

TP-00112

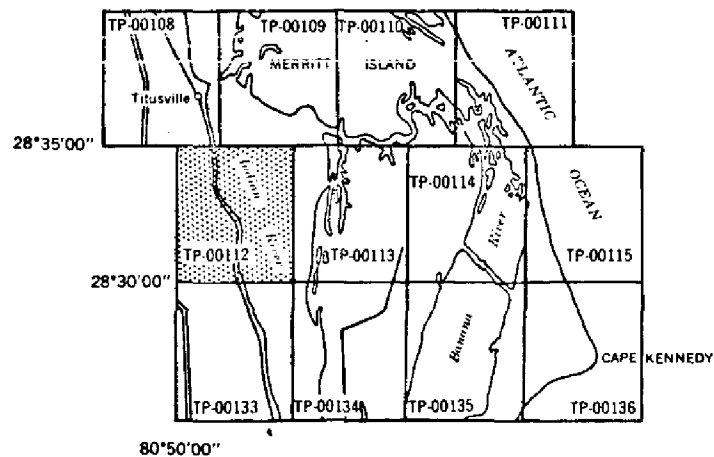
TP-00112

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Type of SurveyCoastal Boundary.....	
Job No. PH-6716.....	Map No. TP-00112..
Classification No. Final	Edition No. ...1.....
Field Edited Map	
LOCALITY	
StateFlorida.....	
General LocalityBrevard County.....	
Locality ..Indian River City.....	
.....	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1967 TO 1970 </div>	
REGISTRY IN ARCHIVES MAY 16 1974 DATE	

SUPPLEMENTAL CONTROL DATA FOR COASTAL ZONE MAP

TP-00112

INDEX TO ADJOINING SHEETS



Florida
Brevard County
Indian River City
April 1973

FLORIDA - NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP - 00112

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
S 228 ✓	23.822	C&GS disk stamped S 228 1964; 55 ft. E of E rail, 24 ft. S centerline dim trail, in concrete post flush with surface.
STRADLEY	4.347	C&GS disk stamped STRADLEY 1940; 19.5 ft. W of seawall, 183 ft. SE of SE corner of house, in concrete post projecting 5 inches.
STRADLEY RM 1	2.976	C&GS disk stamped STRADLEY NO. 1 1940; 68.6 ft. W of station, in concrete post.
STRADLEY RM 2	4.377	C&GS disk stamped STRADLEY NO. 2 1940; 72.2 ft. N of station, 12 ft. W of seawall, in concrete post.
INDIAN RIVER S 1 (USAF)	36.352	U.S.A.F. Disk stamped INDIAN RIVER CITY S 1; in concrete base of SW leg of beacon tower.
J 32 (FLA.GEOD. SURVEY)	19.360	C&GS and FGS disk stamped J 32; 22.6 ft. SE pole 609, in concrete post in ditch, 24 ft. N centerline road. USE WITH CAUTION.
R 32	18.697	C&GS disk stamped R 32 1932; 26.5 ft. E of E rail, 25 ft. N centerline Coquina Ave., 46 ft. SW corner Apollo Auto Supply.
B 190 ✓	19.751	C&GS disk stamped B 190 1959; in S end headwall, 14.2 ft. E of rail, 89 ft. S mile post 162.
WENT	7.113	C&GS disk stamped WENT 1940; 47.5 ft. SE of SE corner of house, 44 ft. W of seawall, 7.5 ft. S of Chinaberry tree.
N 228	6.191	C&GS disk stamped N 228 1964; 12.3 ft. N of S end concrete headwall, 42 ft. W centerline S-bound lane US 1.

FLORIDA - NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP-00112

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
P 228	4.846	C&GS disk stamped P 228 1964; 11.3 ft. S of N end concrete headwall, 23.5 ft. E centerline N-bound lane US 1.
Q 228	9.114	C&GS disk stamped Q 228 1964; 17 ft. S of N end concrete headwall, 25 ft. W centerline S-bound lane US 1.
R 228	17.251	C&GS disk stamped R 228 1964; set vertically in S concrete support column, 30 ft. E centerline N-bound lane US 1.
H 229	23.832	C&GS disk stamped H 229 1965; 5.5 ft. S pole 4551, on copper rod in iron pipe, 2 inches above surface.

FLORIDA— NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP— 00112

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
STRADLEY, 1940	Book 419, pp. 9, 31, 55 G.P.-Fla. Vol. 1, p. 552, P.C. Fla. E. Zone, p. 143.
WENT, 1940	Book 419, pp. 7, 30, 55 G.P.-Fla. Vol. 1, p. 553, P.C. Fla. E. Zone, p. 143.
AIRPORT 2, 1966	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.
VEEDOL 2, 1959	"

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
DESCRIPTIVE REPORT - DATA RECORD		SURVEY TP. <u>00112</u> MAP EDITION NO. <u>1</u> MAP CLASS <u>Final</u> JOB PH. <u>6716</u>	
PHOTOGRAMMETRIC OFFICE <u>Rockville, Maryland</u> OFFICER-IN-CHARGE <u>Commander Wesley V. Hull</u>		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, June 19, 1973 OFFICE-Supplement I, August 19, 1973 Note: Office and Field Edit instructions (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 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 (refer to Record of Decisions bound with this report)	
3. MAP PROJECTION <u>Transverse Mercator</u>		4. GRID(G) STATE <u>Florida</u> ZONE <u>East</u> STATE _____ ZONE _____	
5. SCALE <u>1:10,000</u>			
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		<u>J.D. Perrow</u>	<u>9/69</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		<u>P.J. Dempsey</u> <u>Inapplicable</u>	<u>11/69</u>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		<u>J.C. Richter</u> <u>J.P. Battley</u>	<u>12/69</u> <u>12/69</u>
INSTRUMENT: <u>Wild B-8</u> SCALE: <u>1:10,000</u>		CONTOURS BY <u>Inapplicable</u> CHECKED BY <u>Inapplicable</u>	
4. MANUSCRIPT DELINEATION PLANIMETRY BY Shoreline: <u>Graphic</u> CHECKED BY		<u>J.C. Richter</u> <u>J.P. Battley</u>	<u>12/69</u> <u>12/69</u>
METHOD: <u>Interior: Orthophoto mosaic</u>		CONTOURS BY <u>Inapplicable</u> CHECKED BY <u>Inapplicable</u>	
SCALE: <u>1:10,000</u>		CHECKED BY <u>J. Taylor</u>	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>J.P. Battley</u>	<u>1/70</u>
6. APPLICATION OF FIELD EDIT DATA BY		<u>J.C. Richter</u>	<u>2/70</u>
CHECKED BY		<u>J.P. Battley</u>	<u>6/70</u>
7. COMPILATION SECTION REVIEW BY		<u>J.C. Richter</u>	<u>7/70</u>
8. FINAL REVIEW BY		<u>J.P. Battley</u>	<u>8/70</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>J.P. Battley</u>	<u>10/70</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>D.M. Brant *</u>	<u>11/73</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>R.J. Lester</u>	<u>5/72</u>

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

TP-00112

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 S&L Camera 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED B&W		ZONE Eastern	<input type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 60th	<input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
67S(C)6087-6090	10/11/67	11:02	1:40,000	The stage of tide is inapplicable for the color photography.	
67S(C)6093 and 6094	10/11/67	11:06	1:40,000		
69L(C)3841-3847	8/27/69	10:15	1:15,000		
69L3820R-3822R	8/27/69	9:44	1:30,000	+0.14 MWL	
69L3478R-3481R	8/26/69	9:40	1:30,000	-0.01 MWL	

REMARKS

Titusville Indian River Tide Station

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. Thesshoreline was field edited 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 TP-00108 TP-00109	EAST TP-00113	SOUTH TP-00133 TP-00134	WEST No contem- porary survey
----------------------------	---------------	----------------------------	----------------------------------

REMARKS

Final junctions made in Coastal Mapping Section.

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

TP-00112

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	4/8/70
2. HORIZONTAL CONTROL	W.H. Shearouse	3/17/70
RECOVERED BY	W.H. Shearouse	
ESTABLISHED BY	None	
PRE-MARKED OR IDENTIFIED BY	N.A.	
3. VERTICAL CONTROL	W.H. Shearouse	3/17/70
RECOVERED BY	W.H. Shearouse	
ESTABLISHED BY	N.A.	
PRE-MARKED OR IDENTIFIED BY	W.H. Shearouse	3/18/70
4. LANDMARKS AND AIDS TO NAVIGATION	None	
RECOVERED (Triangulation Stations) BY	W.H. Shearouse	3/70
LOCATED (Field Methods) BY	W.H. Shearouse	3/70
IDENTIFIED BY	W.H. Shearouse	
5. GEOGRAPHIC NAMES INVESTIGATION	W.H. Shearouse	4/70
TYPE OF INVESTIGATION		
<input type="checkbox"/> COMPLETE		
<input checked="" type="checkbox"/> SPECIFIC NAMES ONLY		
<input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	W.H. Shearouse	3/70
CLARIFICATION OF DETAILS BY		
7. BOUNDARIES AND LIMITS	N.A.	
SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
		69L3829R	J32, R32, H228, P228
		69L3821R	H229
		69L3822R	R228, Q228
			S228, B190

3. PHOTO NUMBERS (Clarification of details)

Color transparency 69L3841; 69L3820R, 3821R, 3822R, 3878R, 3879R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Indian River (North Section) aids to navigation Daybeacon 37 thru 51 were verified if compiled or located by sextant fix.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
69E3479R	Missile, 1970 (Landmark)		Light 43
	Daybeacon 37		Daybeacon 44
	Light 38		Daybeacon 47
	Daybeacon 39		Light 48
	Daybeacon 40		Daybeacon 49
	Light 41		Daybeacon 51
	Daybeacon 42		

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

7. SUPPLEMENTAL MAPS AND PLANS

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

Sketchbook Vol. 1. *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 K.J.P.

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

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

5

Record of Decisions
Pertaining to Symbolization of the MWL Datum
Map TP-00112

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water area it covers is a portion of Indian River. The datum for this section of the river was established by observations at Williams Point Indian River Tide Station, situated just south of this map and Titusville Tide Station, north of this map.

The periodic tide for this section of the 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 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, or where vegetation such as mangrove obscures the shoreline and then the apparent shoreline symbol was used.

* Decision Responsibility for Shoreline Symbolization

Specific decisions as to the symbolization for mapping the mean water-level line, apparent shoreline 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. It was also noted that the inland extent of field inspection of the shoreline, up small creeks and drainages was properly shown on the map; it is indicated on the map where the red shoreline symbolization abruptly terminates, but joins the continuing photomosaic portrayal of the shoreline.

Archiving

A copy of this report shall be included in Descriptive Report TP-00112 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

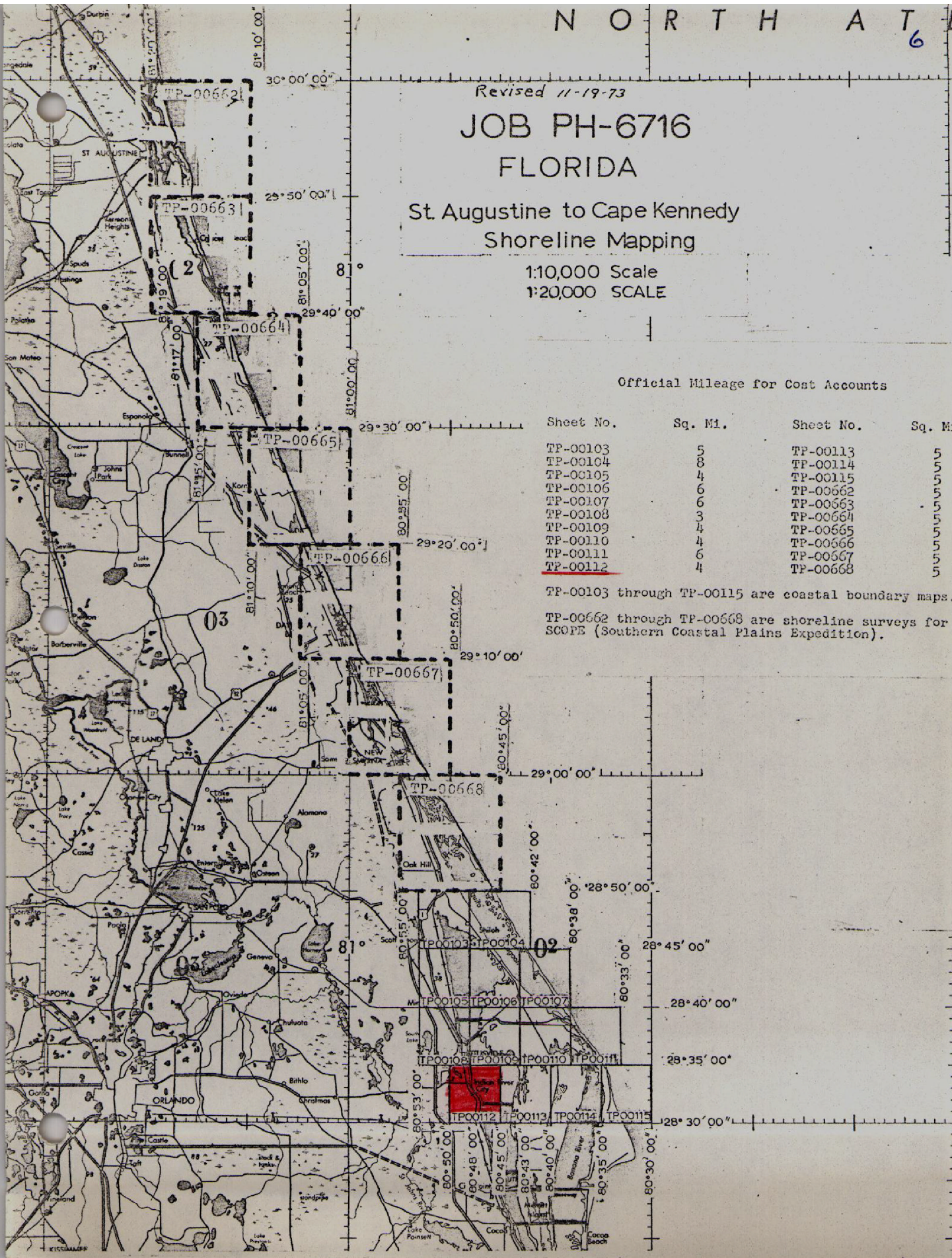
1:10,000 Scale
 1:20,000 SCALE

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
<u>TP-00112</u>	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-00112 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.

10

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.

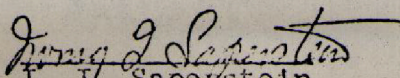
23. Adequacy of Control

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.

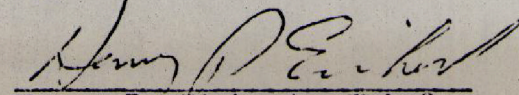
24. Photography

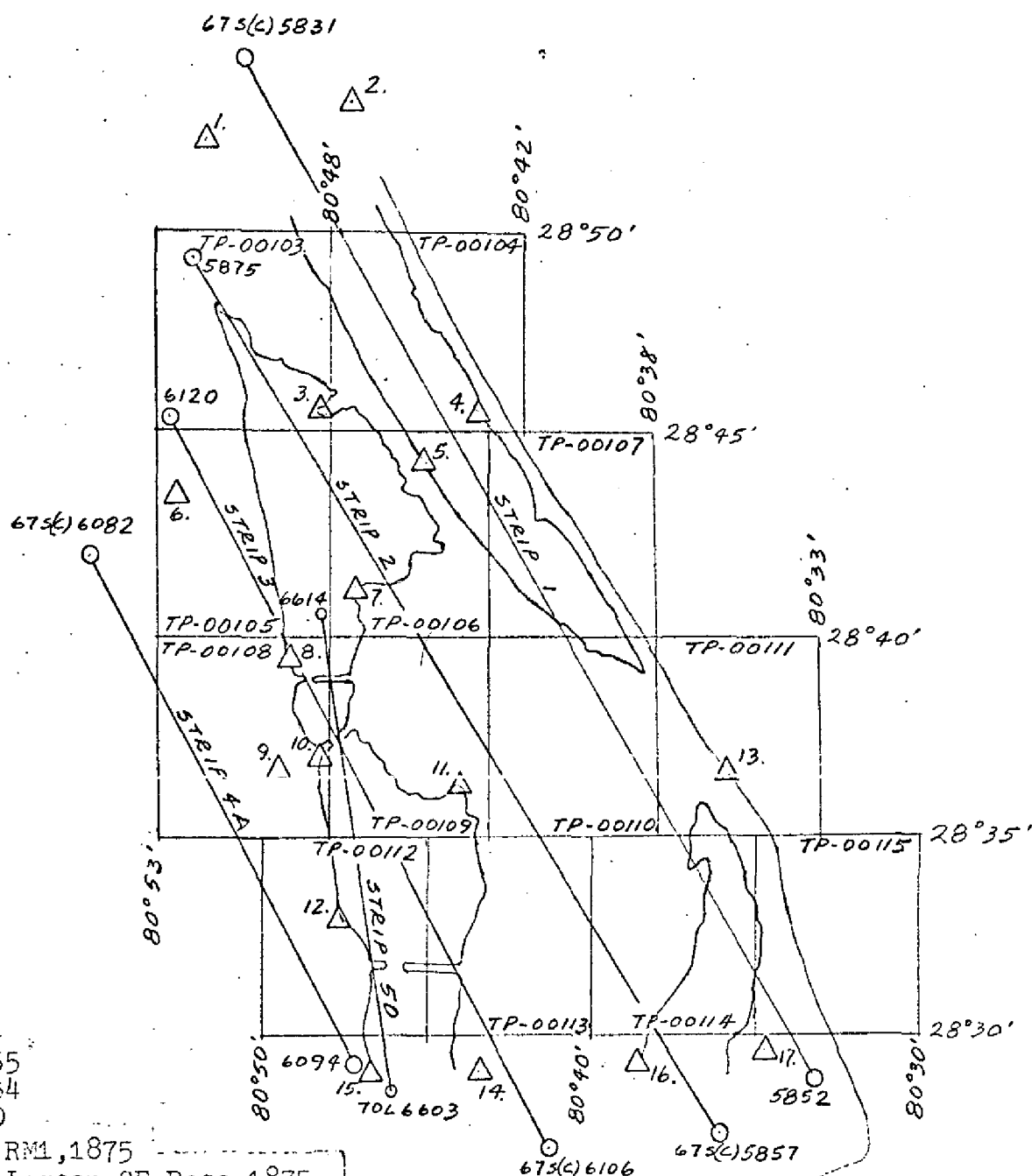
the photography from
The definition and quality of the RC-8 "5" and "L" cameras were good.

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 MW 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

Horizontal Control

Map TP- 00112

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
STRADLEY, 1940 ✓	Book 419, pp. 9, 31, 55 G.P.-Fla. Vol. 1, p. 552, P.C. Fla. E. Zone, p. 143.
WENT, 1940 ✓	Book 419, pp. 7, 30, 55 G.P.-Fla. Vol. 1, p. 553, P.C. Fla. E. Zone, p. 143.
AIRPORT 2, 1966 ✓	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.
VEEDOL 2, 1959 ✓	"

COMPILATION REPORT
TP-00112

31. Delineation

The interior features on TP-00112 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~~ ^{black and white} on this map was compiled graphically from tide-coordinated, 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

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 shoreline was delineated from office interpretation of the photography. The datum for this area is mean water-level, and is shown with the mean water-level symbol (refer to the Record of Decision bound with this report).

36. Offshore Details

Spoil areas were delineated from office interpretation of the photography.

37. Landmarks and Aids to Navigation

Landmarks and aids to navigation that were located (visible on photography or having a published position) during compilation will be verified or recovered by the field editor. Landmarks

and aids to navigation not visible on the photography will be located by field methods.

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 Titusville, Fla., scale 1:24,000, edition of 1952, contours at 5 ft. intervals.

Major changes are the building of the NASA Causeway West, State Hwy, 405, from Addison Point to Cape Kennedy and the displacement of Florida East Coast Railroad, U.S. Highway No. 1, and the new road to the West to Interstate 95.

47. Comparison with Nautical Charts

Comparison has been made with Nautical Chart 843-SG, Side B, scale 1:40,000, 7th edition, September 1969.

Items to be Applied to Nautical Chart Immediately: None.

Items to be Carried Forward: None.

Respectfully submitted:

John C. Richter (JB)

John C. Richter
Carto (Photo)

Approved and forwarded:

K.N. Maki (B)

K.N. Maki
Chief, Compilation Section

Problem resolved - refer to Review Report page 22.

Applicable to Maps TP-00108/109 and TP-00112

Rockville Compilation Section:

Please investigate the difference I am getting at the junction of Maps TP-00108/109 (which are taped together) and TP-00112. While attempting to hold map details--such as piers, boathouses, bulkheads and streets--I find that there seems to be a discrepancy or difference of something like 1.5 mm in the position of Photo Pt. 112-J--when holding map details in TP-00108 and pricking 112-J, then holding detail in TP-00112 and pricking 112-J. Without benefit of pass points I am unable to resolve the difference. It appears that a good junction may not have been made, as there is one street omitted from both sheets (108 and 112). See this by laying the map manuscripts on Photo 69L3481R.

This matter came to light when plotting sextant fixes for the aids to navigation. Daybeacon 36 was thought to be in Map TP-00112 and a fix (see page 16, sketchbook 1) was taken using control (Photo) points in that map. It was plotted satisfactorily on 112 although across the North limit in TP-00109. Later a fix was taken at Daybeacon 34 (Map TP-00109) using Photo Pt. 112-J in the fix (see page 1, sketchbook 2). A cut was made ahead to Daybeacon 33 at the same time. However, when the fix made at Daybn 33 was plotted it did not plot on the cut (from Daybn 34). Investigation revealed that Photo Pt. 112-J had 2 positions, as stated in paragraph 1. When using the other position for 112-J (the one determined from TP-00108 details) the cut to Daybn 33

was satisfactory. Subsequently another fix was taken at Daybeacon 36 (see page 9, sketchbook 2) using Photo Pts. in TP-00108/109 only. This fix, including a cut to Daybeacon 34, was laid out graphically on a large sheet of paper and the point pricked (graphic fix submitted).

Perhaps all this can be ironed out without too much trouble with the use of pass points and other control, and the correct positions of the daybeacons determined--and I thank you.

Bill Shearouse
William H. Shearouse

Cocoa, Fla.

April 23, 1970

Field Edit Report, Map TP-00112, Job PH-6716

51. METHODS

The shoreline of the Indian River was visually verified from a small boat running close to shore and from on-shore where the highway parallels the shoreline. This being the first map to be field edited in the Job, a number of hand camera photographs were taken for benefit of the compilers and to clarify certain features. They are a part of this report.

Highways and main streets were ridden out as a verification procedure. Data for Map TP-00108 includes a city map of Titusville and a Brevard County General Highway Map that will also be useful for names and numbers in this map.

One new landmark is recommended. Form 567 is submitted. The Aero Beacon at TI-CO Airport was photo-identified.

Nonfloating aids to navigation were verified, the dates being entered on the Form 567 prepared during compilation. Several were located by sextant fix and are plotted on the FIELD EDIT SHEET (Cronaflex). One group of privately maintained channel markers were identified on a color transparency. Other piles and channel markers were located by sextant fix and plotted on the FIELD EDIT SHEET.

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

Violet ink was used for field edit notes.

Only one FIELD EDIT SHEET was used. It has the plotted nonfloating aids and field edit notes on it.

52. ADEQUACY OF COMPILATION

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

53. MAP ACCURACY

No tests were specified.

Clarification of junction details between maps TP-00108 and TP-00112 has been requested in the report for TP-00108.

54. RECOMMENDATIONS

None offered.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

The PRELIMINARY NAME SHEET requested clarification of the name TITUSVILLE - COCOA AIRPORT as opposed to TITUSVILLE - COCOA MUNICIPAL AIRPORT. It turns out that neither are right. The correct name is TI - CO AIRPORT and this is the name used by the compiler on the Map Manuscript. Authority for the correct name is the airport manager who also furnished a sheet of letterhead stationery with the official name on it. It is attached to the Preliminary Name Sheet.

One new name has been added: NASA CAUSEWAY WEST. It was furnished by authorities at NASA headquarters on Merritt Island.

Submitted 4/27/70

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60



(1) Typical fringe of grass in water along mainland--west bank of Indian River just south of Titusville.

(2) Indian River bank where the marsh grass does not exist.



(3) Stubble where grass in water has been cut.





(4) Further illustrates grass in water.

(5) Shows hard ground and grass that has been incorrectly compiled as marsh in several places.



(6) Point of land that has been ditched and drained, now being above mean water level for the most part.



(7) A typical marshy point on mainland shoreline of Indian River.

(8) Illustrates answer to question on Discrepancy Print.



Review Report TP-00112
Coastal Zone Map
October 1973

A detailed review of TP-00112 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

The report by the field editor dated April 23, 1970, concerning differences in junctions between this map and adjoining maps TP-00108 and TP-00109 were resolved in the Coastal Mapping Section. These differences were resolved by assembling a new mosaic from the color photography rectified to the points determined by the bridge. The shoreline and alongshore details were compiled from the ^{black and white} infrared photography. The ^{black and white} infrared photography was controlled by holding photo images common to the rectified photography.

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

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

There were no significant differences noted between the quadrangle and this map.

Nautical Chart 843-SC shows piling north of Light 41 which is not shown on this map. No mention of this piling was made by the field editor.

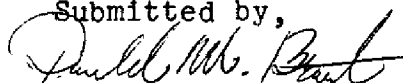
There are channel markers shown on this map and reported on forms 76-40. These channel markers are not shown on Nautical Chart 843-SC.

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 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.

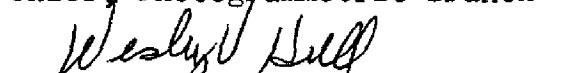
This map complies with project instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,



Donald M. Brant

Approved:


Chief, Photogrammetric Branch
Chief, Coastal Mapping Division

TP-00112

48. Geographic Name List

Addison Point
Bellwood
Burns Hammock
Indian River
Indian River City
Florida East Coast Railroad
NASA Causeway West
Riveredge Drive

PREPARED BY

Frank W. Fickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY

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

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
1. Objects inspected from seaward	William H. Shearouse
2. Positions determined and/or verified	William H. Shearouse
3. Forms originated by Quality Control and Review Group and final review activities	K. N. Maki

INSTRUCTIONS FOR METHOD AND DATE OF LOCATION SECTION	
Transferred data to Form 76-40 and copy checked after typing.	FIELD INSPECTOR
	FIELD EDITOR
	COMPILER
	REVIEWER
	QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

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

AND

FIELD EDIT

F — Field

P — Photogrammetric

EXAMPLES:

- | | | |
|------------------|---------------------|--------|
| 1. Triangulation | 1. Field identified | F. 3.c |
| 2. Traverse | 2. Theodolite | |
| 3. Intersection | 3. Planetable | |
| 4. Resection | 4. Sextant | P. 2 |
| a. Theodolite | | |
| b. Planetable | | |
| c. Sextant | | |

Immediately beneath the data described above, enter the following:

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

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

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

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

RESPONSIBLE PERSONNEL		TITLE
TYPE OF ACTION	NAME	
1. Objects inspected from seaward	William H. Shearouse	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	William H. Shearouse	FIELD EDITOR
	K. N. Maki	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Transferred data to Form 76-40 and copy checked after typing.	<input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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

COLUMN TITLE

TYPE OF ENTRIES

COMPILATION

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

FIELD INSPECTION

AND

FIELD EDIT

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

F — Field

P — Photogrammetric

EXAMPLES:

1. Triangulation

1. Field identified

2. Traverse

2. Theodolite

F.3.c

3. Intersection

3. Planetable

4. Resection

4. Sextant

P.2

a. Theodolite

b. Planetable

c. Sextant

Immediately beneath the data described above, enter the following:

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

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

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

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

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

U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION										ORIGINATING ACTIVITY	
NONFLOATING AIDS OR LANDMARKS FOR CHARTS										<input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input type="checkbox"/> FINAL REVIEW <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW	
DATE										10/26/73	
ORIGINATING LOCATION										10/26/73	
Rockville, Maryland											
The following objects have (have not) been inspected from seaward to determine their value as landmarks:											
JOB NUMBER PH-6710	SURVEY NUMBER T-TP-00112	DESCRIPTION	DUTUM	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		CHARTS AFFECTED	
				0	1	0	1	FIELD INSPECTION	COMPILATION		FIELD EDIT
		Indian River (North Section)									
DYBN		Daybeacon 37	28 34	31.8	80 47	57.9			P-4	843-SC	
LIGHT		Light 38	28 34	978.0	80 46	1575.0			3/19/70	843-SC	
DYBN		Daybeacon 39	28 33	40.0	80 46	36.4			P-4	843-SC	
DYBN		Daybeacon 40	28 33	1231.0	80 46	990.0			3/19/70	843-SC	
DYBN		Daybeacon 42	28 32	42.2	80 46	14.0			P-4 Verif.	843-SC	
LIGHT		Light 43	28 32	41.5	80 46	10.6			P-4 Verif.	843-SC	
LIGHT		Light 43	28 32	1278.0	80 46	288.0			3/19/70	843-SC	
DYBN		Daybeacon 44	28 32	7.8	80 46	3.4			P-4 Verif.	843-SC	
LIGHT		Light 47	28 31	10.1	80 45	49.8			P-4	843-SC	

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
1. Objects inspected from seaward	W.H. Shearouse
2. Positions determined and/or verified	
	W.H. Shearouse
	K. N. Maki
3. Forms originated by Quality Control and Review Group and final review activities	Positions listed on Form 76-40 and copy checked

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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

COLUMN TITLE TYPE OF ENTRIES

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

FIELD INSPECTION AND FIELD EDIT 1. New Position Determined-Enter the applicable data by symbols as indicated below:

- | | | |
|------------------|---------------------|-----------|
| F - Field | P - Photogrammetric | EXAMPLES: |
| 1. Triangulation | 1. Field identified | F.3.c |
| 2. Traverse | 2. Theodolite | |
| 3. Intersection | 3. Planetable | |
| 4. Resection | 4. Sextant | P.2 |
| a. Theodolite | | |
| b. Planetable | | |
| c. Sextant | | |

Immediately beneath the data described above, enter the following:
 a. For 'Field Positions' enter the date of location.
 b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

2. Triangulation Station Recovered - Enter 'Triang. Rec. mo/day/yr.'
 3. Position Verified - Enter 'Verif. mo/day/yr.' * U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 R1

RESPONSIBLE PERSONNEL		TITLE	
TYPE OF ACTION	NAME		
1. Objects inspected from seaward	W.H. Shearouse	<input type="checkbox"/> FIELD INSPECTOR	<input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	W.H. Shearouse	FIELD INSPECTOR	
	K. N. Markl	FIELD EDITOR	
3. Forms originated by Quality Control and Review Group and final review activities	Positions listed on Form 76-40 and copy checked	<input type="checkbox"/> 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

COMPLATION

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

FIELD INSPECTION

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

AND

FIELD EDIT

F — Field

P — Photogrammetric

EXAMPLES:

1. Triangulation
2. Traverse
3. Intersection
4. Resection

1. Field identified
2. Theodolite
3. Planetable
4. Sextant

F. 3.c

- a. Theodolite
- b. Planetable
- c. Sextant

P. 2

Immediately beneath the data described above, enter the following:

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

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

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

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

* U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 RE

[illegible]

RESPONSIBLE PERSONNEL

TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	William H. Shearouse	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
		FIELD EDITOR
	Steve Solbeck	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	copy checked after typing	<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

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

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

FIELD INSPECTION
AND
FIELD EDIT

F — Field

1. Triangulation
2. Traverse
3. Intersection
4. Resection

- a. Theodolite
- b. Planetable
- c. Sextant

EXAMPLES:

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

F. 3.c

P. 2

Immediately beneath the data described above, enter the following:

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

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

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

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

[illegible]

RESPONSIBLE PERSONNEL

TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	William H. Shearouse	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
		FIELD EDITOR
	Steve Solbeck	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	copy checked after typing	<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

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

FIELD EDIT

F — Field

1. Triangulation
2. Traverse
3. Intersection
4. Resection

- a. Theodolite
- b. Planetable
- c. Sextant

EXAMPLES:

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

F. 3.c

P. 2

Immediately beneath the data described above, enter the following:

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

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

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

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

[illegible]

RESPONSIBLE PERSONNEL		TITLE	
TYPE OF ACTION	NAME		
1. Objects inspected from seaward	William H. Shearouse	<input type="checkbox"/> FIELD INSPECTOR	<input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR	
		FIELD EDITOR	
	Steve Solbeck	COMPILEN	
3. Forms originated by Quality Control and Review Group and final review activities	copy checked after typing	<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

COMPILATION

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

TYPE OF ENTRIES

FIELD INSPECTION

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

AND FIELD EDIT

F - Field

1. Triangulation
2. Traverse
3. Intersection
4. Resection

- a. Theodolite
- b. Planetable
- c. Sextant

EXAMPLES:

F. 3.c

P. 2

Immediately beneath the data described above, enter the following:

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

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

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

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

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

TP-00112

Data Forwarded to the Federal Records Center

1 Field edit sheet dated March 1970 by W.H. Shearouse
(on stable base material)

1 Discrepancy Print

Photographs:

69L3841 (Transparency)
69L3820R thru 3822R
69L3878R and 3879R/

4 Forms 567

1 Form 76-36C

Sketchbook Vol. 1 (filed with TP-00109)

1 Fort C&GS -152