TP-00192

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-00192

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

Field Edited Map

## LOCALITY

*State* Florida

*General Locality* Broward County
Palm Beach County

*Locality* Deerfield Beach to
Hillsboro Inlet

1970 TO 1973

## REGISTRY IN ARCHIVES

DATE

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

TP-00192

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

# DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: ☒ ORIGINAL ☐ RESURVEY ☐ REVISED

SURVEY TP00192

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<br>OFFICE-Supplement 1, August 19, 1973<br>NOTE: Office and Field Edit Instructions(1973) incorporate applicable prior operational instructions.<br>OFFICE-Supplement II, Sept. 24, 1973 | Aerial Photography 9/2/69<br>Supplement 1, 1/28/70<br>Supplement II, 3/26/70<br>Supplement III, 8/10/72<br>Field Edit(PH-7000 General Instructions for Florida Coastal Zone Mapping)1973 |

## II. DATUMS

1. HORIZONTAL: ☒ 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: ☒ MEAN HIGH-WATER ☒ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Transverse Mercator

4. GRID(S)

| STATE | ZONE |
|---|---|
| Florida | East |
| | |

5. SCALE: 1:10,000

## III. HISTORY OF OFFICE OPERATIONS

| OPERATIONS | | NAME | DATE |
|---|---|---|---|
| 1. AEROTRIANGULATION | BY | V. McNeel | 12/71 |
| METHOD: | LANDMARKS AND AIDS BY | Inapplicable | |
| 2. CONTROL AND BRIDGE POINTS | PLOTTED BY | D. Phillips | 5/72 |
| METHOD: | CHECKED BY | Inapplicable | |
| 3. STEREOSCOPIC INSTRUMENT COMPILATION | PLANIMETRY BY | Inapplicable | |
| | CHECKED BY | | |
| INSTRUMENT: | CONTOURS BY | Inapplicable | |
| SCALE: | CHECKED BY | | |
| 4. MANUSCRIPT DELINEATION | PLANIMETRY BY | C. Lewis | 5/73 |
| Shoreline:Graphic | CHECKED BY | J.Battley,Jr. | 5/73 |
| METHOD: | CONTOURS BY | Inapplicable | |
| Interior:Orthophoto mosaic | CHECKED BY | | |
| | HYDRO SUPPORT DATA BY | J. Taylor | 11/72 |
| SCALE: 1:10,000 | CHECKED BY | J.Battley,Jr. | 11/72 |
| 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 | 12/73 |
| 7. COMPILATION SECTION REVIEW | BY | J.Battley,Jr. | 1/74 |
| 8. FINAL REVIEW | BY | D. Brant | 1/74 |
| 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. 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-00192

# COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

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

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

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

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

| 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.



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

| PHOTOGRAPHY | TIDE STATIONS (In operation at time of photography) | STAGE OF TIDE | MEAN RANGE |
|---|---|---|---|
| ATLANTIC SHORELINE | | | |
| 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 | |
| INTERIOR WATERS | | | |
| 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 | |

NOAA FORM 76-36C
(3-72)

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

# HISTORY OF FIELD OPERATIONS

TP-00192

I. [X] FIELD INSPECTION OPERATION * [X] 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 | 6/73 |
| | ESTABLISHED BY | Inapplicable | |
| | PRE-MARKED OR IDENTIFIED BY | Inapplicable | |
| 3. VERTICAL CONTROL | RECOVERED BY | R.R.Wagner | 6/73 |
| | 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 | 6/73 |
| | LOCATED (*Field Methods*) BY | C.V.Ullman | 6/73 |
| | IDENTIFIED BY | C.V.Ullman | 6/73 |
| 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 | 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 | NO5,D226,E235,X311,C312 |
| | | 71E9527 | R234,A312,B312 |
| | | 71E9528 | NO1,NO2,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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] 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 76-36C
(3-72)

*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-00192

## 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:

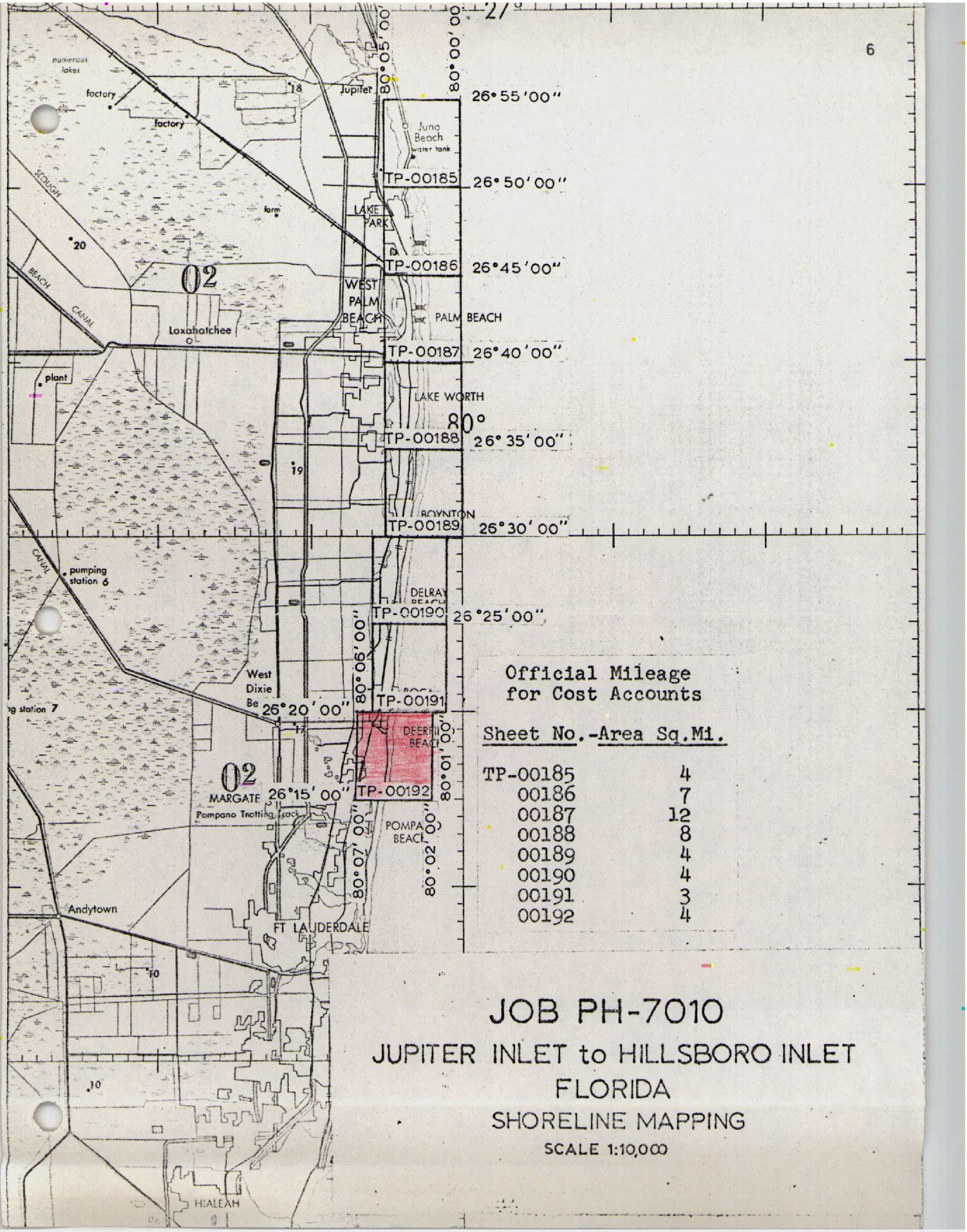
4. [ ] DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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



☆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-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)

[redacted]

# 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 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) An 8 mile segment of line 30-1, based on ANDREWS AVENUE BRIDGE was photographed at 1511 to 1515 hrs.,

[redacted]

## 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 FORFAIR 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 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

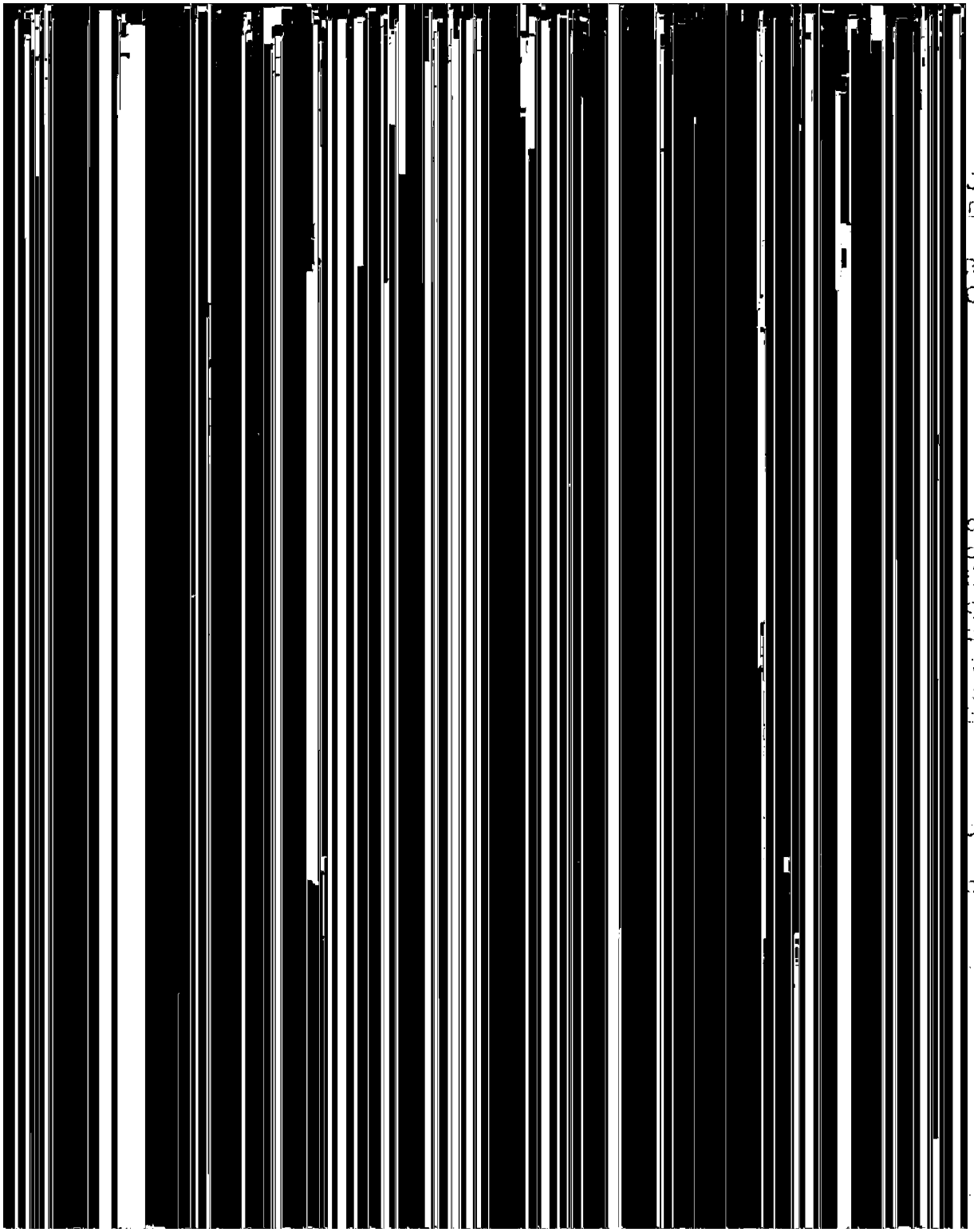
The quality and definition of the photography was adequate.

Respectively submitted,

Victor McNeel

Approved and forwarded:

John D. Perrow, Jr., Chief
Aerotriangulation Section



JOB TR-7 (19)
LET TO HILLSBORO INLET
FLORIDA
REDLINE MAPPING
CALE 1:10,000

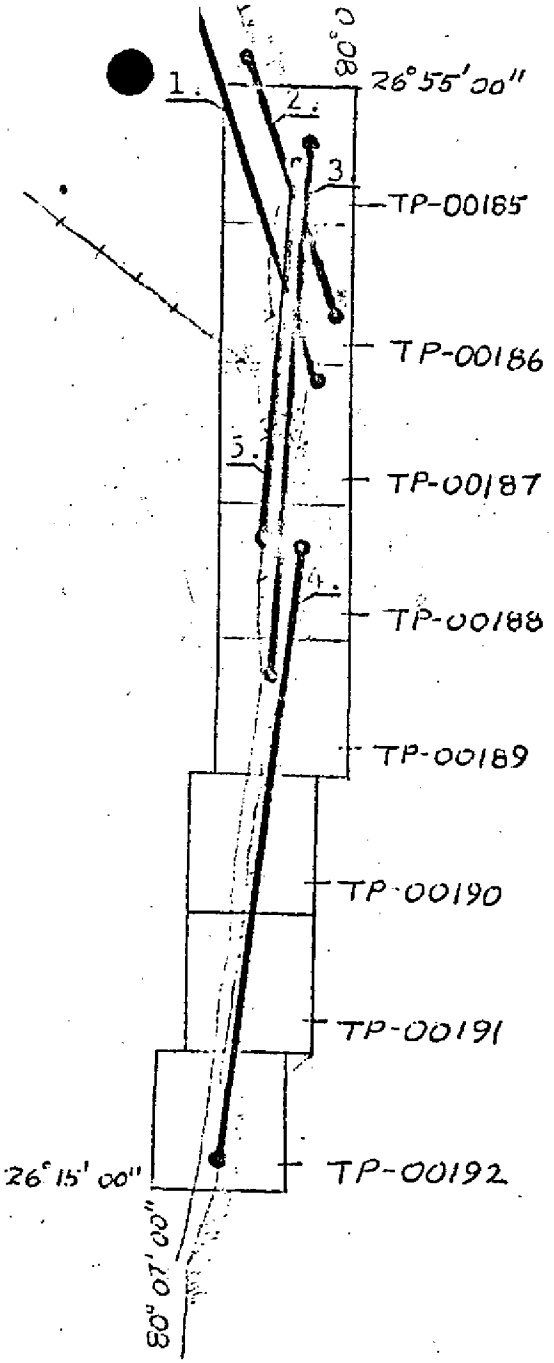
CONTROL

subpoint)
oint 1)
point A)
M 2, 1933
1934, RE 6.1970

point A)

ol used in adjustment

notography




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-HCUSE, CENTER, 1934 | Book 422, p. 6, 35 G.P.-Fla. Vol. 1, p. 192, P.C. Fla. E Zone, p. 50 |
| TURTLE, 1929 | 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) NGVD 1929 | Condensed Description |
|---|---|---|
| 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 or 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. center-line 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) NGVD 1929 | Condensed Description |
|---|---|---|
| 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 reparted 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:

[redacted]

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

Arlington Park

Barwal

Boca Raton

Broward Hilghlands

Carver Heights

College Park

Coral Manor

Deerfield Beach

Eastway Park

El Rio Canal

Fairlawn

Foresta Estates

Florida East Coast (RR)

Hillsboro Bay

Hillsboro Beach

Hillsboro Canal

Hillsboro Inlet

Hillsboro River

Lake Placid

Lighthouse Point

Little Harbor on the Hillsboro

North Pompano Beach

Ocean Vue

Park Haven

Pompano Beach

Pompano Beach Airpark

Pompano Beach Highlands

Shorewood

The Cove

Approved:

Charles E. Harrington

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

SURVEY NUMBER: T - TP-00192

STATE: FLORIDA

DATUM: N.A. 1927

| CHARTING NAME | DESCRIPTION | POSITION LATITUDE ° ′ | LATITUDE ″ D.M. METERS | LONGITUDE ° ′ | LONGITUDE ″ D.P. METERS | METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION | COMPILATION | FIELD EDIT | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|---|---|
| | LAKE WORTH INLET–<br>HILLSBORO INLET<br>HILLSBORO RIVER | | | | | | | | |
| DYBN 68 | | 26 16 | 31.7<br>974.1 | 80 04 | 53.2<br>1475.0 | | | P.3<br>6/12/73 | SC-847 |
| LIGHT 69 | | 26 15 | 58.5<br>1800.2 | 80 04 | 52.8<br>1464.6 | | | " | " |
| DYEN 70 | | 26 15 | 53.1<br>1635.2 | 80 04 | 57.5<br>1595.9 | | | " | " |
| | HILLSBORO INLET<br>BISCAYNE CREEK | | | | | | | | |
| LIGHT 71 | HILLSBORO RIVER LIGHT | 26 15 | 46.1<br>1417.5 | 80 05 | 58.6<br>1626.7 | | | P.1<br>6/13/73 | " |
| LIGHT 1 | HILLSBORO INLET<br>PRIVATE MAINTAINED<br>ENTRANCE LIGHT | 26 15 | 20.5<br>633.0 | 80 04 | 49.7<br>1377.9 | | | P.4<br>6/14/73 | SC 847<br>NC 1248 |
| LIGHT 2 | PRIVATE MAINTAINED<br>ENTRANCE LIGHT | 26 15 | 23.8<br>733.8 | 80 04 | 49.6<br>1375.9 | | | " | " |
| | | | | | | | | | |
| | | | | | | | | | |

| RESPONSIBLE PERSONNEL | | |
|---|---|---|
| TYPE OF ACTION | NAME | TITLE |
| 1. Objects inspected from seaward | | ☐ FIELD INSPECTOR<br>☐ 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<br>D. BRANT | ☐ REVIEWER<br>☒ 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

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

TION NO. 64. NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

(See reverse for responsible personnel)

ORIGINATING LOCATION: Rockville, Maryland

DATE: April 1975

have not) been inspected from seaward to determine their value as landmarks.:

SURVEY NUMBER: T – TP-00192

DATUM: N.A. 1927

| 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 |
|---|---|---|---|---|---|---|---|---|
| .O INLET LIGHTHOUSE<br>1934<br>48) | 26 15 | 31.64<br>973.7 | 80 04 | 51.59<br>1431.7 | | | Triang.Rec.<br>6/13/73 | 847-SC<br>1248 |
| RO BEACH MUN.<br>970<br>(147) | 26 16 | 34.68<br>1067.0 | 80 06 | 36.65<br>1016.9 | | | " | " |
| BEACH HIGHLANDS<br>TIL. TANK, 1970<br>140) | 26 17 | 25.02<br>769.9 | 80 05 | 48.4<br>1342.8 | | | " | " |
| O BEACH MUNI.<br>970<br>L51) | 26 18 | 21.35<br>657.0 | 80 06 | 12.75<br>353.6 | | | " | " |
| RO INLET RADIO | 26 15 | 33.79<br>1039.7 | 80 04 | 50.91<br>1412.8 | | | P.1<br>6/18/73 | " |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

27

| RESPONSIBLE PERSONNEL | | |
|---|---|---|
| TYPE OF ACTION | NAME | TITLE |
| 1. Objects inspected from seaward | | ☐ FIELD INSPECTOR<br>☐ 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<br>D. Brant | ☐ REVIEWER<br>☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE |

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| 3. Intersection | 3. Planetable | |
| 4. Resection | 4. Sextant | P.2 |
| a. Theodolite | | |
| b. Planetable | | |
| c. Sextant | | |

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



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

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)