

original

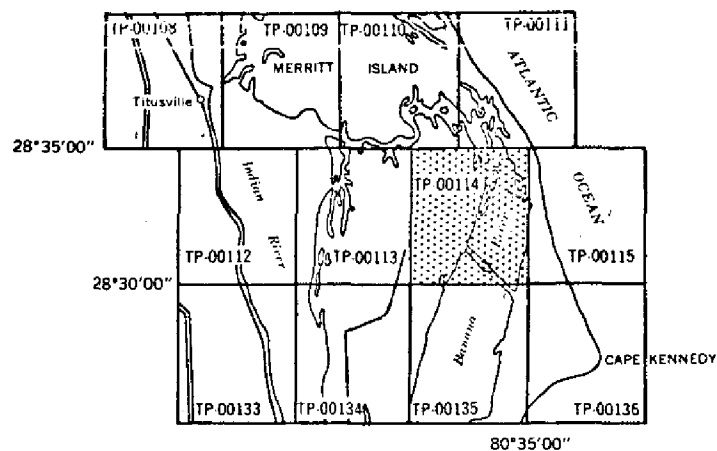
TP-00114

TP-00114

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-00114
Classification No. Final	Edition No. 1
Field Edited Map	
LOCALITY	
State Florida	
General Locality Brevard County	
Locality Jack Davis Cut to Buck Creek	
.....	
<hr/> 19 67 TO 1970 <hr/>	
REGISTRY IN ARCHIVES	
DATE MAY 16 1974	

SUPPLEMENTAL CONTROL DATA FOR COASTAL ZONE MAP

TP-00114



Florida
Brevard County
Buck Creek to Jack Davis Cut
April 1973

5/8/73

Florida I

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

TIDAL BENCH MARKS

Orsino (NASA) Causeway, Banana River Bridge
Lat. 28°30'.8; Long. 80°36'.7

BENCH MARK 1 (1969) is a standard disk, stamped "NO 1 1969," set on the top of the southwest corner of the concrete base which supports a large power transformer. It is 98.5 feet west of the northwest end of the Causeway Bridge over Banana River, 44.3 feet southwest of the centerline of the Causeway and 18.3 feet southwest of power line pole B96, about 2 feet below the level of the Causeway. Elevation: 8.80 feet above mean water level.

BENCH MARK 2 (1969) is a standard disk, stamped "NO 2 1969," set in the top of a concrete retaining wall, 212 feet north of the northeast corner of the bridge over the Banana River, 97.8 feet northeast of the centerline of the Causeway and 5.7 feet west of the west corner of the pump house (building M7-1098), about level with the highway. Elevation: 6.63 feet above mean water level.

BENCH MARK G 193 (1964) is a standard disk, stamped "G 193 1964," set in the top of the northwest end of the northeast curb of the Causeway, 15 feet northeast of the centerline of the bridge, 7.3 feet southeast of the northwest end of the curb and 1 foot above the level of the Causeway. Elevation: 15.18 feet above mean water level.

BENCH MARK J 215 (1965) is a standard disk, stamped "J 215 1965," set in the top of a concrete curb for a drainage ditch, 240 feet northwest of the northwest end of the bridge over the Banana River, 26.2 feet north of power line pole B95 and 19.9 feet southwest of the centerline of the Causeway, about level with the Causeway. Elevation: 7.47 feet above mean water level.

BENCH MARK K 215 (1965) is a standard disk, stamped "K215 1965," set in the top of a concrete step to a pump house (house numbered M7-1098). It is 197 feet north of the northwest corner of the bridge over the Banana River, 97.8 feet northeast of the centerline of the Causeway, about level with the highway. Elevation: 8.21 feet above mean water level.

Mean water level at Orsino Causeway is based on 19 months of record: December 1969 through November 1971, reduced to mean values. The periodic tide is small and is masked by nontidal effects.

FLORIDA - NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP - 00114

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
C 193	7.254	C&GS disk stamped C 193 1964; 47 ft. E centerline Ave. E, flush with surface in N end culvert.
F 193	4.042	C&GS disk stamped F 193 1964; 82 ft. S centerline road, 81 ft. NE of shoreline, in concrete post projecting 6 inches.
H 193	6.919	C&GS disk stamped H 193 1964; 54 ft. NE canal bank, 27 ft. SW centerline road, in concrete post projecting 5 inches.
J 193	3.061	C&GS disk stamped J 193 1964; 41 ft. E centerline road, 2 ft. N of S end culvert, 77 ft. S pole with brace.
K 193	5.236	C&GS disk stamped K 193 1964; E of road, 46 ft. E pole, 2 ft. S witness post, in concrete post projecting 8 inches.
L 193	3.789	C&GS disk stamped L 193 1964; 35 ft. W centerline road, 2 ft. N of S end of culvert.
M 193	3.278	C&GS disk stamped M 193 1964; 32 ft. W centerline road, 1 ft. S of N end culvert.
Q 213	3.967	C&GS disk stamped Q 213 1964; 76 ft. W centerline road, 15 ft. E of E pole, 18 inches N of S end culvert.
R 213	8.681	C&GS disk stamped R 213 1964; 24 ft. E centerline road, in drill hole in N side concrete manhole.
T 213	6.808	C&GS disk stamped T 213 1964; 30 ft. E centerline road, 16 inches N of S end culvert.

FLORIDA - NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP - 00114

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
U 213	9.705	C&GS disk stamped U 213 1964; 75 ft. W of W side bldg., 24 ft. E centerline road, in drill hole W side N manhole of four.
W 213	8.963	C&GS disk stamped W 213 1964; 23 ft. E of E rail, in drill hole E manhole of two.
X 213	8.655	C&GS disk stamped X 213 1964; 23 ft. E of E rail, in drill hole in E side E manhole of two.
Y 213	8.337	C&GS disk stamped Y 213 1964; 23 ft. E of E rail, in drill hole in E side E manhole of two.
K 215	8.455	(*)
G 193	15.426	(*)
J 215	7.720	(*)
ORSINO CAUSEWAY, TIDAL 1	9.045	(*)
ORSINO CAUSEWAY, TIDAL 2	7.877	(*)

* Description given under Tidal Bench Marks.

FLORIDA- NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP- 00114

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
204 WT 2, 1965	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>00114</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>Final</u>	
				<input type="checkbox"/> REVISED		JOB <u>PH- 6716</u>	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Rockville, Maryland				TYPE OF SURVEY		JOB <u>PH- _____</u>	
OFFICER-IN-CHARGE				<input type="checkbox"/> ORIGINAL		MAP CLASS <u>_____</u>	
Commander Wesley V. Hull				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19 <u> </u> TO 19 <u> </u>	
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 (Refer to the Record of Decisions bound with this report).			
3. MAP PROJECTION				4. GRID(S)			
Transverse Mercator				STATE Florida		ZONE East	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				J.D. Perrow		10/69	
				Inapplicable			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY				P. Dempsey		11/69	
				Inapplicable			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				R.A. Youngblood		1/70	
INSTRUMENT: Wild B-8				M.C. Webber		1/70	
SCALE: 1:10,000				Inapplicable			
4. MANUSCRIPT DELINEATION PLANIMETRY BY Shoreline: Graphic CHECKED BY				R.A. Youngblood		2/70	
				M.C. Webber		2/70	
METHOD:				Inapplicable			
Interior: Orthophoto mosaic				Inapplicable			
SCALE:				J. Taylor		2/70	
				J.P. Battley		2/70	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				J.P. Battley		3/70	
6. APPLICATION OF FIELD EDIT DATA BY				M.C. Webber		7/70	
				J.P. Battley		7/70	
7. COMPILATION SECTION REVIEW BY				J.P. Battley		10/70	
8. FINAL REVIEW BY							
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				* D.M. Brant		11/73	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R.J. Lantz		5/74	

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

COMPILATION SOURCES

TP-00114

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 S&L Cameras 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) <u>COLOR</u> (P) PANCHROMATIC (I) <u>INFRARED B&W</u>		ZONE	<input type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Eastern	<input checked="" type="checkbox"/> DAYLIGHT
				MERIDIAN	60th
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
67S(C)5846-5849	10/3/67	10:03	1:40,000	The stage of tide is inapplicable for the color photography.	
67S(C)5857-5860	10/3/67	11:06	1:40,000		
69L3737R - 3739R	8/27/69	8:54	1:30,000	+0.22MWL	
69L3574R - 3577R	8/26/69	12:08	1:30,000	+0.11MWL	
69L3787R	8/27/69	09:20	1:30,000	+0.20MWL	

REMARKS

Orsino Causeway 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 red 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 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	TP-00110 TP-00111	EAST	TP-00115	SOUTH	TP-00135 (PH-5910)	WEST	TP-00113
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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-00114

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

May 1970

* See item 8

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W.H. Shearouse	5/5/70
RECOVERED BY	W.H. Shearouse	5/70
2. HORIZONTAL CONTROL		
ESTABLISHED BY		
PRE-MARKED OR IDENTIFIED BY		
RECOVERED BY	W.H. Shearouse	5/70
3. VERTICAL CONTROL		
ESTABLISHED BY		
PRE-MARKED OR IDENTIFIED BY	W.H. Shearouse	5/70
RECOVERED (Triangulation Stations) BY	W.H. Shearouse	4/70
4. LANDMARKS AND AIDS TO NAVIGATION	W.H. Shearouse	4/70
LOCATED (Field Methods) BY	W.H. Shearouse	4/70
IDENTIFIED BY	W.H. Shearouse	4/70
5. GEOGRAPHIC NAMES INVESTIGATION		
TYPE OF INVESTIGATION		
<input type="checkbox"/> COMPLETE		
<input checked="" type="checkbox"/> SPECIFIC NAMES ONLY	W.H. Shearouse	4/70
<input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W.H. Shearouse
		4/70
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Inapplicable

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
		69L3737R	F193, 1964
		67S(C)5859	C193, 1964
		67S(C)5859	H193, 1964
		67S(C)5859	K214, 1965
		69L3787R	J193, K193, L193, M193
		67S(C)5849	R213, T213, Q213, 1964

3. PHOTO NUMBERS (Clarification of details)

67S(C)5849, 5858, 5859, 5860; 69L3737R, 3738R, 3771R, 3788R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Banana River aids to navigation daybeacon 32 through light 60 were verified, if located during compilation, or located by sextant fix.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
69L3739R	Weather Tower		

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)

Sextant fixes are in sketch book Vol. 1.

*Refer to page 9 of this report for data concerning field inspection.

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

TP-00114

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.L.

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	

5

Record of Decisions
Pertaining to Symbolization of the MWL Datums
TP-00114

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water area it covers is a portion of Banana River and VAB Turning Basin. The datum for this section of the Banana River was established by observations at Orisino Causeway Tide Station (shown on this map) and for the Turning Basin by observations at VAB Turning Basin Tide Station, situated just north of this map.

The periodic tide for these interior waters 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.

Archiving

A copy of this report shall be included in Descriptive Report TP-00114 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

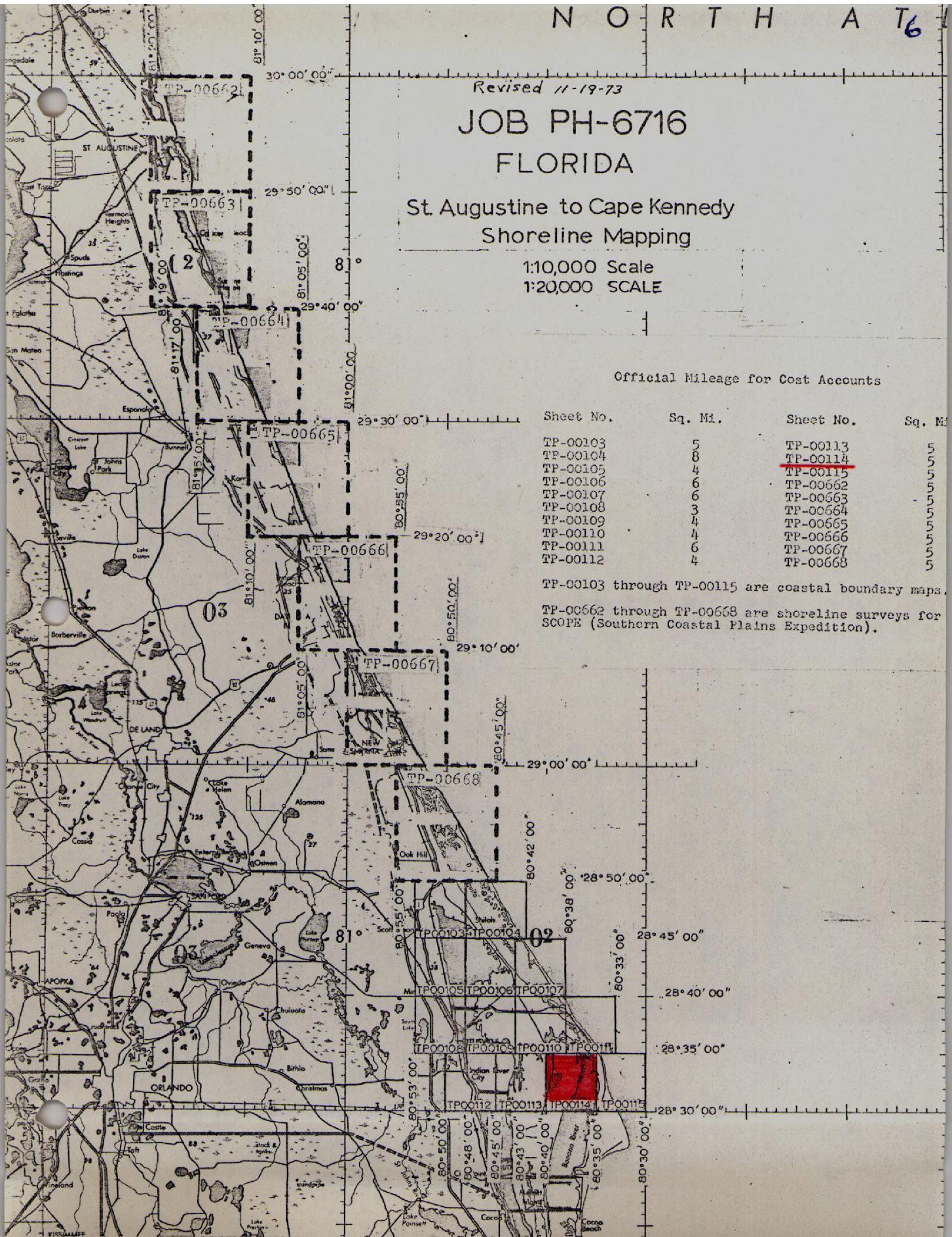
1:10,000 Scale
1:20,000 SCALE

Official Mileage for Cost Accounts

Sheet No.	Sq. Mi.	Sheet No.	Sq. Mi.
TP-00103	5	TP-00113	5
TP-00104	8	<u>TP-00114</u>	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-00114 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.

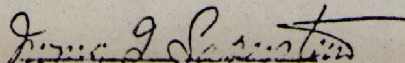
23. Adequacy of Control

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.

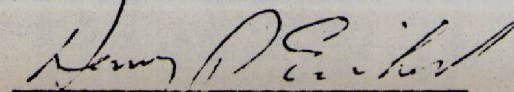
24. Photography

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

Respectfully submitted:


I. V. Sapeystein

Approved and forwarded:


Henry P. Eichert, Chief
Aerotriangulation Section

FLORIDA - NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP- 00114

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
204 WT 2, 1965	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.

COMPILATION REPORT
TP-00114

31. Delineation

The interior features on TP-00114 are depicted by an orthophoto mosaic using rectified black and white prints of the color photography. Control for rectifying the color photography was furnished by the analytic bridge.

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

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

32. Horizontal Control

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

33. Supplemental Data

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 is shown as the mean water-level line (refer to the Record of Decisions).

36. Offshore Details

The spoil areas (subject to change in size and position) were compiled 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. Existing landmarks and charted aids to navigation not visible on the photography will be located by field methods.

38. Control for Future Surveys

Tidal bench marks established by the tide observation party.

297

39. Junctions

Refer to form 76-36B (page 2 of this 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. Inapplicable46. Comparison with Existing Maps

USGS Quads False Cape, Florida, 1:24,000 scale, edition of 1951.

47. Comparison with Nautical Charts

Nautical Chart 1245, 1:80,000 scale, 7th edition, August 30, 1969.

Items to be Applied to Nautical Charts Immediately: None.

Items to be Carried Forward: None.

Respectfully submitted:

Martha C. Webber (JB)
Martha C. Webber
Carto Tech.

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

Field Edit Report, Map TP-00114, Job PH-6716

51. METHODS

Field edit of shoreline and alongshore features was accomplished from a small boat running close to shore or from the truck. Most of the water area is north of the NASA Causeway East and is not open to the public.

As in the Field Edit Report for map TP-00113, it is recommended that levees be added. In attempting to illustrate the importance of this feature an additional hand camera photo or two are submitted. A few photographs showing other features will also be found in this report. A good many photos of this type are being submitted in hopes they will give the compiler a little better idea of various types of vegetation and conditions in the early part of the job.

Nonfloating aids to navigation were verified, if located during compilation, or located by sextant fix, the fix being submitted in sketchbook Vol. 1. Dates of location have been entered on the Form 567 previously prepared in Rockville.

Form 567 is being submitted for one landmark tower. Additions, deletions and corrections have been noted on FIELD EDIT SHEET No. 1 or DISCREPANCY PRINT and cross-referenced to the photographs.

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

52. ADEQUACY OF COMPILATION

The principal additions required by field edit are railroads on the eastern side of the Banana River and levees on western side. The compilation will be adequate after application of these features and the other field edit corrections.

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None offered.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

NASA CAUSEWAY EAST is the only new name recommended for addition. It was furnished by NASA authorities. Several street or road names have been entered on the Field Edit Sheet. They were taken from road signs.

Submitted 5/1/70

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Addendum: Orsino Tide Gage in this map is identified on Photo 67S(C)5859 and shown on the cronaflex at the drawbridge on the NASA Causeway East.



- (1) Palmetto and brush which has been classified "Mg" on compilation along junction between Maps TP-00114 and TP-00110/111.



Photos (2) and (3) taken to illustrate a type of salt weed that is compiled as marsh, and correctly so.





- (4) Illustrates height of levee and type of vegetation that grows on it. Levee is approx 7 ft high; brush about 4. Levees have been omitted from compilation and in some places classified marsh.



- (5) "Broom-straw" or sedge grass and sct. myrtle.
Classified marsh on compilation. Should be
"open".



Throughout the Job in maps edited so far there have been many large areas of dead mangrove found. All of these have been where there is a levee surrounding them. As mangrove thrives in salt water areas it was not understood why it would die in so many places. An explanation was offered by the Merritt Island National Wildlife Refuge manager. He says that when the levees were built the areas were flooded too fast and too deep causing the mangrove to drown. This is due to the fact that the plant has to "breathe" and in the case of the black mangrove (which is predominantly the kind that is dead) it indeed has pneumatophore roots or breathing organs. When the flood waters covered these roots and stayed there they drowned.



Some of these areas have been correctly classified mangrove because the plants are beginning to recover and it is believed the mangrove will take over again. Other areas have been classified marsh or open water.



Maybe these photos will help some.

Review Report TP-00114
Coastal Zone Map
August 1973

A detailed review of TP-00114 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:

False Cape. Florida, 1949, photorevised 1970, scale 1:24,000
Nautical Chart 1245, 8th edition, dated September 11, 1971
scale 1:80,000

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

It was noted during the examination of this map that the charting name for the landmark (WEATHER TOWER approximate Latitude $28^{\circ}34'$ and Longitude $80^{\circ}55'$) was omitted from the map. The name of the triangulation station and landmark should be the following:

204 WT 2, 1965
WEATHER TOWER, steel ht = 214(221)

The color photography dated October 1967 was used for bridging and the photomosaic. This photography was supplemented by ~~additional~~ ^{Black and white} 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 on-going 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.

Approved:

Charles Greiner
Chief, Photogrammetric Branch

Wesley V. Self
Chief, Coastal Mapping Division

Submitted by:

Donald M. Brant
Donald M. Brant

TP-00114

48. Geographic Name List

- Banana River
- Buck Creek
- East Conrad Creek
- Futch Point
- Hamper Hammock
- Jack Davis Cut
- Merritt Island
- NASA Causeway East
- NASA Parkway
- Saturn Barge Channel
- Static Test Road
- Tea Creek
- Tea Creek Cutoff
- Titan III Road
- Transporter Road
- West Conrad Creek

PREPARED BY

Frank W. Fickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. J. Wright
CHIEF GEOGRAPHER
By F. W. F.

[illegible]

RESPONSIBLE PERSONNEL		TITLE
TYPE OF ACTION	NAME	
1. Objects inspected from seaward	William H. Shearcuse	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	William H. Shearcuse	FIELD INSPECTOR
	Martha C. Webber	FIELD EDITOR
		COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing on Form 76-40	<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 *Does not apply*

Note: The photograph numbers used in the office for identification and location of visible aids were not listed by the compilation (Coastal Mapping Section). These positions were either determined or verified by sextant fix by the field editor.

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.'

RESPONSIBLE PERSONNEL			
TYPE OF ACTION	NAME	TITLE	
1. Objects inspected from seaward	William H. Shearcuse	<input type="checkbox"/> FIELD INSPECTOR <input checked="" type="checkbox"/> FIELD EDITOR	
2. Positions determined and/or verified		FIELD INSPECTOR	
	William H. Shearcuse	FIELD EDITOR	
	Martha C. Webber	COMPILER	
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing on Form 76-40		<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

COMPI LATION

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:

Note: The photograph numbers used in the office for identification and location of visible aids were not listed by the compilation (Coastal Mapping Section). These positions were either determined or verified by sextant fix by the field editor.

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.

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[illegible]

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

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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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:

Note: The photograph numbers used in the office for identification and location of visible aids were not listed by the compilation (Coastal Mapping Section). These positions were either determined or verified by sextant fix by the field editor.

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

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.'

TP-00114

Data Forwarded to the Federal Records Center

2 Field Edit Sheets by W.H. Shearouse, dated April 1970

1 Discrepancy Print

Photographs:

69S(C)5858 thru 5860

69L3737R and 3738R

69L3787R

69L3788R filed with TP-00110

7 Forms C&GS-152

3 Forms 567