

original

TP - 00113

TP-00113

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-00113...
Classification No. Final	Edition No. ... 1.....
Field Edited Map	
LOCALITY	
State .. Florida .....	
General Locality ... Brevard County .....	
Locality Moore Creek to Pine Island.....	
Creek.....	
<hr/> 1967 TO 1970 <hr/>	
REGISTRY IN ARCHIVES	
MAY 16 1974	
DATE .....	



NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>00113</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>Final</u>	
				<input type="checkbox"/> REVISED		JOB PH. <u>6718</u>	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Rockville, Maryland				TYPE OF SURVEY		JOB PH. _____	
OFFICER-IN-CHARGE				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
Commander Wesley V. Hull				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		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 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 type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify) Mean water-level line (See record of Decisions bound with this Report).			
3. MAP PROJECTION				4. GRID(S)			
Transverse Mercator				STATE		ZONE	
				Florida		East	
5. SCALE				STATE		ZONE	
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.J. Dempsey		11/69	
METHOD: Coradomat CHECKED BY				Inapplicable			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				J.C. Richter		12/69	
COMPILATION CHECKED BY				J.P. Battley		12/69	
INSTRUMENT: Wild B-8				CONTOURS BY		Inapplicable	
SCALE: 1:10,000				CHECKED BY			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				J.C. Richter		1/70	
Shoreline: Graphic CHECKED BY				J.P. Battley		1/70	
METHOD: CHECKED BY				Inapplicable			
Interior: Orthophoto mosaic				J. Taylor		2/70	
SCALE: <del>1:10,000</del>				J.P. Battley		2/70	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				J.P. Battley		2/70	
6. APPLICATION OF FIELD EDIT DATA BY				J.C. Richter		6/70	
CHECKED BY				J.P. Battley		6/70	
7. COMPILATION SECTION REVIEW BY				J.P. Battley		6/70	
8. FINAL REVIEW BY							
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				* D.M. Brant		10/73	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				* See R. J. Gator		5/74	



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

TP-00113

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 S&L Cameras 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED B&W		ZONE	<input type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN	<input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
67S(C)6107 - 6111	10/11/67	11:33	1:40,000	The stage of tide is inapplicable for the color photography.	
67S(C)5861 and 5862	10/3/67	11:10	1:40,000		
69L3726R - 3729R	8/27/69	08:40	1:30,000	+0.13 MWL	

## REMARKS

Titusville Indian River Tide Gage.

## 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. The shoreline was field edited in April 1970.

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

There is no 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-00109 TP-00110	TP-00114	TP-00134	TP-00133

## REMARKS

Final junctions were made in the Coastal Mapping Section.

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

TP-00113

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

April 1970

\*See item 8 below

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W.H. Shearouse	4/28/70
2. HORIZONTAL CONTROL	RECOVERED BY W.H. Shearouse	4/70
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY W.H. Shearouse	4/70
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY W.H. Shearouse	4/70
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY W.H. Shearouse	3/17/70
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	W.H. Shearouse 4/70
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY W.H. Shearouse	4/70
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
		69L3727R 69L3728R	Y214, X214 W214

## 3. PHOTO NUMBERS (Clarification of details)

67S(C)6108, 6109; 69L3726R, 3727R, 3728R, 3729R

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Tower, 1970 There are no nonfloating aids to navigation.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
67S(C)6108	Tower (Bibly steel permanently in place over MOORE Rm 3, 1963)		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

## 7. SUPPLEMENTAL MAPS AND PLANS

Map showing limits of Merritt Island National Wildlife Refuge

## 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

\*Refer to page 9 for field inspection data.



## 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
	1542	11/7/73	Final - One report was submitted for this map.

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: November 7, 1973  
 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: 5/16/74 R.J.G.

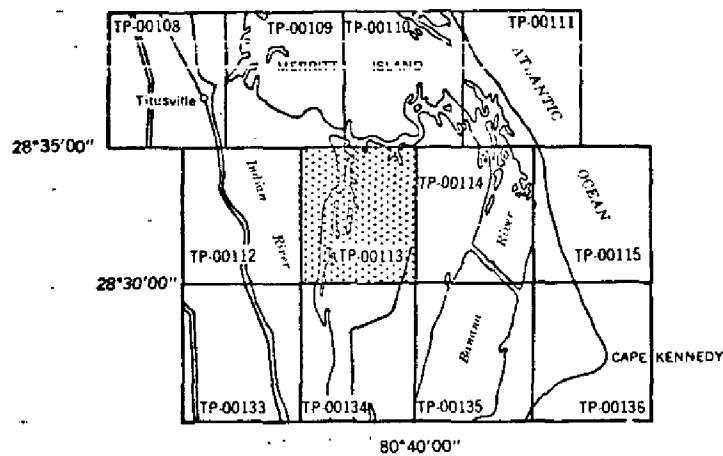
## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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

# SUPPLEMENTAL CONTROL DATA FOR COASTAL ZONE MAP

## TP-00113

### INDEX TO ADJOINING SHEETS



Florida  
Brevard County  
Pine Island Creek to Moore Creek  
April 1973

**FLORIDA - NOAA Coastal Boundary Mapping Program**

**Vertical Control - Geodetic**

**Map TP - 00113**

<b>Geodetic Bench Mark</b>	<b>Elevations (feet)</b>	<b>Condensed Description</b>
	<b>SLD 1929</b>	
W 214	4.659	C&GS disk stamped W 214 1964; 14 inches E of W end of concrete headwall, 38 ft. N centerline of W-bound lane.
X 214	3.881	C&GS disk stamped X 214 1964; 2.7 ft. N of S end headwall, 34.8 ft. E centerline of road.
Y 214	4.567	C&GS disk stamped Y 214 1964; 1 ft. W of E end headwall, 247 ft. N of NE corner of bldg., 66.5 ft. W centerline of road.
MOORE (AZ MK)	3.514	C&GS disk stamped MOORE 1875 1940; 163 ft. N centerline W-bound lane, 14 inches E of witness post, in concrete post projecting 5 inches.
MOORE RM 1	1.919	C&GS disk stamped MOORE RM 1 1940; 49.2 ft. SW of MOORE RM 3, in concrete post, in marsh and water.
MOORE RM 2	1.654	C&GS disk stamped MOORE RM 2 1940; 108.5 ft. S of MOORE RM 3, in concrete post, in marsh and water.
MOORE RM 3	2.133	C&GS disk stamped MOORE RM 3 1875 1940; a Bilby tower is over mark.



FLORIDA- NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP-00113

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
MID, 1940	Book 419, pp. 8, 30 G.P.-Fla. Vol. 1, p. 556, P.C. Fla. E Zone, p. 144
MOORE RM 3, 1940	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.

3

Record of Decisions  
Pertaining to Symbolization of the MWL Datums  
Map TP-00113

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water area it covers is a portion of Indian River and Seven Pines Creek. The datum for Indian River was established by observations at Williams Point Indian River Tide Station, situated just southwest of this map. The datum for Seven Pines Creek was established by observation at VAB Banana Creek Tide Station, situated just north of this map.

The periodic tide for this section of the Indian River and Seven Pines Creek 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 mean 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.

\* Decision Responsibility for Shoreline Symbolization

Specific decisions as to the symbolization for mapping the mean water-level line and solid lines for along-shore manmade features were made January 10, 1973, in Rockville, Maryland, by competent technical officials of 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, rendered decisions on datum matters.

They also examined photographs and field edit reports with respect to inland penetration of small streams and drainages; and concluded that those features were properly delineated and symbolized on the map.

Archiving

A copy of this report shall be included in Descriptive Report TP-00113 which will be permanently filed in the Bureau archives.

- \* See Review Report for clarification of date.



Revised 11-19-73

# JOB PH-6716 FLORIDA

## St. Augustine to Cape Kennedy Shoreline Mapping

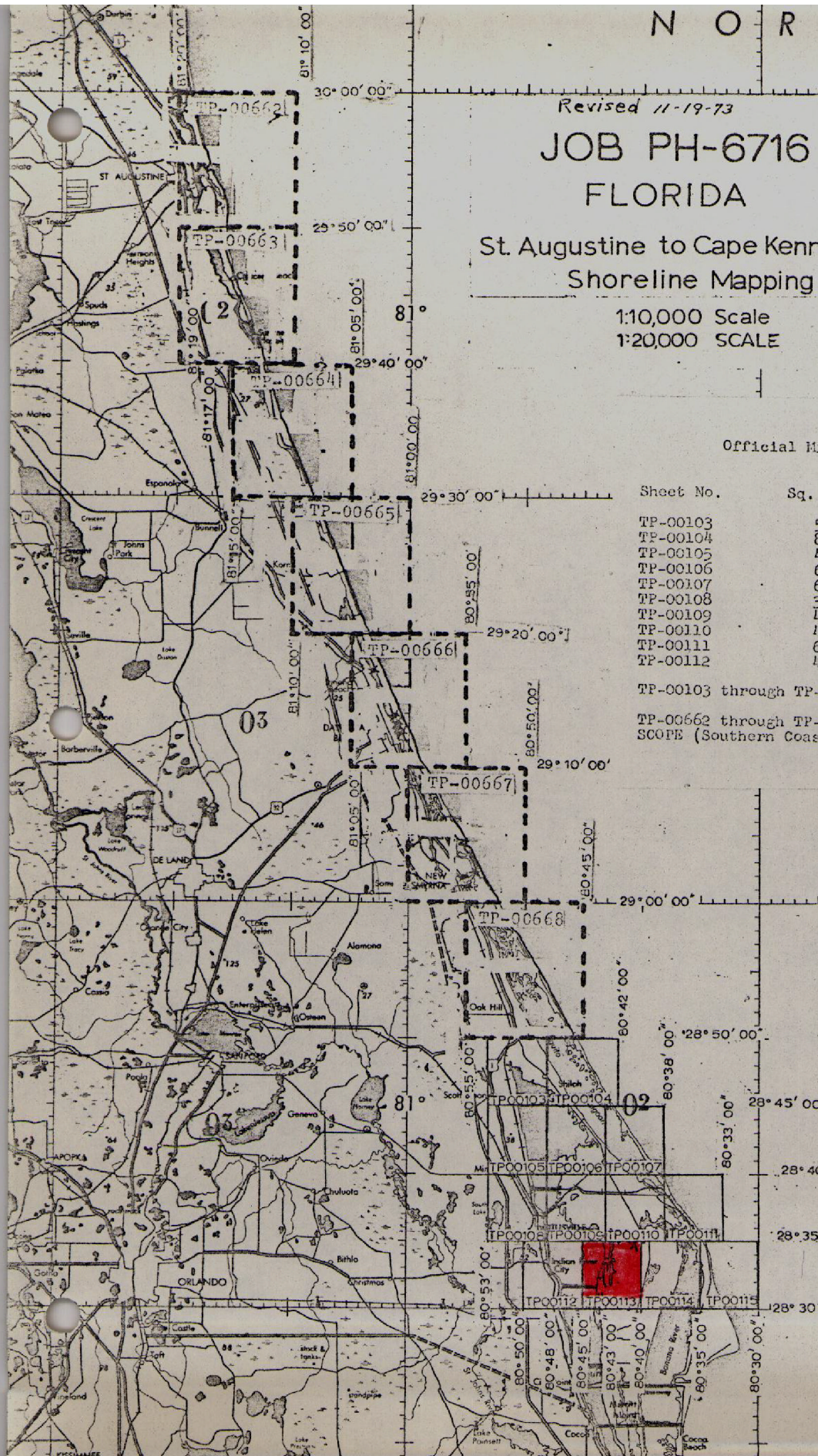
1:10,000 Scale  
1:20,000 SCALE

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-00113 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 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 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  $28^{\circ} 30'$  to  $28^{\circ} 50'$ . 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.

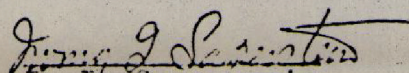
23. Adequacy of Control

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.

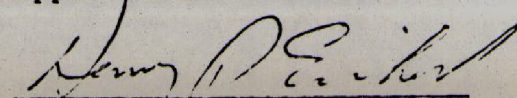
24. Photography

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

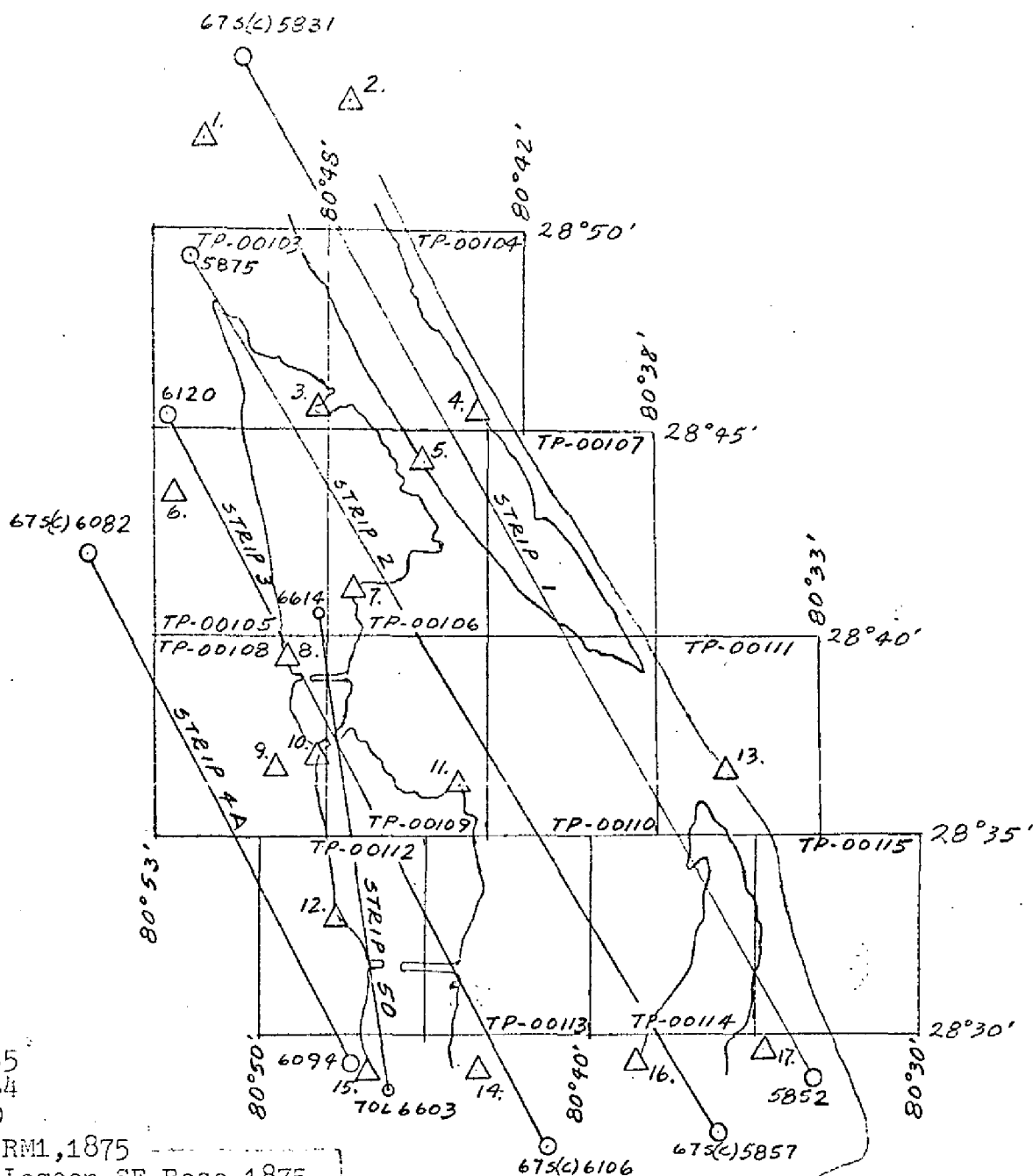
Respectfully submitted:

  
I. Y. Sapozstein

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, 1950
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, 1950
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-00113

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
MID, 1940	Book 419, pp. 8, 30 G.P.-Fla. Vol. 1, p. 556, P.C. Fla. E Zone, p. 144
MOORE RM 3, 1940	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.



Compilation Report  
TP-00113

31. Delineation

The interior features on TP-00113 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 brigade.

The shoreline on this map was compiled graphically from tide-coordinated ~~infrared~~ *black and white* 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

Vertical control from USGS quadrangles was used for leveling stereo models.

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. The shoreline along the east coast of the Indian River is shown as the mean water-level line (refer to the Record of Decisions).

36. Offshore Details

No problems were encountered.

37. Landmarks and Aids

There is one (1) landmark on this map and it is reported on Form 76-40. There are no nonfloating aids to navigation.

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

Comparison has been made with USGS Quadrangle Orsino, Florida, scale 1:24,000, dated 1949.

Major change is the building of the NASA Causeway West (State Hwy 405) across the Indian River from Addison Point to Cape Kennedy.

### 47. Comparison with Nautical Charts

Comparison was made with Nautical Chart 843-SC, side B, scale 1:40,000, 7th edition, dated September 1969, and Nautical Chart No. 1245, scale 1:80,000, 7th edition, August 30, 1969.

Items to be Applied to Nautical Charts Immediately: None.

Items to be Carried Forward: None.

Submitted by:

*John C. Richter (B)*  
John C. Richter  
Carto (Photo)

Approved and forwarded:

*K. N. Maki (B)*  
K. N. Maki  
Chief, Compilation Section

Field Edit Report, Map TP-00113, Job PH-6716

51. METHODS

The very shallow water along the western shore of Merritt Island prevented examining and comparing the shoreline from a boat. We could not get closer than a thousand feet at any point on the south side of the NASA Causeway and not much closer, except in a few places, on the north side. Fortunately, there is a road on the levee which parallels the shoreline and the inspection could be accomplished from it.

With regard to this levee, it is recommended that it be symbolized and shown on the final map manuscript. There is a network of levees throughout the Merritt Island National Wildlife Refuge constructed for controlled water purposes. They are an important feature to this and several other maps in the Job. A map showing the limits of the refuge is submitted as part of the job data. It does not show the levees but is submitted merely for information and perhaps placement of the refuge name on the maps involved. However, the levees are quite obvious on the photographs, particularly the color ones. On this map many, if not most of them, have been labeled. The wildlife officers use the levees as access roads for patrolling the refuge. It is suggested that a note "road on levee" or "trail on levee" in some instances, be added alongside the levee symbol, as it will of necessity be quite narrow. Hand camera photographs (1), (2), and (3) (see last pages of this report) were taken to illustrate the importance of the levee network, to show the type road and the levee size.

Water is impounded within the levees and is normally 2 to 3 feet above river level. This is foreign to much of the inland or eastern part compiled, which is composed of vegetation usually found above water level, but now covered. Palm trees, for instance, are not often found in water as they are here. The compiler classified some such areas "swamp" which is correct under existing conditions.

Marsh and mangrove grow mixed to a state of confusion within the area compiled. Many notes of classification were made on the ratio photographs. Even with these it will be difficult to delimit with accuracy between the two and it is suggested that questionable areas be shown with a mixture of marsh and mangrove symbol or a note, if practical.

One landmark is recommended. It is a Bilby steel tower permanently constructed over triangulation station MOORE R. M. 3, 1963. Form 567 is submitted.



There are no nonfloating aids.

Additions, deletions and corrections have been noted on the FIELD EDIT SHEET or DISCREPANCY PRINT and cross-referenced to the photographs, when appropriate.

Violet ink was used for additions and corrections; green for deletions.

52. ADEQUACY OF COMPILATION

Considerable refinement of drafting appears to be in order, plus the addition of the levees and reclassification of vegetation. As a specific example place the map manuscript over ratio photograph 69L3727 and compare the area in the vicinity of Lat. 28°33.6', Long. 80°43'.

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None offered.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

NASA CAUSEWAY WEST, NASA PARKWAY and MERRITT ISLAND NATIONAL WILDLIFE REFUGE are new names recommended for addition. They were furnished by NASA authorities and involve no conflicts.

A complete names investigation was not required and no conflicts were noted for investigation on the Preliminary Name Sheet.

Submitted 4/29/70

*William H. Shearouse*  
William H. Shearouse  
Chief, Photo Party 60



(1) Looking north across levee at Lat.  $28^{\circ}33.6'$ , Long.  $80^{\circ}42.9'$ . Incorrectly labeled "Ma" on map manuscript. Note the road. This is typical of the road on levee that I have labeled many times on the several manuscripts involved.

(2) Looking north along west edge of same levee. Note that levee is approx. 6 ft higher than water.



(3) Looking west toward the levee.





- (4) This shows large brush--scrub--which has been labeled "Ma" on the map manuscript on south side of NASA PARKWAY in the area of Lat.  $28^{\circ}31.5'$ ,  $80^{\circ}43.5'$ . Photo taken at the point labeled (4) on cronaflex, looking east.



Review Report TP-00113  
Coastal Zone Map  
August 1973

A detailed review of TP-00113 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 by 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:

Orsino, Florida, 1949, photorevised, 1970, scale 1:24,000  
Nautical Chart 843-SC, 10th Edition, dated August 12, 1972

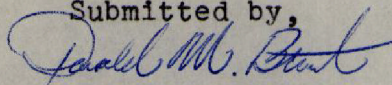
There were no significant differences noted during the comparisons with either the quadrangle or the chart.

The color photography dated October 1967 was used for bridging and the photomosaic. This photography was supplemented by ~~additional~~ <sup>Black and White</sup> photography dated August 1970. (Refer to photogrammetric plot report). The infrared photography taken in August 1969 was used for the compilation of the shoreline. The note on the published map does not mention the August 1969 photography.

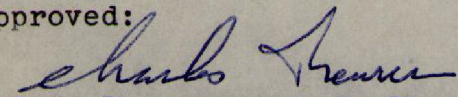
The shoreline on this map was symbolized in accordance with ongoing decisions set forth by officials of the National Ocean Survey. These decisions, however, were formalized and documented at the later date reflected in the Record of Decisions.

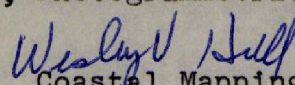
This map complies with project instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,

  
Donald M. Brant

Approved:

  
Chief, Photogrammetric Branch

  
Chief, Coastal Mapping Division



TP-00113

## 48. Geographic Names List

Indian River  
Jones Creek  
Merritt Island  
Middle Prong  
Moore Creek  
Moore Pond  
NASA Causeway West  
NASA Parkway  
Oyster Prong  
Pine Island  
Pine Island Basin  
Pine Island Creek  
Seven Pines Creek  
Three Cabbages  
West Prong

PREPARED BY

*Frank W. Fickett*  
CARTOGRAPHIC TECHNICIAN

APPROVED BY

*A. V. Wright*  
CHIEF GEOGRAPHER  
By *J. W. P.*





RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
1. Objects inspected from seaword	William H. Shearouse
2. Positions determined and/or verified	
	J.C. Richter
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing on Form 76-40
	FIELD INSPECTOR <input type="checkbox"/> FIELD EDITOR
	FIELD INSPECTOR
	FIELD EDITOR
	COMPILER
	<input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

### INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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

### COLUMN TITLE

### TYPE OF ENTRIES

### COMPILATION

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

### FIELD INSPECTION

AND

### FIELD EDIT

1. New Position Determined—Enter the applicable data by symbols as indicated below:

F — Field

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

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-00113

Data Forwarded to the Federal Records Center

1 Field Edit sheet (by.W.H. Shearouse) dated April 1970

1 Discrepancy Print

Photographs:

67S(C)6109

69E 69E4248

67S(C)6108 (lost at this time)

69E3726R thru 3729R

1 Form 567

1 Form 76-36C

Map of Merritt Island National Wildlife Refuge