Original

TP-00191

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-7010..... *Map No.* TP-00191...

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

Field Edited Map

LOCALITY

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

General Locality ....Palm Beach County.....

Locality ....Boca Raton.....

.....

1970 TO 1973

REGISTRY IN ARCHIVES

DATE .....

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

TP-00191

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-00191
MAP EDITION NO. (1)
MAP CLASS Final
JOB PH-7010

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 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)

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	V. McNeel	12/71
	LANDMARKS AND AIDS BY	Inapplicable	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	D. Phillips	7/72
	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.S. Jones	4/73
Shoreline:Graphic	CHECKED BY	J.Battley,Jr.	4/73
METHOD:	CONTOURS BY	J. Taylor	11/72
Interior:Orthophoto Mosaic	CHECKED BY	J. Battley,Jr.	11/72
	HYDRO SUPPORT DATA BY	Inapplicable	
SCALE: 1:10,000	CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Battley,Jr.	5/73
6. APPLICATION OF FIELD EDIT DATA	BY	P. Gibson	8/73
	CHECKED BY	G. Fromm	11/74
7. COMPILATION SECTION REVIEW	BY	J. Battley,Jr.	1/75
8. FINAL REVIEW	BY	D. Brant	1/75
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. CATOR	8/75

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

* 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-00191

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8
E&L 6" focal length

TIDE STAGE REFERENCE
- [ ] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY

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

TIME REFERENCE
ZONE: Eastern — [X] STANDARD
MERIDIAN: 75th & 60th — [X] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*71E(C)-9522-9525	3/8/71	1207	1:30,000	The stage of tide is inapplicable for the color photography.
70L-7048R-7051R	8/15/70	1406	1:25,000	Refer to the following page for tide information.
70L7159R -7163R	8/17/70	1040	1:25,000	

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-00190	Atlantic Ocean	TP-00192	No contemporary Survey

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

TP-00 191
TIDE INFORMATION

PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
ATLANTIC SHORELINE			
70L-7048R-7051R	Hillsboro Inlet Ocean	+0.12MLW	2.57
70L-7159R-7163R	Hillsboro Inlet Ocean	-0.01MHW	
INTERIOR WATERS			
70L7048R-7051R	Hillsboro Inlet	+0.17MLW	2.53
70L-7159R-7163R	Hillsboro Inlet	-0.09MHW	

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS

TP-00191

I. [X] FIELD INSPECTION OPERATION * [X] 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	
	ESTABLISHED BY	Inapplicable	
	PRE-MARKED OR IDENTIFIED BY		
3. VERTICAL CONTROL	RECOVERED BY	R.R. Wagner	5/73
	ESTABLISHED BY	Inapplicable	
	~~PRE-MARKED OR~~ IDENTIFIED BY	R.R. Wagner	5/73
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	R.R.Wagner	5/73
	LOCATED *(Field Methods)* BY	R.R.Wagner&C.V.Ullman	5/73
	IDENTIFIED BY	C.V. Ullman	5/73
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
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

PHOTO NUMBER	STATION NAME
	Refer to Field Report

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION
71E9522 71E9523 71E9524 71E9525	D234,Z312,K315, M234(PBC),D235,X312, Y312 BOYNTON A RESET(1961), F234,G234,V312,W312 2(SRD),H234,E312

3. PHOTO NUMBERS *(Clarification of details)*

71E9522 thru 9525

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
71E9524	Daybeacon 63, Light 61		

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

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

7. SUPPLEMENTAL MAPS AND PLANS

Boca Bay Colony plat

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*

Sketchbook pages
*The Field Report is bound in this Descriptive Report.

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

RECORD OF SURVEY USE

TP-00191

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No copies of this map 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	3Forms 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

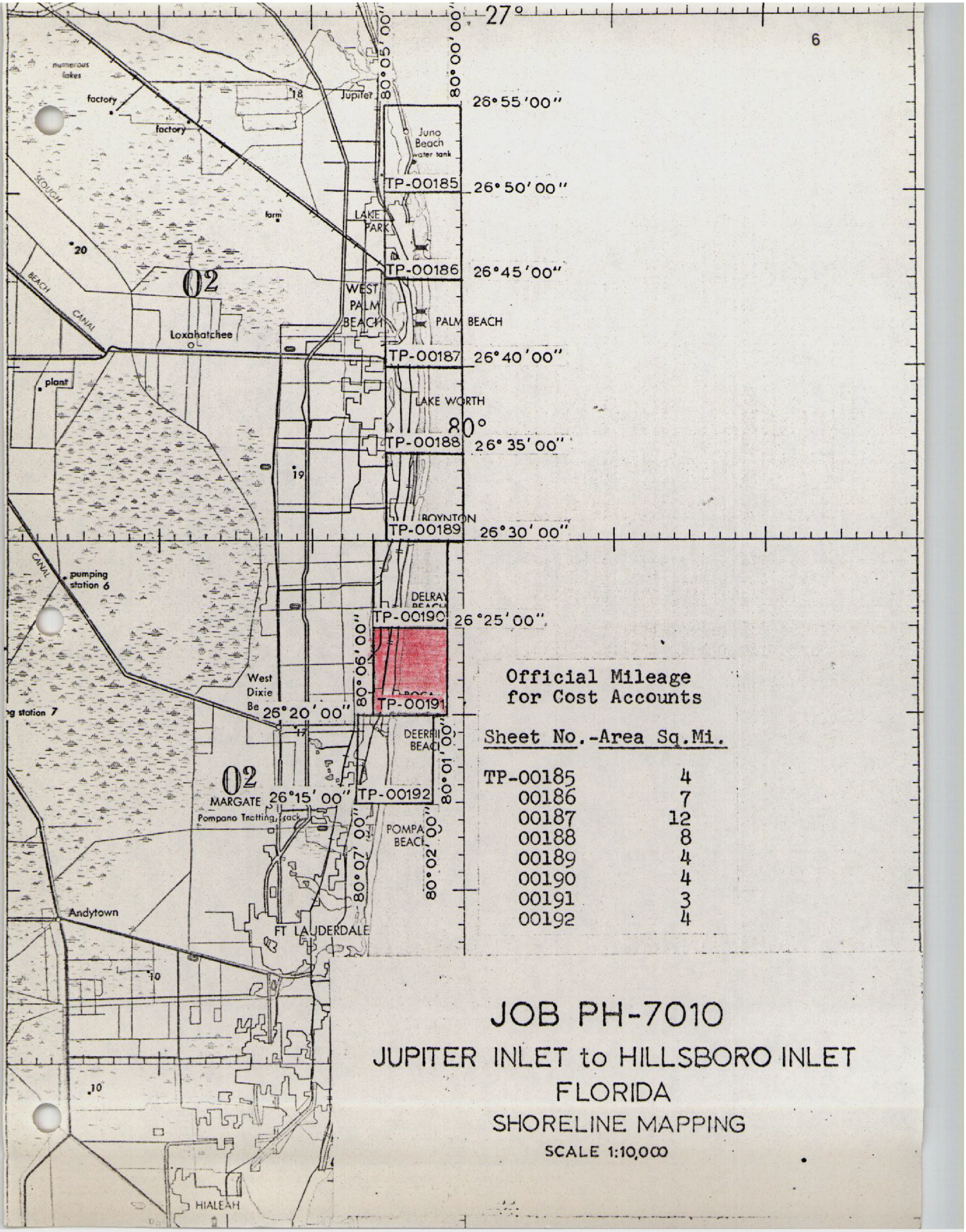
1. ☑ BRIDGING PHOTOGRAPHS; ☑ DUPLICATE BRIDGING REPORT; ☑ COMPUTER READOUTS.
2. ☑ CONTROL STATION IDENTIFICATION CARDS; ☑ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☑ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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

NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6



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-00191

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-00191 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 flourescent 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. trianglewas placed on top of a nearby flat-roofed building approximately 10 feet high, which is a substation.

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 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 North, 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 recordedwhile 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 [illegible]. Lines 30-1, 30-2 and 30-3 were shown at low water. Lines 30-1, 30-2, 30-3, and 30-4 were shown 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) 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 with 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.

<u>High-water photography, March 2.</u>

(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 MAR and PORT 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 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 POMPANO 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

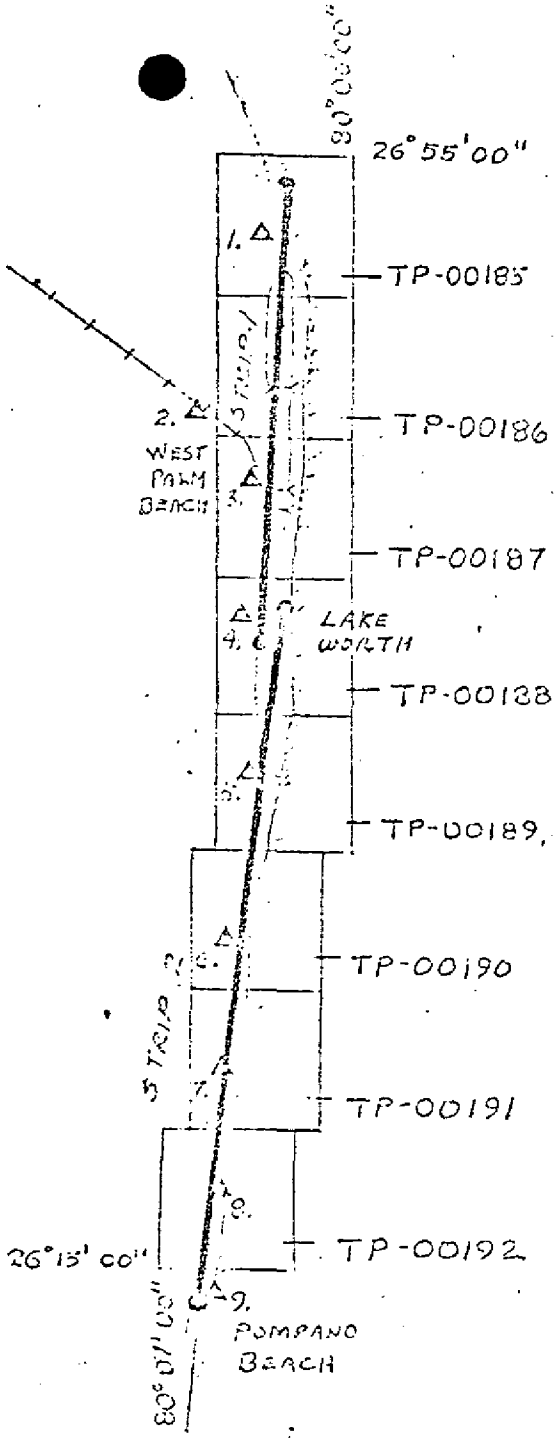
The quality and definition of the photography was adequate.

Respectively submitted,

Victor McNeel

Approved and forwarded:

John D. Perrow, Jr., Chief



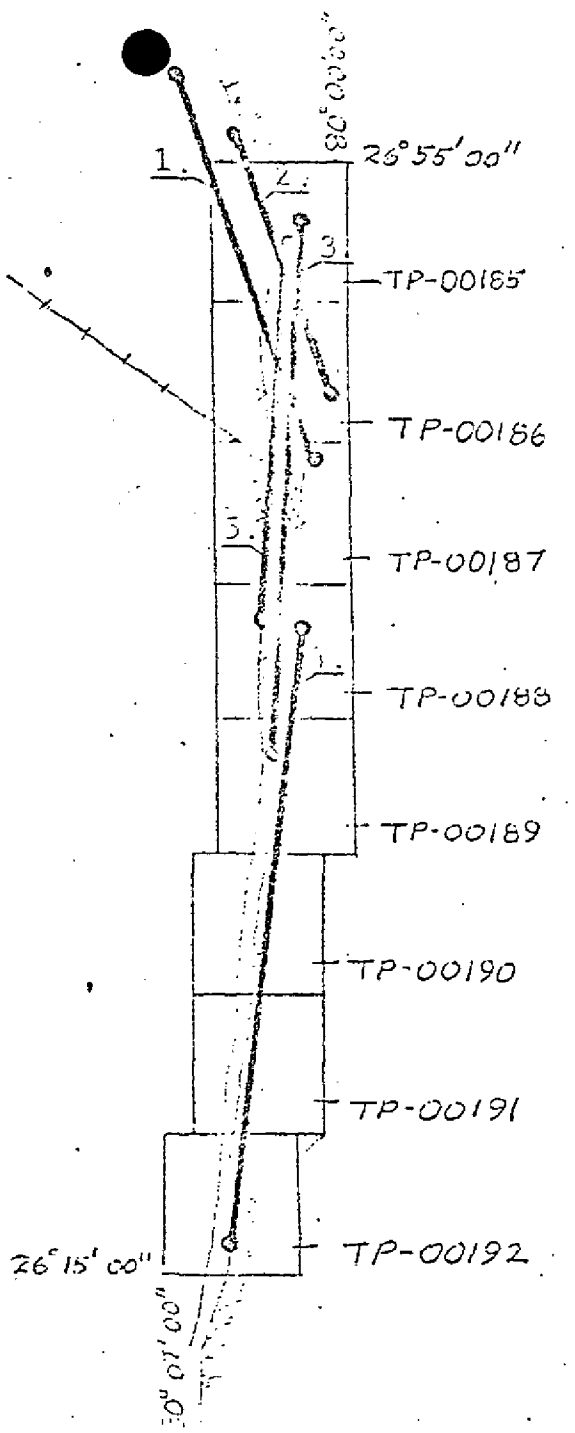
JOB TR-7 (8)
JUPITER INLET TO HILLSBORO INLET
FLORIDA
SHORELINE MAPPING
SCALE 1:10,000

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 [illegible] RM 2, 1933
6. Delray South [illegible] 1934, RM 6 1970
7. Cloister 1929
8. Turtle 1929
9. Pompano 1923 (subpoint A)

△ Horizontal control used in adjustment

○ 1:30,000 scale photography



JOB PR-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
CLOISTER, 1929	Book 422, p. 4, 5, 23, 35, 36 G.P.-Fla. Vol. 1, p. 163, P.C. Fla. E Zone, p. 22
CLUBHOUSE STACK, 1929	Book 422, p. 5, 24 G.P.-Fla. Vol. 1, p. 771, P.C. Fla. E Zone, p. 166
ROCK 2, 1934	Book 422, p. 4, 23, 36, G.P.-Fla. Vol. 1, p. 163, P.C. Fla. E Zone, p. 22
BOCA RATON 2, 1934	Book 422, p. 4, 23, 36, G.P.-Fla. Vol. 1, p. 164, P.C. Fla. E Zone, p. 22
BOCA 1934	Book 422, p. 5, 25, 29, 31, 35, G.P.-Fla. Vol. 1, p. 134, P.C. Fla. E Zone, p. 13

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
2 (SRD)	24.071	FSRD disk stamped 2 24.040; set on top of N end of W concrete bannister of bridge over Boca Raton Inlet.
BOYNTON A RESET	10.184	C&GS disk stamped BOYNTON A RESET 1961; 30 ft. NE of Glades Rd. centerline, 1.5 ft. SE of metal witness post, 11.5 ft. SE of power line brace pole.
D 234	19.242	C&GS disk stamped D 234 1965; 33.2 ft. W of W rail of S-bound track, 14 ft. SW of power line pole, 1.3 ft. E of E fence for abandoned yard, 1.5 ft. S of metal witness post.
F 234	15.010	C&GS disk stamped F 234 1965; 29 ft. NW of NW corner of a concrete telephone bldg., 1.5 ft. S of metal witness post, at SW corner of 2 car parking lot.
G 234	14.695	C&GS disk stamped G 234 1965; 28.5 ft. E of E rail of N-bound track, 2.5 ft. N of sawed off power line pole projecting 1 ft., 1.5 ft. S of metal witness post.
H 234	16.571	C&GS disk stamped H 234 1965; 128 ft. N of Palmetto Rd. centerline, 23.6 ft. W of W rail of S-bound track, 3 ft. S of 1st telegraph pole N of crossing, 2 ft. N of metal witness post.
M 234 (PBC)	10.699	PBC disk stamped M 234; set on top of N end of W concrete abutment of bridge over canal, 20.5 ft. N of NW 40th St. centerline.
D 235	16.650	C&GS disk stamped D 235 1965; 115 ft. E of N Dixie Hwy. centerline, 10.5 ft. W of W curb of S-bound lane of NE 1st Ave., 2 ft. W of power line pole, 1.5 ft. E of metal witness post.
V 312	6.266	C&GS disk stamped V 312 1970; 41.5 ft. W of AlA centerline, 2 ft. E of power pole, 2.2 ft. SE of metal witness post.
W 312	8.911	C&GS disk stamped W 312 1970; 41.4 ft. W of AlA centerline, 15.5 ft. SW of fire hydrant, 2 ft. E of concrete power pole, 2 ft. SE of metal witness post.

Geodetic Bench Mark	Elevations (feet) NGVD 1929	Condensed Description
X 312	23.415	C&GS disk stamped X 312 1970; 41.7 ft. W of AlA centerline, 24.5 ft. SW of fire hydrant, 2 ft. E of concrete light pole, 2.7 ft. NE of metal witness post.
Y 312	21.253	C&GS disk stamped Y 312 1970; 42 ft. W of AlA centerline, 2 ft. E of power line pole, 2 ft. SE of metal witness post.
Z 312	5.272	C&GS disk stamped Z 312 1970; 32.5 ft. W of AlA centerline, 1.7 ft. W of stop sign post, 2.6 ft. NW of metal witness post.
K 315	7.067	C&GS disk stamped K 315 1970; 29 ft. E of AlA centerline, 23.6 ft. NW of concrete light pole.
E 312	5.367	*
F 312	5.157	*
G 312	5.404	*
H 312	6.709	*
J 312	5.420	*

*Description given under Tidal Bench Marks

31. Delineation

The tidal datum lines were delineated from the black-and-white tide-coordinated infrared photography by graphic methods. This photography was controlled by map points determined by aerotriangulation and planimetric features compiled from the orthophoto mosaic.

The land area on this map is shown by an orthophoto mosaic. The orthophoto mosaic was assembled from the rectified prints of the color infrared photography. The orthophoto mosaic was controlled by points determined by aerotriangulation.

32. Horizontal Control

See Photogrammetric Plot Report

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. 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-00191 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 the following USGS quadrangles:

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

47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts;

SC-847, scale 1:40,000, 11th edition, dated Aug. 1972
SC-1248, scale 1:80,000, 14th edition, dated Oct. 1972.

No significant differences were noted.

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 shoreline of the Intracoastal Waterway and adjacent lakes 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.

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

Form 76-40 is also submitted for nonfloating aids. Two were photo-identified, and the others were 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 gage when the tide ranged from 1.0 foot above MLW, to 0.8 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 6/11/73

Robert R. Wagner
Chief, Photo Party 60

Review Report
Coastal Zone Map TP-00191
July 1975

61. General

The map manuscript for Coastal Zone Map TP-00191 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-00191 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 USGS quadrangles:

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

Comparison was made with Nautical Chart:

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

The following differences were found:

1. Boca Bay Colony was under construction at the time of photography (1971). The photography was supplemented by measurements from the plat (Boca Bay Colony, book 29, page 112) submitted by the field editor.

2. Nautical Chart 11467 shows a wreck along the Atlantic shoreline at approximate latitude 26°20.9'. No wreck is shown on Coastal Zone Map TP-00191 and no mention about the wreck was made by the field editor.

3. Nautical Chart 11467 shows piers along the east shoreline of Lake Boca Raton at approximate latitude 26°20.7'. The field edit of 1973 reports (photograph 71E(C)9525) "No pier ruins visible; bottom visible".

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00191 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-00191

Atlantic Ocean
Bel Marra
Blue Inlet
Boca Bay Colony
Boca Harbour
Boca Raton
Boca Raton Inlet
Caribbean Key
El Rio Canal
Floresta
Florida East Coast (RR)
Harbor East
Highland Beach
Lake Boca Raton
Lake Rogers
Lake Rogers Isle
Lake Wyman
Royal Oak Hills
Seaboard Coast Line (RR)
Yamato

Approved:

Charles 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: April 1975

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

JOB NUMBER: PH- 7010
STATE: Florida
SURVEY NUMBER: T - TP-00191
DATUM: N.A. 1927

CHARTING NAME	DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE D.M./METERS	POSITION LONGITUDE ° ′	LONGITUDE D.P./METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
DYBN 54	LAKE WORTH INLET- HILLSBORO INLET LAKE WYMAN	26 23	3.70 114.0	80 04	17.34 480.9			P.4 5/22/73	NC 1248 847-SC
DIGHT 56	" "	26 22	26.38 812.0	80 04	25.39 704.1			"	"
DYBN 57	" "	26 22	23.00 708.0	80 04	22.84 633.4			"	"
DYBN 59	" "	26 22	7.83 241.0	80 04	19.70 546.3			"	"
DYBN 60	" "	26 21	52.67 1621.1	80 04	19.25 533.7			"	"
LIGHT 61	" "	26 21	48.76 1500.8	80 04	16.63 461.1			"	"
DYBN 63	" "	26 21	38.24 1177.1	80 04	25.67 712.0			"	"
DYBN 64	LAKE BOCA RATON	26 20	46.03 1416.8	80 04	33.35 924.8			P.4 5/10/73	"
LIGHT 65	" " "	26 20	45.68 1406.0	80 04	30.59 848.5			"	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	R. R. Wapner	☐ FIELD INSPECTOR ☒ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	C. V. Ullman	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	☐ 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.'

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

NOAA FORM 76-40
(8-73)
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: April 1975

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

JOB NUMBER: PH- 7010

STATE: FLORIDA

SURVEY NUMBER: T - TP-00191

DATUM: N.A. 1927

CHARTING NAME	DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE ″ D.M. METERS	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
DYBN 66	LAKE BOCA RATON	26 20	28.67 882.4	80 04	37.63 1043.5			P.4 5/10/73	NC 1248 847-SC
LIGHT 67	" " "	26 20	27.29 839.9	80 04	35.69 989.8			"	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	R. R. Warner	☐ FIELD INSPECTOR ☑ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	C. V. Ullman	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	☐ REVIEWER ☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

F – Field	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.'

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

NOAA FORM 76-40
(1-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
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- ☐ COMPILATION
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(See reverse for responsible personnel)

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☐ TO BE DELETED

ORIGINATING LOCATION: Rockville, Maryland

DATE: April 1975

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JOB NUMBER: PH- 7010

STATE: FLORIDA

SURVEY NUMBER: T - TP-00191

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
TANK	BOCA RATON MUNI. N. TANK 1970 Ht=149(159)	26 20	13.756 423.34	80 05	26.584 737.23			Triang.Rec 5/1/73	NC 1248 847-SC
TANK	BOCA RATON MUNI. S. TANK 1970 Ht=108(124)	26 23	14.769 454.52	80 04	52.617 1458.54			"	"
SPIRE	BOCA RATON FIRST PRESB. CHURCH SPIRE 1970 Ht=97(110)	26 20	36.78 1131.90	80 05	53.18 1474.68			"	"

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RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	R. R. Wagner	☐ FIELD INSPECTOR ☑ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	C. V. Ullman	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	☐ REVIEWER ☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

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COLUMN TITLE	TYPE OF ENTRIES
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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.

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

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

TP-00191
National Archives Data

1 Field edit sheet

1 Discrepancy print

3 Forms 76-40

3 pages sketchbook

4 pages tide data

1 Plat of Boca Bay Colony

Photography:

71E(C)9522-9525 (black and white ratio)