level.

BENCH MARK A 226 is a standard disk, stamped "A 226 1964", set on a galvanized pipe. The mark is 0.55 miles north of the north end of a wooden railroad bridge across Turnbill Creek, 76 feet northwest of mile post 140, 35.5 feet west of the west rail and 8 feet north of telegraph pole 5165. It is 2.5 feet south of a metal witness post and 2 feet below the level of the rail. Elevation: 3.53 feet above mean water level.

(OVER)

Scottsmoor, Indian River (Cont'd)

BENCH MARK E 227 is a standard rod mark, stamped "E 227 1964", set on the top of a copper coated steel rod projecting 4 inches above the level of the ground and protected by a 4 inch iron pipe which projects 5 inches above the level of the ground. The mark is 22.5 feet southwest of the southeast corner of a 180 foot long bridge over Turnbill Creek, 10.2 feet east of the east rail, and 1.5 feet northeast of a metal witness post. Elevation: 7.62 feet above mean water level.

Mean water level at Scottsmoor is based on 12 months of record, May 1967, April 1968, August - October 1970, reduced to mean values.

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
L 32	6.762	C&GS disk stamped L 32 1932 6.909; 35 ft. NE centerline road, 10.1 ft. E of E rail, in concrete post projecting 8 inches.
B 226	3.146	C&GS disk stamped B 226 1964; 40 ft. E of E rail, 3.8 ft. S of witness post, welded to top of pipe and projects 8 inches.
C 226	2.533	C&GS disk stamped C 226 1964; 41 ft. W of W rail, 4.5 ft. NE of pole, in top of pipe projecting 10 inches.
SHILOH	28.576	C&GS disk stamped SHILOH 1934; 25.5 ft. SE centerline private road, 11 ft. S of pole, in concrete post flush with ground.
X 210	11.391	C&GS disk stamped X 210 1963; 68.5 ft. W of NW end of SW head wall, 3.2 ft. NW of pole.
375 (USE)	18.986	USE disk stamped 375 JLR 1963; 48 ft. NE centerline of highway, 61 ft. SE of pole No. 7, in concrete post flush with ground.
Y 210	9.701	C&GS disk stamped Y 210 1963; 49 ft. SW centerline of highway, 23 ft. NW centerline of trail, 15 ft. SW of culvert.
374 (USE)	9.124	USE disk stamped 374 JLR 1963; 70 ft. SW centerline highway, 28 ft. NW of pole, in concrete post flush with ground.
373 (USE)	6.391	USE disk stamped 373 JLR 1963; 70 ft. SW centerline highway, in top of concrete post flush with ground.
Z 210	9.108	C&GS disk stamped Z 210 1963; 48.5 ft. W centerline highway, 96 ft. SW of pole No. 18, 16.2 ft. W of culvert.

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
372 (USE)	9.921	USE disk stamped 372 JLR 1963; 52 ft. E centerline highway, 60 ft. N of R/W marker, 55 ft. SE pole No. 13.
H 211	10.394	C&GS disk stamped H 211 1963; 49 ft. W centerline highway, 9 ft. SE of culvert, 34 ft. E of well with pump.
A 226	3.694	(*)
E 227	7.782	(*)
SCOTTSMOOR TIDAL 4	4.377	(*)
SCOTTSMOOR TIDAL 2	2.890	(*)
SCOTTSMOOR TIDAL 3	3.717	(*)
SCOTTSMOOR TIDAL 1	2.825	(*)

* Description given under Tidal Bench Marks.

FLORIDA– NOAA Coastal Boundary Mapping Program

Horizontal Control — Map TP– 00103

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
BUSH, 1940	Book 418, P21, 38, 53 G.P.-FLA. Vol. 1, P. 558, P.C. Fla. E Zone, P. 145
SHILOH, 1934	Book 418, P21, 38, 52 G.P.-FLA. Vol. 1, P. 147, 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-00103

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH-6716

PHOTOGRAMMETRIC OFFICE: Rockville, Maryland

OFFICER-IN-CHARGE: Commander, Wesley V. Hull

LAST PRECEEDING MAP EDITION

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

JOB PH- _____

MAP CLASS _____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
General Instructions -OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, June 19, 1973 OFFICE-Supplement 1, August 6, 1973 Note: Office and field edit instructions (1973) incorporate applicable, prior operational instructions.	Aerial Photography, 9/2/69 Supplement I, January 28, 1970 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000-General Instructions for Florida Coastal Zone Mapping) 1973

II. DATUMS

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

2. VERTICAL: [ ] MEAN HIGH-WATER [ ] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify): Mean water-level line (See Record of Decisions)

3. MAP PROJECTION: Transverse Mercator

4. GRID(S)

STATE	ZONE
Florida	East

5. SCALE: 1:10,000

III. HISTORY OF OFFICE OPERATIONS

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

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

* See Review Report

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

NOAA FORM 76-36B
(3-72)

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

TP-00103

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8
S&L Camera 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)5871 -5875	10/3/67	11:13	1:40,000	The stage of tide is inapplicable for the color photography
67S(C)5834- 5835	10/3/67	10:52	1:40,000	
69L3803R-3805R	8/27/69	9:33	1:30,000	*MWL +0.14 ft.
69L3809R-3812R	8/27/69	9:38	1:30,000	*MWL +0.14 ft.

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

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean water-level line was mapped in lieu of the mean high-water line(refer to the Record of Decisions bound with this report). The source of the mean water-level line is the 1969 black and white infrared photography listed in item 1. This map was field edited in July 1970.

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

There is no mean low-water line shown on this map.

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-00101 & TP-00102	TP-00104	TP-00105	No contemporary survey

REMARKS
Final junctions were made in the Coastal Mapping Section.

NOAA FORM 76-36B
(3-72)

* 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 *See item 8 below ☒ FIELD EDIT OPERATION July 1970

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		W.H. Shearouse	July 1970
2. HORIZONTAL CONTROL	RECOVERED BY	W.H. Shearouse	July 1970
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	W.H. Shearouse	July 1970
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	W.H. Shearouse	July 1970
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	None	
	LOCATED (*Field Methods*) BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W.H. Shearouse	July 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

NONE

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
		69L3805R	X210, Y210, Z210, H211 372(USE), 373(USE), 374(USE), 375(USE)
		69L3810R	B226, E227
		69L3811R	L32, C226

3. PHOTO NUMBERS (*Clarification of details*)

69L3805R, 3803R, 3810R, 3811R; transparency 69L3865

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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 for pre-compilation field inspection.

* 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

RECORD OF SURVEY USE

TP-00103

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
			There are no landmarks or non-floating
			aids to navigation on this map.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Inapplicable
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~~ 7640 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: 5/16/79 K.L.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	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

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

Record of Decisions
Pertaining to Symbolization of the MWL Datums
Map TP-00103

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water areas it covers are portions of Mosquito Lagoon and Indian River. The datum in Mosquito Lagoon was established by observations at the Oak Hill; Allenhurst, Mosquito Lagoon; and Eddy Creek Tide Stations, none of which are within the limits of this map. The datum in Indian River was established by observations at the Scottsmoor and Allenhurst, Haulover Canal Tide Stations. Only the Scottsmoor Station is located within the limits of and is shown on this map.

The periodic tide at all five stations is masked by non-tidal forces and the mean range at each is substantially less than two-tenths of a foot. Therefore, the mean high/low-water datums converge, and for mapping purposes, the mean high- and mean low-water lines are indistinguishable. As a consequence, 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 buklheads which were portrayed by a solid line, or where vegetation such as mangrove obscures the shoreline. In the latter case, the apparent shoreline symbol was used.

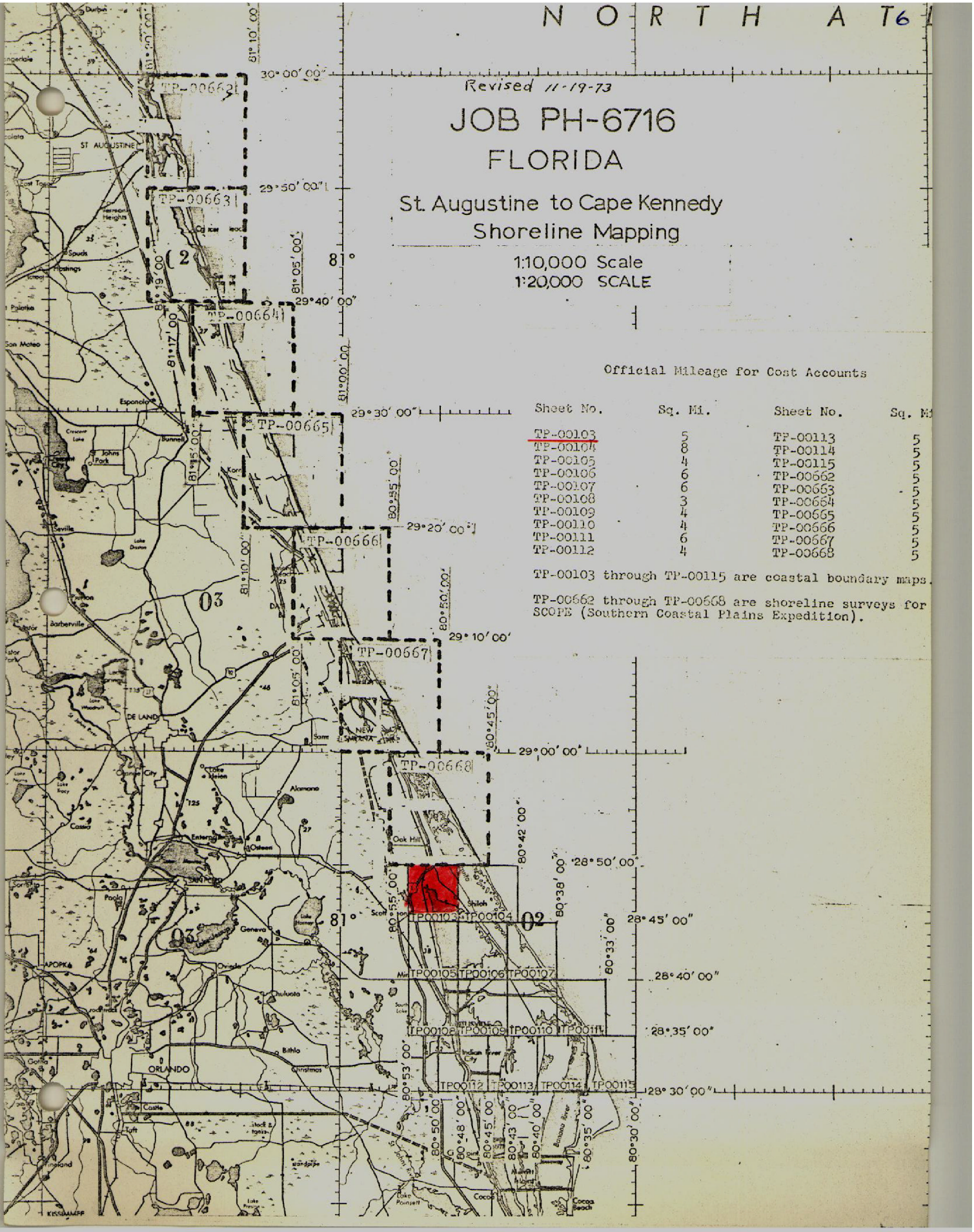
*Decision Responsibility for Shoreline Symbolization

Specific decisions as to where various symbols would be used for mapping the mean water-level lines, 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-00103 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-00103 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.

Station Bush, 1940 was recovered in 1967 by Joseph K. Wilson.

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

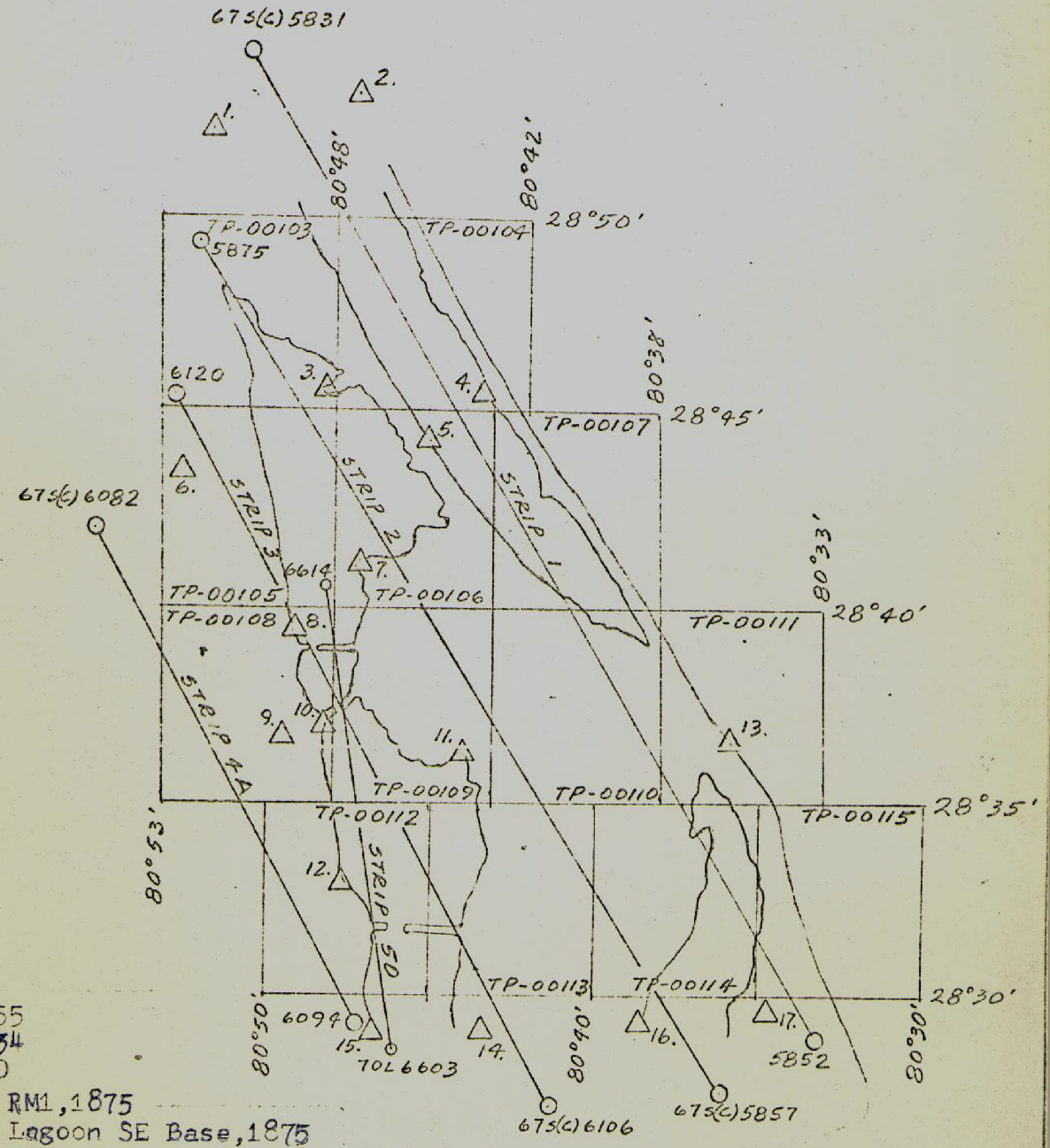
The definition and quality of the photography from the RC-8 "S" and "L" cameras were good.

Respectfully submitted:

Irving I. Saperstein
I. I. Saperstein

Approved and forwarded:

Henry P. Eichert
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
o 1:25,000 scale pan. photos

FLORIDA – NOAA Coastal Boundary Mapping Program

Horizontal Control Map TP – 00103

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
BUSH, 1940	Book 418, P21, 38, 53 G.P.-FLA. Vol. 1, P. 558, P.C. Fla. E Zone, P. 145
SHILOH, 1934	Book 418, P21, 38, 52 G.P.-FLA. Vol. 1, P. 147, P.C. Fla. E Zone, P. 16

Since the maximum depth in the head waters of the Indian River is five (5) feet, these shallow lines will have little or no significance for Nautical Charting.

37. Landmarks and Aids to Navigation

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

There are no fixed aids to navigation on this map.

38. Control for Future Surveys

Tidal bench marks established by the tide observation party.

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 scale, Edition 1949.

47. Comparison with Nautical Charts

Nautical Chart 1245, 1:80,000 scale, 7th Edition, 8/30/69

Small Craft Chart 843, 1:40,000 scale, 7th Edition, 8/23/69

Items to be applied to Nautical Charts Immediately:

Numerous canals or ditches have been added along Indian River. Areas along the shoreline that were open to inland waterways, ponds or streams have been closed.

Since the maximum depth in the head waters of the Indian River is five (5) feet, these shallow lines will have little or no significance for Nautical Charting.

37. Landmarks and Aids to Navigation

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41 thru 45.

Inapplicable.

46. Comparison with Existing Maps

USGS Quad, Oak Hill, Florida, 1:24,000 scale, Edition 1949.

47. Comparison with Nautical Charts

Nautical Chart 1245, 1:80,000 scale, 7th Edition, 8/30/69

Small Craft Chart 843, 1:40,000 scale, 7th Edition, 8/23/69

Items to be applied to Nautical Charts Immediately:

Numerous canals or ditches have been added along Indian River. Areas along the shoreline that were open to inland waterways, ponds or streams have been closed.

Items to be Carried Forward:

None.

Respectfully submitted:

Martha C. Webber

Martha C. Webber
Cartographic Technician (MB)

Approved and forwarded:

K.N. Maki

K.N. Maki (MB)
Chief, Compilation Section

Field Edit Report, Map TP-00103, Job PH-6716

51. METHODS

Visual inspection of the shoreline of the north end of Indian River and tributaries was made from a small boat at close range. Notations regarding the inspection will be found on the Field Edit Sheet and cross-referenced to the photographs.

All important roads were ridden, the vegetation classification being checked at the same time. There are a number of woods trails in the northeastern part of the map that are of no importance. They serve no useful purpose and should be deleted. *See below.

There are no landmarks or aids to navigation.

Twelve geodetic bench marks were recovered and identified on the photographs. Triangulation station SHILOH is also a bench mark and may be plotted on the map manuscript if desired. An ozalid print of the map manuscript showing the approximate locations of the bench marks is submitted.

Violet ink was used for field edit notes; green for deletions.

52. ADEQUACY OF COMPILATION

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

53. MAP ACCURACY

No tests were required.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

*Decision to make orthophoto map was not made at this time.

56. GEOGRAPHIC NAMES

A complete investigation was not required. No conflicts came to light during field work and no new names are to be added.

Submitted 7/13/70

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Review Report TP-00103
Coastal Zone Map
August 1973

A detailed review of TP-00103 and its related records was made in the Coastal Mapping Section prior to its publication. The following major parts have been examined in the Quality Control Group and are adequate:

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

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

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

Nautical Chart 843-SC shows a row of piling (approximate latitude 28°48.45' and latitude 80°50'). The field editor classified this area as "foul with stakes" and it is shown on the Registration Copy of this map. It should be noted that Oak Hill quadrangle dated 1949 shows the piling while the same quadrangle that was photorevised in 1970 does not show the piling.

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 later 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

TP-00103

48. Geographic Name List

Big Flounder Creek
Boathouse Point
Coot Creek
Florida East Coast Railroad
Georges Flats
Grassy Point
Griffis Bay
Hole in the Wall
Indian River
Lyratta Dock
Mosquito Lagoon
Onion Farm Island
Shiloh
Turnbull Creek
~~Intracoastal Waterway~~

PREPARED BY
Frank W. Pickett
CARTOGRAPHIC TECHNICIAN

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

TP-00103
Data Forwarded to Federal Record Center

Discrepancy Prints (#1 and 2)

1 Field Edit Sheet

Photographs:
69L3805R
69L3810R
69L3811R
69L3865 (Transparency)

1 Geographic Name Standard (Oak Hill, dated 1949)

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