

00419

00419

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-7113 Map No. TP-00419

Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State Florida

General Locality Dade County

Locality Hollywood to North Miami

Beach

19 71 TO 19 75

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.							
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED							
PHOTOGRAMMETRIC OFFICE Rockville, Maryland		SURVEY TP. <u>00419</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB PH. <u>7113</u>							
OFFICER-IN-CHARGE Commander James Collins		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__							
I. INSTRUCTIONS DATED									
1. OFFICE		2. FIELD							
General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, December 9, 1975 Supplement I, November 4, 1974 Supplement III, October 24, 1974 NOTE: Office and field edit instructions (1975) incorporate applicable prior operational instructions.		Aerial Photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000 General Instructions for Florida Coastal Zone Mapping) 1973							
II. DATUMS									
1. HORIZONTAL:		OTHER (Specify)							
<input checked="" type="checkbox"/> 1927 NORTH AMERICAN									
2. VERTICAL:		OTHER (Specify)							
<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									
3. MAP PROJECTION Transverse Mercator		4. GRID(S) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STATE</td> <td style="width: 50%;">ZONE</td> </tr> <tr> <td>Florida</td> <td>East Zone</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>		STATE	ZONE	Florida	East Zone	STATE	ZONE
STATE	ZONE								
Florida	East Zone								
STATE	ZONE								
5. SCALE 1:10,000									
III. HISTORY OF OFFICE OPERATIONS									
OPERATIONS		NAME	DATE						
1. AEROTRIANGULATION BY		Ivey O. Raborn, Jr.							
METHOD: Analytic LANDMARKS AND AIDS BY		Ivey O. Raborn, Jr.							
2. CONTROL AND BRIDGE POINTS PLOTTED BY		J. Taylor							
METHOD: Calcomp CHECKED BY									
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY		Inapplicable							
COMPILATION CHECKED BY									
INSTRUMENT: Orthophotomosaic XX000000 BY		J. Taylor							
SCALE: CHECKED BY		J. Battley, Jr.							
4. MANUSCRIPT DELINEATION PLANIMETRY BY		S. Solbeck & R. Rich							
CHECKED BY		C. Lewis							
METHOD: CHECKED BY		Inapplicable							
SCALE: HYDRO SUPPORT DATA BY		Inapplicable							
CHECKED BY		Inapplicable							
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		P. Dempsey							
CHECKED BY		S. Solbeck-R. Rich							
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		J. Battley, Jr.-L. Lewis							
7. COMPILATION SECTION REVIEW BY		C. Lewis							
8. FINAL REVIEW BY		D. Brant							
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY									
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		D. Brant							
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		24-10 M/0280							

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

COMPILATION SOURCES

TP-00419

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 L-K &B 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 type="checkbox"/> DAYLIGHT
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Eastern	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
73L(C) 9972-9975	12/7/73	11:30	1:30,000	The stage of tide is in-applicable for this photography	
73L(C) 9956-9957		11:06	1:30,000		
*75B8002-4-6	11/24/75	10:20	1:30,000		
71K5824R-5828R	3/2/71	12:58	1:30,000	Refer to NOAA Form 76-36B1 for stage of tide data	
71K5645R-5648R	2/24/71	12:30	1:30,000		
71K5763R-5764R	3/2/71	10:50	1:30,000		

REMARKS

* photography used in orthophotomosaic assembly.

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 culture features and compiling the limits of shoal and shallow areas for nautical charts. The 1973 color photography and the 1975 panchromatic photography was also used to update culture shoreline.

Where the shoreline is obscured by vegetation such as mangrove, the apparent shoreline is mapped.

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

The source of the MLW line is the 1971 tide-coordinated, black-and-white infrared photography listed under item 1. The MLWL was photo interpreted in areas of new construction from the 1973 color and 1975 panchromatic photography.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00418	Atlantic Ocean	TP-00420	No Survey

REMARKS

Final junctions were made in the Coastal Mapping Section.

NOAA FORM 76-36B(1)
(7-75)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TIDE - COORDINATED PHOTOGRAPHY

TP - 00419

LOCATION AND PHOTOGRAPHY	TIDE STATIONS <i>(In operation at time of photography)</i>	STAGE OF TIDE	MEAN RANGE
71K5824R-5828R	MIAMI, HARBOR ENTRANCE	-0.16 MHW	2.51'
71K5763R-5764R	NORTH MIAMI, BISCAYNE CREEK	-0.35 MHW	2.19'
71K5645R-5648R	MIAMI, HARBOR ENTRANCE N. MIAMI, BISCAYNE CREEK	-0.39 MLW +0.50 MLW	2.51' 2.19'
REMARKS:			

NOAA FORM 76-36C
(3-72)

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

TP-00419

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION * Mar. 1971
Dec. 1975 ☒ FIELD EDIT OPERATION Feb. 1975

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY R. R. Wagner ESTABLISHED BY Inapplicable PRE-MARKED OR IDENTIFIED BY Inapplicable	Feb. 1975
3. VERTICAL CONTROL	RECOVERED BY R. R. Wagner ESTABLISHED BY Inapplicable XXXXXXXXXX IDENTIFIED BY R. R. Wagner	Aug. 1973 Aug. 1973
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Inapplicable LOCATED (Field Methods) BY R. R. Wagner IDENTIFIED BY R. R. Wagner	Feb. 1975 Feb. 1975
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 R. R. Wagner	Feb. 1975
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
		71E9133	R 314
		71E9570	A-1 (DWC), X 239 (SRD), Y 239, Q 314
		71E9571	A-2 (DWC), A-3 (DWC), T 239, U 239 (SRD), TIDAL 1
		71E9572	IWBW 132 (USE), A-5 (DWC), A-7 (DWC), A-9 (DWC), Y-238, R 239, S 239, TIDAL 3

3. PHOTO NUMBERS (Clarification of details)

73L9956, 9957, 9972, 9973, 71K5825R, 71K5645R.

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Refer to supplement II

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
73L9972	Tank		
73L9973	Tank		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

* Refer to the field reports bound with this Descriptive Report.

Sketchbook pages.

5/25/77 JFV

RECORD OF SURVEY USE

TP-00419

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Class I	1/27/77	Special request from Requirements Branch	1/27/77	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		3/9/77	3 Digitized pages of Form 76-40 have been forwarded to the Marine Chart Division as a final report.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3/9/773. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

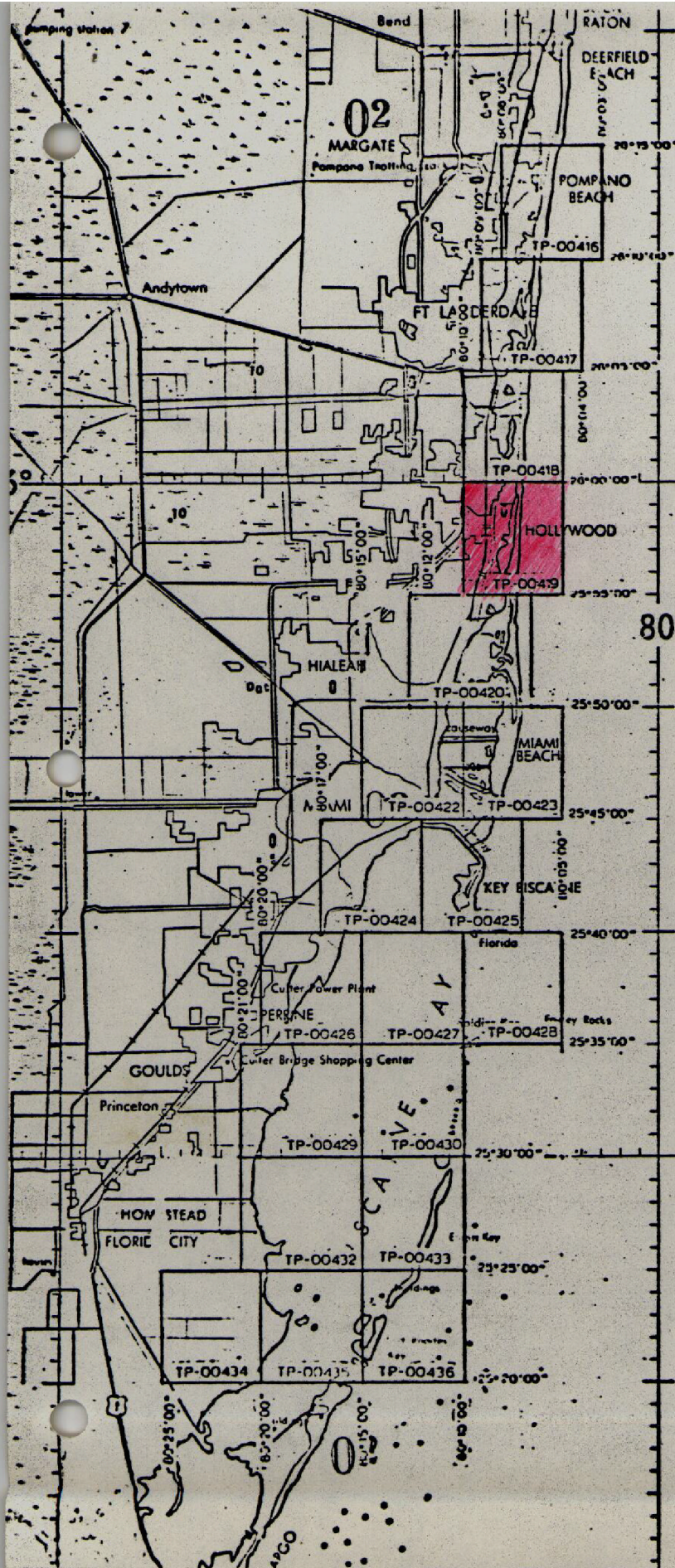
III. FEDERAL RECORDS CENTER DATA

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

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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



JOB PH-713
HILLSBORO INLET to CARD SOUND
FLORIDA
SHORELINE MAPPING
SCALE 1:10,000

MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles
TP-00416	3
TP-00417	3
TP-00418	3
TP-00419	8
TP-00420	10
TP-00422	4
TP-00423	6
TP-00424	4
TP-00425	6
TP-00426	4
TP-00427	1
TP-00428	1
TP-00429	4
TP-00430	1
TP-00432	4
TP-00433	3
TP-00434	1
TP-00435	5
TP-00436	5

Total 76

REVISED 5-1-75
Revised 7-11-74

7

SUMMARY
for
TP-00419

Coastal Zone Map TP-00419 is one of nineteen (19) 1:10,000 scale maps in job PH-7113. Maps TP-00416 through TP-00420 and TP-00422 through TP-00426 are published maps in three colors. The interior of these maps is shown with an orthophotomosaic. Maps TP-00427 through TP-00430 and TP-00432 through TP-00436 are mapped as shoreline type maps and will not be published. The interior of these shoreline type maps is limited to a narrow zone of planimetry usually back from the shoreline to and including the first road.

The original compilation of map TP-00419 was interrupted because of a new adjustment of horizontal control, poor quality of photography, and new construction in the area. A detailed account of these delays is outlined in the Compilation Report and Addendum to the Compilation Report.

A layout of the maps (revised since the aerotriangulation operation) will show the location of the individual maps. A copy of this layout is included in this Descriptive Report.

The maps are intended for planning purposes for the State of Florida and for the construction and maintenance of NOS nautical charts.

The area is covered with aerial photography taken in 1971, 1973, and 1975 on panchromatic, color, and black-and-white infrared film. The infrared film was tide coordinated.

The field operations consisted of the following:

1. Premarking of horizontal control for aerotriangulation
2. Establishment of tidal datums
3. Field edit

Horizontal control was extended by analytical aerotriangulation methods using the STK stereo comparator.

The shoreline and alongshore details were compiled on both types of maps from tide-coordinated, black-and-white infrared photography using a B-8 stereoplotter and/or graphic methods. The 1975 panchromatic photography was used to update culture shoreline.

All line work is scribed, approved symbols are shown in the marginal data of the map.

A registration copy of each type map is prepared. It shows additional offshore details such as shoal and shallow lines, useful to the Marine Chart Division, but not required on the Coastal Zone Maps. This copy of the map is labeled "Registration Copy" in the title block and will be registered in the NOS Archives.

The following items for map TP-00419 will be registered in the NOS Archives:

1. A plastic copy of the published map
2. A stable base positive copy of the Registration Copy
3. A continuous tone negative of the orthophotomosaic
4. The Descriptive Report

All negatives are filed in the Reproduction Division.

All field records such as field edit sheets, discrepancy prints, field edit data, and control forms are filed in the National Archives.



FIELD REPORT PH 7113

I. HORIZONTAL CONTROL.

Seven control points were premarked for this project.

Control Pt. 1

DANIA 2 1934 was marked direct with array No. 1 and 3 wing panels.

DANIA RM 3 was marked direct with array No. 1 and no wing panels.

Control Pt. 2

CLUB 1934 was marked direct with array No. 1. No wing panels could be placed on the roof.

CLUB RM 1 is the center of a chimney. Form 152 was submitted for RM 1 in case the wind removed the panel for CLUB 1934.

Control Pt. 3

BASE (USE) 1934 marked direct with array No. 2 and two wing panels.

DINO 1967 marked direct with array No. 1 and one wing panel.

Control Pt. 4

CAPE FLORIDA OLD TOWER, FINIAL 1853 was identified by a Sub Pt. using array No. 1 and two wing panels.

Control Pt. 5

LIBRARY 1934 was marked direct with array No. 1 with one wing panel. The wingpanel is on a lower roof than the station.

Control Pt. 6

PAN AMERICAN 1935 was identified by Sub Points. Point A is marked by array No. 1 and no wing panel. Point B is the center of a shaft on the penthouse roof.

Control Pt. 7

NACO 1934 was identified by two sub points. Sub point A is marked by array No. 1 with one wing panel. Sub Point B is marked by array No. 2 and two wing panels.

II. Foreshore Profiles

Not required.

Submitted by

Robert R. Wagner
Robert R. Wagner
Chief, Photo Party 66
12/01/75



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.

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

2.

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

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

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

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

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

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

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

We were advised by the Commander of aircraft that Line 30-1, Job PH-7113, was photographed February 24 and the other lines on both Jobs on March 6.

2. TIDE COORDINATED PHOTOGRAPHY

As directed by telephone, the following nine tide

3.

stations were manned.

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

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

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

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

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

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

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

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

4.

(4) An 8 mile segment of line 30-1, based on ANDREWS AVENUE BRIDGE was photographed at 1511 to 1515 hrs., when the staff read 1.8 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 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 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.

5.

3. FORESHORE PROFILES

Ten planetable beach profiles were run within the limits of Job PH-7113. They cover a linear distance of approximately 40 miles. The northerly one is at triangulation station POMPANU 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
Miami Harbor Area
Fort Lauderdale to Key Biscayne, Florida
PH-7113
June 30, 1976

21. Area Covered

This report covers the area along the east coast of Florida from Ft. Lauderdale to Key Biscayne, and is covered by six 1:10,000 scale sheets TP-00419, TP-00420, and TP-00422 thru TP-00425 and Chart 547.

22. Method

Two strips of 1:30,000 scale black-and-white photography were bridged by analytic aerotriangulation methods to control two strips of 1:10,000 and four strips of 1:15,000 scale color photography. The two strips of 1:30,000 scale black-and-white photography were controlled by field identified control paneled in 1975. Old control, which was office identified, was floated for checks. Ties were made between all strips. The attached sketch shows the flight lines of all the strips and the placement of field identified control. This job was adjusted on the old control.

Positions were determined for field identified, nonfloating aids to navigation. Positions for key landmarks (determined by previous surveys) were also checked and positioned during bridging operations.

Common points were transferred from the previous survey to this survey by the compilation section. Strip number one checked in excellent with the previous survey but strip two in the adjustment ranged from 0 to 10 feet in checking with this survey. The compilation section also tied the two 1:60,000 scale photographs to the bridging photography. Data were furnished to the compilation section for plotting in the Florida East Zone.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

25. Photography

The photography was adequate as to coverage and overlap, and definition for bridging operations. It may be necessary for the compilation section to have the photo lab remake some of the color photography because of its poor quality.

Respectfully submitted,

Ivey O. Raborn, Jr.
Ivey O. Raborn, Jr.

Approved and Forwarded:

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

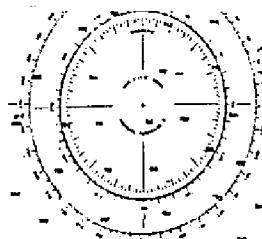
LIST AND ACCURACY OF CONTROL USED IN STRIP ADJUSTMENT

	<u>POINT</u>	<u>X - Error</u>	<u>Y - Error</u>
STRIP #1	103101	- 0.7	0
	103102	- 0.4	- 0.5
	106110	+ 2.0	+ 2.0
	108101	+ 1.0	- 0.6
	108102	+ 1.7	- 1.0
	111111	+ 2.5	- 1.3
	111112	+ 2.8	+ 1.3
	111113	0	+ 2.0
	111114	0	+ 0.5
	111101	- 0.6	+ 0.8
	111110	0	+ 1.3
	111115	- 1.0	+ 2.9
	111116	0	- 0.8
	115100	0	- 0.3
	115101	0	- 1.2
	115102	+ 1.6	+ 2.0
STRIP #2	202100	0	0
	202101	- 1.0	+ 1.0
	202100	- 0.7	0
	202101	- 1.2	+ 0.7
	205110	0	+ 1.0
	115100	- 0.8	- 0.4
	115101	0	- 0.9
	115102	+ 1.0	+ 0.5
	210110	+ 2.6	+ 1.4
	502110	- 5.0	+ 3.7
	405110	+ 0.5	- 0.7
	406110	+ 1.8	- 1.2
	407100	- 0.5	+ 0.3
	407110	0	+ 0.4
	408100	- 1.0	+ 0.5
	508110	+ 1.5	- 1.0
	407111	0	- 0.4
	220101	+ 0.3	- 0.3

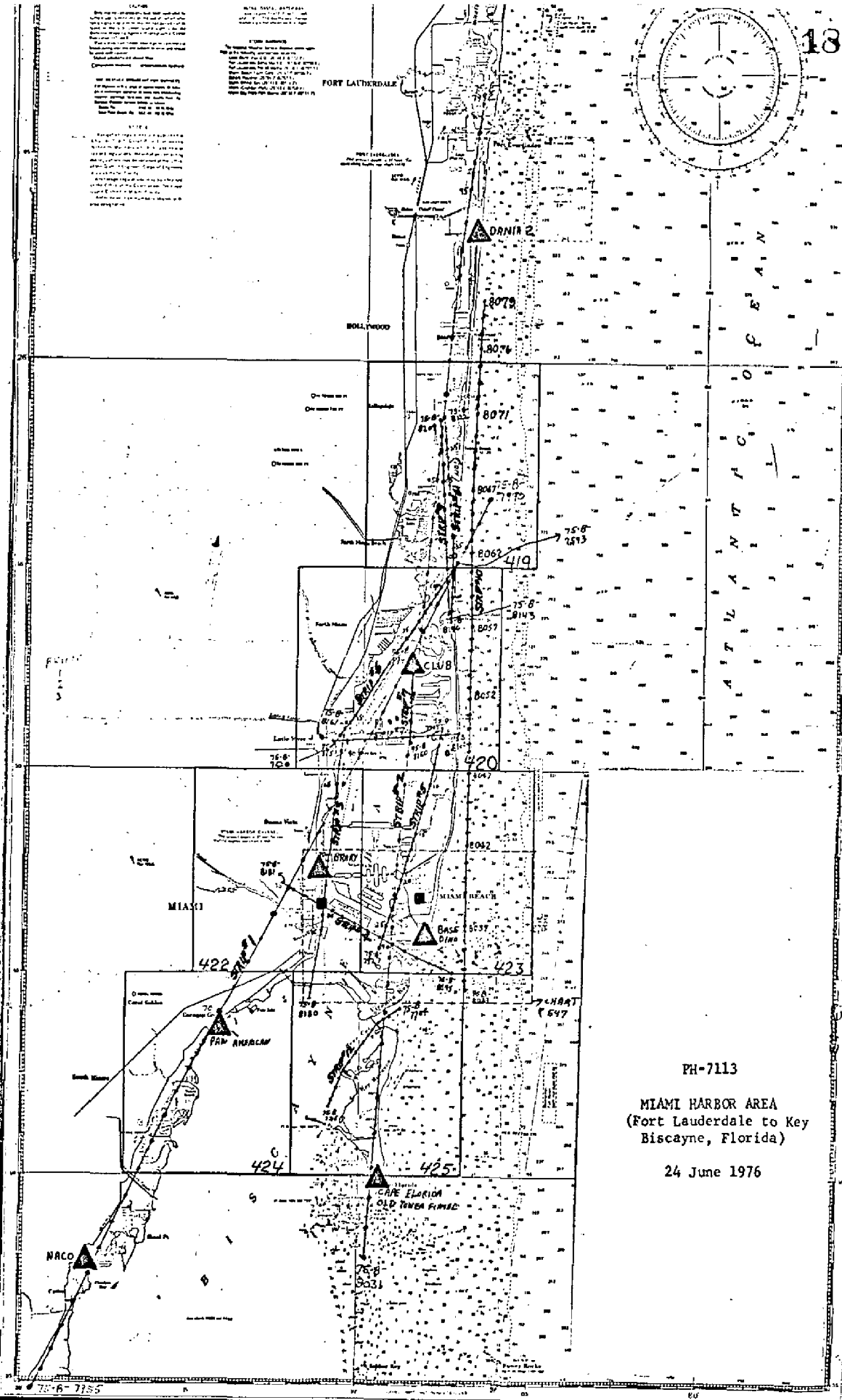
NOTES:
This map is intended for use as a guide only. It is not to be used for navigation. The user is responsible for the accuracy of the information obtained from this map. The map is not to be used for any purpose other than that for which it was designed.

GENERAL INFORMATION:
This map is a reproduction of the original map. It is not to be used for navigation. The user is responsible for the accuracy of the information obtained from this map. The map is not to be used for any purpose other than that for which it was designed.

NOTES:
This map is intended for use as a guide only. It is not to be used for navigation. The user is responsible for the accuracy of the information obtained from this map. The map is not to be used for any purpose other than that for which it was designed.



18



PH-7113
MIAMI HARBOR AREA
(Fort Lauderdale to Key
Biscayne, Florida)
24 June 1976



Printed at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL SEA CLIMATE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

(Jupiter Inlet to Fowey Rocks)
Revised in 1971, 1974, 1976

1146C
(Primary CACS 1249)

Photogrammetric Plot Report
Hollywood to Miami Beach, Florida
June 1974

21. Area Covered

The area covered by this report is along the east coast of Florida from Hollywood to Miami Beach. This area is covered by two 1:10,000 scale sheets TP-00419 and TP-00420.

22. Method

Three strips of 1:30,000 scale color photography were bridged by aerotriangulation methods. The strips were controlled by transferred pass points from 1971 color photography. The attached sketch shows the flight lines of the photography and the placement of the control used in this adjustment. Data for plotting the points were furnished to the Compilation Section.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

USGS quadrangles were used to provide vertical control.

25. Photography

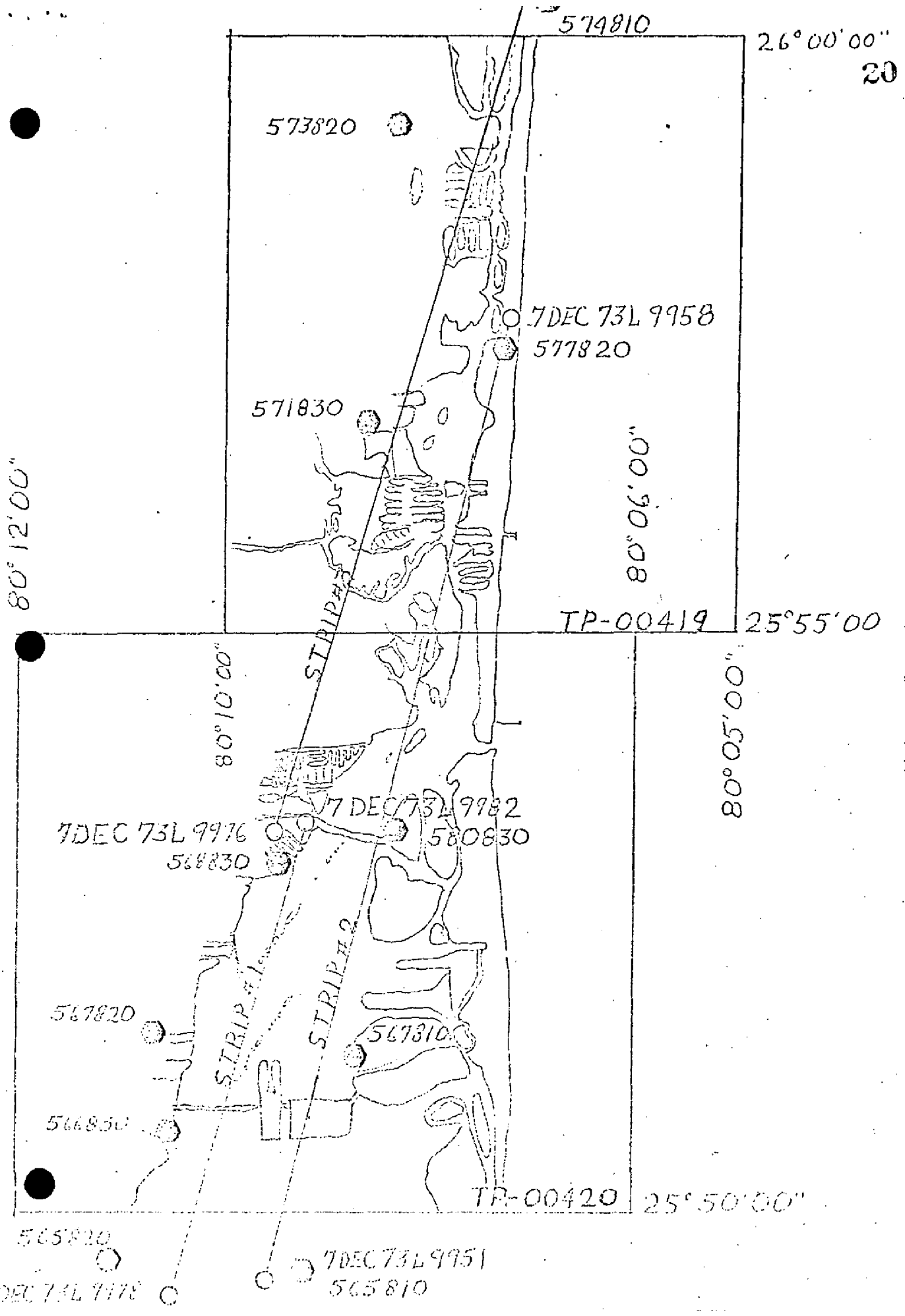
The photography was adequate.

Respectfully submitted,

Ivey O. Raborn, Jr.
Ivey O. Raborn, Jr.

Approved and forwarded:

John D. Ferrow, Jr.
Chief, Aerotriangulation Section



Photogrammetric Plot Report
Hillsboro Inlet to Card Sound, Florida
Job PH-7113
and
Card Sound to Plantation Key, Florida
Job PH-7119

21. Area Covered

This report covers an area on the east coast of Florida immediately south of Hillsboro Inlet to the southwestern end of Plantation Key. Job PH-7113 and Job PH-7119 are combined in this one report because the southern portion of Job PH-7113 is included in the block adjustment of Job PH-7119.

Job PH-7113 consists of twenty (20) 1:10,000 scale sheets: TP-00416 through TP-00420, and TP-00422 through TP-00436.

Job PH-7119 consists of twelve (12) 1:10,000 scale sheets: TP-00444 through TP-00455.

Subsequent to the initial bridging in this area, three small areas were re-bridged using new photography. The reports are attached:

- (1) Port Everglades, Florida
- (2) Miami to Mangrove Point, Florida
- (3) Hollywood to Miami Beach, Florida

22. Method

Eleven (11) strips of photography were bridged using aerotriangulation methods. The points were made between strip No. 1 of PH-7113 and strip No. 2 of the Jupiter Inlet to Hillsboro Inlet, Florida report to the north of this area.

Due to the placement of control in relation to flight lines and due to large areas of water coverage, two block adjustments were made. Strip No. 2, No. 3, and No. 4 comprised one block. Strip No. 7, No. 9, No. 10, and No. 11 comprised the other block. Attached is a sketch showing the location of the strips and the blocks.

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. A sketch is attached which shows the control used in the strip and block adjustments. All points were plotted on the Florida East Zone Plane Coordinate System using the Coradomat Plotter or the Calcomp Plotter.

Ratio points were located on twenty-eight (28) strips of infrared contact prints. Additional ratio points were located on contact prints which have a large portion of water coverage so that they could be individually enlarged to scale. A sketch showing the location of the infrared photographs is attached.

23. Adequacy of Control

The control was adequate. Horizontal control was pre-marked on strip No. 1, No. 2, No. 3, No. 4, No. 5, and No. 6. Because of the placement of flight lines in relation to control, it was necessary to extend Strip No. 5 one model past its terminal control station in order to have an area of common coverage with strip No. 6. Tie points were located in this area and tie point 544801 was used as a terminal control point for strip No. 6.

Most of the horizontal control for Strip No. 7, No. 8, No. 9, No. 10, and No. 11 was pre-marked for color photography which was flown on August 4, 1971, and August 11, 1971. This photography was not used for bridging. The positions of the pre-marked control stations were transferred, using PUG methods, to color infrared photography which was flown on March 5, 1973, and March 18, 1973.

The following control station positions were transferred from photographs 71L(C)8370 through 71L(C)8382:

Irving 1971

Mangrove (USE) 1930 Sub Point A

Sands Cut RM2, 1849-1947 Sub station

The following control station positions were transferred from a roll of color photography which was not indexed (Spot No. 100-691A) LC-20:

Rubi, 1930-1948 Reset

Man, 1930

Angelfish Key RM3, 1853

Narrow Point, 1854

Long Sound 1961

Snipe Pt., 1934, substation

Knowlson, 1935, substation

Hull Key, 1852

Rock Harbor 2, 1961

Lower Sound Point, 1853 substation

Sub Station, Key Largo Cable Visions Inc., Taller Mast, 1961

Largo, 1962

Low 2, RM2, 1934

Planter 2, RM4

The following control station positions were transferred from photographs 72L(C)8691R thru 72L(C)8698R:

Tavernier 1935
Snake 1934 Sub. Sta.

Turkey Pt. 2, RM2 was transferred from photograph 71E(C)9595.

Cape Florida Old Tower Finial Sub Station A was transferred from photograph 71E(C)9201.

Lower Sound Point 1853 sbu. station was not used in the adjustment because the field party advised that it was questionable and should be used with caution. Sub. station Key Largo Visions, Inc., Taller Mast, 1961, could not be used because one of its azimuth stations (Key Largo Cable Visions, Inc. Shorter Mast) appears to have a bad published position. To date, this has not been resolved by the Geodesy Division. Turkey Point 2, RM2 was a very poor point to transfer, and, therefore, it was not used as control in the block adjustment in that area.

Part-way through the compilation phase of this project, it was determined that the published control positions in the area of this report were in error approximately - 4 feet in X and -10 ft. in Y. Therefore, Strip No. 1, No. 2, No. 3, No. 4, No. 5, No. 6, and No. 8 are adjusted to the old published control positions. This area includes T-sheets TP-00416 through TP-00420 and TP-00422 through TP-00432.

Strip No. 7, No. 9, No. 10, and No. 11 are adjusted to new preliminary control positions which were furnished by Geodesy on May 29, 1974. Geodesy Division stated this preliminary control will be within one (1) foot of the final adjustment. They also said to base non-main scheme stations on the nearest main scheme stations. This was approved by the Coastal Mapping Division.

Since stations established in 1971 and later have positions which were determined by a different adjustment than stations which were established before 1971, it was necessary that the corrections for non-main scheme stations of 1971 and later be based on the new preliminary control of the nearest main scheme stations of 1971 and later. In like manner, pre-1971 non-main scheme stations are based on the amount of change of the nearest pre-1971 main scheme station.

The compiler was advised to make a graphic adjustment on TP-00430 so it will junction well with TP-00433. Also, TP-00432 should be graphically adjusted so it will junction well with TP-00433, TP-00434, and TP-00435.

A listing of closures to control is included on an attached sheet of control stations. The station with the largest residual is Narrow Point 1854, with 1.808 feet in X and 1.267 feet in Y.

24. Supplemental Data

USGS Topographic Quadrangles and NOS Nautical Charts were used to obtain vertical control for bridging.

25. Photography

The following RC-8 color photography was used for bridging:

1:20,000 scale

Strip No. 4 71E(C)9201-9215
Strip No. 8 73L(C)2871-2884R
Strip No. 9 73L(C)2893-2924R

1:30,000 scale

Strip No. 1 71E(C)9120-9135
Strip No. 2 71E(C)9562-9574
Strip No. 3 71E(C)9576-9586
Strip No. 5 71E(C)9536-9545
Strip No. 6 71E(C)9588-9602

1:40,000 scale

Strip No. 7 73L(C)2935-2945R
Strip No. 10 73L(C)2952-2968R
Strip No. 11 73L(C)2785-2797R

The quality and definition of the photography was adequate.

Respectfully submitted,

Victor McNeel
Victor McNeel

Approved and forwarded:

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

CONTROL STATIONS

			<u>residuals</u>	
1.	(027100)	Turtle 1929	-0.706	-0.115
2.	(023102)	Pompano, 1928, subpoint B	1.488	-0.229
3.	(029100)	South Jetty, 1938	-1.134	0.176
4.	(034101)	Halland, 1928	0.317	-0.007
5.	(567101)	Causeway, 1934	0.027	-0.012
6.	(562101)	Point View, 1934	0.000	-0.181
7.	(207100)	Base, 1934	0.112	0.142
8.	(204100)	Key Biscayne North Base, 1849	-0.158	0.033
9.	(201101)	Cape Florida Old Tower Finial, subpoint A	-0.156	0.002
10.	(538102)	Pan American, 1935, Target 2	0.000	0.000
11.	(534101)	Naco 1934, subpoint A	0.000	0.000
12.	(544801)	Tie point from strip #5 used as control for strip #6	-0.157	0.025
13.	(591100)	Black Point 3	0.351	-0.066
14.	(595101)	Turkey Point No. 2, 1930, RM No. 2	-0.229	0.073
15.	(940100)			
	(602100)	Narrow Point 1854	-1.808	1.267
16.	(944100)	Man 1930.	0.222	-0.009
17.	(960100)	Long Sound, 1961	-0.168	-0.075
18.	(936101)	Snipe Point, 1934, sub- station	-0.215	-0.201
19.	(878101)	Irving, 1971, substation	0.687	-0.080
20.	(875102)	Mangrove (USE), 1930, subpoint B	-0.826	0.125
21.	(872101)	Sands Cut RM 2, 1849-1947 substation	0.296	-0.049
22.	(901100)	Rubi, 1930-1947, reset	-0.192	-0.134
23.	(905101)	Angelfish Key RM 3, 1853	-0.303	-0.242
24.	(914101)	Knowlson, 1935 substation	0.153	-0.155
25.	(919100)	Hull Key, 1852	-0.053	0.103
26.	(922100)	Rock Harbor 2, 1961	0.364	-0.284
27.	(022101)	Lower Sound Point, 1853 substation **		
28.	(923101)	Sub Station Key Largo Cable Visions Inc., Taller Mast, 1961 **		
29.	(924100)	Largo, 1962	-0.210	0.103

30.	(967101)	Low 2, RM 2, 1934	0.042	0.215
31.	(692100)	Tavernier, 1935	0.308	-1.325
32.	(793101)	Planter 2, RM 4	-1.476	1.087
33.	(695101)	Snake, 1934, subpoint	0.128	0.174

** means not used in adjustments

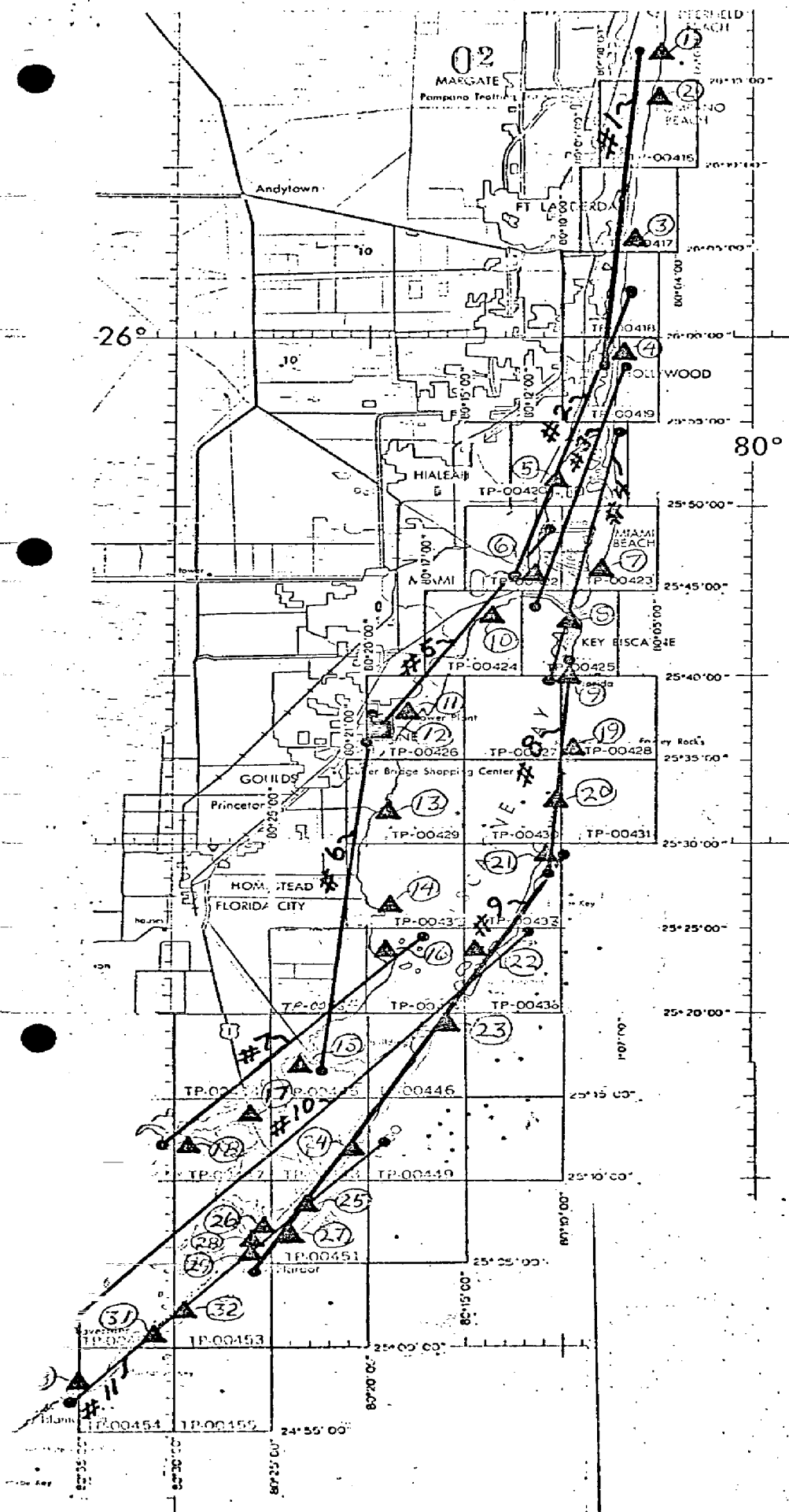
INFRA-RED CONTACT PRINTS

1. 71K 5632R - 5660R MLW
2. 71K 5662R - 5672R MLW
3. 71K 5750R - 5766R MHW
4. 71K 5795R - 5806R MHW
5. 71K 5815R - 5829R MHW
6. 71L 8501R - 8509R MLW
7. 71L 8512R - 8520R MLW
8. 71L 8571R - 8580R MHW
9. 71L 8523R - 8530R MLW
10. 71L 8783R - 8791R MHW
11. 71L 8584R - 8593R MHW
12. 71L 8532R - 8537R MLW
13. 71L 9067R - 9080R MLW
14. 71L 8337R - 8341R MHW
15. 72K 6287R - 6298R MHW
16. 72K 6572R - 6584R MLW
17. 72K 6546R - 6563R MLW
18. 72K 6311R - 6330R MHW
19. 71L 8544R - 8559R MLW
20. 71L 8648R - 8662R MLW
21. 72K 6480R - 6499R MHW
22. 71L 8697R - 8705R MHW
23. 72K 6344R - 6350R MLW
24. 72K 6253R - 6255R MLW
25. 72K 6420R - 6423R MHW
26. 72K 6501R - 6515R MHW
27. 72K 6368R - 6382R MLW
28. 71K 5847R - 5856R MHW

JOB PH-7113
AND
JOB PH-7119

HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA

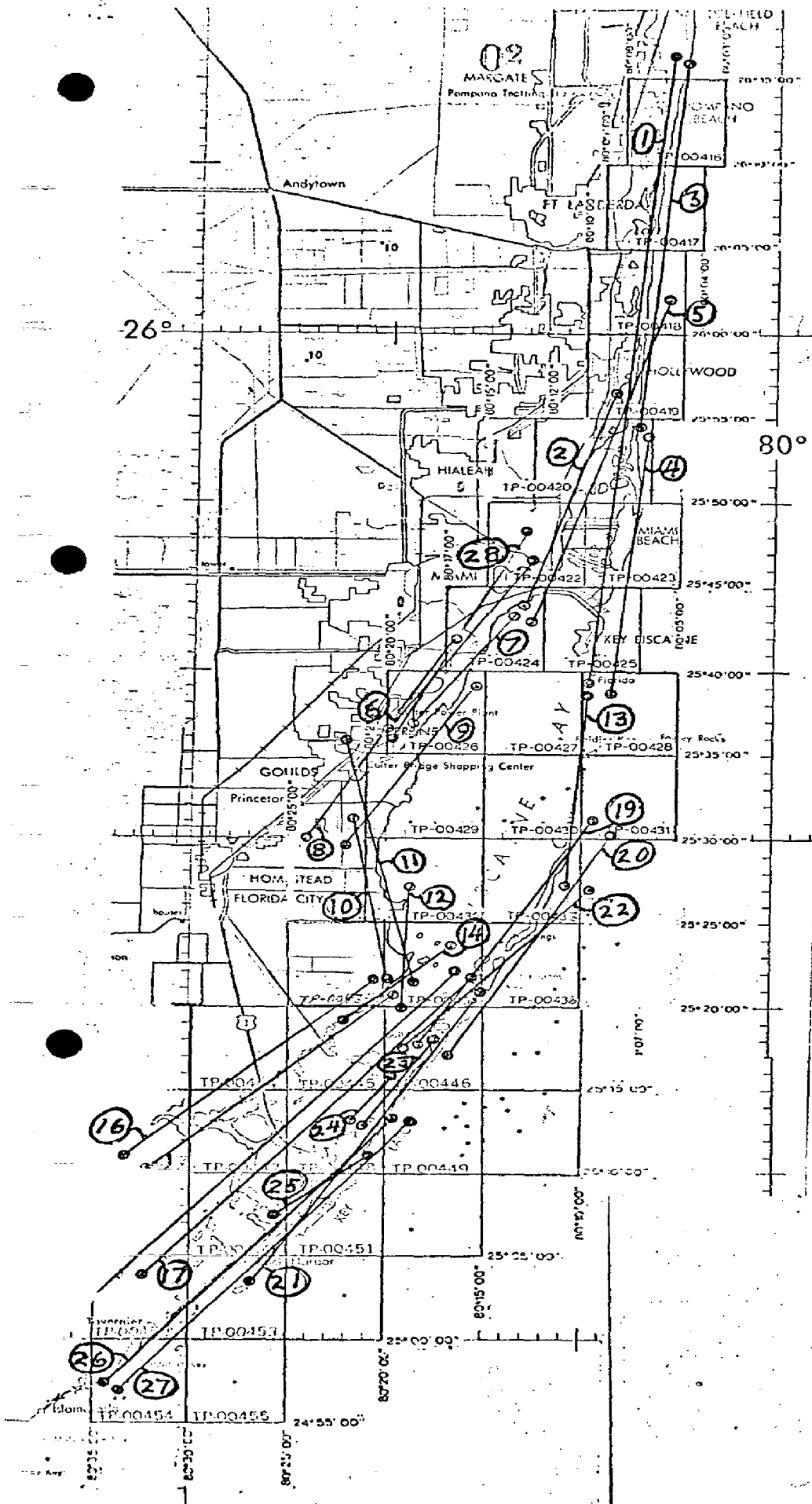
CONTROL STATIONS
USED IN THE
ADJUSTMENTS



JOB PH-7113
AND
JOB PH-7119

HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA

INFRA-RED CONTACT
PRINTS RATIOED FOR
COMPILATION



FLORIDA-NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP- 00419

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
2? ✓ HALLAND 1928	Book 422, P17, 26, 33, 35 G.P.-Fla. Vol. 1, P. 186, P.C. Fla. E Zone P, 49
✓ HALLANDALE 1934	Book 422, P. 16, 17, 26, 30 G.P.-Fla. Vol. 1, P. 165 P.C.-Fla. E Zone, P. 23

✓ 5-25-77 J.F.V.

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
✓ R 239 ✓		C&GS disk stamped R 239 1965; 45 ft. N of State 824, 18.2 ft. E of E rail of N-bound track, 7.5 ft. NW of a lone palm tree.
✓ Q 314 ✓		C&GS disk stamped Q 314 1970; 34 ft. E centerline N-bound lane of A1A, 2 ft. S of power pole.
✓ R 314 ✕		C&GS disk stamped R 314 1970; set on S side of concrete base supporting light pole, 8.2 ft. E of E curb of S-bound lane of A1A, 0.6 ft. S of light pole.
✓ IWBW 132 ✕ (USE)		USE disk stamped IWBW 132 1962 JACKSONVILLE FLA; set on top of concrete walkway on N side of bridge, 4 ft. N of N curb of State 824.
✓ A 1 (DWC) ✕		Dade County disk stamped DWC BM A 1; 89.7 ft. E of SE corner of concrete power pole, 30.5 ft. N of centerline of E-bound lane, 45 ft. W of centerline of driveway, 1.7 ft. below the ground.
✓ A 3 (DWC) ✕		Dade County disk stamped DCW BM A 3; set in top of catch basin, 2.3 ft. W of W edge of sidewalk, 1 ft. E of E curb of A1A.
✓ A 5 (DWC) ✕		Dade County disk stamped DWC BM A 5; set in top of catch basin, 1.3 ft. W of W curb of A1A, 1.7 ft. E of E side of sidewalk.
✓ A 7 (DWC) ✕		Dade County disk stamped DWC BM A 7; 8.5 ft. W of W curb of N-bound lane, 3 ft. W of light pole, 5 inches below ground.
✓ A 9 (DWC) ✓		Dade County disk stamped DWC BM A 9; 77 ft. S of extended centerline street, 2.8 ft. E of E curb of S-bound lane, 2 ft. W of light pole.
✓ Y 238 ✕		C&GS disk stamped Y 238 1965; 40.5 ft. E centerline street, 19.1 ft. W of W rail of S-bound track, 2.5 ft. N of power pole.

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
✓ S 239 ✕		C&GS disk stamped S 239 1965; 78 ft. S of center-line street, 18.5 ft. W of W rail of S-bound track, 2.5 ft. S of power pole.
✓ T 239 ✕		C&GS disk stamped T 239 1965; 19.5 ft. W of W rail of S-bound lane, 2 ft. S of milepost.
✓ U 239 ✕ (SRD)		FSRD disk stamped U 239; set in top of NW abutment.
✓ X 239 ✕ (SRD)		FSRD disk stamped X 239; set on top of S concrete base of east guard rail.
✓ Y 239 ✕		C&GS disk stamped Y 239 1965; 38 ft. W of center-line S-bound lane of A1A, 72.5 ft. SW of SW end of box culvert, 5 ft. W of power pole.
✓ A 2 (DWC)		Dade County disk stamped BM A 2; set in top of NW corner of catch basin, 43 ft. S of S curb of State 826, 0.7 ft. E of E curb of State A1A.
✓ TIDAL 1 ✕		NOS disk stamped NO 1 1973; set in top of concrete bulkhead, 175 ft. W of centerline N-S St., 165 ft. N of a sharp break in seawall.
✓ TIDAL 3 ✕		NOS disk stamped NO 3 1973; set in top of corner of bulkhead.

Compilation Report

TP-00419

June 1975

This report will detail the methods used to compile TP-00419.

Due to several unusual problems encountered in compiling this map, an accounting is submitted with this report for the record:

Bridging photography and tide-coordinated infrared photography was originally flown in 1971. A mosaic was prepared from the color photography taken in February-March 1971 and a manuscript was compiled utilizing all 1971 photography available.

Copies of this compilation, with all necessary data was sent to the field for edit in July 1973.

A preliminary field survey revealed that there was such extensive construction in the interior waterways of this map and adjoining map, TP-00420, that it would be necessary to rephotograph the area to produce a contemporary orthophotomosaic and compilation. This was accomplished in December 1973 with color photography and a new mosaic was made from a photogrammetric plot bridged in June 1974. Using the 1974 bridge of the 1973 photos, the manuscript was revised to reflect manmade shoreline changes in June 1974.

Progress on the maps in the Miami area, including TP-00419, was halted, pending a decision on a datum adjustment of horizontal control by Geodesy.

Field edit was rescheduled and completed in February 1975 and returned for application of edit data at that time.

The following report is for the compilation that was edited, completed and sent for proof copy in June 1975.

31. Delineation

Features delineated were MHWL, MLWL, landmarks and aids, bench marks and foreshore and alongshore features.

Features behind the shoreline are depicted by the orthophoto-mosaic.

Sufficient detail was compiled from the 1973 bridging photography to control the ratio infrared MHW and MLW tide-coordinated photography.

32. Control

Horizontal control for both bridges, (1971 and supplemental 1974), were adequate for density and placement. (See Photogrammetric Plot Report.)

33. Supplemental Data

None

34. Contours and Drainage

Inapplicable.

35. Shoreline and Alongshore Details

The Atlantic Ocean shoreline was delineated by office interpretation of tide-coordinated infrared MHWL and MLWL ratio photographs listed on Compilation Sources (data record 76-36b).

The interior waters of Dumfoundling Bay, Biscayne Creek, and the Intercoastal Waterway were delineated from the 1973 color photography due to numerous manmade changes. On the Atlantic Coast at latitude 25°58'15" by 25°59'15", manmade changes evident on the 1973 photography were shown. These were new seawalls and abrupt changes in the MHWL due to groin construction. The MLWL was also interpreted from a 1973 photography, (73-L-9972), in this area.

36. Offshore Details

Not applicable.

37. Landmarks and Aids

One landmark tank was plotted photogrammetrically and was verified by field edit. Additional landmarks, landmark buildings and all aids to navigation were located during field edit.

38. Control for Future Surveys

None

39. Junctions

North-TP-00418; South-TP-00420; East-Atlantic Ocean; West-No contemporary survey.

40. Horizontal and Vertical Accuracy

This map complies with the accuracy requirements as outlined by the Project Instructions.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with the following USGS quadrangle:

North Miami, Florida, Scale 1:24,000, 1962, photo revised 1969.

47. Comparison with Nautical Charts

Comparison was made with the following charts:

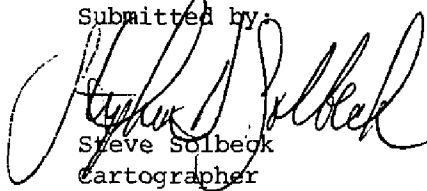
847-SC, Scale 1:40,000, 11th Edition, dated August 1972.

1248, Scale 1:80,000, 14th Edition, dated October 1972.

Items to be applied to Nautical Charts Immediately: None.

Items to be Carried Forward: None

Submitted by:


Steve Solbeck
Cartographer

Approved and Forwarded:



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

TP-00419
Addendum to Compilation Report
January 1977

TP-00419 is one of six maps (TP-00419, 420 and TP-00422 thru 425), in PH-7113 that upon examination of the proof copy, were rejected because of poor image and tonal quality of the photography used to prepare the orthophotomosaics. Fourteen other maps in the project were approved.

As these six maps cover an area of heavy marine activity, (North Miami Beach, south to Key Biscayne including Miami Harbor), it was decided that they should have uniformly the best image quality possible. In addition, due to a large amount of construction throughout the area, the need for contemporary photography was evident.

Consequently, photography was flown for the entire area in November 1975 and bridged in June 1976 (see Plot Report). Prior to bridging, 132 aids to navigation were photoidentified in the field on the 1975 photography (see field report dated 3/30/76). Their positions were determined during bridging and with the addition of 11 other aids located by sextant fixes, good positioning was achieved for aids on the six maps. New 76-40 forms will be submitted.

With the acquisition of the 1975 photography, the delineation of the shoreline and alongshore features, as originally compiled, had to be revised for various reasons and is herein discussed for TP-00419:

The lines of mean high water and mean low water were compiled from tide-coordinated, black-and-white, infrared aerial photographs taken in February and March 1971. Sufficient detail from the 1975 bridging photography was compiled to control the infrared photography.

The original compilation report outlines the methods used, including the use of 1973 color photography to update manmade changes in the shoreline. (See item 35 of original report.)

The interior waters of this map continued to show manmade changes in the interior waterways that occurred with the 1973 photography.

As the field edit was completed in February 1975 using the 1973 photography, some field classification of the type of shoreline had to be revised by office interpretation of the November 1975 photography. This was exclusively the changing of "fast" shoreline (MHWL), to bulkheads or manmade shoreline for the interior waterways, changes in the original compilation for the Atlantic Coast were the removal and/or addition of groins.

Field Edit Report, Map TP-00419, Job PH 711351. METHODS

All the shoreline with the exception of the Atlantic Ocean was inspected by a small boat while cruising just off shore. The Atlantic Ocean shoreline was inspected by walking the beach and driving along roads that went to the beach. Notes regarding apparent and fast shoreline, piers and other shoreline features were made on the rectified photographs and discrepancy print.

Two water tanks are recommended for charting. Their position was located in compilation. Form 76-40 is submitted. Most of the aids were located in the bridging and these positions were verified by cuts or by using them in the location of other aids. Forms 76-40 are submitted.

The Field edit was originally started in August 1973 and the bench marks and three tide gages were identified at that time in the 1971 bridging photographs. Some of the gages have been removed and no attempt was made to identify them on the 1973 photographs.

Two triangulation stations were recovered.

Field edit notes will be found on the discrepancy print, field edit sheet and the photographs.

52. ADEQUACY of COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

54. RECOMMENDATION

None.

55. EXAMINATION of PROOF COPY

Not required.

Submitted 2/19/75



Robert R. Wagner

Chief, Photo Party 60

REPORT JOB PH 7113, SUPPLEMENT 2

The field work was done from March 22 to March 26, 1976. The location of fixed aids were from approx. 25° 44' to 25° 57' with 143 aids in this area. One hundred and thirty two were photo identified, ten were located by fixes and one aid Biscayne Bay Daybn 46 did not appear on the photographs and was not in place at the time of field inspection. Biscayne Bay Daybn 44 was not in place at the time of field work, but was at the date of photographs. The aids located by fixes could not be seen on the photographs are were believed to have been moved. In addition some signs, markers and piles that are not in the light list were also identified. Apeco Marina Channel Daybn 7 does not have a name on the pile, but has a range daymark as shown in the light list. Biscayne Bay Daybn 8 was laying on its side and also marked with a bouy. The daybn can be place in its former position. Forms 76-40 are submitted for the aids and the date of location is the date of the photographs for all aids identified. This was done because with the aids being in the water it is next to impossible to tell if they have been moved. With the exception of Miamarian North and South Lights (pier), the aids were not pricked. The prick holes would destroy the images. Just the number of the daybn appears along side of the images of the daybn and Lt. with the number appears along side of the Lights.

One building on 75B8183 is recommended for charting due to its heigh.

Cdr. Reinke, NOAA Ship Base requested three points for location in the bridge. They are on photo 75B8188 and forms 152 is submitted for Sb 1, SB 2 and SB 3.

It was noted that wood piles with white bird dropping showed up better on the photos when the camera was in line with the sun. This gave a good reflected image on the photograph.

Submitted By

Robert R. Wagner
Robert R. Wagner
Chief, Photo Party 66
3/30/76

Review Report
Coastal Zone Map TP-00419
November 1978

61. General

The numerous delays in the compilation of Coastal Zone Map STP-00419 and TP-00420 and TP-00422 thru TP-00426 are adequately explained in the Compilation Report and in the Addendum to the Compilation Report.

The manuscript for Coastal Zone Map TP-00419 was inspected in its Class III stage prior to field edit. This inspection comprised of an examination of the Class III manuscript, photography, discrepancy print, and Descriptive Report (partial).

The review for this map consisted of an examination of the Class I manuscript, the field edit, and its application, the reproduction negatives, and the Descriptive Report.

The proof copy 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 Geological Survey map and NOS chart:

North Miami Quadrangle 1962, photo revised 1969 and 1972

No significant changes were found.

NOS chart 11467, 17 Edition, dated 7/8/78

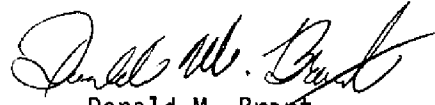
No significant changes were found.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys


Coastal Zone Map TP-00419 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

April 20, 1977

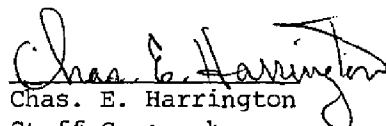
GEOGRAPHIC NAMES
FINAL NAME SHEETS
PH-7013 (Florida)

TP-00419

Atalntic Island
Atlantic Ocean
Bella Vista Bay
Beverley Beach
Biscayne Creek
Central Island
Dumfoundling Bay
Eastern Shores
Florida East Coast (RR)
Enchanted Lake
Golden Beach
Golden Isles
Golden Isles Lake
Greyknoll Lake
Hallandale
Highland Lakes
Hollywood
Lake Villa
Little Lake Maule

Maule Lake
North Island
North Miami Beach
Ojus
Oleta River
Poincinanna Island
Royal Glades Canal
Royal Palm Island
Sky Lake
South Island
Sparling Lake
Sunny Isles
Sunny Isles (locality)
Sun Swept Isles
West Lake

Prepared by:


Chas. E. Harrington
Staff Geographer

76-40

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISIONNATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USAORIGINAL
VERSION
09/20/76

LISTING

* SVY TP-00419 * RPT UNIT CMD ROCKVILLE, MD. * PAGE 2 OF 3 *
* JOB PH-7113 * NONFLOATING AIDS FOR CHARTS * STATE FLORIDA *
* PRJ 833205 * TO BE CHARTED * LOCALITY HOLLYWOOD *
* DTM NA 1927 * DATE 01/25/77 *
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* CHARTING* RECORD REASON FOR DELETION * POSITION * CODES* * METHOD AND DATE *
* NAME * PUT TRIANGULATION NAMES IN () * LATITUDE DM C-C * OF LOCATION * CHARTS *
* * * * LONGITUDE DP SEQ * OFFICE * FIELD * AFFECTED *

* BISCAYNE CREEK * 25 55 24.14 742.9 NOT * P-5 *
* 59 * 80 07 46.95 1306.6 DGTZD* * 11/24/75 * 11467 *
* LIGHT * 25 55 19.10 587.8 NOT * 758C8199 *
* 60 * 80 07 48.66 1354.2 DGTZD* * DITTO * OITTO *
* DITTO * 25 55 14.76 454.2 NOT * DITTO *
* 61 * 80 07 42.23 1175.2 DGTZD* * * DITTO *
* DITTO * 25 55 09.83 302.5 NOT * DITTO *
* 62 * 80 07 40.80 1135.5 DGTZD* * * DITTO *
* BISCAYNE BAY * 25 55 04.49 138.2 NOT * DITTO *
* 2 * 80 07 37.70 1049.2 DGTZD* * * DITTO *
* DITTO * 25 55 02.60 80.0 NOT * DITTO *
* 3 * 80 07 32.82 913.4 DGTZD* * * DITTO *
* BAKERS HAULOVER SMALL BOAT * 25 55 02.37 72.9 NOT * DITTO *
* 1 * CHANNEL - PRIVATELY MAINTAINED * 80 07 32.78 912.3 DGTZD* * * DITTO *
* DITTO * 25 55 01.20 36.9 NOT * DITTO *
* 2 * 80 07 32.86 914.5 DGTZD* * * DITTO *
* DITTO * 25 55 00.30 9.2 NOT * DITTO *
* 4 * 80 07 36.26 1009.1 DGTZD* * * DITTO *
* * * * * * *
* * * * * * *

* TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * ORIGINATOR *
* * * * * * *
* POSITIONS DETERMINED * ROBERT R. WAGNER * FIELD REPRESENTATIVE *
* AND/OR VERIFIED BY * JAMES E. SCHAD * OFFICE COMPILER *
* FIELD AND OFFICE * N/A * DIGITIZER *
* ACTIVITIES * JAMES H. TAYLOR * DATA PROCESSER *

National Archives Data
TP-00419

1 Discrepancy print (paper copy)

1 Field edit sheet (stable base copy)

Forms 76-40 (Nonfloating Aids or Landmarks for Charts)

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

2 pages from sketchbook

Photography:

Portions of the following photographs:

71-K-5648R

71-E-9133

71-E-9570 thru 9572

73-L 9956 thru 9572

73-L-9956 and 9957

73-L-9973

73-8-9912