

Original

TP-00192

TP-00192

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-00192</u>
Classification No. <u>Final</u>	Edition No. <u>1</u>
Field Edited Map	
LOCALITY	
State <u>Florida</u>	
Broward County	
General Locality <u>Palm Beach County</u>	
Locality <u>Deerfield Beach to</u>	
<u>Hillsboro Inlet</u>	
<u>1970 TO 1973</u>	
REGISTRY IN ARCHIVES	
DATE .....	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE  Rockville, Maryland		SURVEY TP00192  MAP EDITION NO. (1)  MAP CLASS Final  JOB PH-7010	
OFFICER-IN-CHARGE  Commander Wesley V. Hull		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED  JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>  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 Instruc- tions(1973) incorporate applicable prior operational instructions. OFFICE-Supplement II, Sept. 24, 1973		<b>2. FIELD</b>  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	
<b>II. DATUMS</b>			
<b>1. HORIZONTAL:</b> <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
<b>2. VERTICAL:</b> <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
<b>3. MAP PROJECTION</b>  Transverse Mercator		<b>4. GRID(S)</b> STATE ZONE Florida East	
<b>5. SCALE</b> 1:10,000		STATE ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
<b>1. AEROTRIANGULATION</b> METHOD: <input type="checkbox"/> LANDMARKS AND AIDS BY		V. McNeel Inapplicable	12/71 5/72
<b>2. CONTROL AND BRIDGE POINTS</b> METHOD: PLOTTED BY CHECKED BY		D. Phillips Inapplicable	5/72 Inapplicable
<b>3. STEREOSCOPIC INSTRUMENT</b> COMPILATION INSTRUMENT: SCALE:		PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	Inapplicable Inapplicable Inapplicable
<b>4. MANUSCRIPT DELINEATION</b> Shoreline: Graphic METHOD: Interior: Orthophoto mosaic SCALE: 1:10,000		PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY	C. Lewis J. Battley, Jr. Inapplicable J. Taylor J. Battley, Jr. J. Battley, Jr.
<b>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</b>		BY J. Battley, Jr.	5/73
<b>6. APPLICATION OF FIELD EDIT DATA</b>		BY P. Gibson CHECKED BY G. Fromm	8/73 12/73
<b>7. COMPILATION SECTION REVIEW</b>		BY J. Battley, Jr.	1/74
<b>8. FINAL REVIEW</b>		BY D. Brant	1/74
<b>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</b>		BY	7/75
<b>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</b>		BY D. Brant	7/75
<b>11. MAP REGISTERED - COASTAL SURVEY SECTION</b>		BY R. CATOR	8/75

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

TP-00192

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 E6L 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED B&W		ZONE	<input checked="" type="checkbox"/> STANDARD <input checked="" type="checkbox"/> DAYLIGHT
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Eastern	
				75th & 60th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
*71E(C)9525-9529	3/8/71	1208	1:30,000	The stage of tide is inapplicable for the color photography.	
70L7052R-7055R	8/15/70	1356	1:25,000	Refer to the following page for tide information.	
71K5632R	2/24/71	1228	1:30,000		
70L7155R-7158R	8/17/70	1010	1:25,000		
71K5750R	3/2/71	1042	1:30,000		

## 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-00191	ATLANTIC OCEAN	TP-00416	None

REMARKS Final junctions were made in the Coastal Mapping Section.

TP-00 192  
TIDE INFORMATION

3

PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
<u>ATLANTIC SHORELINE</u>			
North of 26°17' 70L7052R-7055R	Hillsboro Inlet, Atlantic Ocean	+0.12MLW	2.57
70L7155R-7158R	Hillsboro Inlet, Atlantic O.	-0.01MHW	
South of 26°17' 71K5632	Hillsboro Inlet, Atlantic O.	-0.15MLW	
71K5750R	Hillsboro Inlet, Atlantic O.	-0.04MHW	
<u>INTERIOR WATERS</u>			
North of 26°17'			
70L7052R-7055R	Hillsboro Inlet	+0.17MLW	2.53
70L7155R-7158R	Hillsboro Inlet	+0.09MHW	
South of 26°17'			
71K5632R	Hillsboro Inlet	-0.06MLW	
71K5750R	Hillsboro Inlet	-0.17MHW	

TP-00192

## HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R.Wagner	6/73
2. HORIZONTAL CONTROL	RECOVERED BY R.R.Wagner ESTABLISHED BY Inapplicable PRE-MARKED OR IDENTIFIED BY Inapplicable	6/73
3. VERTICAL CONTROL	RECOVERED BY R.R.Wagner ESTABLISHED BY Inapplicable PRE-MARKED OR IDENTIFIED BY R.R.Wagner	6/73
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R.R.Wagner LOCATED (Field Methods) BY C.V.Ullman IDENTIFIED BY C.V.Ullman	6/73 6/73 6/73
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	6/73
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 Report	71E9525	P234
		71E9526	N05,D226,E235,X311,C312
		71E9527	R234,A312,B312
		71E9528	N01,N02,G35,P314

3. PHOTO NUMBERS (Clarification of details)

71E9525 thru 9529

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
71E9528	Light 69, Light 71		

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 page

\*The field report is bound in this Descriptive Report.

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

TP-00192

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No map copies 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	2 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: \_\_\_\_\_

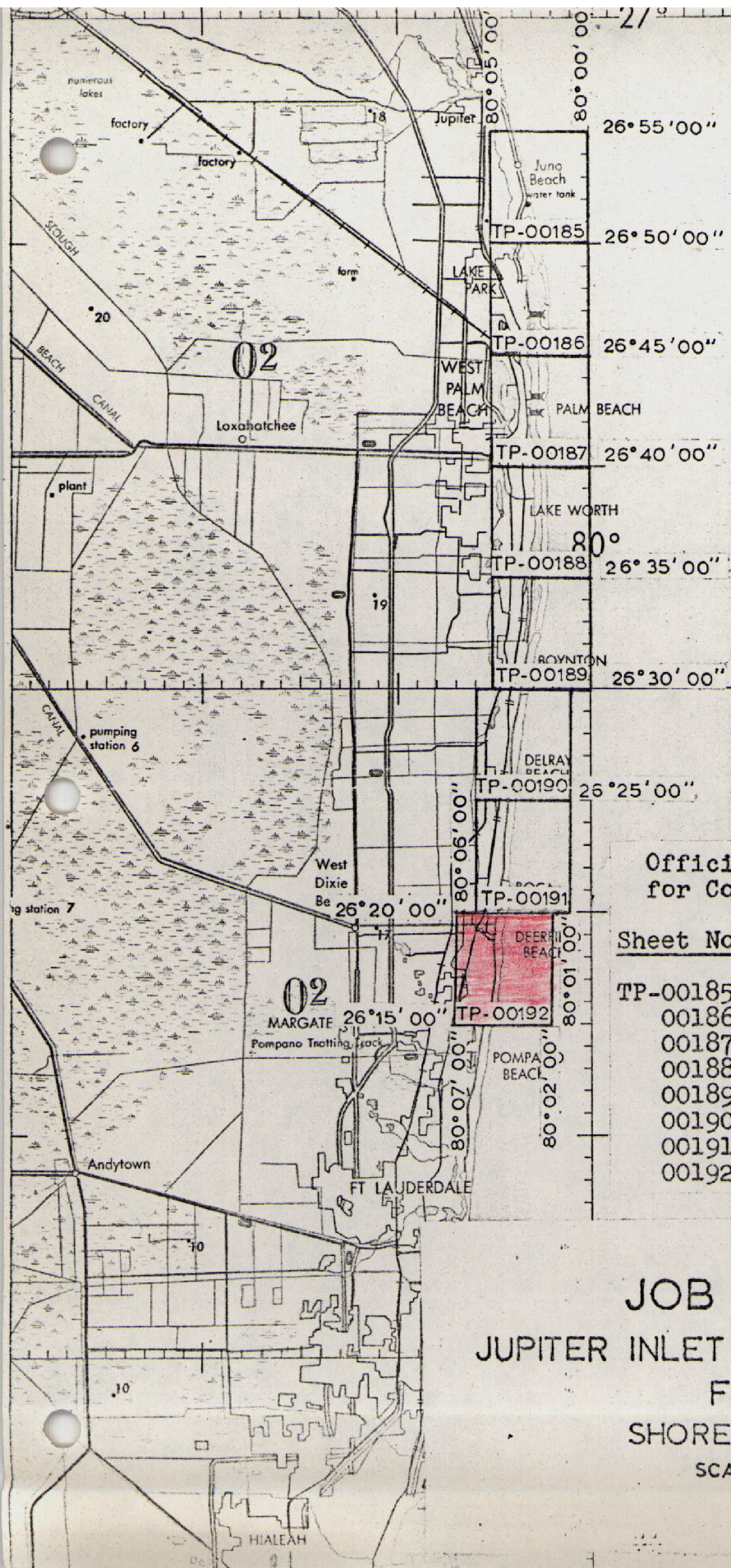
## III. FEDERAL RECORDS CENTER DATA

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





# Official Mileage for Cost Accounts

## Sheet No. - Area Sq. Mi.

TP-00185	4
00186	7
00187	12
00188	8
00189	4
00190	4
00191	3
00192	4

JOB PH-7010  
JUPITER INLET to HILLSBORO INLET  
FLORIDA  
SHORELINE MAPPING  
SCALE 1:10,000



Record of Decisions  
TP-00192

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-00192 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..

POMFANO 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.

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 USSA 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 FH-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

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  $\pm 0.3$  ft. for mean high-water and  $\pm 0.1$  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 PLAZA, 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) An 8 mile segment of line 30-1, based on ANDREWS AVENUE BRIDGE, was photographed at 1511 to 1515 hrs., when the staff read 1.8 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 NORTH 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 BANIA MAR 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 BAY, CUTLER, was photographed at 1319 to 1325, when the MIAMI staff read 4.5 and CUTLER read 4.8 ft.

This ends the high-water photography.



### 3. FORESHORE PROFILES

Ten planctable 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 FCMFALC 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 planctable setup. Points occupied were triangulation stations or recoverable photo-topo points. The planctable 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

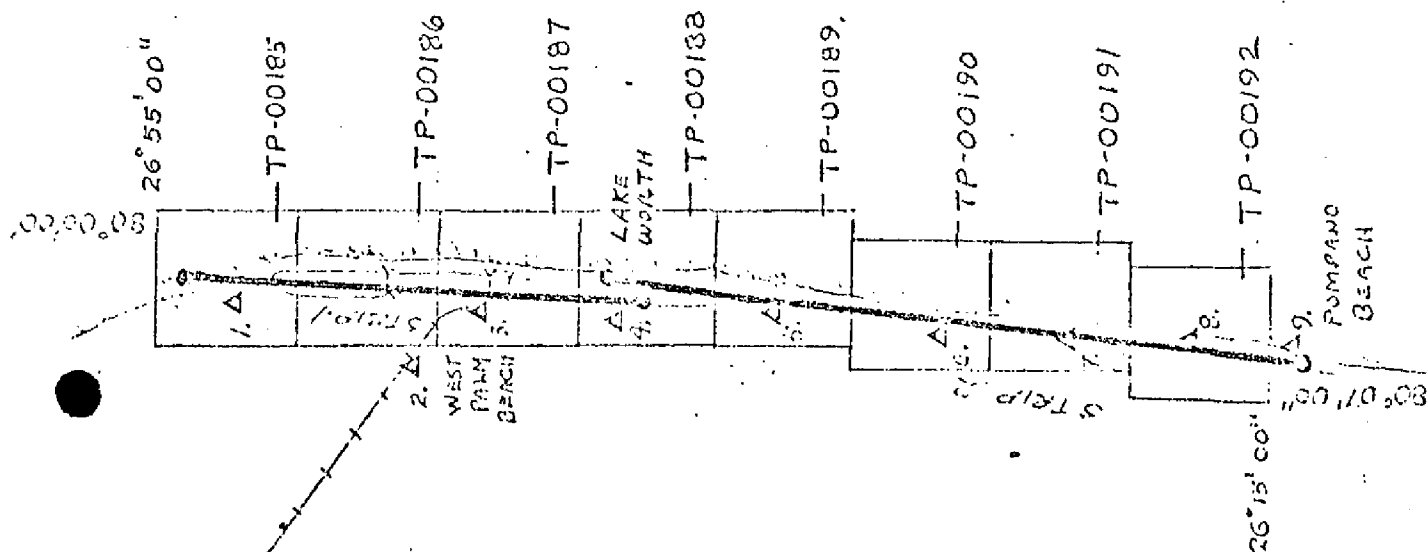
JOB FH-7 129  
 JUPITER INLET TO HILLSBORO INLET  
 FLORIDA  
 SHORELINE MAPPING  
 SCALE 1:10,000

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 Beach, RM 2, 1933
6. Delray South Beach, 1934, RM 6, 1970
7. Cloister 1929
8. Turtle 1929
9. Tompano 1923 (subpoint A)

Δ Horizontal control used in adjustment

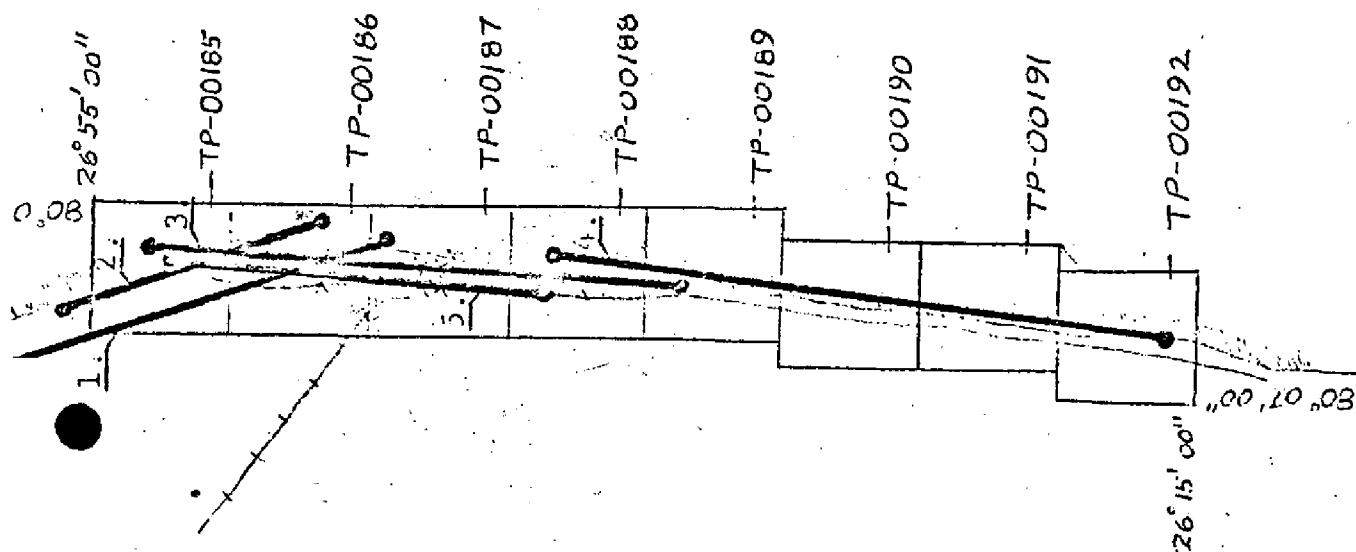
○ 1:30,000 scale photography



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 MHW
3. 70L 7021R - 7056R MLW
4. 70L 7155R - 7176R MHW
5. 70L 7361R - 7373R MHW



Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
HILLSBORO INLET LIGHT- HOUSE, CENTER, 1934  TURTLE, 1929	Book 422, p. 6, 35 G.P.-Fla. Vol. 1, p. 192, P.C. Fla. E Zone, p. 50  Book 422, p. 6, 24, 35 G.P.-Fla. Vol. 1, p. 164, P.C. Fla. E Zone, P. 22



Geodetic Bench Mark	Elevations (feet)	Condensed Description
	NGVD 1929	
G 35 ✓	20.112	C&GS disk stamped G 35 1933 20.174; 21.9 ft. W of W/rail of S-bound track, 25 ft. E of Old Dixie Hwy. centerline, 14 ft. W of milepost 330.
D 226 ✓	14.541	C&GS disk stamped D 226 1964; 52.6 ft. E of E rail of N-bound track, 2 ft. S of S one of 2 cable line poles.
R 234 ✓	16.913	C&GS disk stamped R 234 1965; 71.5 ft. W of W rail and across Old Dixie Hwy. from S-bound track, 86 ft. S of NE 48th St. centerline, 18 ft. S of road sign marker and brace pole.
E 235 ✓	15.233	C&GS disk stamped E 235 1965; 29.5 ft. W of W rail of S-bound track, 19 ft. W of milepost 327, 1.9 ft. N of vertical rail in ground projecting 4 ft. 43 ft. E of Old Dixie Hwy. centerline.
X 311 ✓	14.596	C&GS disk stamped X 311 1970; 22.5 ft. E of ALA centerline, 2.2 ft. W of concrete power line pole, at S side of Royal Flamingo Villars.
A 312 ✓	11.519	C&GS disk stamped A 312 1970; 22.5 ft. E of ALA centerline, 65 ft. S of approx. centerline of driveway, 2 ft. N of concrete power line pole, 2.5 ft. S of metal witness post.
P 234 ✓	9.820	C&GS disk stamped P 234 1965; 40 ft. SE of Hwy. centerline, 23 ft. SE of cable line pole No. 6.2 ft. NE of metal witness post.
B 312 ✓	7.562	C&GS disk stamped B 312 1970; 114 ft. W of ALA centerline, 13.2 ft. NW of NW corner of concrete block pumphouse.
C 312 ✓	11.522	C&GS disk stamped C 312 1970; 46 ft. W of ALA centerline, 11 ft. SE of SE corner of a row of hedge, 2.5 ft. W of concrete power line pole.

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	NGVD 1929	
16.770 (SRD)	16.726	*
18.090 (SRD)	18.045	*
P 314	11.545	*
Y 311	11.188	*
Z 311	12.641	*

\*Description given under Tidal Bench Marks.

Compilation Report  
TP-00192

31. Delineation

Features delineated were the MHWL, MLWL, identifiable landmarks and aids, foreshore, and alongshore manmade features.

Features behind the shoreline are depicted by the orthophoto mosaic. Sufficient detail was compiled from the bridging photography to control the ratio infrared MHW and MLW tide-coordinated photography.

Due to the importance of proper interpretation and symbolization, all shoreline is to be field edited.

32. Control

Horizontal control was adequate for density and placement in reference to identification. See Plot Report for details.

33. Supplemental Data - None

34. Contours and Drainage - Inapplicable

35. Shoreline and Alongshore Details

The Hillsboro River, Hillsboro Inlet, and the Atlantic Coast shoreline were delineated by office interpretation of the tide-coordinated infrared MHWL and MLWL ratio photographs listed on compilation sources form 76-36b.

Ratio photographs 71K5632R and 71K5750R were used to delineate the MHWL and MLWL from latitude 26°15' to approximately 26°17'.

Stereo models were set on the B-8 using glass plates 71E(C)9525, 9526, 9527 to delineate along the Atlantic Coast Line from latitude 26°18'15" to approximately 26°19'15". This area has numerous groins with what appears to be rocks piled around the ends of each of the groins. The MLWL for this area was delineated from the infrared photogs and the MHWL B-8 delineation was compared with the MHW infrared photos for verification of interpretation.

36. Offshore Details - Inapplicable

37. Landmarks and Aids

Four landmarks were plotted from Geodetic control. Additional landmarks, landmark buildings, and all aids to navigation will be located during field edit.

38. Control for Future Surveys - None

39. Junctions

Refer to form 76-36b.

40. Horizontal and Vertical Accuracy - See Aerotriangulation Report

41. thru 45. Inapplicable

46. Comparison with Existing Maps:

Comparison was made with the following USGS Quadrangle:

Boca Raton, Fla., scale 1:24,000, 1962, photorevised 1969.

47. Comparison with Nautical Charts

Comparison was made with the following:

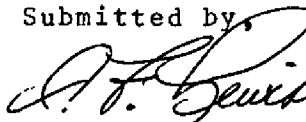
847SC, scale 1:40,000, 11th edition, dated Aug. 1972

NC-1248, scale 1:80,000, 14th edition, dated Oct. 1972

Items to be Applied to Nautical Charts Immediately: None

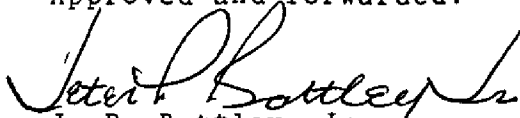
Items to be Carried Forward: None

Submitted by,



C. F. Lewis

Approved and forwarded:



J. P. Battley, Jr.

Chief, Coastal Mapping Section

51. METHODS

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

Four landmarks are recommended for charting. Form 76-40 is submitted. All four are triangulation stations.

Form 76-40 is also submitted for nonfloating aids. Two were photo identified, one planetabled, and the rest located by sextant cuts.

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

All triangulation stations on the manuscript were searched for. Forms 526 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 Boca Raton and Hillsboro Inlet tide staffs when the tide was 0.3 foot to 0.5 foot above 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 6/21/73,

  
Robert R. Wagner  
Chief, Photo Party 60



Review Report  
Coastal Zone Map TP-00192  
July 1975

61. General

The map manuscript for Coastal Zone Map TP-00192 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-00192 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:

Boca Raton, Fla., 1962, photorevised 1969, scale 1:24,000.

Comparison was made with the following Nautical Chart:

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

The following difference was found:

The charted wreck (approximate latitude 26°19.6') along the Atlantic Ocean shoreline is not shown on Coastal Zone Map TP-00192. A thorough investigation of the area was made by the field editor and reported submerged debris in the area. The debris does not constitute a danger to navigation.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00192 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

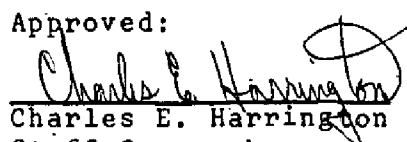
## FINAL NAME SHEETS

PH-7010 (Florida)

TP-00192

Atlantic Ocean	Hillsboro Inlet
Arlington Park	Hillsboro River
Barwal	Lake Placid
Boca Raton	Lighthouse Point
Broward Hilghlands	Little Harbor on the Hillsboro
Carver Heights	North Pompano Beach
College Park	Ocean Vue
Coral Manor	Park Haven
Deerfield Beach	Pompano Beach
Eastway Park	Pompano Beach Airpark
El Rio Canal	Pompano Beach Highlands
Fairlawn	Shorewood
Foresta Estates	The Cove
Florida East Coast (RR)	
Hillsboro Bay	
Hillsboro Beach	
Hillsboro Canal	

Approved:

  
Charles E. Harrington  
Staff Geographer

U.S. DEPARTMENT OF COMMERCE - NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION											
NONFLOATING AIDS OR MARKERS FOR CHARTS											
JOB NUMBER		SURVEY NUMBER		DATE		ORIGINATING LOCATION					
PH-7010		T -		N.A. 1927		Rockville, Maryland					
STATE: FLORIDA		TP-00192				April 1975					
The following objects have (have not) been inspected from seaward to determine their value as landmarks:											
CHARTING NAME	DESCRIPTION	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
		° / ' " D.M. METERS	° / ' " D.M. METERS	° / ' " D.M. METERS	° / ' " D.M. METERS						
DYBN 68	LAKE WORTH INLET - HILLSBORO INLET HILLSBORO RIVER	26 16	31.7	80 04	53.2		P.3 6/12/73				SC-847
LIGHT 69		26 15	58.5	80 04	52.8		"				"
DYBN 70	HILLSBORO INLET BISCAYNE CREEK	26 15	53.1	80 04	57.5		"				"
LIGHT 71	HILLSBORO RIVER LIGHT	26 15	46.1	80 05	58.6		P.1 6/13/73				"
LIGHT 1	HILLSBORO INLET PRIVATE MAINTAINED ENTRANCE LIGHT	26 15	20.5	80 04	49.7		P.4 6/14/73				SC 847 NC 1248
LIGHT 2	PRIVATE MAINTAINED ENTRANCE LIGHT	26 15	23.8	80 04	49.6		"				"
			733.8		1375.9						
											26

NOAA FORM 76-46  
(2-71)

PRESCRIBED BY  
PHOTOGRAMMETRY INSTRUCTION NO. 64.

☒ TO BE CHARTED  
☐ TO BE DELETED

ORIGINATING ACTIVITY  
☐ FIELD INSPECTION  
☐ FIELD EDIT  
☐ COMPILATION  
☐ FINAL REVIEW  
☒ QUALITY CONTROL AND REVIEW  
(See reverse for responsible personnel)

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME TITLE
1. Objects inspected from seaward	<input type="checkbox"/> FIELD INSPECTOR <input type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	C. V. ULLMAN FIELD INSPECTOR
	R. R. WAGNER FIELD EDITOR
	C. F. LEWIS 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

AND

FIELD EDIT

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

F - Field

P - Photogrammetric

EXAMPLES:

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

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

F. 3.c  
P. 2

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

Immediately beneath the data described above, enter the following:

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

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

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

\* U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/415



[illegible]

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	C. F. Lewis COPY CHECKED AFTER TYPING D. Brant
	FIELD INSPECTOR
	FIELD EDITOR
	COMPILER
	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

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. 46

TP-00192  
National Archives Data

1 Field edit sheet

1 Discrepancy print

3 forms 76-40

1 page sextant fixes

5 pages tide data

Photography:

71E(C)9525 thru 9529 (black and white ratio)