Original

TP-00139

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-6910..... *Map No.* TP-00139...

Classification No. Final *Edition No.* ...I.....

Field Edited Map

LOCALITY

State .....Florida.....

General Locality ....Brevard County.....

Locality ..Georgiana.....

.....

1969 TO 1971

REGISTRY IN ARCHIVES

DATE .....

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

TP-00139

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

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

SURVEY TP 00139

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH-6910

PHOTOGRAMMETRIC OFFICE: Rockville, Maryland

OFFICER-IN-CHARGE: Commander Wesley V. Hull

LAST PRECEEDING MAP EDITION

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

JOB PH- _____

MAP CLASS _____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
General-Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, June 19, 1973 OFFICE-Supplement 1, August 19,1973 NOTE: Office and Field Edit Instructions (1973) incorporate applicable prior operational instructions. OFFICE-Supplement II, Sept. 24,1973	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: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [ ] MEAN HIGH-WATER [ ] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify): Mean Water Level (see Record of Decisions)

3. MAP PROJECTION: Transverse Mercator

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

5. SCALE: 1:10,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	I.I. Saperstein	4/71
	LANDMARKS AND AIDS BY	Inapplicable	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	D. Phillips	5/71
	CHECKED BY	Inapplicable	
3. STEREOSCOPIC INSTRUMENT COMPILATION Landmarks and Lights	~~PLANIMETRY~~ BY	J.C. Richter	6/71
	CHECKED BY	J.P. Battley,Jr	6/71
INSTRUMENT:	CONTOURS BY	Inapplicable	
SCALE: 1:10,000	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	M. Webber	6/71
Shoreline:Graphic	CHECKED BY	J.P. Battley, Jr.	6/71
METHOD:	CONTOURS BY	Inapplicable	
Interior:Orthophoto mosaic	CHECKED BY		
	~~HYDRO SUPPORT DATA~~ BY	J. Taylor	6/71
SCALE: 1:10,000	CHECKED BY	J.P. Battley, Jr.	6/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P. Battley, Jr.	6/71
6. APPLICATION OF FIELD EDIT DATA	BY	J.C. Richter	7/71
	CHECKED BY	J.P. Battley, Jr.	7/71
7. COMPILATION SECTION REVIEW	BY	J.C. Richter	8/71
8. FINAL REVIEW	BY	J.P. Battley, Jr.	10/71
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	D.M. Brant *	4/74
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	K.J. Carter	8-12-74

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

* see Review Report

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

NOAA FORM 76-36B
(3-72)

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

TP-00139

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC8
E & L cameras 6" focal length

TIDE STAGE REFERENCE
- ☐ PREDICTED TIDES
- ☐ REFERENCE STATION RECORDS
- ☒ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Eastern — ☒ STANDARD
MERIDIAN: 60th&75th — ☒ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
69E(C)4254-4256	12/11/69	12:40	1:40,000	The stage of tide is inapplicable for color photography.
69L3386R-3388R	8/23/69	10:23	1:25,000	* -0.04 MWL
69L3392R and 3393R	8/23/69	10:25	1:25,000	* -0.03 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).

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

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

4. CONTEMPORARY HYDROGRAPHIC SURVEYS *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
Inapplicable					

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00317	TP-00140	TP-00141	No contemporary survey

REMARKS
Final junctions were made by the Coastal Mapping Section

NOAA FORM 76-36B
(3-72)

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

NOAA FORM 76-36C
(3-72)

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

TP-00139

HISTORY OF FIELD OPERATIONS

I. [X] FIELD INSPECTION OPERATION * [X] FIELD EDIT OPERATION July 1971

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		I.I. Saperstein	6/71
2. HORIZONTAL CONTROL	RECOVERED BY	W.H. Shearouse	5/71
	ESTABLISHED BY	Inapplicable	
	PRE-MARKED OR IDENTIFIED BY	Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY	W.H. Shearouse	4/71
	ESTABLISHED BY	Inapplicable	
	PRE-MARKED OR IDENTIFIED BY	W.H. Shearouse	4/71
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	W.H. Shearouse	4/71
	LOCATED (*Field Methods*) BY	I.I. Saperstein	6/71
	IDENTIFIED BY	I.I. Saperstein	6/71
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [X] SPECIFIC NAMES ONLY [ ] NO INVESTIGATION — BY	I.I. Saperstein	7/71
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	I.I. Saperstein	6/71
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Inapplicable	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME
	See Field Inspection Report

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION
70L6587	BME229, U303
70L6588	BMT303, C229, D229
70L6589	BMB229,N229,R303,S303 STEWART2,1906
70L6590	BMA229, Q303
70L6591	BMZ228

3. PHOTO NUMBERS (*Clarification of details*)
69E4255,4256; 69L3387R,3388R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
There are no landmarks on this map. Aids to navigation are plotted on the field edit sheet.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: [X] REPORT [ ] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (*Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division*)
Refer to Field Inspection Report. Sketchbook No. 5 Graphic Sextant Fixes.

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

NOAA FORM 76-36D
(3-72)

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

TP-00139

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No map copies furnished to Nautical Charts prior to Final Review.				

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	594[74] and 595[74]	5/23/74	Final - One report was submitted for map TP-00139

2. ☑ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 5/23/74
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: _____

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

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

NOAA FORM 76-36D

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

Record of Decisions
Pertaining to Symbolization of the MWL Datums
Map TP-00139

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water areas it covers are portions of Indian River and Newfound Harbor. The datum for Indian River was established by observations at Williams Point Indian River Tide Station (north of this map) and Pineda Tide Station (south of this map). The datum for Newfound Harbor was established by observations at Port Canaveral Locks Banana River Tide Station (south of this map).

The periodic tide for these sections of Indian River and Newfound Harbor was masked by nontidal forces and the mean range was 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

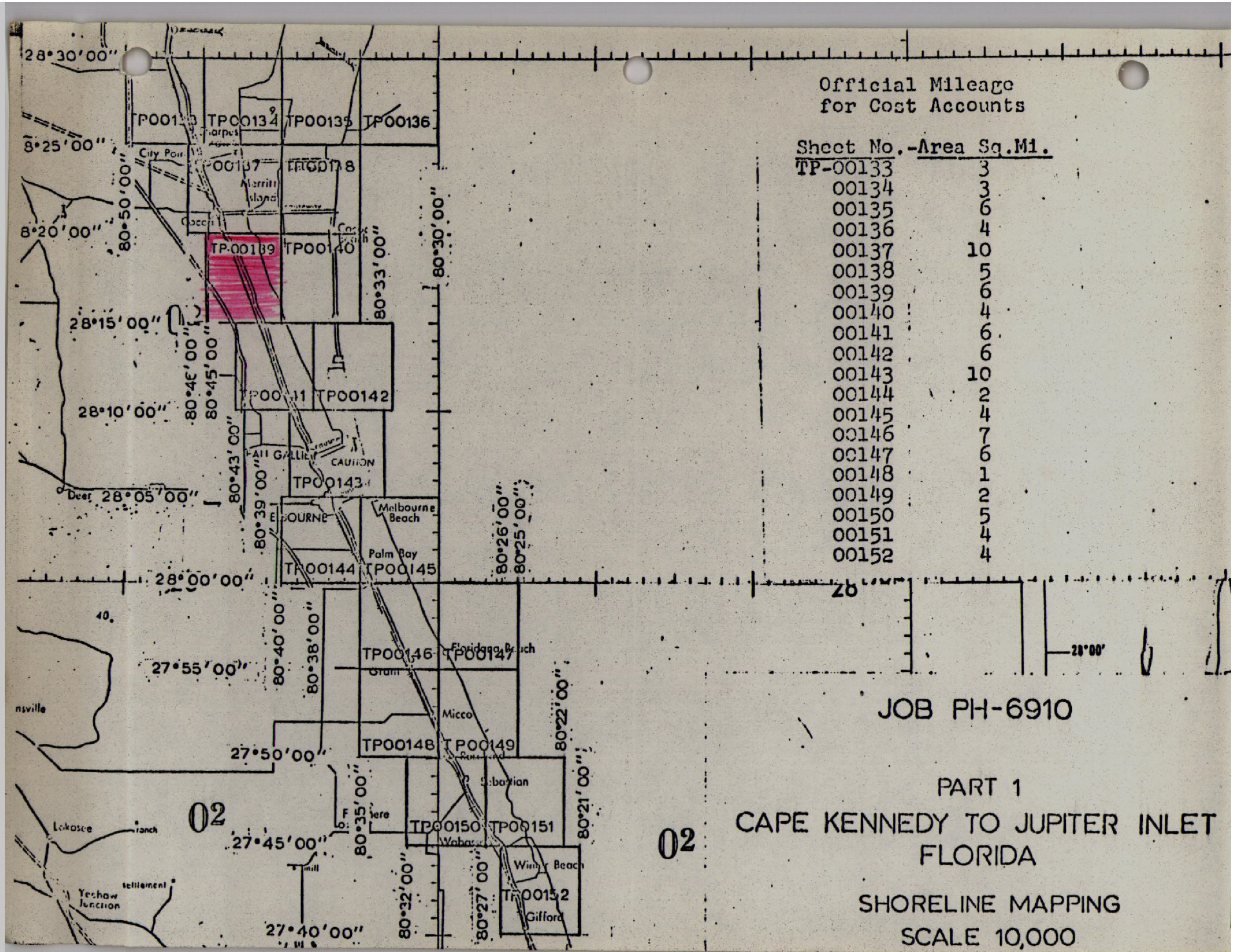
Specific decisions as to the symbolization for mapping the mean water- level line, apparent shoreline and solid lines for along-shore manmade features were made January 10, 1973, in Rockville, Maryland, by competent technical officials of National Ocean Survey. Cdr. Wesley V. Hull, Chief, Coastal Mapping 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.

* See Review Report for clarification of date.

Archiving

A copy of this report shall be included in Descriptive Report TP-00139 which will be permanently filed in the Bureau archives.



Official Mileage
for Cost Accounts

Sheet No.	Area Sq. Mi.
TP-00133	3
00134	3
00135	6
00136	4
00137	10
00138	5
00139	6
00140	4
00141	6
00142	6
00143	10
00144	2
00145	4
00146	7
00147	6
00148	1
00149	2
00150	5
00151	4
00152	4

JOB PH-6910

PART 1

CAPE KENNEDY TO JUPITER INLET FLORIDA

SHORELINE MAPPING

SCALE 10,000

SUMMARY
TP-00133 thru TP-00152

Coastal Zone Map TP-001 39 is one of twenty (20) similar maps in project PH-6910, Part I. 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 1969 and 1970 on color and black and white infrared film. The 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 tide-coordinated black and white infrared photography using a stereo plotter 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 threee 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 REPORT
PREMARKING HORIZONTAL CONTROL
JOB PH-6910, CAPE KENNEDY TO JUPITER INLET, FLORIDA

In accordance with Instructions - FIELD - Supplement I, Job PH-6910; Coastal Boundary Mapping, Cape Kennedy to Jupiter Inlet, Florida, twenty-two horizontal control stations were recovered and paneled in accordance with practices in use at this time. All stations were premarked for 1:40,000 scale photography.

White polyethylene plastic sheeting was used for all but 2 stations. Sketches on the CSI cards show the pattern used in each instance but most stations were paneled with a 5-ft. square target placed directly over the station mark and 3 runner-type wing panels 3.5/4' X 20' approximating 120° angles around the square.

TRIPOD 3, 1963 and WHITE 2, 1966 were premarked with black plastic, the center panel being 10' X 10' and the wing panels 8' X 20'. The ground surface at these 2 locations was considered too white for the white targets to be seen, hence the use of black material.

In addition to the sketches shown on the CSI cards the station locations have been spotted on USGS Quadrangle maps which are transmitted as part of the job data.

A recap, showing the stations as numbered on the job control diagram, the TP-map number and the quadrangle map on which it falls, follows:

STATION No.	NAME		MAP NO.	USGS QUADRANGLE
1	CENTRAL	1950	TP-00136	CAPE CANAVERAL
2	ARTESIA	1953	"	" "
3	POSE	1966	TP-00138	COCOA BEACH
4	MUNSON	1940	TP-00139	"
5	PATRICK N. BASE	1960	TP-00140	" "
6	TRIPOD 3	1963	TP-00142	TROPIC
7	COLLEGE 2	1934	TP-00143	"
8	TURKEY CREEK	1934	TP-00144	MELBOURNE EAST
9	VALKARIA	1966	TP-00146	GRANT
10	SLIP 2	1934	TP-00149	SEBASTIAN NW
11	SEBASTIAN 2	1934	TP-00150	SEBASTIAN
12	SCORPION 2	1961	TP-00153	VERO BEACH
13	RICMAR 2	1960	TP-00154	INDRIO
14	PIERCE 2	1963	TP-00155	FORT PIERCE
15	WHITE 2	1966	TP-00156	" "

STATION NO.	NAME		MAP NO.	USGS QUADRANGLE
16	WALTON	1930	TP-00157	ANKONA
17	REFUGE 2 RM # 4	1967	TP-00160	ST. LUCIE INLET
18	SEAWALL	1934	TP-00159	" " "
19	PINE	1929	TP-00162	GOMEZ
20	CISTERN	1956	TP-00163	HOBE SOUND
21	RADAR	1954	TP-00164	JUPITER
22	GOLF RM # 1	1934	South of TP-00164	RIVIERA BEACH

Targets were visited after photography and found to be in good condition. No center panels were damaged except GOLF RM 1 and it was only slightly torn on its north edge. Images of all targets should be visible on the photographs.

Submitted 2/24/70

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Photogrammetric Plot Report
Cape Kennedy to Jupiter Inlet, Florida (Part 1)
Job PH-6910
April, 1971

21. Area Covered

This report covers the area south from Cape Kennedy to an area about eight miles north of Fort Pierce Inlet. The job consists of twenty one (21) 1:10,000 scale sheets, TP-00133 thru TP-00153.

22. Method

Six (6) strips of photographs were bridged using analytical aerotriangulation methods. Strip 23 proved inadequate for bridging. Strip 23A, therefore, was flown at a later date farther west in order to include more land area to strengthen the photogrammetry. A cross flight, 24, was also flown at this time to include the cape area. Ties were made between strips. Points were located to rectify the photographs for mosaics. In addition, points were located to ratio high and low water photography. The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustment. Closures to control have been shown on the readouts. All bridge points have been plotted on the Coradimat on Florida East Zone plane coordinates.

23. Adequacy of Control

Horizontal control that fell on strips 21A, 22, 25, and 26 was premarked. Strips 23A and 24 were flown at a later date, and all control that fell on these two strips were transferred from the earlier pre-marked photography. It is noted that stations SCORPOIN 2, 1961 and RIOMAR 2, 1960 (terminal for Strip 26) do not appear on the attached sketch, as these stations are on or south of TP-00153. The control was adequate for bridging all strips.

25. Photography

All photography the subject of this report is 1:40,000 scale color as follows:

Strip 21A -- 69-E(C)-4247 thru 4261
Strip 22 -- 69-E(C)-4185 thru 4194

Strip 23A -- 70-L(C)-9991A thru 004A
Strip 24 -- 70-L(C)-007A thru 015A
Strip 25 -- 70-E(C)-5760 thru 5768
Strip 26 --- 70-E(C)-5772 thru 5794

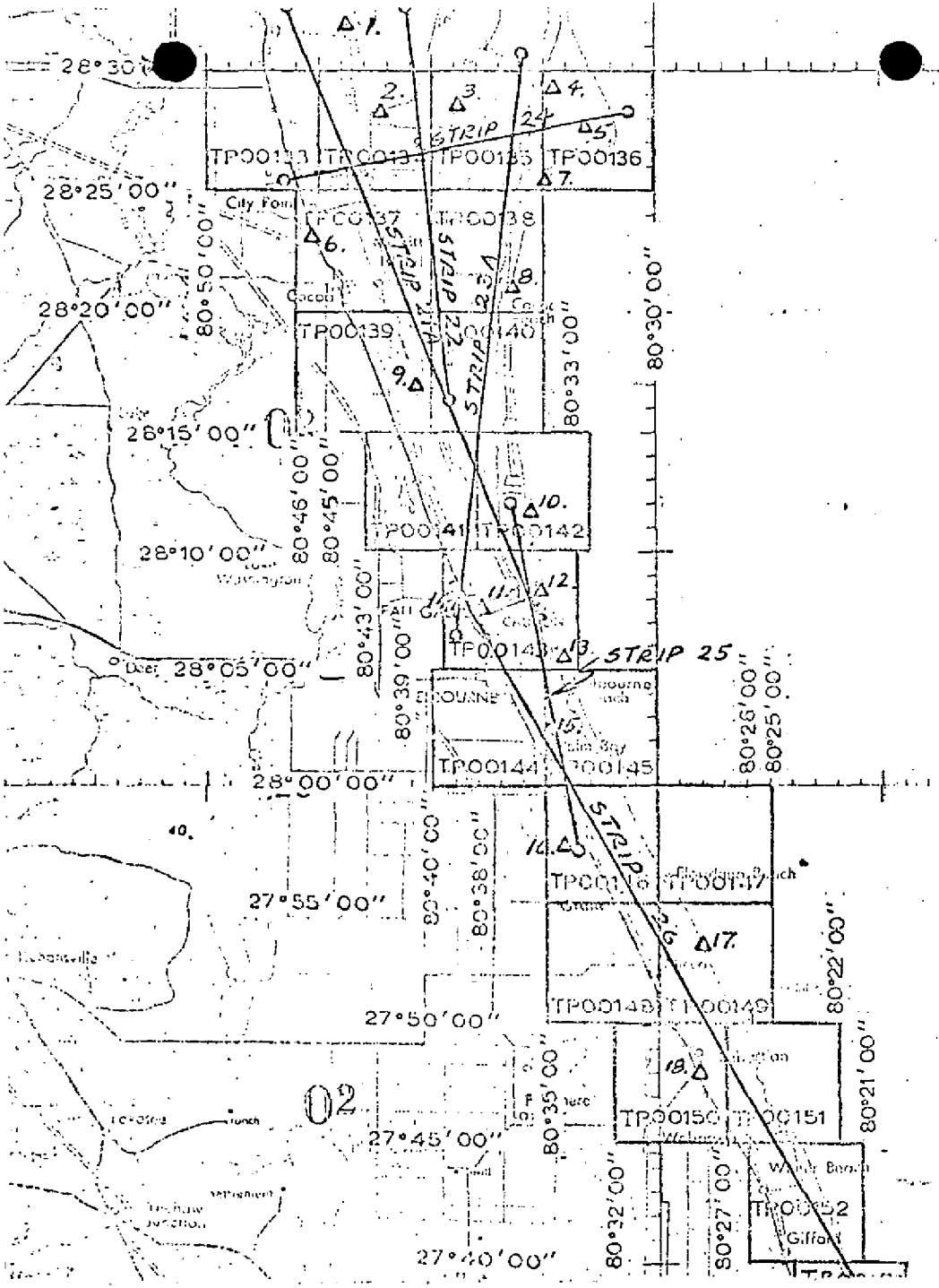
The definition and quality of the photography were good.

Respectfully submitted:

I. I. Saperstein

Approved and forwarded:

Henry P. Eichert, Chief
Aerotriangulation Section



Control

1. Moore RM 3,1963
2. Courtenay,1953
3. Paxton,1950
4. Central,1950
5. Cape Canaveral L.H. Center,1934
6. Cocoa City 2,1957
7. Artesia,1953
8. Pose,1965
9. Munson,1940
10. Tripod 3,1963
11. College 2,1906
12. Canova Beach Melbourne Munic.W.T.1950
13. Indialantic Melbourne E.Munic.W.T.1950
14. Eau Gallie Munic.W.T.Center,1934
15. Turkey Creek,1934
16. Slip 2,1934
17. Sebastian 2,1934

△ Horizontal control used in adjustment
△ Horizontal control used as check
○ 1:40,000 scale color photography

JOB PH-6910

PART 1

02

CAPE KENNEDY TO JUPITER INLET FLORIDA

SHORELINE MAPPING

SCALE 10,000

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
ELKINS, 1940	Book 419, pp. 14, 32, G.P. Fla. Vol. 1, p. 549, P.C. Fla. E. Zone, p. 142.
FREY, 1940	Book 419, pp. 15, 33, G.P. Fla. Vol. 1, p. 549, P.C. Fla. E. Zone, p. 141.
MUNSON, 1940	Book 419, pp. 16, 33, G.P. Fla. Vol. 1, p. 548, P.C. Fla. E. Zone, p. 141.
ALBERT, 1940	Book 419, pp. 16, 33, G.P. Fla. Vol. 1, p. 548, P.C. Fla. E. Zone, p. 141.
ALBERT RM 2, 1940	Book 419, pp. 16, 33, G.P. Fla. Vol. 1, p. 548, P.C. Fla. E. Zone, p. 141.

Compilation Report
TP-00139

31. Delineation

The land area of this map is shown by an orthophoto mosaic. The orthophoto mosaic was assembled with black and white rectified prints from the color photography. The mosaic was controlled by image points determined by aerotriangulation.

The shoreline and offshore features were compiled from office interpreted tide coordinated black and white infrared photography, supplemented by the rectified color photography. The rectified color photography was used for the interpretation of culture shoreline features. The infrared photography was controlled by common detail from the rectified color photography and map points determined by aerotriangulation.

32. Horizontal Control

Refer to the photogrammetric plot report which is a part of this Descriptive Report.

33. Supplemental Data - None.

34. Contours and Drainage

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

35. Shoreline and Alongshore Detail

The shoreline on this map is shown with the dashed line which symbolizes the mean water-level line (Refer to the Record of Decisions bound with this report).

36. Offshore Details

Details offshore were delineated from the interpretation of the tide coordinated black and white infrared photography.

37. Landmarks and Aids to Navigation

The images of charted objects visible on the photography were located during compilation by stereoplotter. Objects not visible on the photography will be located by the field editor.

38. Control for Future Surveys: None.

39. Junctions

Refer to Form 76-36B (Data Record).

40. Horizontal Accuracy

This map complies with the accuracy requirements for the Florida Coastal Mapping Program as outlined by the project instructions for Job PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison has been made with U.S.G.S. quadrangle Cocoa, Fla., scale 1:24,000, edition 1949, contour interval 5 feet.

47. Comparison with Nautical Charts

Comparison has been made with Nautical Chart 843-SC Side B, scale 1:40,000, 8th edition, dated August 8, 1970.

Items to be Applied to Nautical Charts Immediately - None.

Items to be Carried Forward:- None.

Respectfully submitted,

John C. Richter (J.B)

John C. Richter
Carto(Photo)

Approved and forwarded:

J. P. Battley, Jr.
Chief, Coastal Mapping Section

Field Edit Report, Map TP-00139, Job PH-6910

51. METHODS

Shoreline delineation was visually verified from a small boat runing close to shore. Notes were made on the rectified photographs indicating fast and apparent shoreline, as well as sea walls and bulkheads. All alongshore detail has been indicated such as piers, boat houses and boat ramps. All boat ramps indicated are concrete surfaced.

All aids to navigation and private channel markers have been located by sextant fixes or a combination of sextant fix and occupying ground stations. Light 83 is of the old type wood dolphin structure and its position was verified. Light 85 and 90 are of the new type square 12" concrete pile with a light on top. The positions of these two lights differ slightly as determined by the field editor with the positions shown on the field edit cronaflex sheet. The privately maintained channel markers at Harbor Lights Marina were also located.

Seven (7) channel markers leading to a private boat house were located, as were two (2) other private markers near the north limits of the sheet. Form 76-40 is submitted for all aids shown in the Coast Guard Vol. LI Atlantic and Gulf Coast Light List for 1970.

All aids have been plotted on the Field Edit Cronaflex sheet.

Field edit notes will be found on the rectified and ratio infra red photographs, and the Discrepancy Print.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were required.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

All geographic names were checked as requested by compilation. The following names were verified as being known and in local use:

BONAVENTURE
GEORGIANA
HONEYMOON LAKE

The following geographic names are known and in local use as:

FOOTMANS LANDING
FAIRYLAND HILL

BAGGERS PT is not known as such to any of the local inhabitants of Merritt Island that were contacted. Mr. & Mrs. Svend Arvenson have lived on the point for thirty five years and have never known it by that name. The local people refer to this area as "the point". The following inhabitants were contacted for verification of geographic names on Merritt Island:

Mr. Max Siedenburg
Rt. 3, Box 548
Merritt Island, Fla.
Has resided 33 years near Fairyland Hill

Mr. & Mrs Svend Arvenson
Rt. 3, Box 547
Merritt Island, Fla.
Have resided at what is shown on Quad COCOA FLA. as Baggers Pt. for 35 years

Mr. William H. Woodham
1310 S. Tropical Trail
Merritt Island, Fla.
Has resided near Footmans Landing for 15 years

Submitted 7/2/71

Irving I. Saperstein

Irving I. Saperstein
Acting Chief, Photo Party 60

Review Report TP-00139
Coastal Zone Map
April 1974

61 61. General

This map and its related records were reviewed in the Coastal Mapping Section prior to its proof stage.

The proof copy of this map was edited by the Quality Control Group prior to printing and dsitribution. The edit was comprised of a careful inspection of map details to verify the accuracy of reproduction.

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
4. Descriptive Report

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.

62. Registration Copy

The special Registration Copy of this map was prepared and checked by the Coastal Mapping Section. This Registration Copy shows "shallow" and "shoal" areas for Marine Chart use that are not shown on the published map.

63. thru 64. Inapplicable.

65. Cartographic Comparison

A comparison was made with this map (TP-00319) and the following USGS quadrangle:

Cocoa, Florida, 1:24,000 scale, 1949, photorevised 1970.

No significant differences were noted during the comparison.

A comparison was made between this map (TP-00139) and Nautical Chart 843-SC.

No significant differences were noted during the comparison.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00139 complies with the project instructions for NOS Cooperative Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,

Donald M. Brant

Approved by:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

22 May 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6910 N (Florida)

TP-00139

Banana River

Bonaventure

Fairyland Hill

Florida East Coast RR

Footmans Landing

Georgiana

Honeymoon Lake

Indian River

Merritt Island

Newfound Harbor

The Point

Approved by:

Chas. E. Harrington

Chas. E. Harrington
Staff Geographer

NOAA FORM 76-40
(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ FIELD INSPECTION
- ☐ FIELD EDIT
- ☐ COMPILATION
- ☐ FINAL REVIEW
- ☒ QUALITY CONTROL AND REVIEW

(See reverse for responsible personnel)

☒ TO BE CHARTED
☐ TO BE DELETED

ORIGINATING LOCATION: Rockville, Maryland

DATE: 4/10/74

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

JOB NUMBER: PH- 6910
STATE: Florida
SURVEY NUMBER: T - TP-00139
DATUM: N.A. 1927

CHARTING NAME	DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE ″ D.M.METERS	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P.METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
	HARBOR LIGHTS MARINA (Privately maintained)								
NORTH DYBN	North Daybeacon	28 18	40.0 1231.0	80 41	39.0 1062.0			P.4 6/24/71 69E4255	845-SC
DYBN	Daybeacon 1	28 18	30.7 945.0	80 41	34.8 948.0			"	"
DYBN	Daybeacon 2	28 18	28.8 888.0	80 41	33.9 924.0			"	"
DYBN	Daybeacon 3	28 18	34.1 1049.0	80 41	23.0 627.0			"	"
DYBN	Daybeacon 4	28 18	33.6 1034.0	80 41	22.7 619.0			"	"
SOUTH DYBN	South Daybeacon	28 18	15.9 490.0	80 41	31.3 853.0			"	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	I. I. Saperstein	☐ FIELD INSPECTOR ☒ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	I. I. Saperstein	FIELD EDITOR
	J. C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Positions copy checked after typing D. Brant	☐ REVIEWER ☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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

COLUMN TITLE	TYPE OF ENTRIES
COMPILATION	Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.
FIELD INSPECTION AND FIELD EDIT	1. New Position Determined–Enter the applicable data by symbols as indicated below:

F – Field	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.'

NOAA FORM 76-40
(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ FIELD INSPECTION
- ☐ FIELD EDIT
- ☐ COMPILATION
- ☐ FINAL REVIEW
- ☒ QUALITY CONTROL AND REVIEW

(See reverse for responsible personnel)

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	INDIAN RIVER (NORTH SECTION)								
DYBN	Daybeacon 79	28 19	44.6 1372.0	80 42	20.9 570.0			P-4 6/24/71 69E4255	843-SC
DYBN	Daybeacon 80	28 19	27.7 854.0	80 42	15.5 422.0			"	"
DYBN	Daybeacon 81	28 19	11.3 347.0	80 42	05.4 147.0			"	"
DYBN	Daybeacon 82	28 18	48.6 1495.0	80 42	57.1 1556.0			"	"
LIGHT	Light 83	28 18	49.2 1515.0	80 41	54.4 1483.0		12/11/69 69E4255	P-4 6-24-71	"
LIGHT	Light 85	28 ~~18~~ 17	59.7 1839.0	80 41	38.9 1061.0		69E4255 - 4256	F-3C-P-4 6/24/71	"
LIGHT	Light 90	28 15	41.1 1264.0	80 40	40.1 1094.0			"	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	I.I. Saperstein	☐ FIELD INSPECTOR ☒ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	I. I. Saperstein	FIELD EDITOR
	J. C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Positions copy checked after typing. D. Brant	☐ REVIEWER ☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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COLUMN TITLE	TYPE OF ENTRIES
COMPILATION	Applicable to office idenfified 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		

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

NOAA FORM 76-40 (2-71)
PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] FIELD INSPECTION
- [ ] FIELD EDIT
- [ ] COMPILATION
- [ ] FINAL REVIEW
- [x] QUALITY CONTROL AND REVIEW

(See reverse for responsible personnel)

- [x] TO BE CHARTED
- [ ] TO BE DELETED

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DATE: 4/10/74

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DATUM: N.A. 1927

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MARKER	Channel Marker	28 19	35.31 1087.0	80 42	6.57 179.0			P-4 6/24/71 Field edit sheet	843-SC
"		28 19	33.85 1042.0	80 42	5.60 152.5			"	"
"		28 19	35.82 1102.5	80 42	2.75 075.0			"	"
"		28 19	36.21 1114.5	80 41	39.83 1085.0			"	"
"		28 19	35.28 1086.0	80 41	39.65 1080.0			"	"
"		28 19	36.24 1115.5	80 41	33.57 914.5			"	"
"		28 19	35.52 1093.5	80 41	33.59 915.0			"	"
"		28 19	57.89 1782.0	80 42	1.67 045.5			"	"
"		28 19	59.74 1839.0	80 41	59.40 1618.0			"	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
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	S.H. Solbeck	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Positions copy checked after typing D. Brant	☐ REVIEWER ☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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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 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

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TP-00139
Federal Records Center

1 Field Edit Sheet

1 Discrepancy Print

1 Form 76-36C(History of Field Operations)

3 Forms 76-40 (Non-floating Aids or Landmarks for Charts)

1 Sketchbook

Photographs:

69E4256 (Ration scale 1:10,000)

70L6587 thru 6591 (Contact scale)

TP-00139
Data Forwarded to Federal Records Center

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