

00423³

00423

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-00423

Classification No. Final Edition No. 1

Field Edited Map

LOCALITY

State Florida

General Locality Dade County

Locality Miami Beach to Virginia Key

1971 TO 1975

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. 00423 MAP EDITION NO. (1) MAP CLASS Final JOB PH. 7113	
OFFICER-IN-CHARGE 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 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: Incorporate applicable prior operational instructions		2. FIELD Aerial photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000 General Instruction for Florida Coastal Zone Mapping) 1973	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Transverse Mercator		4. GRID(S) STATE Florida ZONE East Coast	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: LANDMARKS AND AIDS BY		V. McNeel - I.O. Raborn Jr I.O. Raborn, Jr.	8/74-6/76 6/76
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Cal Comp CHECKED BY		J. Taylor	12/76
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		Inapplicable	
INSTRUMENT: Orthophotomosaic SCALE:		J. Taylor J. Battley, Jr.	11/76 11/76
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		R. Rich - P. Dempsey C. Lewis	6/73-11/76 2/77
METHOD:		CONTOURS BY CHECKED BY	Inapplicable Inapplicable
SCALE:		HYDRO SUPPORT DATA BY CHECKED BY	Inapplicable Inapplicable
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		C. Lewis	6/73
6. APPLICATION OF FIELD EDIT DATA BY		H. Jones - P. Dempsey C. Lewis	1/74-11/76 2/77
7. COMPILATION SECTION REVIEW BY		C. Lewis	2/77
8. FINAL REVIEW BY		D. Brant	5/79
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		D. Brant	5/79
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		22. 20. 11/26/80	7-79

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

TP-00423

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) E, K, & B - 6" focal length		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE East	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 60th & 75th	<input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71-E(C) 9207-9211	2 Mar. 71		1:20,000	The stage of tide is inapplicable for the color photography.	
71-E(C) 9583-9584	8 Mar. 71		1:30,000		
71-K-5653R-5656R	7 Feb. 71	1234-1241	1:30,000	Refer to following page for tide information.	
71-K-5798R-5801R	2 Mar. 71	1144-1148	1:30,000		
73-E(C) 3015, 3017, 3019	18 Mar. 73		1:40,000	Inapplicable.	
*75-B-7796	22 Nov. 75		1:60,000	Inapplicable.	

REMARKS

* - This photograph was rectified and covered TP-00423 in its entirety.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the 1971 tide-coordinated infrared photography listed above. The 1973 color photography and the 1975 panchromatic photography was used to update cultural shoreline features.

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

The source of the MLW line is the 1971 tide-coordinated infrared photography, supplemented by field edit notes.

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-00420	Atlantic Ocean	TP-00425	TP-00422

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 - 00423

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
71-K-5653R - 5656R	Miami, Biscayne Bay (Biscayne Bay)	+ 0.10 MLW	2.14 ft.
71-K-5653R - 5656R	Miami Beach, Harbor Entrance	- 0.39 MLW *	2.51 ft.
71-K-5798R - 5801R	Miami, Biscayne Bay (Biscayne Bay)	+ 0.18 MHW	2.14 ft.
71-K-5798 - 5801R	Miami Beach, Harbor Entrance (Atlantic Ocean)	+ 0.13 MHW	2.51 ft.

* - The stage of tide tolerance is greater than + 0.30 ft. specified in the instructions for some of the photography used in compiling portions of the MHW and MLW lines. The horizontal position of these lines was verified by field edit.

REMARKS:

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

TP-00423

HISTORY OF FIELD OPERATIONS

I. <input checked="" type="checkbox"/> FIELD INSPECTION OPERATION		* Mar. 1971 Dec. 1975		<input checked="" type="checkbox"/> FIELD EDIT OPERATION		Sept. 1973	
OPERATION				NAME		DATE	
1. CHIEF OF FIELD PARTY				R.R. Wagner			
2. HORIZONTAL CONTROL				RECOVERED BY		R.R. Wagner	
				ESTABLISHED BY		9/23	
				PRE-MARKED OR IDENTIFIED BY			
3. VERTICAL CONTROL				RECOVERED BY		R.R. Wagner	
				ESTABLISHED BY		9/73	
				XXXXXXXXXX IDENTIFIED BY		G. Jamerson	
4. LANDMARKS AND AIDS TO NAVIGATION				RECOVERED (Triangulation Stations) BY		G. Jamerson	
				LOCATED (Field Methods) BY		R.R. Wagner	
				IDENTIFIED BY		R.R. Wagner	
5. GEOGRAPHIC NAMES INVESTIGATION				TYPE OF INVESTIGATION			
				<input type="checkbox"/> COMPLETE		BY	
				<input type="checkbox"/> SPECIFIC NAMES ONLY			
				<input checked="" type="checkbox"/> NO INVESTIGATION			
6. PHOTO INSPECTION				CLARIFICATION OF DETAILS BY		R.R. Wagner & G. Jamerson	
7. BOUNDARIES AND LIMITS				SURVEYED OR IDENTIFIED BY		N.A.	
II. SOURCE DATA							
1. HORIZONTAL CONTROL IDENTIFIED				2. VERTICAL CONTROL IDENTIFIED			
PHOTO NUMBER	STATION NAME			PHOTO NUMBER	STATION DESIGNATION		
	Refer to Field Reports			71E 9207	U 316		
				71E 9208	6 (USE)=Tidal Mark, U 238		
				71E 9209	N 101 (FGS)		
				71E 9210	Z 310, B 313		
				71E 9211	D 313		
				71E 9584	K 314		
3. PHOTO NUMBERS (Clarification of details) 71# 9207 thru 9211, 71E 9583, 71E 9584, 73L 3017, 3019, 71K 5654R thru 5655R							
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED							
Refer to Supplement 2							
PHOTO NUMBER	OBJECT NAME			PHOTO NUMBER	OBJECT NAME		
73L 3019	Government Cut Range Front Lt. Entrance Range Front Lt. Entrance Range Rear Lt.			71E 9207	Radio Tower WMBM		
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE				6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE			
7. SUPPLEMENTAL MAPS AND PLANS							
General Highway Map Dade County, Revised 9/71 for Rd. numbers.							
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)							
Sketchbook pages. * The field reports are bound with this Descriptive Report							

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

TP-00423

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Original compilation of shoreline & foreshore features	June-1973	Map Class III Horizontal Control Adequate		
Field edit revisions & additions applied	Jan. 1974	Manuscript not registered. See compilation report.		
New orthophoto base & revisions with 1975 photography	Nov. 1976	Map to Class I		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		3/17/77	5 Digitized pages of Form 76-40 have been forwarded to the Marine Chart Division as a final report.

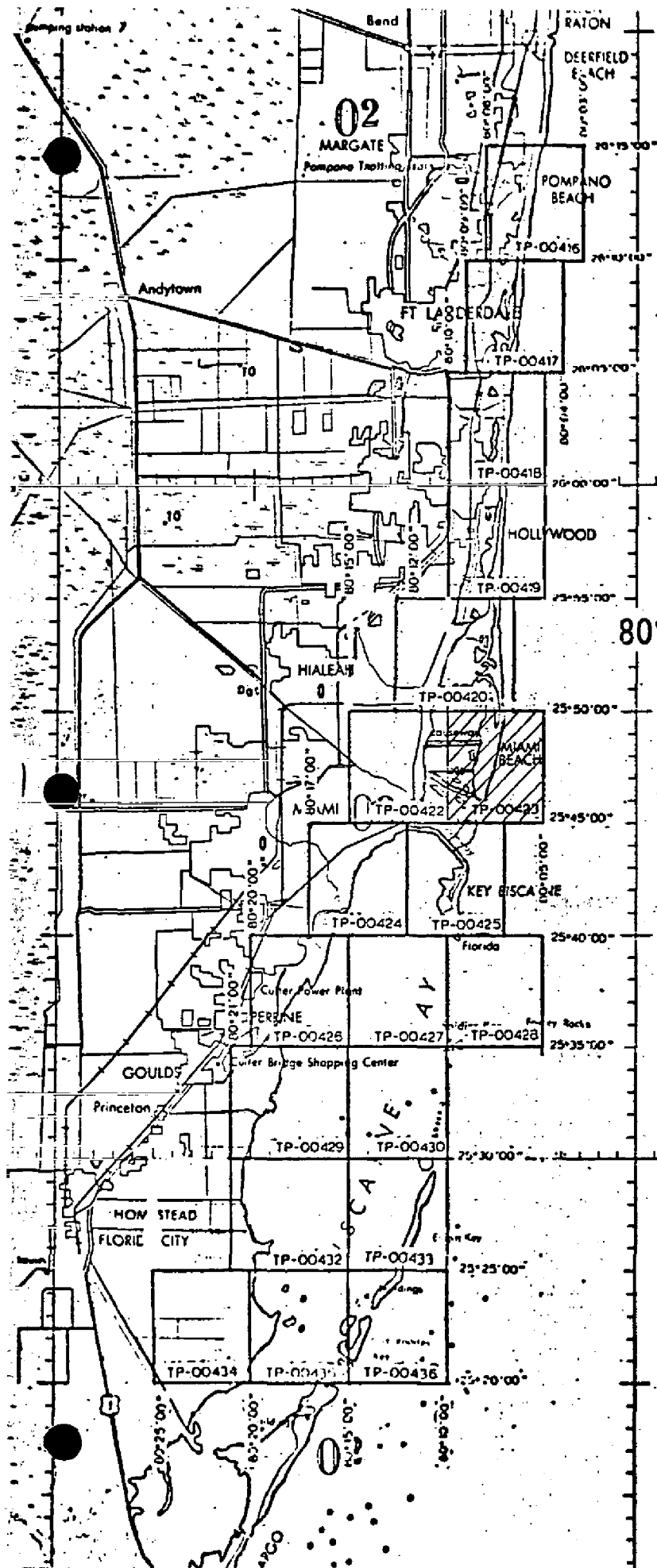
2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3/17/77
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

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

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

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



JOB #H-7113
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

SUMMARY
for
TP-00423

Coastal Zone Map TP-00423 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-00423 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-00423 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.

DENO 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.

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

2.

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

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

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

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

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

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

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

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

2. TIDE COORDINATED PHOTOGRAPHY

As directed by telephone, the following nine tide

stations were manned.

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

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

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

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

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

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

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

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

4.

(4) An 8 mile segment of line 30-1, based on ANDREWS AVENUE BRIDGE was photographed at 1511 to 1515 hrs., when the staff read 1.8 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 PORT EVERGLADES) was photographed at 1103 to 1106 hrs. with the camera end overlap setting at 80%.

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

(4) Line 30.3, based on the same stations, was photographed at 1305 to 1311 with the staff readings unchanged from line 30-2.

(5) Line 30-4, based on BISCAYNE BAY, MIAMI and BISCAYNE BAY, CUTLER, was photographed at 1319 to 1325, when the MIAMI staff read 4.5 and CUTLER read 2.8 ft.

This ends the high-water photography.

3. FORESHORE PROFILES

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

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

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

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

Submitted 3/25/71

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

Photogrammetric Plot Report
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

3 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

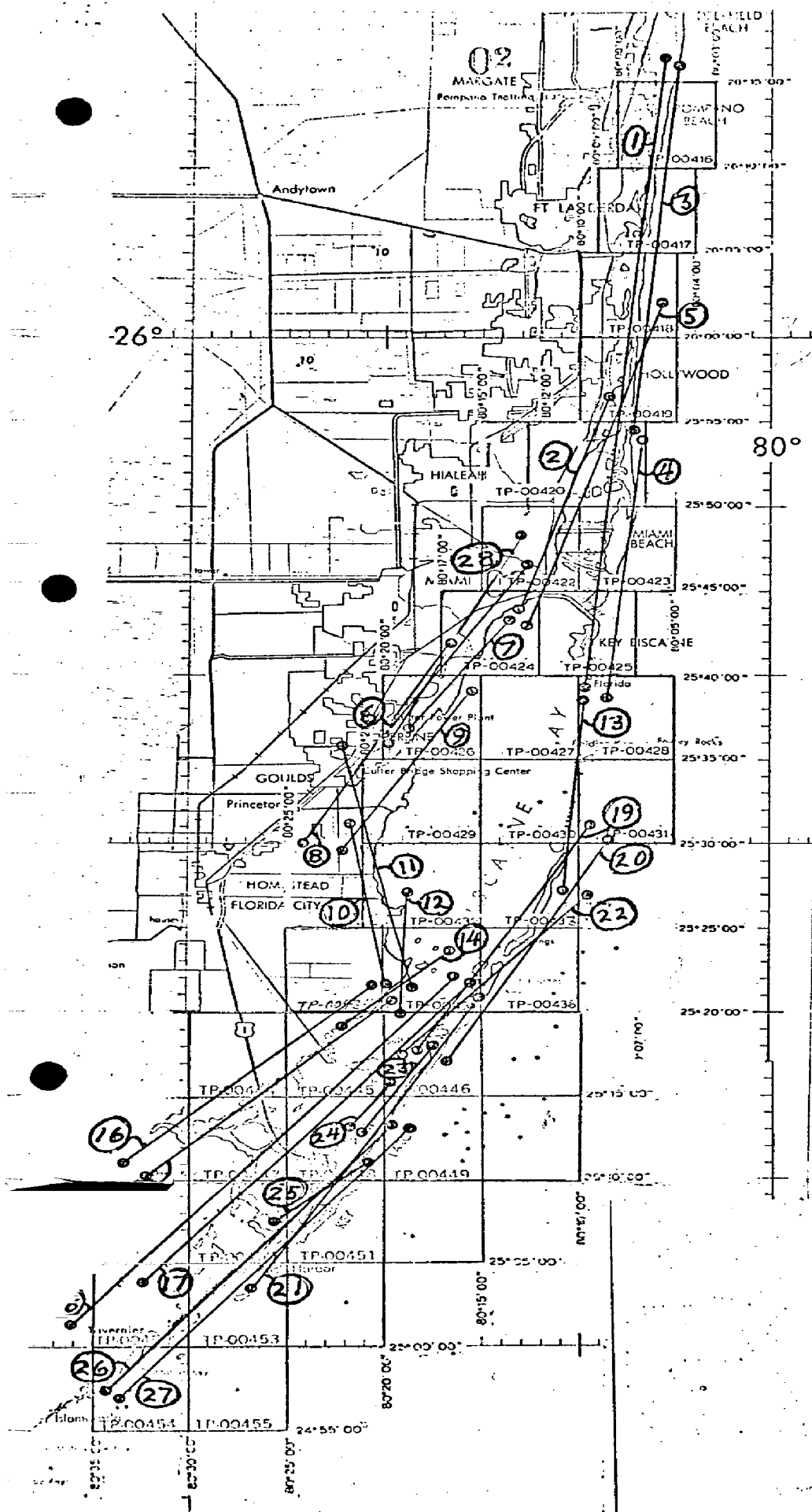
			<u>residuals</u>	
1.	(027100)	Turtle 1929	-0.706	-0.115
2.	(023102)	Pompano, 1928, subpoint B	1.488	-0.229
3.	(029100)	South Jetty, 1938	-1.134	0.176
4.	(034101)	Halland, 1928	0.317	-0.007
5.	(567101)	Causeway, 1934	0.027	-0.012
6.	(562101)	Point View, 1934	0.000	-0.181
7.	(207100)	Base, 1934	0.112	0.142
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

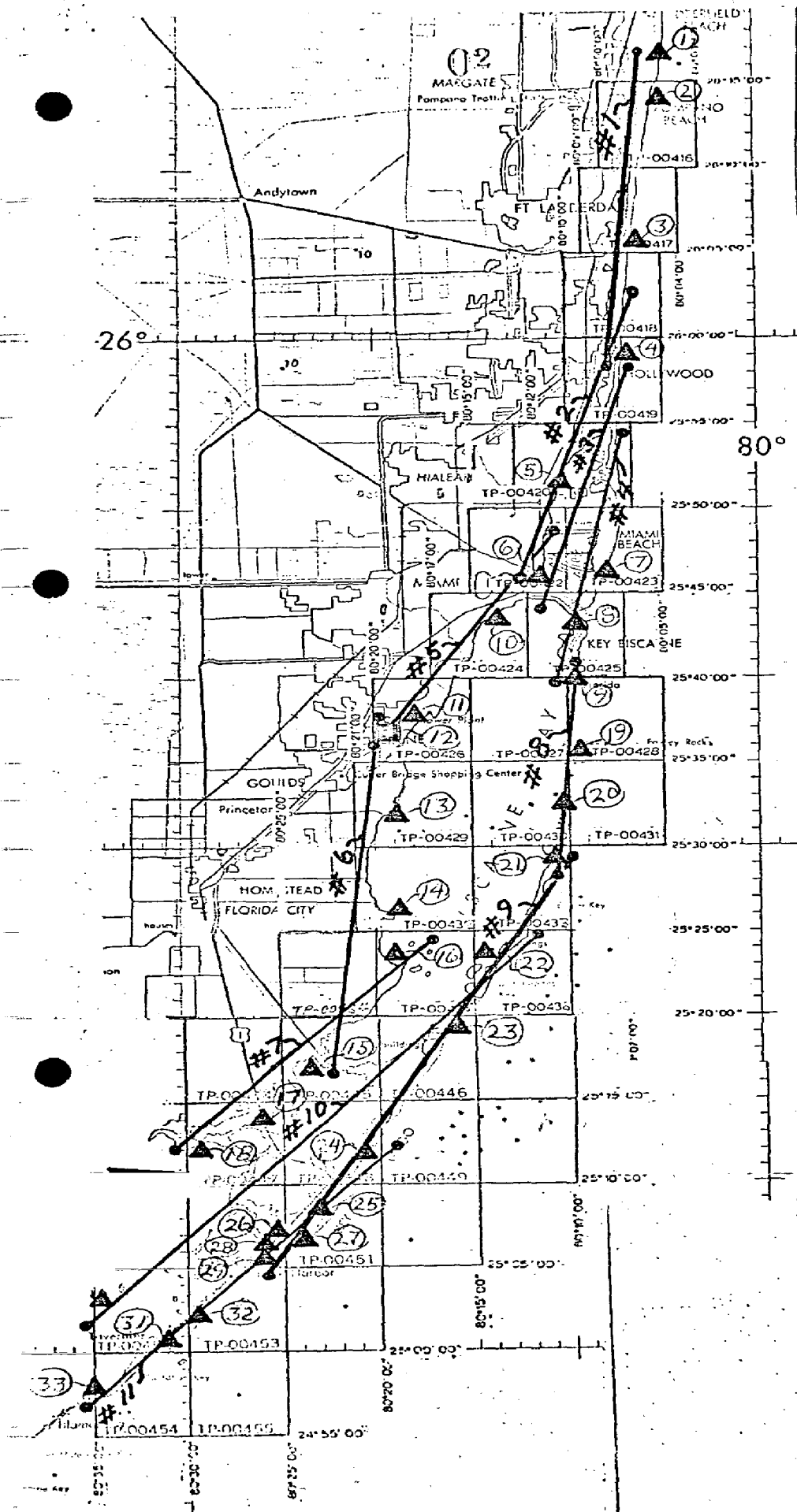
HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA

INFRA-RED CONTACT
PRINTS RATIOED FOR
COMPILATION

JOB PH-7113
AND
JOB PH-7119

HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA

CONTROL STATIONS
USED IN THE
ADJUSTMENTS



Photogrammetric Plot Report
Miami to Mangrove Point, Florida
October 1973

21. Area Covered

The area covered by this report is along the west side of Biscayne Bay from Miami to Mangrove Point. This area is covered by nine 1:10,000 scale sheets TP-00420, TP-00422 thru TP-00424, TP-00426, TP-00429, TP-00432, TP-00434, and TP-00435.

22. Method

Two strips of 1:40,000 scale false color photography were bridged by aerotriangulation methods. The strips were controlled by transferred targets and pass points from color photography at different scales. The attached sketch shows the flight line of the photography and the placement of control used in this adjustment. Data for plotting the points were furnished to the Compilation Section.

23. Adequacy of Control

The control was adequate. Stations Point View SS #1 and Causeway could not be used in the adjustment because they did not meet National Map Accuracy Standards. This is the result of trying to transfer the stations from different scale and different year photography.

24. Supplemental Data

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

25. Photography

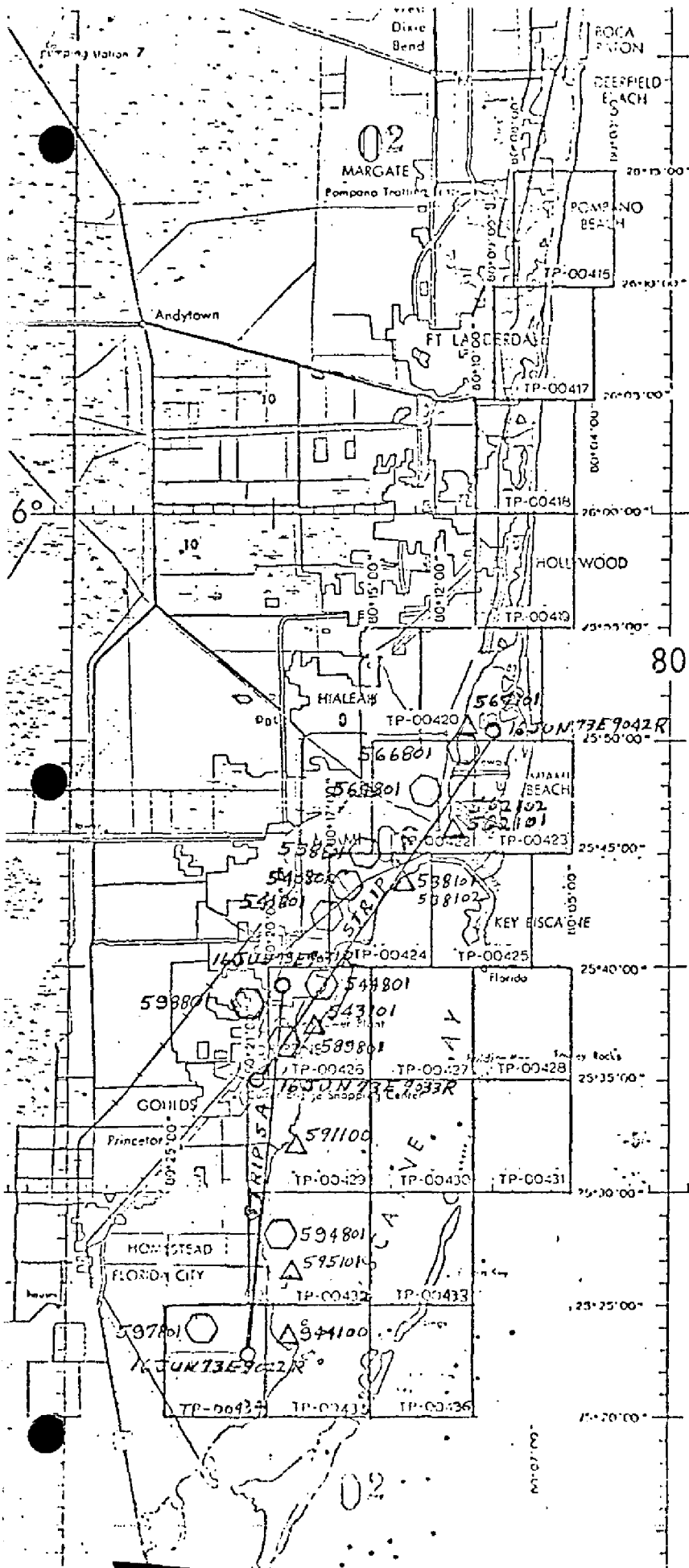
The photography was adequate.

Respectfully submitted,

Ivey O. Raborn
Ivey O. Raborn

Approved and Forwarded:

John D. Kernan Jr.
Chief, Aerotriangulation Section



JOB PH-7113
HILLSBORO INLET to CARD SOUND
FLORIDA
SHORELINE MAPPING
SCALE 1:10,000

Sheet No.	Sq. Miles
TP-00416	3
TP-00417	3
TP-00418	3
TP-00419	8
TP-00420	2
TP-00	
TP-00422	4
TP-00423	6
TP-00424	4
TP-00425	6
TP-00426	
TP-00427	
TP-00428	
TP-00429	4
TP-00430	2
TP-00431	2
TP-00432	1
TP-00433	3
TP-00434	1
TP-00435	
TP-00436	6
TP-00437	4
TP-00438	
Total	72

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

FLORIDA- NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP- 00423

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
BLACKSTONE HOTEL, CLOCK TOWER, 1934	Book 423, P6, G.P.-Fla. Vol. 1, P. 454, P.C. Fla. E Zone, P. 119
FISHERS ISLAND, WATER TANK, 1929	Book 423, P7 G.P.-Fla. Vol. 1, P. 449, P.C. Fla. E Zone, P. 117
MIAMI BEACH, FLORIDIAN HOTEL, CUPOLA, 1935	Book 423, P6, 7 G.P.-Fla. Vol. 1, P. 462, P.C. Fla. E Zone, P. 122
SOUTH MIAMI BEACH, WATER TANK, GREEN, 1928	Book 423, P7 G.P.-Fla. Vol. 1, P. 455, P.C. Fla. E Zone, P. 120
SQUARE TOWER, 1934	Book 423, P5, 19 G.P.-Fla. Vol. 1, P. 458, P.C. Fla. E Zone, P. 120
FLAGLER MONUMENT, 1934	Book, 423, P6, G.P.-Fla. Vol. 1, P. 456, P.C. Fla. E Zone, P. 120
STAR(STAR ISLAND GREEN WATER TOWER) 1934	Book 423, P6, G.P.-Fla. Vol. 1, P. 449, P.C. Fla. E Zone, P. 117
DINO, 1967	Fla. Vol. II, Page 639
BASE(USE), 1934	Book 423, P7-18-20-23-25

FLORIDA - NOAA Coastal Boundary Mapping Program

Vertical Control - Geodetic

Map TP- 00423

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
✓ 6 (USE) Tidal Mark		C of E cap stamped BM NO 6; 186 ft. E of C of E flagpole, 13.5 ft. W of center of road junction, directly in centerline of black-top driveway, protected by a 12-by-18 in. manhole frame with a cast iron cover.
✓ N 101 (FGS)		Fla. Geod. Sur. disk stamped N 101; 6.6 ft. NW of light pole 164 H 1, 5.2 ft. W of W curb of Washington Ave., 3.6 ft. E of E curb of Drexel Ave., 3.4 ft. SE of parking meter 2X 188.
✓ U 238		C&GS disk stamped U 238 1965; set on top of concrete seawall, 36 ft. N of W-bound lane of causeway centerline, 42 ft. E of road N centerline, 21 ft. S of NW corner of seawall, 9 ft. N of SE end of seawall.
✓ Z 310		C&GS disk stamped Z 310 1970; on the lawn of a public library, on top of E side of concrete base supporting flagpole, 108 ft. N of N curb of 21st St., 50 ft. W of W curb of Collins Ave.
✓ B 313		C&GS disk stamped B 313 1970; at the Municipal Parking Lot 16E at 36th St., set on top of concrete ramp directly over a catch basin, 81.7 ft. S of S curb of 36th St., 57.8 ft. E of E curb of Collins Ave.
✓ D 313		C&GS disk stamped D 313 1970; at the Municipal Parking Lot 19X at 46th St., set in top of NE corner of a 4-ft. sq. concrete wall around metal manhole cover of FP&L Co., 7.2 ft. NW of parking meter 19X 196.
✓ K 314		C&GS disk stamped K 314 1970; set in top of NW corner of concrete catch basin, 55 ft. N of extended centerline of W-bound lane of Port Blvd., 26.9 ft. S of S rail of Port RR track.
✓ U 316		C&GS disk stamped U 316 1970; set in top of N end of W concrete wall for boat basin, 61 ft. S of SE corner of large garage, 3.7 ft. S of a right angle turn in wall.

Compilation Report

TP-00423

July 1973

This report will detail the methods used to compile TP-00423.

Due to the unusual problems encountered in the bridging and compilation of this map, an accounting is submitted with this report.

Bridging photography and tide-coordinated infrared photography was originally flown in 1971. An orthophotomosaic was prepared in March 1973 using 1971 and 1973 color photography. The compilation was completed in July and field edit was completed in September 1973. Upon receipt of the field edit data it was realized that a datum adjustment of all horizontal control was being undertaken by the Geodesy Division. All progress on PH-7113 was halted until the adjustment was made and published.

With this delay, it was apparent that cultural changes and the relocation of fixed aids to navigation would probably result in this map manuscript being obsolete before it could be published.

The following report is for the compilation that was completed in July 1973.

31. Delineation

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

Features behind the shoreline are depicted by the orthophotomosaic. 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. Vertical control datum is water level.

33. Supplemental Data - None34. Contours and Drainage - Inapplicable

35. Shoreline and Alongshore Features

Biscayne Bay, Biscayne Waterway, Indian Creek, and the Atlantic Ocean were delineated by office interpretation of the tide-coordinated infrared MHWL, and MLWL ratio photographs listed on Form 76-36B.

In areas where the shoreline was difficult to interpret, color photographs 71-E-9207-9211, 71-E-9582-9584, and 1973 photography, 73-E-(C) 3015, 3017, and 3019 were viewed stereoscopically for verification. Cultural shoreline changes evident on the 1973 photography were made for field verification.

36. Offshore Details - Inapplicable

37. Landmarks and Aids

Landmarks, landmark buildings and all aids to navigation will be located during field edit. Fisher Island turning basin lights 3, 17, 19, and 20 were plotted photogrammetrically and should be verified by field edit.

38. Control for Future Surveys - None

39. Junctions

North, TP-00420; Mouth, TP-00425; East, Atlantic Ocean; TP-00422.

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report.

41 thru 45.

Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS quads:

Miami, Florida, 1962-photorevised 1969 at 1:24,000

47. Comparison with Existing Nautical Charts

Comparison was made with the following:

847-SC - 1:40,000, 11th Edition dated August 1972.
547 - 1:10,000, 13th Edition dated November 1972.
1248 - 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,

Ronald Rich
Ronald Rich

Approved and Forwarded:

Jeter P. Battley Jr.

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

TP-00423
Addendum to Compilation Report
February 1977

TP-00423 is one of six maps (TP-00419, 420 and TP-00422 thru 425), in PH-7113 that upon examination of the half tone, 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.

In addition, a 1:60,000 scale panchromatic photograph of the Miami Beach area was taken in November 1975 (photo number 75-B-7796). This photograph, covering TP-00423 completely, was rectified to exact standards and is the orthophotomosaic for the entire map. Taken at an altitude of 30,000 feet, with a 6-inch focal length, the photograph afforded excellent tonal quality and minimal building lean.

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 man made changes in the shoreline. (See item 35 of original report.)

The interior shoreline of this map on the 1975 photography validated the revisions made to cultural features with the 1973 photography.

As the field edit was completed in September 1973 using the 1971 and 1973 photographs, some field classification of the type of shoreline had to be revised by office interpretation of the November 1975 photography. This was basically the changing of "fast" shoreline to apparent and/or small cultural shoreline revisions.

Submitted by:

Jeter P. Battley, Jr.
J. P. Battley, Jr.

Field Edit Report, Map TP-00423, Job PH-711351. METHODS

The shorelines of the Atlantic Ocean and Biscayne Bay were inspected by a small boat while cruising just offshore. The area south of Government Cut was inspected from a low flying plane. Notes regarding apparent and fast shoreline, piers and other shoreline features were made on the rectified photographs. The unlabeled areas are bulkheaded since this was the prominent feature.

Seven landmarks are recommended for charting. One radio tower was identified on photograph 71E9207 and six are triangulation stations. Six charted landmarks are recommended for deletion since they are either destroyed or lost their value as landmarks. Forms 76-40 are submitted.

Forms 76-40 are submitted for 30 nonfloating aids. Four of the aids were not in place at the time of survey. Three range lights were identified on photograph 73L3019. Five aids were verified from office location. Eighteen aids were located by sextant and theodolite cuts.

Bench marks were identified on the photographs. One tide gage was identified on photograph 71E9208. The name of the tide gage, on the pier on Miami Beach, is not available in the field.

All triangulation stations on the manuscript were searched for. Forms 526 are submitted for stations lost or destroyed and for stations whose description requires modification.

See General Highway Map Dade County submitted with TP-00422 for state and federal highway numbers.

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

The MLW was verified using Miami, Biscayne Bay tidal bench mark. The range of tide at the time of verification was 0.5 to 0.2 feet above mean low water. The area west of and south-west of Fisher Island was walked over using a staff to reduce the water level to mean low water. Small changes were found on the compilation and have been noted on the low water photographs. No data was available for the gage on Miami Beach pier. The mean low water appears good taken from the low water photographs along the Atlantic Ocean shoreline.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

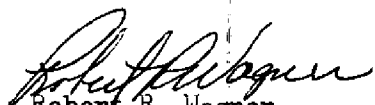
54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 9/28/73


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-00423
May 1979

61. General

The numerous delays in the compilation of Coastal Zone Map TP-00419, TP-00420, and TP-00422 thru TP-00426 are adequately explained in the Compilation Reports.

The registration copy and field edit sheet for TP-00423 are not available at this time. A new registration copy was furnished by the Reproduction Division.

The Class III map for Coastal Zone Map TP-00423 was inspected prior to field edit. This inspection comprised an examination of the manuscript, photography discrepancy print, and report.

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

The proof copy was edited by the Quality Control Group prior to publication. This edit comprised a thorough inspection of map details to verify the accuracy 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 charts:

Miami, Florida, 7.5 minutes, 1:24,000 scale, dated 1962, photo revised 1969

11468, 20th Edition, 1:10,000 scale, dated March 17, 1979

11467, 17th Edition, 1:40,000 scale, dated July 8, 1978

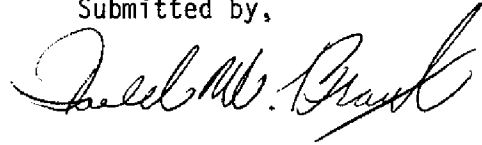
No significant changes were noted

63. thru 65. - Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00423 complies with the instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by,

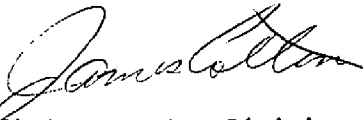


Donald M. Brant

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Photogrammetry Division

July 5, 1977

GEOGRAPHIC NAMES

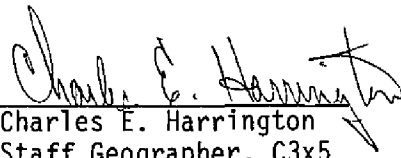
FINAL NAME SHEETS

PH-7013 (Florida)

TP-00423

Atlantic Ocean	Miami Beach
Belle Isle	Norris Cut
Biscayne Bay	Palm Island
Biscayne Waterway	Rivo Alto Island
Collins Canal	Sams Island
De Lido Island	San Marco Island
Fisher Island	San Marino Island
Fishermans Channel	Star Island
Government Cut	Sunset Islands
Hibiscus Island	Sunset Lake
Indian Creek	Surprise Lake
Lake Pancoast	Venetian Islands
Lummus Island	Virginia Key
Main Channel	Port of Miami (Dodge Island)
Meloy Channel	

Approved:


Charles E. Harrington
Staff Geographer, C3x5

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

TERMINAL
VERSION
09/20/76

* SVY	TP-00423	* NONFLOATING AIDS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE 1 OF 5
* JOB	PH-7113	* TO BE CHARTED	* STATE	FLORIDA	* ORIGINATING ACTIVITY*
* PRJ	833205		* LOCALITY	MIAMI BEACH	* COMPILATION
* DTM	NA. 1927		* DATE	03/21/77	

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

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

BISCAYNE BAY

STATION	TIME	DATE	TIME	DATE	TIME	DATE
MIAMI BEACH CHANNEL	25 49	54.94	1690.6	NOT	*	*
MIAMI BEACH CHANNEL	80 08	06.10	169.9	DG170*	*	*
MIAMI BEACH CHANNEL	11 22	75	11467	*	*	*

NO	DATE	TIME	FROM	TO	REMARKS
1	25	49	33.96	1045.0	NOT
2	25	49	33.96	1045.0	NOT
3	25	49	33.96	1045.0	NOT
4	25	49	33.96	1045.0	NOT
5	25	49	33.96	1045.0	NOT
6	25	49	33.96	1045.0	NOT
7	25	49	33.96	1045.0	NOT
8	25	49	33.96	1045.0	NOT
9	25	49	33.96	1045.0	NOT
10	25	49	33.96	1045.0	NOT
11	25	49	33.96	1045.0	NOT
12	25	49	33.96	1045.0	NOT
13	25	49	33.96	1045.0	NOT
14	25	49	33.96	1045.0	NOT
15	25	49	33.96	1045.0	NOT
16	25	49	33.96	1045.0	NOT
17	25	49	33.96	1045.0	NOT
18	25	49	33.96	1045.0	NOT
19	25	49	33.96	1045.0	NOT
20	25	49	33.96	1045.0	NOT
21	25	49	33.96	1045.0	NOT
22	25	49	33.96	1045.0	NOT
23	25	49	33.96	1045.0	NOT
24	25	49	33.96	1045.0	NOT
25	25	49	33.96	1045.0	NOT
26	25	49	33.96	1045.0	NOT
27	25	49	33.96	1045.0	NOT
28	25	49	33.96	1045.0	NOT
29	25	49	33.96	1045.0	NOT
30	25	49	33.96	1045.0	NOT
31	25	49	33.96	1045.0	NOT
32	25	49	33.96	1045.0	NOT
33	25	49	33.96	1045.0	NOT
34	25	49	33.96	1045.0	NOT
35	25	49	33.96	1045.0	NOT
36	25	49	33.96	1045.0	NOT
37	25	49	33.96	1045.0	NOT
38	25	49	33.96	1045.0	NOT
39	25	49	33.96	1045.0	NOT
40	25	49	33.96	1045.0	NOT
41	25	49	33.96	1045.0	NOT
42	25	49	33.96	1045.0	NOT
43	25	49	33.96	1045.0	NOT
44	25	49	33.96	1045.0	NOT
45	25	49	33.96	1045.0	NOT
46	25	49	33.96	1045.0	NOT
47	25	49	33.96	1045.0	NOT
48	25	49	33.96	1045.0	NOT
49	25	49	33.96	1045.0	NOT
50	25	49	33.96	1045.0	NOT
51	25	49	33.96	1045.0	NOT
52	25	49	33.96	1045.0	NOT
53	25	49	33.96	1045.0	NOT
54	25	49	33.96	1045.0	NOT
55	25	49	33.96	1045.0	NOT
56	25	49	33.96	1045.0	NOT
57	25	49	33.96	1045.0	NOT
58	25	49	33.96	1045.0	NOT
59	25	49	33.96	1045.0	NOT
60	25	49	33.96	1045.0	NOT
61	25	49	33.96	1045.0	NOT
62	25	49	33.96	1045.0	NOT
63	25	49	33.96	1045.0	NOT
64	25	49	33.96	1045.0	NOT
65	25	49	33.96	1045.0	NOT
66	25	49	33.96	1045.0	NOT
67					

* DYNB *	DITTO	* 25 49 08.39	258.2.	NOT *	* P-5	* 75BC7912
----------	-------	---------------	--------	-------	-------	------------

[illegible][illegible]

 * 20 *
 * 80 08 48.80 1359.3 DGTZD*

 * DITTO *

* *			*	DITTO	*
* *	80	08	54.98	1531.5	D67ZD*
* *	21	*			

[illegible]

	DITTO	* * *	25 48 08.23	253.3	NOT *	* * *	DITTO	*
DYBN *		* * *	80 09 04.32	120.3	DGTZO*	* * *		*
26								

[illegible]

POSITIONS DETERMINED	ROBERT R. WAGNER	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	PATRICK J. DEMPSEY	OFFICE COMPILER
FIELD AND OFFICE	N/A	DIGITIZER
ACTIVITIES	JAMES H. TAYLOR	DATA PROCESSER

76-400

PHOTOGRAMMETRIC BRANCH

COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY

DEPARTMENT OF COMMERCE USA

TERMINAL

VERSION

09/20/76

LISTING

SVY

IP-00423

RPT UNIT

CMD ROCKVILLE, MD.

PAGE

2 OF 5

JOB

PH-7113

STATE

FLORIDA

PRJ

833205

LOCALITY

MIAMI BEACH

DTM

NA 1927

DATE

03/21/77

NONFLOATING AIDS FOR CHARTS

TO BE CHARTED

ORIGINATING ACTIVITY

COMPILATION

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

DESCRIPTION

POSITION

CODES

METHOD AND DATE

CHARTING

RECORD REASON FOR DELETION

OM

OF LOCATION

CHARTS

NAME

PUT TRIANGULATION NAMES IN ()

LONGITUDE

DP

OFFICE

FIELD

AFFECTED

✓

DYBN

30

BISCAYNE BAY

MIAMI BEACH CHANNEL

25 47 37.11

1142.0

NOT

P-5

11/22/75

11451

✓

DYBN

2

MIAMI BEACH CHANNEL

FLAGLER MONUMENT DAYBEACON 2

25 47 03.58

110.2

NOT

P-5

11/22/75

11467

MIAMI HARBOR

11/22/75

758C7919

11468

✓

ENT

RG

MIAMI MAIN CHANNEL

ENTRANCE RANGE FRONT LT.

25 45 04.80

147.7

NOT

P-5

11/24/75

DITTO

✓

FRT

LT

MIAMI MAIN CHANNEL

GOVERNMENT CUT RANGE FRONT LT.

25 45 09.69

298.2

NOT

P-1

09/13/73

DITTO

✓

LIGHT

13

MIAMI MAIN CHANNEL

25 45 50.97

1568.5

NOT

P-5

11/24/75

DITTO

✓

LIGHT

3

FISHER ISLAND TURNING BASIN

25 45 57.12

1757.7

NOT

P-L-4-8

03/25/76

DITTO

✓

LIGHT

17

MIAMI MAIN CHANNEL

25 46 00.84

25.8

NOT

P-5

11/24/75

DITTO

✓

LIGHT

19

DITTO

25 46 12.04

370.5

NOT

P-L-4-8

03/25/76

DITTO

✓

LIGHT

21

DITTO

25 46 23.11

711.1

NOT

P-5

11/24/75

DITTO

TYPE OF ACTION

NAMES OF RESPONSIBLE PERSONNEL

ORIGINATOR

POSITIONS DETERMINED

AND/OR VERIFIED BY

FIELD AND OFFICE

ACTIVITIES

ROBERT R. WAGNER

PATRICK J. DEMPSEY

N/A

JAMES H. TAYLOR

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSER

76-40
LISTINGPHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISIONNATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USATERMINAL
VERSION
09/20/76

* SVY TP-00423 * RPT UNIT CMD ROCKVILLE, MD. * PAGE 3 OF 5 *
* JOB PH-7113 * NONFLOATING AIDS FOR CHARTS * STATE FLORIDA *
* PRJ 833205 * TO BE CHARTED * LOCALITY MIAMI BEACH *
* DTM NA 1927 * DATE 03/21/77 *
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *
* DESCRIPTION * POSITION * CODES * METHOD AND DATE *
* CHARTING * RECORD REASON FOR DELETION * LATITUDE DM * OF LOCATION * CHARTS *
* NAME * PUT TRIANGULATION NAMES IN () * LONGITUDE DP * OFFICE * FIELD * AFFECTED *
* ORIGINATING ACTIVITY *
* COMPILATION *

MIAMI HARBOR

* DYBN * FISHERMANS CHANNEL * 25 45 53.88 1658.0 NOT * P-5 * 11451 *
* 2 * 80 08 56.49 1574.2 DGTZD * 11/22/75 * 11467 *
* 758C7926 * 11468 *
* DYBN * DITTO * 25 45 52.16 1605.1 NOT * P-L-4-8 * DITTO *
* 3 * 80 09 07.06 196.7 DGTZD * 03/25/76 * DITTO *
* DYBN * DITTO * 25 45 53.40 1643.2 NOT * P-5 * DITTO *
* 5 * 80 09 27.72 772.4 DGTZD * 11/22/75 * DITTO *
* 758C7926 *
* DYBN * DITTO * 25 45 56.21 1729.7 NOT * P-5 * DITTO *
* 6 * 80 09 44.21 1232.0 DGTZD * 11/22/75 * DITTO *
* 758C7927 *
* DYBN * DITTO * 25 45 56.08 1725.7 NOT * DITTO * DITTO *
* 8 * 80 10 00.01 3 DGTZD * DITTO *
* DYBN * DODGE ISLAND CHANNEL * 25 46 21.78 670.2 NOT * P-5 * DITTO *
* 1 * 80 09 37.56 1046.6 DGTZD * 11/22/75 * DITTO *
* 758C7926 *
* DYBN * DITTO * 25 46 14.67 451.4 NOT * DITTO * DITTO *
* 3 * 80 09 41.10 1145.2 DGTZD * DITTO *
* DYBN * DITTO * 25 46 06.13 188.6 NOT * DITTO * DITTO *
* 5 * 80 09 45.63 1271.5 DGTZD * DITTO *
* DYBN * DITTO * 25 46 05.24 161.2 NOT * DITTO * DITTO *
* 7 * 80 09 45.38 1264.5 DGTZD * DITTO *
* 6 * DITTO *
* DITTO *

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

76-40

PHOTOGRAMMETRIC BRANCH

COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY

DEPARTMENT OF COMMERCE USA

NOAA

09/20/76

SVY TP-00423

PH-7113

PRJ 833205

DTM NA 1927

LANDMARKS FOR CHARTS

TO BE CHARTED

RPT UNIT

STATE

LOCALITY

DATE

CMD ROCKVILLE, MD.

FLORIDA

MIAMI BEACH

03/21/77

PAGE 4 OF 5

ORIGINATING ACTIVITY

COMPILATION

THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS:

CHARTING

RECORD REASON FOR DELETION

DESCRIPTION

POSITION

CODES

METHOD AND DATE

NAME

PUT TRIANGULATION NAMES IN ()

LATITUDE

DM

LONGITUDE

DP

C-G

SEQ

OFFICE

FIELD

CHARTS

AFFECTED

THE POSITIONS FOR THE FOLLOWING LANDMARKS, THAT ARE PUBLISHED TRIANGULATION STATIONS, WERE ERRONEOUSLY SUBMITTED IN APRIL 1975 WITH DIGITIZED VALUES.

CUPOLA

(MIAMI BEACH, FLORIDIAN HOTEL)

25 46 29.38

904.1

NOT

TRIANG. REC

11451

CUPOLA

(1935) HT=138(143)

80 08 32.05

893.0

DGTZD

11/24/75

11467

TANK

(SOUTH MIAMI BEACH, WATER TANK)

25 46 09.03

277.9

NOT

DITTO

11468

TANK

(GREEN) 1928 HT=133(138)

80 08 14.85

413.8

DGTZD

DITTO

CLOCK

(BLACKSTONE, HOTEL CLOCK TOWER)

25 46 41.12

1265.4

NOT

DITTO

TOWER

(1934) HT=170(175)

80 08 02.36

65.8

DGTZD

DITTO

MONU-

(FLAGLER MONUMENT, 1934)

25 47 05.17

159.1

NOT

DITTO

MENT

HT=90(95)

80 09 10.72

298.7

DGTZD

DITTO

MONU-

(STAR ISLAND GREEN WATER)

25 46 36.70

1129.3

NOT

DITTO

MENT

(TOWER), 1934)

80 09 03.00

83.6

DGTZD

DITTO

TOWER

(SQUARE TOWER, 1934)

25 49 35.25

1084.7

NOT

DITTO

TOWER

HT=82(87)

80 08 01.23

34.3

DGTZD

DITTO

44

OBJECTS INSPECTED FROM SEAWARD

POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES

ROBERT R. WAGNER

ROBERT R. WAGNER

PATRICK J. DEMPSEY

N/A

JAMES H. TAYLOR

PHOTO FIELD PARTY

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSER

76-40

TERMINAL
VERSION
09/20/76

76-40

LISTING

PHOTOGRAMMETRIC BRANCH

COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY

DEPARTMENT OF COMMERCE USA

NOAA

9/20/76

TERMINAL

VERSION

SVY TP-00423

PH-7113

PRJ 833205

DTM NA 1927

RPT UNIT

STATE

LOCALITY

DATE

CMD ROCKVILLE, MD.

FLORIDA

MIAMI BEACH

03/21/77

PAGE

5 OF

5

LANDMARKS FOR CHARTS

TO BE CHARTED

ORIGINATING ACTIVITY

COMPILATION

THE FOLLOWING OBJECTS

HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

DESCRIPTION

RECORD REASON FOR DELETION

PUT TRIANGULATION NAMES IN ()

POSITION

C-C

SEQ

METHOD AND DATE

OF LOCATION

FIELD

CHARTS

AFFECTED

TOWER

RADIO TOWER WMBM

HT=183(188)

25 46 09.03

277.9

NOT

75BC8192

11/24/75

11451

11467

11468

TOWER

RADIO TOWER WKAT

HT=207(212)

25 47 33.81

1040.4

NOT

75BC7917

11/22/75

DITTO

THE FOLLOWING WERE POSITIONED BY

AEROTRIANGULATION ANALYTIC BRIDGE.

TYPE OF ACTION

NAMES OF RESPONSIBLE PERSONNEL

ORIGINATOR

OBJECTS INSPECTED FROM SEAWARD

POSITIONS DETERMINED

AND/OR VERIFIED BY

FIELD AND OFFICE

ACTIVITIES

ROBERT R. WAGNER

ROBERT R. WAGNER

PATRICK J. DEMPSEY

N/A

JAMES H. TAYLOR

PHOTO FIELD PARTY

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSOR

National Archives Data
for
TP-00423

1 Discrepancy print (paper copy)

1 Form 76-36C

5 Forms 76-40

Pages of sketchbook (field notes)

Photographs:

73-L-3017 thru 3019

71-E-9207

9209

9210

9211

9583

9584