original

TP-00140

576-7404

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-00140.

Classification No. Final *Edition No.* ...1.....

Field Edited Map

LOCALITY

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

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

Locality ..Cocoa.Beach.to.Patrick.....

..Air.Force.Base.....

1969 TO 1971

REGISTRY IN ARCHIVES

DATE .....

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

TP-00140

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-00140
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 I, 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: [x] MEAN HIGH-WATER [x] 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	P. Dempsey	5/71
	CHECKED BY	Inapplicable	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	Inapplicable	
	CHECKED BY		
INSTRUMENT:	CONTOURS BY	Inapplicable	
SCALE:	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	H. Lucas	7/71
SHORELINE:Graphic	CHECKED BY	J.P. Battley, Jr.	7/71
METHOD:	CONTOURS BY	Inapplicable	
INTERIOR:Orthophoto mosaic	CHECKED BY		
SCALE: 1:10,000	~~PHOTO SUPPORT DATA~~ BY	J. Taylor	8/71
	CHECKED BY	J.P. Battley, Jr.	8/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P. Battley, Jr.	9/71
6. APPLICATION OF FIELD EDIT DATA	BY	J.C. Richter	12/71
	CHECKED BY	J.P. Battley, Jr.	12/71
7. COMPILATION SECTION REVIEW	BY	J.C. Richter	1/72
8. FINAL REVIEW	BY	J.P. Battley, Jr.	3/72
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	R.J. Leahy	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-00140

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8
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) 4255	12/12/69	12:38	1:40,000	The stage of tide is inapplicable for color photography.
70E(C)5549&5550	2/8/70	12:20	1:40,000	
70L6870R - 6872R	8/14/70	17:20	1:25,000	* +0.36 MHW; **0.0MWL
70L6557R - 6560R	8/14/70	9:50	1:25,000	*+0.34 MLW; **0.0MWL
70L8707R-8709R	2/8/70	11:50	1:25,000	*+0.15MHW:**0.48MWL
69L3386R-3387R	8/23/69	10:23	1:25,000	***-0.04MWL

REMARKS * Port Canaveral Tide Station (Atlantic Coast)
** Orsino Causeway Tide Station(Banana River)
*** Titusville Tide Station (Banana River)

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high water line (Atlantic Coast) is the infrared photography listed in item 1. The mean water-level line was mapped (Banana River; east and west coast) 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 infrared photography listed in item 1. The lines were field edited in 1971.

The mean high-water line along the Atlantic Ocean was verified by foreshore profiles.

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

The source of the mean low water line(Atlantic Coast) is the infrared photography listed in item 1. There is no low water line shown on the Banana River.

The mean low-water line was field edited in 1971, and the line was verified by foreshore profiles.

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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00138	Atlantic Ocean	TP-00141 & TP-00142	TP-00142

REMARKS Final junctions were made in the Coastal Mapping Section

NOAA FORM 76-36B
(3-72)

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

NOAA FORM 76-36C
(3-72)

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

TP-00140

HISTORY OF FIELD OPERATIONS

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

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		W.H. Shearouse	9/71
2. HORIZONTAL CONTROL	RECOVERED BY	W.H. Shearouse	4/71
	ESTABLISHED BY	Inapplicable	
	PRE-MARKED OR IDENTIFIED BY		
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	W.H. Shearouse	4/71
	IDENTIFIED BY		
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [X] SPECIFIC NAMES ONLY [ ] NO INVESTIGATION — BY	W.H. Shearouse	9/71
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W.H. Shearouse	9/71
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
		70L6587	U303,C304
		70L6869R	D206
		70L7544	L303,M303
		70L7545	K303
		70L7715	N133,U132,V132
		70L7716	U205

3. PHOTO NUMBERS (*Clarification of details*)

69E4255, 70E5549, 5550

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Nonfloating aids to navigation were located by sextant fix. There are two landmarks and both are triangulation stations.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
	See Field Inspection Report	70E5550	Numerous City of Cocoa Beach aids.

5. GEOGRAPHIC NAMES: [ ] REPORT [X] 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.9

* 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-00140

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	595 '74	5/23/74	Final - One report was submitted
			for map TP 00140

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

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

Record of Decisions
Pertaining to Symbolization of the MHW, MLW and MWL Datums
Map TP-00140

Shoreline Delineation

The mean low-water and mean high-water tidal datums were determined along the outer coast (Atlantic Ocean) from tide observations at Port Canaveral Tide Station (north of this map) and Canova Beach Tide Station (south of this map). The interior water areas shown on this map are portions of Newfound Harbor, Banana River, and Indian River.

The datum for this section of Banana River and Newfound Harbor was established by observations at Port Canaveral Locks Banana River Tide Station (north of this map) and Carters Cut Banana River Tide Station (south of this map). The datum for this section of Indian River was established by observations at Pineda Tide Station (south of this map). The periodic tide for these interior waters 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 of the interior waters 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 the 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.

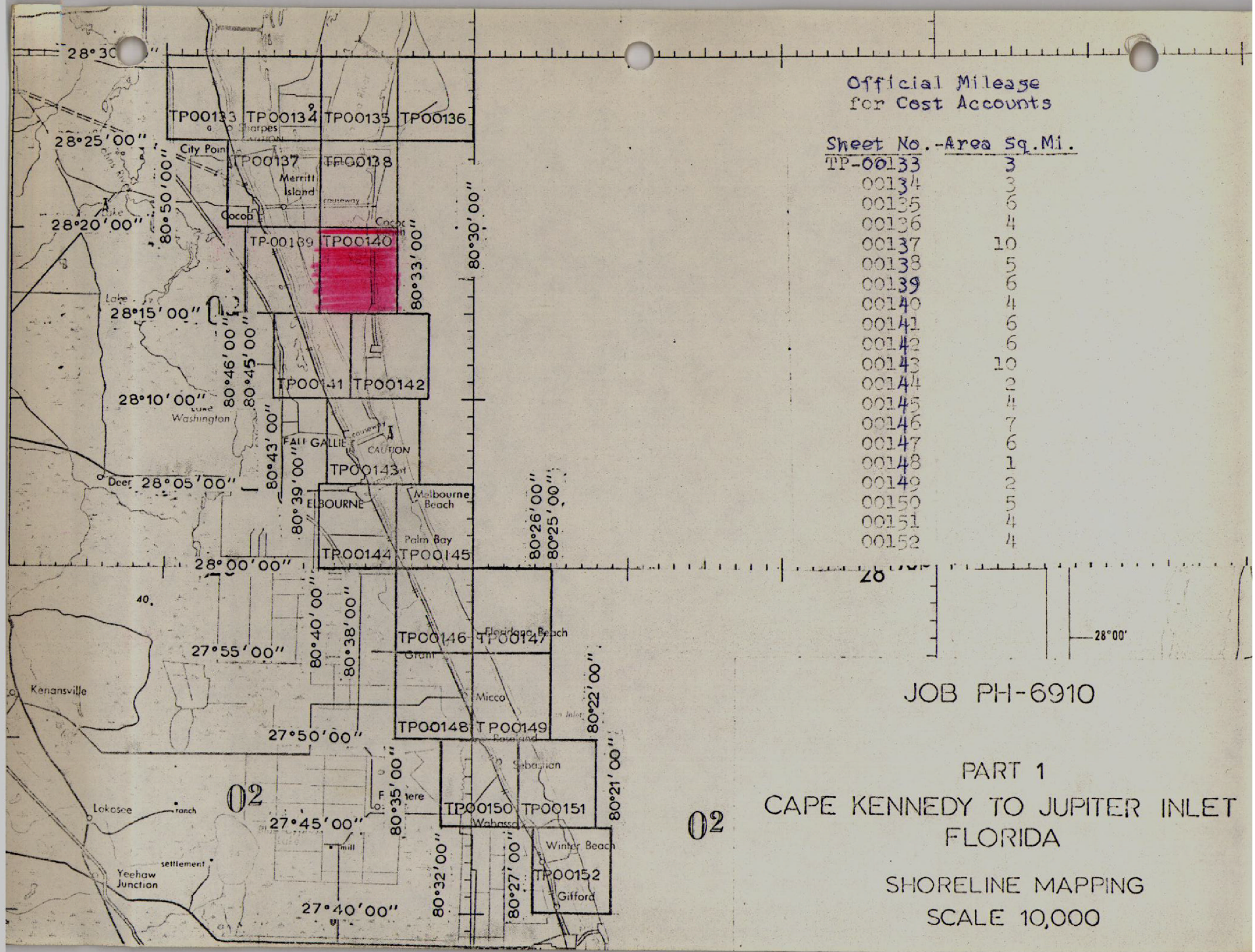
They also examined photographs and field edit reports with respect to inland penetration of small streams and drainages and concluded that those features were properly delineated and symbolized on the map. It was also noted that the inland

* See Review Report for clarification of date.

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-00140 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-00140 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 L, 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	SEWALL	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

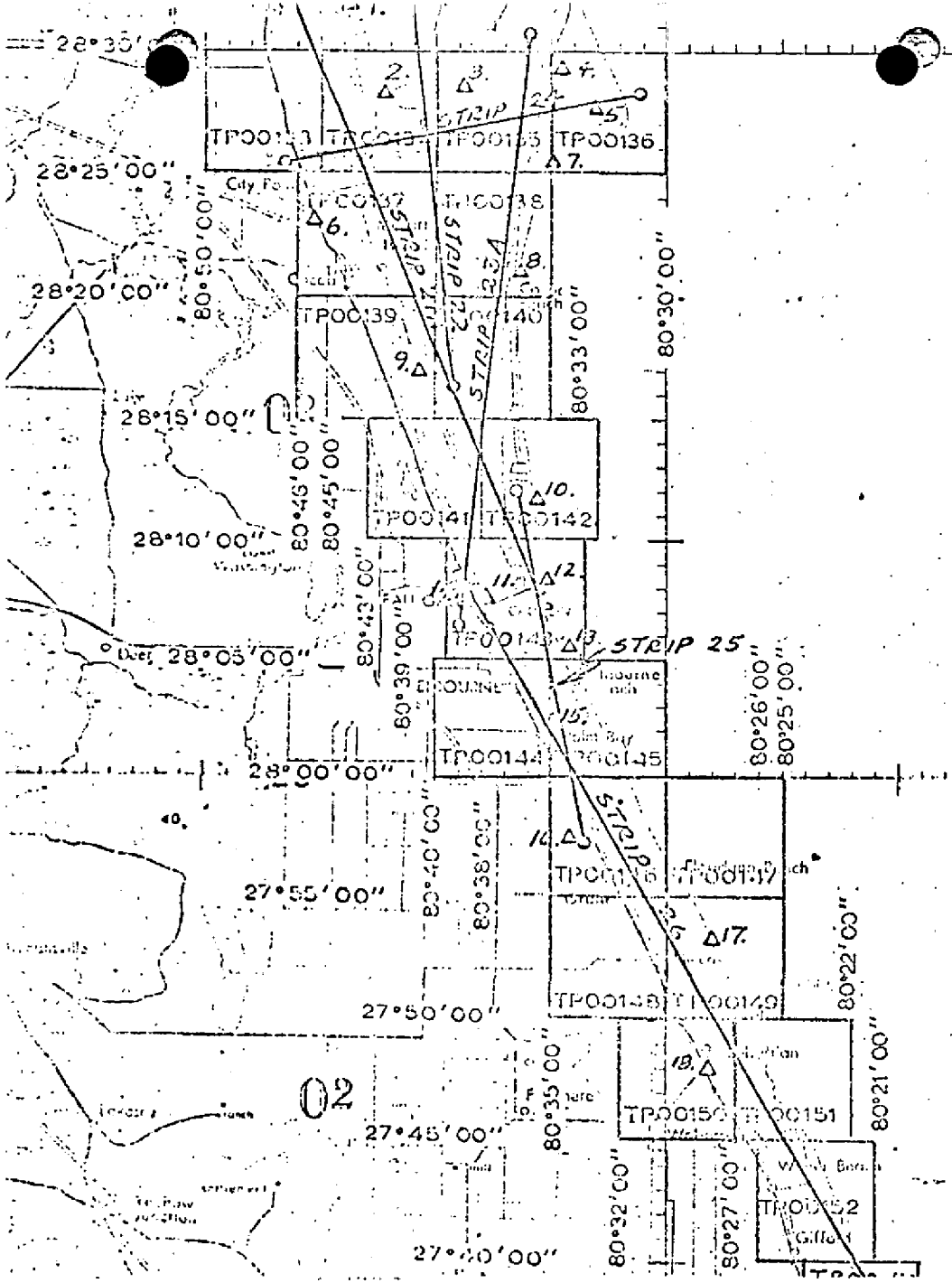
The definition and quality of the photography were good.

Respectfully submitted:

I. I. Saperstein

Approved and forwarded:

Henry P. Eichert, Chief
Aerotriangulation Section



Control

1. Moore Rll 2,1963
2. Courtenay,1953
3. Paxton,1950
4. Central,1950
5. Cape Canaveral L.H. Center,1954
6. Cocoa City 2,1957
7. Artesia,1953
8. Pose,1966
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,1954
15. Turkey Creek,1954
16. Slip 2,1934
17. Sebastian 2,1954

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

JOB PH-6910

PART 1

CAPE KENNEDY TO JUPITER INLET
FLORIDA

SHORELINE MAPPING

SCALE 1:9,000

02

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
PATRICK AFB, NORTH WATER TANK OF 2, 1953	Write to Director, National Geodetic Survey.
PATRICK AFB, SOUTH WATER TANK OF 2, 1953	Write to Director, National Geodetic Survey.

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
U 205	11.542	C&GS disk stamped U 205 1963; 59.5 ft. W centerline road, 9.7 ft. S of S curb 3rd St., 6.5 ft. W fence corner.
N 133	11.667	C&GS disk stamped N 133 1953; 40 ft. W centerline highway, 19 ft. S of S curb of 4th St., 6 inches underground.
V 132	11.690	C&GS disk stamped V 132 1953; 29 ft. W highway centerline, 33 ft. N centerline 10th St.
U 132	9.692	C&GS disk stamped U 132 1953; 46 ft. E road centerline, 12 ft. S of power pole, 1 ft. W metal witness post.
D 206	14.190	C&GS disk stamped D 206 1963; in median, 4.7 ft. S of S edge of cross-walk, 1.7 ft. N of metal witness post.
C 304	7.694	C&GS disk stamped C 304 1970; 19 ft. W centerline highway, 1.5 ft. N power pole.
K 303	6.532	C&GS disk stamped K 303 1970; 20 ft. W street centerline, 2 ft. N power pole.
L 303	4.170	C&GS disk stamped L 303 1970; 21 ft. W street centerline, 5 ft. E brick pillar, 1.2 ft. N of fence.
M 303	4.498	C&GS disk stamped M 303 1970; 21 ft. E street centerline, 1.8 ft. S of power pole.

FLORIDA – NOAA Coastal Boundary Mapping Program

Vertical Control – Geodetic Map TP – 00140

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
U 205	11.542	C&GS disk stamped U 205 1963; 59.5 ft. W centerline road, 9.7 ft. S of S curb 3rd St., 6.5 ft. W fence corner.
N 133	11.667	C&GS disk stamped N 133 1953; 40 ft. W centerline highway, 19 ft. S of S curb of 4th St., 6 inches underground.
V 132	11.690	C&GS disk stamped V 132 1953; 29 ft. W highway centerline, 33 ft. N centerline 10th St.
U 132	9.692	C&GS disk stamped U 132 1953; 46 ft. E road centerline, 12 ft. S of power pole, 1 ft. W metal witness post.
D 206	14.190	C&GS disk stamped D 206 1963; in median, 4.7 ft. S of S edge of cross-walk, 1.7 ft. N of metal witness post.
C 304	7.694	C&GS disk stamped C 304 1970; 19 ft. W centerline highway, 1.5 ft. N power pole.
K 303	6.532	C&GS disk stamped K 303 1970; 20 ft. W street centerline, 2 ft. N power pole.
L 303	4.170	C&GS disk stamped L 303 1970; 21 ft. W street centerline, 5 ft. E brick pillar, 1.2 ft. N of fence.
M 303	4.498	C&GS disk stamped M 303 1970; 21 ft. E street centerline, 1.8 ft. S of power pole.

31. Delineation

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 cultural shoreline features. The infrared photography was controlled by common detail from the rectified color photography and map points determined by aerotriangulation.

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.

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 mean high water and mean low water lines are mapped along the Atlantic Coast. Foreshore profiles are recommended because of surf.
The mean water-level line was mapped along the shores of the Banana River, the portions of the Indian River and Newfound Harbor (refer to the Record of Decisions bound with this report).

36. Offshore Details

Details offshore were delineated from the interpretation of the photography. The spoil areas are subject to change in size and position.

37. Landmarks and Aids to Navigation

The images of charted objects were not visible on the photography. These charted objects will be located by field methods. The two landmarks are triangulation and will be recovered during field edit.

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 was made with the following USGS quadrangles:

Cocoa, Florida, 1949, 1:24,000 scale
Cocoa Beach, Florida, 1949, 1:24,000 scale

No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with Nautical Chart 1246, 1970, 1:80,000 scale, and Nautical Chart 843-SC, 1970.

Items to be Applied to Nautical Charts Immediately: None.

Items to be Carried Forward: None.

Submitted by,

Henri Lucas

Approved and forwarded:

Jeter P. Battley Jr

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

Field Edit Report, Map TP-00140, Job PH-6910

51. METHODS

Shoreline of the Atlantic Ocean was verified visually while driving, or walking where necessary, along the beach at the proper stage of tide. The Banana River shoreline was verified visually from a small boat while cruising just offshore. No major inadequacies were found.

Two presently charted landmarks are again recommended. Form 76-40 is submitted.

Standard Coast Guard nonfloating aids in Banana River were located by sextant fix, plotted on the cronaflex FIELD EDIT SHEET and reported on Form 76-40.

Also reported on Form 76-40 are a large number of daybeacons which were established and are maintained by the City of Cocoa Beach. These are substantial pilings with pointers and worthy of being charted. Sextant fixes were obtained and plotted on the FIELD EDIT SHEET where the aid was in open water. Those in the narrow channels or on points, etc., were marked direct on the photograph.

All known triangulation stations were searched for and reported on Form 526 in April 1971.

Geodetic bench marks were searched for and identified on contact photographs, Forms 685A being submitted in April 1971.

Field edit notes will be found on rectified photographs 70E5549, 5550, and 69E4255(2).

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

A complete names investigation was not required and no conflicts or new names came to light during the course of field edit.

Submitted 9/21/71

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

TP-00140

Remarks: Application of Field Edit

Foreshore profiles determined by field edit verified the tidal datum lines along the Atlantic Ocean on the tide coordinated black and white infrared photography.

Review Report TP-00140
Coastal Zone Map
April 1974

61. General

This map was reviewed in the Coastal Mapping Section prior to its proof stage.

The proof copy of this map was examined by the Quality Control Group. During this examination any corrections to the compilation were noted and returned to the Coastal Mapping Section for application to the map.

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 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.

62. Registration Copy

A special Registration Copy of this map was prepared for Marine Chart use and checked by the Coastal Mapping Section. This Registration Copy shows additional offshore information (such as "shallow" and "shoal" areas) not shown on the published map.

63. thru 64. Inapplicable.

65. Cartographic Comparison

A comparison was made with this map (TP-00140) and the following USGS quadrangle:

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

No significant differences were noted.

A comparison was made between this map (TP-00140) and the following Nautical Charts:

Nautical Chart 1246, 8th edition, dated December 1, 1973, 1:80,000 scale.

Nautical Chart 843-SC, 11th edition, dated August 25, 1973.

No significant differences were noted.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00140 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:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

April 18, 1974

GEOGRAPHIC NAMES

FINAL NAMES SHEET

PH-6910 N (Florida)

TP-00140

Atlantic Ocean
Banana River
Brady Island
Buck Point
Catfish Creek
Cape Cod
Cocoa Beach
Flowing Well Creek
George Island
Horti Point
Houseboat Cut
Indian River
Jones Creek
Lotus
Merritt Island
Newfound Harbor
Patrick Air Force Base
Shortys Banks
Shortys Pocket
South Cocoa Beach
Spriggs Point
Thousand Islands

Approved by:

C. E. Harrington

C. 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: 5/22/74

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-00140

DATUM: N.A. 1927

POSITION

METHOD AND DATE OF LOCATION (See instructions on reverse of this form)

CHARTING NAME	DESCRIPTION	LATITUDE ° ′	LATITUDE ″ D.M.METERS	LONGITUDE ° ′	LONGITUDE ″ D.P.METERS	FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
	INTRACOASTAL WATERWAY MOSQUITO LAGOON - EAU GALLIE								
DYBN 11	Banana River	28 17	31.0 954.0	80 39	59.9 1633.0			P.4 9/14/71	1246
DYBN 12	"	28 17	35.5 1092.0	80 39	59.9 1631.0			"	"
DYBN 14	"	28 17	40.2 1236.0	80 39	2.3 64.0			"	"
DYBN 15	"	28 18	8.5 263.0	80 39	11.9 325.0			"	"
DYBN 17	"	28 18	31.9 982.0	80 39	13.7 374.0			"	"
DYBN 19	"	28 18	38.0 1170.0	80 39	10.1 276.0			"	"
DYBN 20	"	28 18	47.1 1451.0	80 39	11.6 316.0			"	"
DYBN 21	"	28 18	55.7 1715.0	80 39	12.2 333.0			"	"
DYBN 22	"	28 19	7.7 239.0	80 39	13.1 356.0			"	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	W. H. Shearouse	☐ FIELD INSPECTOR ☒ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	W. H. Shearouse	FIELD EDITOR
	Henri Lucas	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	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)

☒ TO BE CHARTED
☐ TO BE DELETED

ORIGINATING LOCATION: Rockville, Maryland

DATE: 5/22/74

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- 00140

DATUM: N.A. 1927

POSITION

CHARTING NAME	DESCRIPTION	LATITUDE ° ′	LATITUDE ″ D.M. METERS	LONGITUDE ° ′	LONGITUDE ″ D.P. METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
DYBN 23	Banana River	28 19	38.8 1194.0	80 39	15.2 415.0			P.-4 9/14/71	1246
DYBN 24	"	28 19	54.8 1686.0	80 39	17.1 466.0			P.4 9/14/71	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	W. H. Shearouse	☐ FIELD INSPECTOR ☑ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	W. H. Shearouse	FIELD EDITOR
	Henri Lucas	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	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
(12-71)
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: 4/18/74

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-00140

DATUM: N.A. 1927

POSITION

CHARTING NAME	DESCRIPTION	LATITUDE ° ′	LATITUDE // D.M. METERS	LONGITUDE ° ′	LONGITUDE // D.P. METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
TANK	Elevated ht=115(120) (Patrick AFB South W. TANK)	28 15	08.495 261.5	80 36	30.672 836.1		Triangle	Triang.Rec. 9/8/71	1246 SC-843
TANK	Elevated ht+112(117) (Patrick AFB North Water Tank)	28 15	18.212 560.6	80 36	27.890 760.4		"	Triang.Rec. 9/8/71	1246 SC-843

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	W. H. Shearouse	☐ FIELD INSPECTOR ☒ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	W.H. Shearouse	FIELD EDITOR
	Henri Lucas	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing O. Brant	☐ REVIEWER ☒ 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 AND FIELD EDIT	1. New Position Determined–Enter the applicable data by symbols as indicated below:

F – Field
1. Triangulation
2. Traverse
3. Intersection
4. Resection
   a. Theodolite
   b. Planetable
   c. Sextant

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

EXAMPLES:

F, 3.c

P.2

Immediately beneath the data described above, enter the following:

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

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

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

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

TP-00140
Data Forwarded to Federal Records Center

1 Field Edit Sheet

1 Discrepancy Print

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

1 Form 76-40 (Landmarks and Aids)

1 Sketchbook, Vol. 9

Photographs:

69E4255, 70E5549 and 5550 (Ratio 1:10,000 scale)
69L3387R and 3428R
70L6587, 6869R, 7545, 7544, 7715, and 7716 (Contact scale)