

Original ✓

TP-00189

TP-00189

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Coastal Boundary</u>	
Job No. <u>PH-7010</u>	Map No. <u>TP-00189</u>
Classification No. <u>Final</u>	Edition No. <u>1</u>
Field Edited Map	
LOCALITY	
State <u>Florida</u>	
General Locality <u>Palm Beach County</u>	
Locality <u>Lantana to Boynton Beach</u>	
<hr/> 1970 TO 1973 <hr/>	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. <u>00189</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PH-7010</u>	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland				OFFICER-IN-CHARGE Commander Wesley V. Hull			
I. INSTRUCTIONS DATED							
1. OFFICE General-Instructions-OFFICE-NOS Coop- erative 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				2. FIELD Aerial Photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000, General Instructions for Florida Coastal Zone Mapping) 1973			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Transverse Mercator				4. GRID(S) STATE <u>Florida</u> ZONE <u>East</u> STATE <u></u> ZONE <u></u>			
5. SCALE 1:10,000							
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY				V. McNeel		12/71	
				Inapplicable			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY				D. Phillips		5/72	
				Inapplicable			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				Inapplicable			
INSTRUMENT: <u></u> CONTOURS BY				Inapplicable			
SCALE: <u></u> CHECKED BY							
4. MANUSCRIPT DELINEATION PLANIMETRY BY Shoreline: <u>Graphic</u> CHECKED BY				H.S. Jones		12/72	
				J.P. Battley, Jr.		1/73	
METHOD: <u></u> CONTOURS BY				Inapplicable			
Interior: <u>Orthophoto mosaic</u> CHECKED BY							
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY				J. Taylor		9/72	
				J.P. Battley, Jr.		10/72	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				J.P. Battley, Jr.		3/73	
				R. Rich		9/73	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY				J.P. Battley, Jr.		10/74	
7. COMPILATION SECTION REVIEW BY				C. Lewis		11/74	
8. FINAL REVIEW BY				D. Brant		12/74	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				D. Brant		7/75	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. CATDR		8/75	

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

COMPILATION SOURCES

TP-00189

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 E&L Cameras 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR		ZONE	EST
<input type="checkbox"/> PREDICTED TIDES		(P) PANCHROMATIC		Eastern	<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> REFERENCE STATION RECORDS		(I) INFRARED B&W		MERIDIAN	<input checked="" type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				75th&60th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
*71E(C)9514-9517	3/8/71	1202	1:30,000	The stage of tide is inapplicable for the color photography.	
70L7169R-7172R	8/17/70	1045	1:25,000	Refer to the	
70L7037R-7040R	8/15/70	1300	1:25,000	following page for tide information.	

REMARKS

*Photography used for the assembly of the orthophoto mosaic.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide-coordinated black-and-white infrared photography listed in item 1. The rectified color photography was used as an aid for interpreting cultural features and compiling the limits of shoal and shallow areas for Nautical Charts.

Where the shoreline is obscured by vegetation such as mangrove, the apparent shoreline symbol was used.

The map was field edited in 1973.

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

The source of the MLW line is the tide-coordinated black-and-white infrared photography listed under item 1.

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-00188	None	TP-00190	None

REMARKS

Final junctions were made in the Coastal Mapping Section

TP-00189
TIDE INFORMATION

3

PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
<u>ATLANTIC SHORELINE</u>			
70L7037R-7040R	Hillsboro Inlet Ocean	+0.22MLW	2.57
70L7169R-7172R	Hillsboro Inlet Ocean	-0.01MHW	
<u>INTERIOR WATERS</u>			
70L7037R-7040R	Boynton Beach Lake Worth	+0.18MLW	2.52
70L7169R-7172R	Boynton Beach Lake Worth	+0.50MHW*	
<p>*The stage of tide tolerance is greater than + 0.30 ft. specified in the instructions for some of the photography used in compiling portions of the MHW and MLW lines. The Horizontal position of these lines was verified by field edit.</p>			

TP-00189

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION *☒ FIELD EDIT OPERATION, 1973

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. R. Wagner	5/73
2. HORIZONTAL CONTROL	RECOVERED BY R. R. Wagner	5/73
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY C. V. Ullman	5/73
	ESTABLISHED BY C. V. Ullman	5/73
	PRE-MARKED OR IDENTIFIED BY C. V. Ullman	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY C. V. Ullman	5/73
	LOCATED (Field Methods) BY C. V. Ullman	5/73
	IDENTIFIED BY C. V. Ullman	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY C. V. Ullman	5/73
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY Inapplicable	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Refer to Field Edit Report	71E9514	Z34, G315
		71E9515	T121, H315, DELRAY RM1, Q310
		71E9516	W233 RESET, INTRACOASTAL WATERWAY
		71E9517	T315, R315
	to be plotted:		HAULOVER

3. PHOTO NUMBERS (Clarification of details)

71E9514 thru 9517, 70L7037R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Landmarks and nonfloating aids were located or verified by photogrammetric methods.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
71E9516	Light 52		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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)

Sketchbook pages

*Field Report bound in this Descriptive Report.

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

RECORD OF SURVEY USE

TP-00189

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No copies of this manuscript were 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
		4/9/75	3 Forms 76-40 submitted as final report.

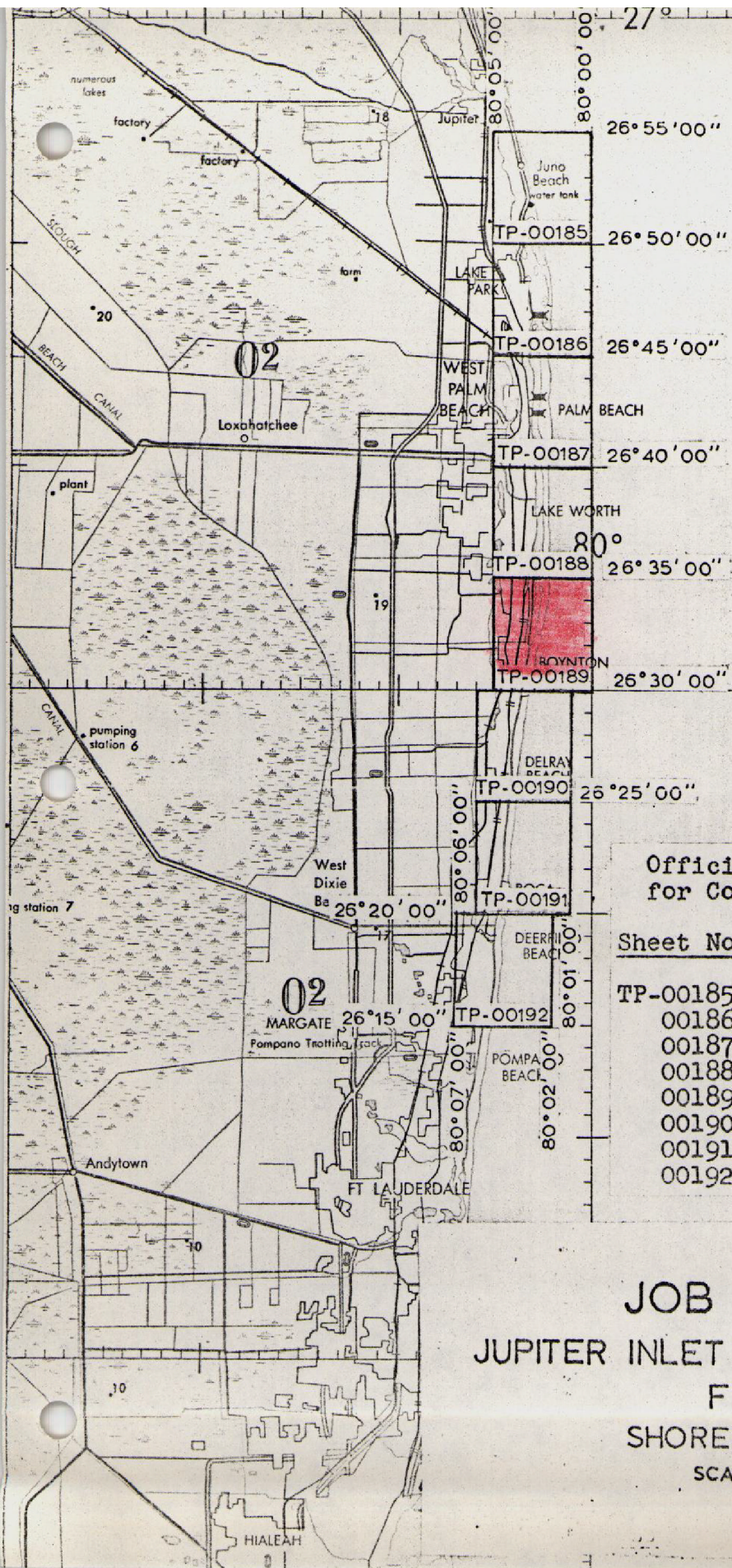
2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 4/9/75
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

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)

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



Record of Decisions
TP-00189

The Record of Decisions was discontinued on June 17, 1975.
Refer to Form 76-36B bound in this Descriptive Report for
tidal datum information.

SUMMARY
TP-00185 thru TP-00192

Coastal Zone Map TP-00189 is one of eight (8) similar maps in Job PH-7010. The index to adjoining sheets 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 1970 and 1971 on color and black-and-white infrared film. The infrared film was tide coordinated.

Field operations consisted of the following:

1. Recovery of horizontal and vertical control
2. Pre-marking of horizontal control for aerotriangulation
3. Establishment of tidal datums
4. Tide station and tidal bench mark information.

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 stereo plotter and/or 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 NOS 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. A continuous tone negative of the orthophoto mosaic
4. The Descriptive Report.

All negatives used in printing the maps are filed in the Reproduction Division.

All field data such as field edit sheets, discrepancy prints, field edit photographs, foreshore profiles, and field forms are filed in the National Archives.

FIELD REPORT

JOBS PH-7010 and PH-7113

In accordance with Instructions - FIELD - PH-7010, Aerotriangulation Control, and Instructions - FIELD - Job PH-7113; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Florida, the following report is submitted.

1. HORIZONTAL CONTROL

The two jobs are treated as one for report purposes, targets on Job PH-7010 being replaced in approximately the same positions as they were in November 1970.

Twenty-one stations were premarked for 1:30,000 scale color photography. Where feasible, Array No. 1 was used, being a 9-foot triangle with 3 runners or wing panels of 2 x 20 ft. dimensions. Several variations were used as the area is highly developed, particularly in the southern part, and space was not always available. The CSI cards are believed to be adequate to explain the variations but some discussion is in order.

From north to south the first 8 stations are Array No. 1 with varying degrees of angle between the wing panels.

POMPANO 1928 was marked by a triangle painted on the macadam (station is in a parking area) over the station mark. Paint used was Pittsburg fluorescent TANGERINE (very close to what we call fire orange) and should show well on the color photographs. (This paint was used on two other stations and we would be interested to know how it turns out.) In addition, a white 9-ft. triangle was placed on top of a nearby flat-roofed building approximately 10 feet high, which is a sub-station.

2.

HALLAND 1928 was marked by a painted target substation placed on the light brown sand of a public beach. We used a white plastic target and painted it. No room was available for wing panels at this small beach.

CAPE FLORIDA OLD TOWER FINIAL 1883 was marked by a single white triangle. No room was available for wing panels.

CAUSEWAY 1934 was marked by a painted triangle placed on the west end of a bridge under construction. The bridge is real white and the color should show "like a light".

PAN AMERICAN 1935 was marked by 2 white triangles placed on the lower level of the 3-level, flat-topped building, one on the east side and one on the south. They are approximately 18 to 20 feet above ground. Two triangles were used "to be sure".

BLACK POINT 3 and NARROW POINT are in the water and approximately 50 feet offshore. Triangles were built over the station marks and about 3 feet above estimated mean high-water level. 8-foot squares were used as wing panels believing these would withstand more wind. The Commander of ESSA 88 reported these targets in good condition at time of bridging photography, only one wing panel being damaged.

All targets were taken up after photography except the two in the water. All were found in good condition, although we had to make repairs to a few during the period they were on the ground due to wind damage. Only station CLOISTER was vandalized and it was not bothered after it was replaced. This is rather remarkable considering some of the locations.

USGS quad maps showing approximate locations of targets have been submitted.

We were advised by the Commander of aircraft that Line 30-1, Job PH-7113, was photographed February 24 and the other lines on both Jobs on March 8.

2. TIDE COORDINATED PHOTOGRAPHY

As directed by telephone, the following nine tide

3.

stations were manned:

- (1) Lake Worth, Atlantic Ocean
- (2) Andrews Avenue Bridge, Fort Lauderdale
- (3) Bahia Mar Yacht Club, Fort Lauderdale
- (4) Port Everglades
- (5) Biscayne Creek, North Miami
- (6) Biscayne Bay, Miami
- (7) Biscayne Bay, Cutler
- (8) Biscayne Bay, Turkey Point
- (9) Card Sound

Photography obtained was based on the first seven gages. Lines 30-5 and 30-6 would have been based on TURKEY POINT and CARD SOUND. These lines were not photographed. Also, high-water only was obtained for line 30-4, based on CUTLER.

Recordings entered in the tide volumes, Form 277, were at 5 minute intervals near and during photography; otherwise 15 minute interval. Wet staff readings--crest, trough and mean--were recorded while photography was in progress. Tolerances of ± 0.3 ft. for mean high-water and ± 0.1 ft. for mean low-water were observed. Eastern Standard Time was used.

Photography was obtained on 2 days: Low-water February 24 and high-water March 2. Lines 30-1, 30-2 and 30-3 were flown at low-water. Lines 30-1, 30-2, 30-3, and 30-4 were flown at high.

Low-water photography Feb. 24. (Time furnished by Photographer.)

(1) Segment of Line 30-1 approximately 4 miles north and 4 miles south of Port Everglades inlet (or entrance) 1201 to 1210 hrs. based on PORT EVERGLADES staff reading of 1.7 ft.

(2) Line 30-1, based on LAKE WORTH PIER, photographed in its entirety from 1228 to 1241 hrs. when the tide reading was 1.4/1.3 ft.

(3) An 8 mile segment of line 30-1, based on BAHIA MAR YACHT CLUB, was photographed at 1444 to 1449 hrs. when the tide staff read 1.7 ft.

4.

(4) An 8 mile segment of line 30-1, based on ANDREWS AVENUE BRIDGE was photographed at 1511 to 1515 hrs., when the staff read 1.6 ft.

(5) Line 30-2, based on BISCAYNE BAY, MIAMI, and flown south to north, was photographed at 1259 to 1305 hrs., when the staff read 2.2 feet.

(6) Line 30-3, based on BISCAYNE BAY, MIAMI and BISCAYNE CREEK, NORTH MIAMI, flown south to north, was photographed at 1319 to 1324 hrs, when the BISCAYNE Bay, Miami staff read 2.1 and the BISCAYNE CREEK staff read 3.1, both ends of the line being within tolerance.

(7) Line 30-2 was then photographed again, based on BISCAYNE CREEK, NORTH MIAMI, and flown from north to south at 1330 to 1336 hrs when the staff reading was 3.1.

This ended the low-water photography.

High-water photography, March 2.

(1) Line 30-1, based on LAKE WORTH PIER, was photographed at 1039 to 1055 hrs., when the gage reading was 4.2 feet. However, we were advised that parts of this line were re-photographed at approximately 1144 to 1149 hrs. in the Miami Beach area and at 1242 to 1245 hrs. in the Hollywood area. Tide was within tolerance at all times.

(2) A segment of line 30-1, based on ANDREWS AVENUE BRIDGE (as well as BAHIA BLK and FORT EVERGLADES) was photographed at 1103 to 1106 hrs. with the camera end overlap setting at 80%.

(3) Line 30-2, based on BISCAYNE BAY, MIAMI and BISCAYNE CREEK, NORTH MIAMI, was photographed at 1254 to 1300 hrs. when the BISCAYNE BAY, MIAMI reading was 4.6 ft. and the BISCAYNE CREEK staff read 5.6 ft.

(4) Line 30-3, based on the same stations, was photographed at 1305 to 1311 with the staff readings unchanged from line 30-2.

(5) Line 30-4, based on BISCAYNE BAY, MIAMI and BISCAYNE CREEK, NORTH MIAMI, was photographed at 1319 to 1325, when the MIAMI staff read 4.5 and CREEK read 4.8 ft.

This ends the high-water photography.

5.

3. FORESHORE PROFILES

Ten planetable beach profiles were run within the limits of Job PH-7113. They cover a linear distance of approximately 40 miles. The northerly one is at triangulation station POMPAHO and the southernmost one is near the Cape Florida lighthouse on Key Biscayne. Mr. Phil Walbolt ran 7 of the 10 during the period of photography, basing tide stage on a nearby tide gage. The other 3 were similarly accomplished two or three days after photography, with information as to tide level being obtained from the Weather Service's remote recorder in Miami Beach via telephone, in 2 instances.

The procedure was to drive a stake to water level near shore and obtain the tide gage reading at that time by radio from a nearby gage. This elevation thus became the bench mark to determine the horizontal position of mean high- and mean low-water lines from a planetable setup. Points occupied were triangulation stations or recoverable photo-topo points. The planetable was oriented to magnetic north with an azimuth to an identifiable point. One variation from this is at profile No. 7 where no distant azimuth was visible and the profile was laid out to parallel a beach groin that should be clearly visible on the low-water photographs.

No profiles were run in Job PH-7010 since the infrared photography was obtained several months ago.

In addition to sketches at some of the occupied points, USGS quad maps show the approximate locations of the profiles along with premark target locations.

Submitted 3/25/71

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

PHOTOGRAMMETRIC PLOT REPORT
JUPITER INLET TO HILLSBORO INLET, FLORIDA
Job PH-7010
January 1973

21 AREA COVERED

This report covers an area on the east coast of Florida south from Jupiter Inlet to Hillsboro Inlet. The job consists of eight (8) 1:10,000 scale sheets: TP-00185 through TP-00192.

22 METHOD

Two (2) strips of photography (Nos. 1 and 2) were bridged using aerotriangulation methods. Ties were made between these strips and with strip No. 27 of the Cape Kennedy to Jupiter Inlet Report immediately to the north of this area. Image points were located to rectify photographs for orthophoto nautical and small craft charts. All points were drilled by the PUG method. Closure to control has been noted on the read-outs. Attached is a sketch which shows the control used in the strip adjustments. All points were plotted on the Florida East Zone Plane Coordinate System using the Coradimat Plotter. Ratio prints of the area were ordered. The bridging work was completed in December 1971.

23 ADEQUACY OF CONTROL

Horizontal control was premarked and was adequate for bridging.

24 SUPPLEMENTAL DATA

USGS Topographic quadrangles were used to obtain vertical control for bridging.

25 PHOTOGRAPHY

The following 1:30,000 scale RC-8 color photography was used in bridging:

Strip 1 71E(c) 9497 through 9507

Strip 2 71E(c) 9511 through 9530

The quality and definition of the photography was adequate.

Respectively submitted,

Victor McNeel
Victor McNeel

Approved and forwarded:

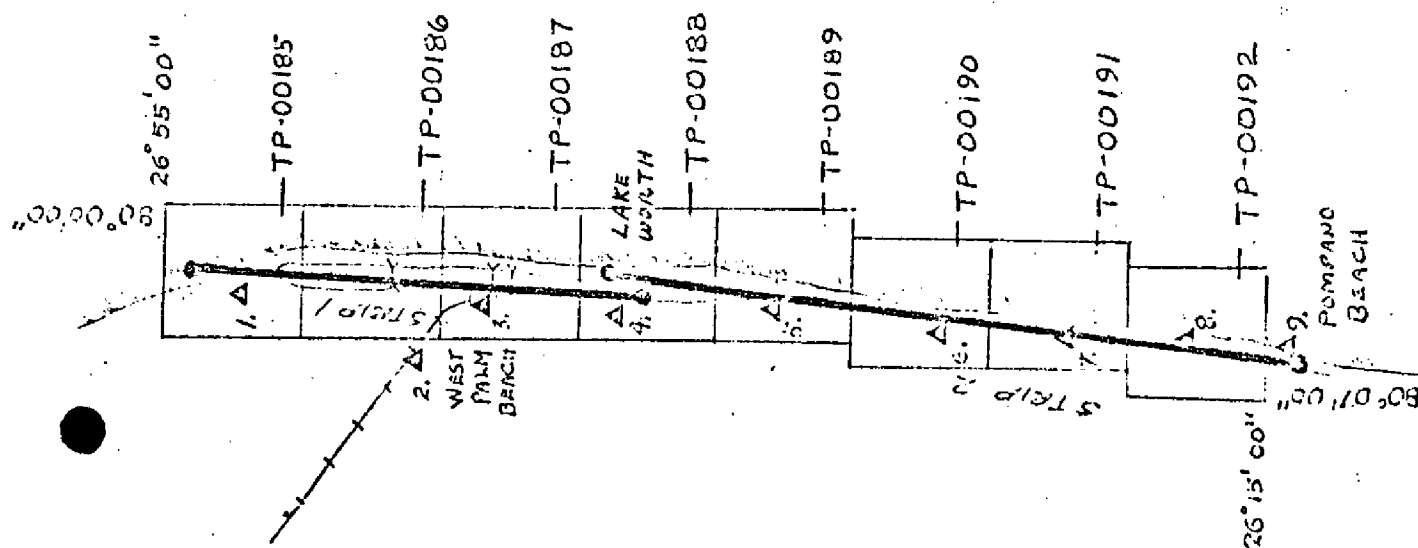
John D. Perrow, Jr.
John D. Perrow, Jr., Chief
Aerotriangulation Section

JOB IN-7410
JUPITER INLET TO HILLSBORO INLET
FLORIDA
SHORELINE MAPPING
SCALE 1:10,000

CONTROL

1. Golf 1934, RM 1
2. St. Marys S-2, (subpoint)
3. East 1924, (subpoint 1)
4. Police 1970, (subpoint A)
5. Delray North Base RM 2, 1933
6. Delray South Base 1934, RM 6 1970
7. Cloister 1929
8. Turtle 1929
9. Tompano 1923 (subpoint A)

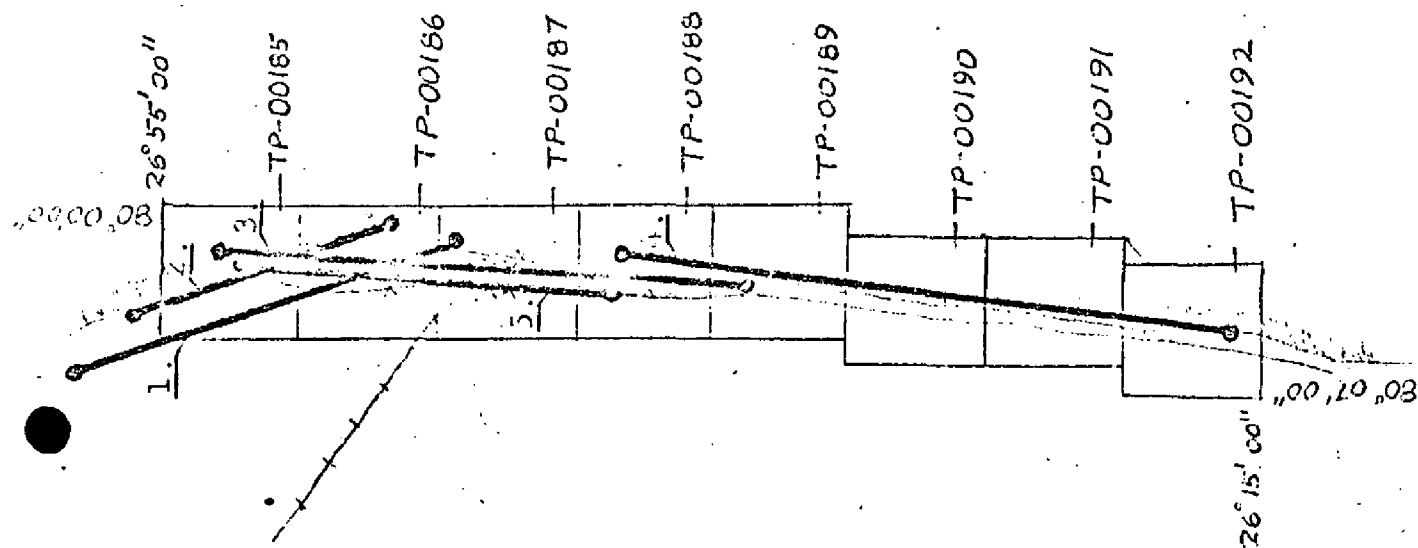
- ▲ Horizontal control used in adjustment
● 1:30,000 scale photography



JOB PH-7010
 JUPITER INLET TO HILLSBORO INLET
 FLORIDA
 COMPILATION PHOTOGRAPHY

1:25,000 SCALE INFRARED

- | | | | |
|----|-----------|---|-----------|
| 1. | 70L 6991R | - | 7003R MLW |
| 2. | 70L 7385R | - | 7394R MHV |
| 3. | 70L 7021R | - | 7056R MLW |
| 4. | 70L 7155R | - | 7176R MHV |
| 5. | 70L 7361R | - | 7373R MHV |



FLORIDA- NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP- 00189

17

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
HAULOVER, 1929	Book 422, p. 2, 21 G.P.-Fla. Vol. 1, p.769, P.C. Fla. E Zone, p. 165
LANTANA HIGH SILVER TANK, FUYIAL, 1934	Book 422, p. 1, 22 G.P.-Fla. Vol. 1, p. 183, P.C. Fla. E. Zone, p. 47
KIRK 2, 1966	Write Director, National Geodetic Survey
ALLING, 1929	Book 422, p. 1, 22 G.P.-Fla. Vol. 1, p. 769, P.C. Fla. E Zone, p. 165

FLORIDA-NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP- 00189

18

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	NGVD 1929	
Z34	10.440	C&GS Disk stamped Z34 1933 10.440, 50.0 ft. E of track, 24.5 ft. W of W curb of U.S. H. 1, 24.5 ft. E of E of rail of N-bound track.
T121	9.091	C&GS Disk stamped T 121 1945, 24.5 ft. W of W curb of U.S. H. 1, 25.3 ft. E of E rail of N-bound track, 18.0 ft. N of centerline of road.
DELRAY NORTH BASE RML	12.582	C&GS Disk stamped DELRAY NORTH BASE NO 1 1933, 87.0 ft. W of and across track from W curb of U.S. H. 1, 19.5 ft. W of W rail of S-bound main track, 15.0 ft. E of E side of fence.
G315	5.210	C&GS Disk stamped G315 1970, 44.4 ft. W of centerline of hwy., 14.6 ft. E of junction of N-S seawall, 1.3 ft. W of E end of E-W seawall.
H315	19.419	C&GS Disk stamped H315 1970, 68.3 ft. NE of and across road from S end of fence, 25 ft. E of center of S.H. ALA, 4.0 ft. NW of NW palm tree of two.
T315 (SRD)	25.210	F.S.R.D. Disk stamped T315 1970, 17.8 ft. S of centerline of Ave., 7.3 ft. E of W end of bridge bannister.
R315	15.499	C&GS Disk stamped R315 1970, 22 ft. E of centerline of road, 66 ft. N of centerline of driveway, 2 ft. W of pole.
W233 RESET 1969	13.504	C&GS Disk, W233 R. 1969, 132 ft. S of RR X-ing, 103 ft. W of center of NE 4th St., 17 ft. W of W rail, 1.4 ft. N of witness post.
HAUOVER	26.900	In E bridge rail, 54.5 ft. SE of bridge center, 32 ft. N of SE bridge corner, 20.5 ft. E of ALA centerline, C&GS Disk HAUOVER 1929.
N310	6.516	*
P310	5.312	*
Q310	5.308	*
R310	5.410	*
U233	11.407	*

* Description given under Tidal Bench Marks

Compilation Report
TP-00189

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 rectified prints and mosaic were controlled by points determined by aerotriangulation.

The tidal datum lines and any offshore features on this map were compiled from office interpreted tide-coordinated black-and-white infrared photography. The rectified color photography was used as an aid for interpreting culture features and compiling the limits of shallow and shoal areas for Nautical Charts. The tide-coordinated black-and-white infrared photography was controlled by common planimetric features and map points determined by aerotriangulation.

32. Horizontal Control

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

33. Supplemental Data - None

34. Contours and Drainage

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

35. Shoreline and Alongshore Details

Photography was adequate for the delineation of the mean high and mean low water lines.

Completeness and accuracy of the tidal datum lines will be verified during the field edit operation.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

The images of charted objects visible on the photography were located during compilation and will be verified by field edit. 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(page 2 of this Descriptive Report).

40. Horizontal Accuracy

Coastal Zone Map TP-00189 complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outlined by project instructions, PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle:

Lake Worth, Fla, scale 1:24,000, 1945, photorevised 1967.

47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

SC-847, scale 1:40,000, 11th edition, dated Aug. 1972.

No significant differences were noted.

Submitted by,



C. F. Lewis

Approved and forwarded:



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

51. METHODS

The shoreline of the Atlantic Ocean was verified visually by walking along the shoreline. The shoreline of Lake Worth and the Intracoastal Waterway was verified visually from a small boat while cruising just off shore. Notes regarding apparent and "fast" shoreline, piers, groins, and other shoreline features were made on the rectified photographs.

Three landmarks are recommended for charting. Form 76-40 is submitted. All three are triangulation stations.

Form 76-40 is also submitted for nonfloating aids. One was photo-identified, and the others located by sextant cuts.

Bench marks were searched for, identified on the photographs, and reported on forms 76-89.

All triangulation stations on the map manuscript were searched for. Recovery notes are submitted for stations lost or destroyed, and for stations whose descriptions require modification.

State and federal highway numbers are shown on the photographs.

Field edit notes will be found on the Discrepancy Print, Field Edit Sheet, and the photographs.

The MLWL was verified using the Boynton Beach gage when the tide ranged from 0.1 foot above to 0.2 foot below MLW. Small changes and additions will be found on the Discrepancy Print.

Shoals, shallows, channels, and foul areas were verified by traveling the area in a small boat.

Color photographs were not available for work on this map.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No test required.

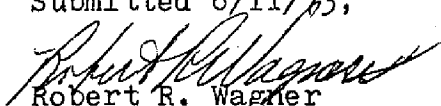
54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 6/11/73,


Robert R. Wagner
Chief, Photo Party 60

Review Report
Coastal Zone Map TP-00189
July 1975

61. General

The map manuscript for Coastal Zone Map TP-00189 was reviewed in its Class I (field edit applied) stage by the Quality Control Group. The review consisted of an examination of the following:

- Map manuscript
- Photography
- Field edit and its application
- Reproduction negatives
- Descriptive Report

The proof copy of Coastal Zone Map TP-00189 was examined and edited by the Quality Control Group prior to its publication. This edit comprised a thorough inspection of map details to verify the accuracy of reproduction with reference to the map manuscript and the quality of reproduction. In addition, the proof copy was examined by the following sections:

- Coastal Mapping - Map details
- Staff Geographer - Geographic names
- Coastal Surveys - Horizontal and vertical control

62. Cartographic Comparison

Comparison was made with the following USGS quadrangle:

Lake Worth, Fla., 1946, photorevised 1967, 1:24,000 scale

No significant differences were noted.

Comparison was made with the following Nautical Chart:

11467(formerly 847-SC) 13th edition, Sept. 14, 1974, 1:40,000 scale.

The following differences were noted between Nautical Chart 11467 and Map TP-00189:

1. Chart 11467 shows a small islet located in Lake Worth at approximate latitude 26°23.6' and longitude 80°02.6'. Coastal Zone Map TP-00189 shows the feature at MLW. This MLWL was verified by the field editor.

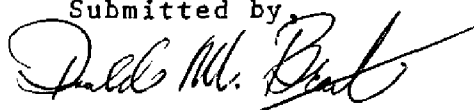
2. 2. Features such as posts, piles, etc., shown on Coastal Zone Map TP-00189 located between Hypoluxo Island and South Lake Worth Inlet are in disagreement with Chart 11467. These features were either verified or located by the field editor.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

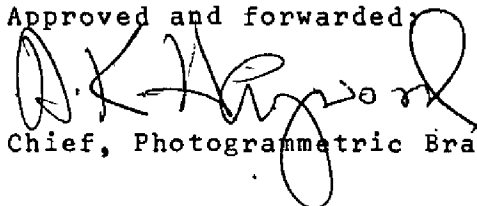
Coastal Zone Map TP-00189 complies with the instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000, and the National Standards of Map Accuracy.

Submitted by,



Donald M. Brant

Approved and forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

July 1975

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-7010 (Florida)

TP-00189

Atlantic Ocean

Boynton Beach

Boynton Canal

Florida East Coast (RR)

Hypoluxo

Hyplouxo Island

Lake Osborne

Lake Worth

Lantana

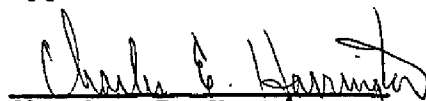
Manalapan

Ocean Ridge

Seaboard Coast Line (RR)

South Lake Worth Inlet

Approved:


Charles E. Harrington
Staff Geographer

U.S. DEPARTMENT OF COMMERCE - NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NONFLOATING AIDS ON LAND MARKS FOR CHARTS									
NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		ORIGINATING LOCATION		DATE		ORIGINATING ACTIVITY			
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE DELETED		Rockville, Maryland		April 1975		<input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input type="checkbox"/> FINAL REVIEW <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW (See reverse for responsible personnel)			
The following objects have (have not) been inspected from seaward to determine their value as landmarks:		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)			CHARTS AFFECTED
JOB NUMBER PH-7010 STATE: FLORIDA		T- TP-00189		N.A. 1927					
CHARTING NAME	DESCRIPTION	LATITUDE		LONGITUDE		FIELD INSPECTION	COMPILATION	FIELD EDIT	
		D.M. METERS ° /	"	D.M. METERS ° /	"				
DYBN 40	LAKE WORTH SOUTH	26 34	34.77	80 02	48.64			P.4 5/9/73	1248 NC 847-SC
LIGHT 41	"	26 34	5.78	80 02	49.41			"	"
DYBN 42	"	26 34	178.0	80 02	1367.5			"	"
DYBN 43	"	26 33	6.01	80 02	51.40			"	"
LIGHT 44	"	26 33	185.0	80 02	1422.5			"	"
DYBN 45	"	26 33	40.31	80 02	52.21			"	"
DYBN 46	"	26 32	1240.5	80 02	1445.0			"	"
DYBN 48	"	26 32	14.31	80 03	56.87			"	"
LIGHT 49	"	26 32	440.5	80 02	1574.0			"	"
DYBN 51	"	26 32	14.43	80 02	54.93			P.4 5/17/73	"
	"	26 32	444.0	80 02	1520.5			"	"
	"	26 32	48.92	80 02	59.38			P.4 5/9/73	"
	"	26 32	1505.5	80 03	1641.0			"	"
	"	26 32	21.90	80 02	2.28			"	"
	"	26 32	674.0	80 02	063.0			"	"
	"	26 32	21.48	80 02	59.71			P.4 5/10/73	"
	"	26 32	661.0	80 03	1653.0			"	"
	"	26 32	12.70	80 03	4.73			"	"
	"	26 32	391.0	80 03	131.0			"	25

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
1. Objects inspected from seaward	C. V. Ullman
2. Positions determined and/or verified	R. R. Wagner
3. Forms originated by Quality Control and Review Group and final review activities	H. S. Jones
	Copy checked after typing
	D. Brant

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

COMPLICATION

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.'

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

[illegible]

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	C. V. Ullman	<input checked="" type="checkbox"/> FIELD INSPECTOR <input type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	R. R. Warner	FIELD EDITOR
	H. S. Jones	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant	<input type="checkbox"/> REVIEWER <input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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

COLUMN TITLE

TYPE OF ENTRIES

COMPILATION

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

FIELD INSPECTION

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

AND

FIELD EDIT

F — Field

P — Photogrammetric

EXAMPLES:

1. Triangulation

1. Field identified

F. 3.c

2. Traverse

2. Theodolite

P. 2

3. Intersection

3. Planetable

4. Resection

4. Sextant

a. Theodolite

b. Planetable

c. Sextant

Immediately beneath the data described above, enter the following:

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

b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph

was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

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

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

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

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
1. Objects inspected from seaward	C. V. Ullman
2. Positions determined and/or verified	E. V. Ullman
	H. S. Jones
3. Forms originated by Quality Control and Review Group and final review activities	Copy checked after typing D. Brant

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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

COLUMN TITLE

TYPE OF ENTRIES

COMPILATION

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

FIELD INSPECTION AND FIELD EDIT

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

F - Field

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

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-00189
National Archives Data

- 1 Field edit sheet
- 1 Discrepancy print
- 3 Forms 76-40
- 7 Pages of sketchbook of sextant
- 5 Pages of tide data

Photography:

71E(C)9514 thru 9517 (black and white ratio)

70L7037R (ratio)