#### 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-00425  Classification No. Final Edition No 1
LOCALITY
State Florida
General Locality . Dade .County
Locality Virginia Key to Key Biscayne
·
1971 TO 1975
REGISTRY IN ARCHIVES
DATE

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

NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN.	т	YPE OF SURVEY	SURVEY	тр. 00425
	COLANO ALMOSPILLAJO ADMIN.	0	ORIGINAL	MAP EDIT	ION NO. (L)
DESCRIPTIVE REI	PORT - DATA RECORD	0	RESURVEY	MAP CLAS	s I Final
			REVISED	JOB	PH- <u>7113</u>
PHOTOGRAMMETRIC OFFICE			LAST PRECEED	ING MAP EDI	TION
j		_ _	YPE OF SURVEY		PH
Rockville, Maryl	and		ORIGINAL	•	is —
OFFICER-IN-CHARGE			RESURVEY	SURVEY D	ATES:
Commander James	Colling		REVISED	19TO 1	9
I. INSTRUCTIONS DATED	Collins	•			
	OFFICE	1	2.	FIELD	
	OFFICE-NOS Cooperative	A	erial Photogra		59
	ng Job PH-7000 June 19,	1	upplement I		
1973			upplement II		
OFFICE-Supplement I,		S	upplement III	8/10/70	)
NOTE: Office and fiel	d edit instructions (197	β) F.	ield Edit (PH-	7000, Ger	eral Instruc-
incorporate applicabl	e prior operational		tion for Flor:	ida Coast	al Zone
instructions			Mapping) (1973		
OFFICE-Supplement II,	Sept. 24, 1973				
II. DATUMS		ТОТНЕ	R (Specify)		
1. HORIZONTAL:	XX 1927 NORTH AMERICAN		(opeony)		
	VVI MEAN INC. WATER	OTHE	R (Specify)		<del>-</del>
	XX MEAN HIGH-WATER XX MEAN LOW-WATER	ŀ			
2. VERTICAL:	MEAN LOWER LOW-WATER				
	MEAN SEA LEVEL	L			
3. MAP PROJECTION				GRID(S)	
m		STAT		ZONE	
Transverse Mercator		Flo	orida -	East ZONE	•
5. SCALE 1:10,000		3 ' 2 '	-	120112	
III. HISTORY OF OFFICE OPER	ATIONS	1		<u></u> .	
OPE	RATIONS	<u> </u>	NAME		DATE
1. AEROTRIANGULATION	ВУ	V.N	McNeel-I.O. Rab	orn	6/74-6/76
METHOD:	LANDMARKS AND AIDS BY	Ina	applicable		
2. CONTROL AND BRIDGE POIN			Phillips-J.Tay	lor	2/73-12/76
METHOD:	CHECKED BY		pplicable		
3. STEREOSCOPIC INSTRUMENT		Ina	pplicable		
COMPILATION	CHECKED BY	T			<del>                                     </del>
INSTRUMENT: SCALE:	CONTOURS BY	Ina	pplicable		<u> </u>
4. MANUSCRIPT DELINEATION	CHECKED BY PLANIMETRY BY	l c	Fromm-J.McClur		10 /73 - 12 /76
Shoreline: Graphic	CHECKED BY	J.F	P. Battley, Jr.	<u>e</u>	10/73-12/76 10/73
1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		Taylor		3/73-12/76
METHOD: Interior:Orth	nophotomosaic <u>снескев ву</u>		. Battley, Jr.		3/73-12/76
SCAL E.	HYDRO SUPPORT DATA BY	Ina	pplicable		
scale: 1:10,000	CHECKED BY	<u> </u>		,,	· <u>·</u>
5. OFFICE INSPECTION PRIOR			P. Battley. Jr	•	1/74
6. APPLICATION OF FIELD ED			Taylor		10/74
7 COMPLIATION SECTION SEX	CHECKED BY	<del>                                     </del>	Dempsey-C. Le	wis	10/74
7. COMPILATION SECTION REV	IEW BY	1	Brant	MID	1/77-3/77 3/77
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10. DATA EXAMINED IN PHOTOG	OGRAMMETRIC BRANCH BY		Brant		4/77
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NOAA FORM 76-36B 3-72)				N.	ATIONAL OCE		AT MOS PHE	ERIC AD	OF COMMERCE MINISTRATION
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TP-00425	CDABUY	<del></del>							
CAMERA(S)	VKAFII		TYPE	S OF BU	OTOGRAPHY	<del></del>			
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71-E(C) 9202-9206		Mar 71			1:20,000	In	applica		
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73~L(C)2884 & 28		Mar 73			1:20,000	In	applica	able	
75-B-8022, 8024,	8026	Nov 75	ļ	,	1:30,000	l l			ļ
75 <b>~B</b> -8179	1 -	Nov 75		l	1:15,000				
71~K-5657R-5658R	24	Feb 71		l	1:30,000	The	e stage	of t	ide for t
71~K-5802R-5805R	. 2	Mar 71			1:30,000	•	_		omatic ph
				ſ					plicable
				1		Re	fer to dal inf	Form	76-36B-1
REMARKS							Iai IIII	Ormat	.1011.
were also used to Ocean side of Vir interpretation of	rginia Key	between	25°44'15	5" and	l 25°45' w	as comp	piled f	rom o	ffice
3. SOURCE OF MEAN LO	W.WATER OR M	FAN LOWER LO	NW.WATER 1	INF:		<del></del>			
The source of the raphy listed unde between 25°44'15' 1975 photography	er item 1. " and 23°4	The MLW. 5' was con	L on the mpiled f	e Atla from o	ntic Ocea ffice int	n side	of Vir	ginia	Key
4. CONTEMPORARY HYD	ROGRAPHIC SU	IRVEYS (List o	only those su	irveys the	et are sources fe	or photogra	nmetric sui	rvey info	rmation.)
SURVEY NUMBER DA	TE(S)	SURVEY COF	PY USED	SURVE	NUMBER	DATE(5)	s	URVEY	COPY USED
Inapplicable									
. FINAL JUNCTIONS									
	EAST	1		SOUTH			WEST		
	ه At	lantic Oce	ean	TP-0	U427&TP-0	0428	TP-	00424	
	were made	in the Coa	astal Ma	npina	Section				
NORTH FP-00422&TP-00423 REMARKS Final junctions w	3 At	lantic Oce		TP-0	0427&TP-0	0428		00	424

NOAA FORM 76-36B(1)

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

## TIDE - COORDINATED PHOTOGRAPHY

**TP** -00425

	00423		
LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
ATLANTIC SHORELINE			
71K 5802-5805	Miami, Biscayne Bay	+0.18 MHW	2.14
71K 5657-5658R	North Miami, Biscayne Creek	+0.50 MLW	2.19
71K 5658	Ragged Keys, Biscayne Bay	+0.22 MLW	1.64
INTERIOR WATERS			
71K 5802-5805R	Miami, Biscayne Bay	+0.18 MHW	2.14
71K 5657-5658R	North Miami, Biscayne Creek	* +0.50 MLW	2.19
71K 5658R	Ragged Keys, Biscayne Bay	+0.22 MLW	1.64
71K 5817R	Miami, Biscayne Bay	+0.26 MHW	2.14
REMARKS:			
		1	

Where the MHWL was obscured by vegetation, such as mangrove, the apparent shoreline was delineated.

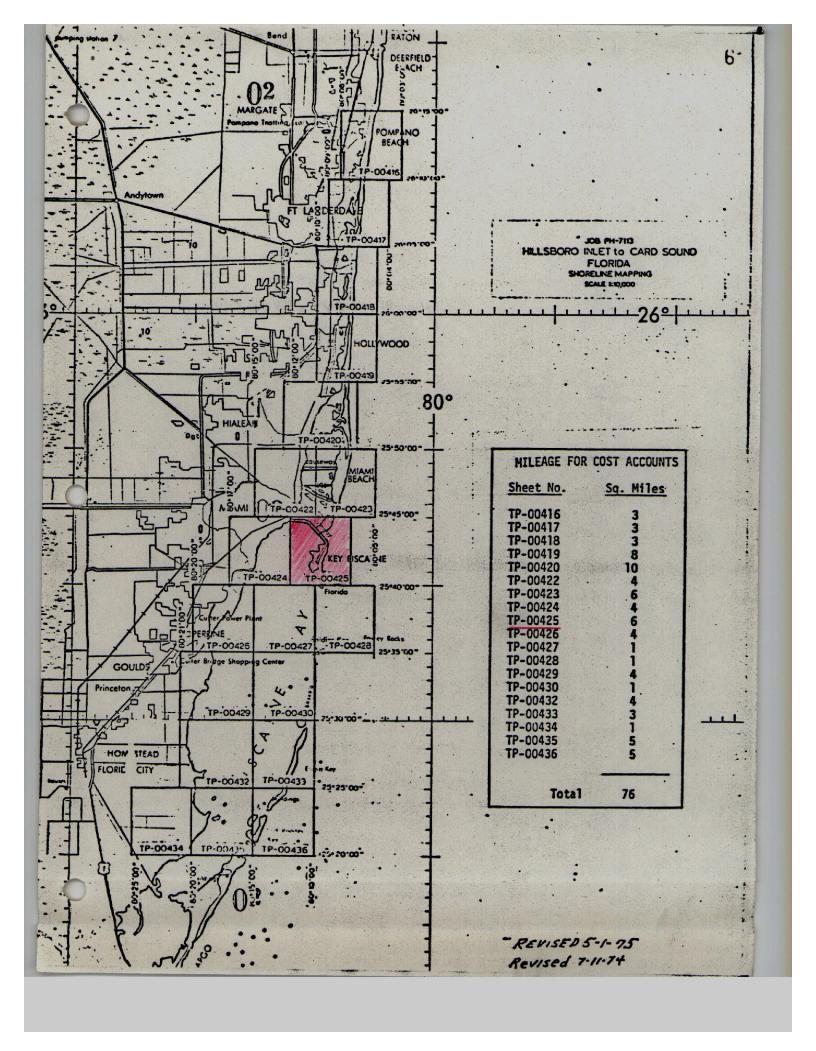
\* - The stage of the tide tolerance is greater than  $\pm$  0.30 ft. specified in the instructions for some of the photography used in compiling portions of the MHW and MLW lines: The horizontal positions of these lines was verified by field edit.

REMARKS:

Sketchbook with sextant fixes, one planetable sheet

- The field report is bound with this Descriptive Report

NOAA FOR (3-72)	RM 76-36D		N.	ATIONAL OCEANIC		IT OF COMMERCE ADMINISTRATION
TP-004	425	RECO	RD OF SURVE	Y USE		
	RIPT COPIES					<del></del>
I. MANUS		MPILATION STAGE	<u> </u>		DATE MANUSCRI	PT FORWARDED
t	DATA COMPILED	DATE	T	MARKS	<u> </u>	HYDRO SUPPORT
-	MLWL, Shoreline				WILLIAM CONTROL	THE BRO SOFT OR T
	shore features	Oct. 1973	No copies	of TP-00425 w	ere furnished	to the
Applica field e	ation of edit	10/74	Marine Cha	rt Division b	efore final 1	eview.
	thophotomosaic with notography;	12/76				
Revised pilatio	d shoreline com-	3/77		ished for cha R-511-PE-77	rt adequacy	
II. LANDM	IARKS AND AIDS TO NAVIGA	TION				
1. REP	ORTS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	<u> </u>	REN	ARKS	
		3/9/77	5 digitize	d pages of Fo	rm 76-40 have	e been
			forwarded t	to the Marine	Chart Divisi	on as
			a final re	oort.		
:						
				•		
	REPORT TO MARINE CHART					
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 RECOR	RDS CENTER. DAT	E FORWARDED:			
IV. SURV	EY EDITIONS (This section s			o edition is registered		
SECOND	TP -	(2) PH		☐ RE	TYPE OF SURVEY	URVEY
EDIT10N	DATE OF PHOTOGRAPH	TY DATE OF FI	ELD EDIT	 	MAP CLASS □ IV. □ V.	FINAL
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
THIRD	TP	_ (3) PH		RE	VISED RES	URVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF FI	ELD EDIT	□n. □m.	MAP CLASS □IV. □V.	☐ PINAL
	SURVEY NUMBER	<b>ЈОВ ИЏМВЕ</b>	R	_	TYPE OF SURVEY	
FOURTH					VISED LRES	ĴŔVEY
EDITION	DATE OF PHOTOGRAPH	HY DATE OF FI	ELD EDIT		MAP CLASS	∏einai



Coastal Zone Map TP-00425 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-00425 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-00425 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.

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

## 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. PointsA 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 points 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

Chief, Photo Party 66

12/01/75



#### FIELD RESC.T

#### JOBS PH-7010 and PH-7113

In accordance with Instructions - FIELD - PH-7010, Aerotriangulation Control, and Instructions - FIELD - Job PH-7113; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Florida, the following report is submitted.

## 1. HORIZONTAL CONTROL

The two jobs are treated as one for report purposes, targets on Job PH-7010 being replaced in approximately the same positions as they were in November 1970.

Twenty-one stations were premarked for 1:30,000 scale color photography. Where feasible, Array No. 1 was used, being a 9-foot triangle with 3 runners or wing panels of 2 x 20 ft. dimensions. Several variations were used as the area is highly developed, particularly in the southern part, and space was not always available. The CSI cards are believed to be adequate to explain the variations but some discussion is in order.

From north to south the first 8 stations are Array No. 1 with varying degrees of angle between the wing panels.

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

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

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

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

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

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

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

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

We were advised by the Commander of aircraft that Line 30-1, Job 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, Kiama(7) Biscayne Bay, Cutler
- Biscayne Bay, Turkey Point (8)
- (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 SCUND. 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 Earch 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 TAR YACHT CLUB, was photographed at 1444 to 1449 hrs. when the tide staff read 1.7 ft.

- (4) An 8 mile segment of line 30-1, based on ANDREWS AVENUE BRIDGE was photographed at 1511 to 1515 hrs., when the staff read 1.8 ft.
- (5) Line 30-2, based on BISCAYNE BAY, MIAMI, and flown south to north, was photographed at 1259 to 1305 hrs., when the staff read 2.2 feet.
- (6) Line 30-3, based on BISCAYNE BAY, MIAMI and BIS-CAYNE CREEK, NORTH MIAMI, flown south to north, was photographed at 1319 the 1324 hrs, when the BISCAYNE Bay, Miami staff read 2.1 and the BISCAYNE CREEK staff read 3.1, both ends of the line being with tolerance.
- (7) Line 30-2 was then photographed again, based on BISCAYNE CREEK, NORTH MIAMI, and flown from north to south at 1330 to 1336 hrs when the staff reading was 3.1.

This ended the low-water photography.

### 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, MIAWL and BIS-CAYNE CREEK, NORTH HIALI, was photographed at 1254 to 1300 hrs. when the BISCAYNE BAY, RIAWI 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, MIAM and BIS-CAYNE BAY, CUILER, was photographed at 1319 to 1325, when the MIAMI staff read 4.5 and CUILER read 4.8 ft.

This ends the high-water photography.

### 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 PCMPANO 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 andazimuth 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 lowwater 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. Shearows 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. The points were located in this area and the 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)9588-9662

## 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.

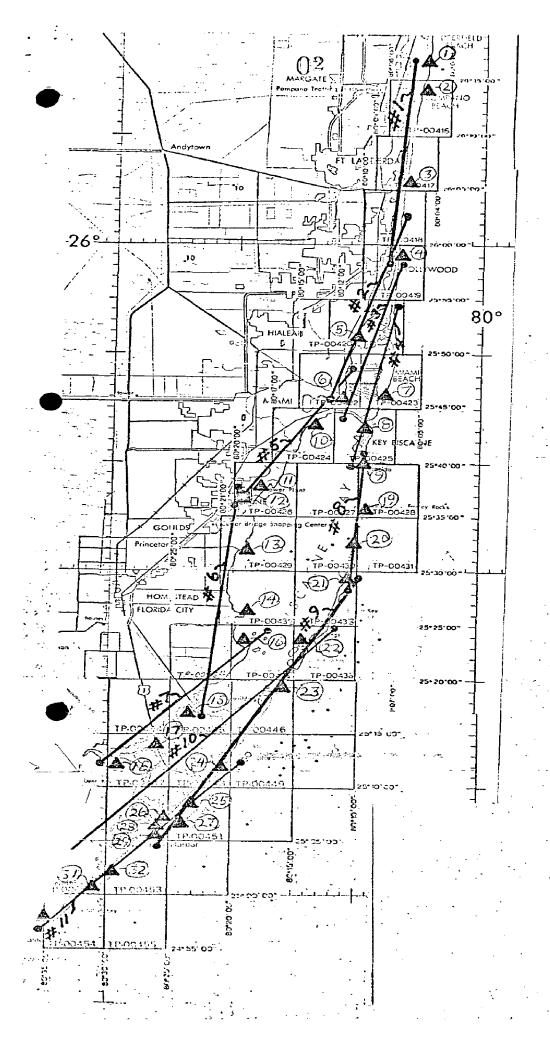
Respectfully submitted,

Victor McNeel

Approved and forwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section



JOB PH-7113 AND JOB PH-7119

HILLSBORO INLET TO PLANTATION KEY, FLORIDA

CONTROL STATIONS USED IN THE ADJUSTMENTS

# CONTROL STATIONS

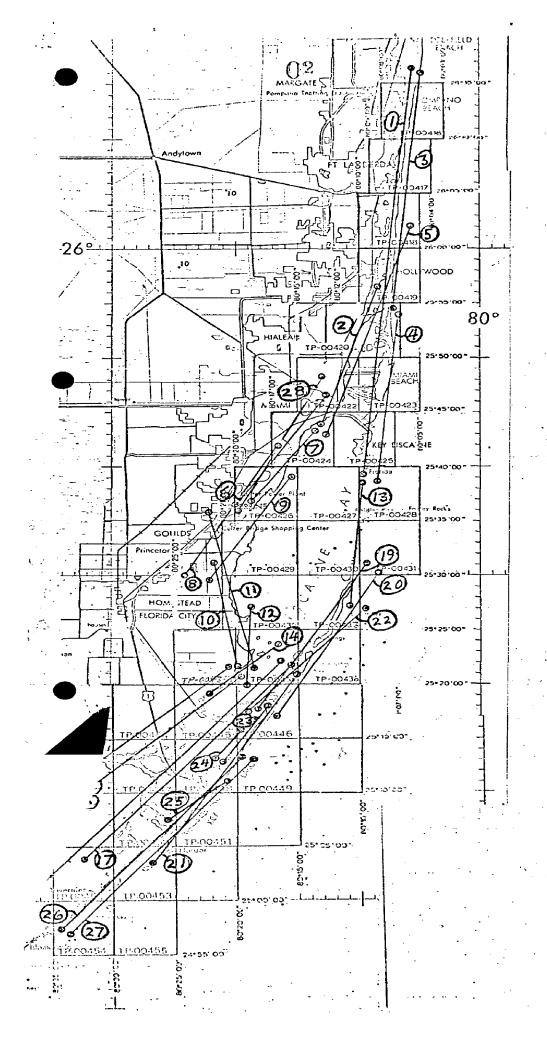
		:	residuals	
1.	(027100)	Turtle 1929	-0.706	-0.115
2.	(023102)	Pompano, 1928, subpoint B	1.488	-0.229
3.	(023102)	South Jetty, 1938	-1.134	0.176
	(034101)		0.317	
4.	•	Halland, 1928		-0.007
5.	(567101)	Causeway, 1934	0.027	-0.012
6.	(562101)	Point View, 1934		-0.181
7.	(207100)	Base, 1934	0.112	0.142
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) at	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
	(914101)		0,153	-0.155
	(919100)	Hull Key, 1852	-0.053	
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
		Tavernier, 1935	0.308	-1.325
- •	•	Planter 2, RM 4	-1.476	1.087
		Snake, 1934, subpoint	0.128	0.174

\*\* means not used in adjustments

### INFRA-RED CONTACT PRINTS

- 71k 5632r 5660r MLW
- 2. 71K 5662R 5672R MLW
- 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 6420k 6423k 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 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 aerotrinagulation 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

USCS 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,

Approved and Forwarded:
folia D. Peurow, Ju.

Ivey O. Raborn, Jr.

John D. Perrow, Jr. Chief, Aerotriangulation Section

# LIST AND ACCURACY OF CONTROL USED IN STRIP ADJUSTMENT

	POINT	X - Error	Y - Error
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-00425

	710112071101 CO111101 Mup 17 -0042:
Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
KEY BISCAYNE NORTH BASE 1849	* Bk. 423, Pg. 20 -
	* - Copy of unadjusted field horizontal control was used.
2.2	
	·

# FLORIDA – NOAA Coastal Boundary Mapping Program

Vertical Control – Geodetic

Map TP - 00425

	Geodetic	Elevations (feet)	
į	Bench Mark	SLD 1929	Condensed Description
$\nearrow$	V 316		C&GS disk stamped V 316 1970; 120 ft. E of road centerline, 1.9 ft. NW of NW gate post in chain link fence around power sub-station.
X	MI 6 (DWC)		Dade County Engineer's 1-inch brass plug stamped DWC BM MI 6; set in top of NW end of SW concrete guard rail to Bear Cut Bridge over Biscayne Bay.
*	MI 8 (DWC)		Dade County Engineer's 1-inch brass plug stamped DWC BMI 8; 37 ft. E of S-bound lane of causeway centerline, 39.5 ft. N of driveway centerline, 1.1 ft. SE of matal witness post.
*	MI 12 (DWC)		Dade County Engineer's 1-inch brass plug stamped DC BM MI 12; 251 ft. N of junction center of S-bound lane of causeway and driveway leading W to fire station, 29 ft. E of S-bound lane centerline of causeway, 1.5 ft. E of metal witness post.
X	MI 15 (DC)		Dade County Engineer's 1-inch brass plug stamped DC BM 15 MI; 23 ft. E of centerline of S-bound lane of Blvd., 22.6 ft. W of centerline of N-bound lane of Blvd., 1.2 ft. S of metal witness post.
$\times$	KB 9 (DC)		Dade County Engineer's PK nail stamped DADE COUNTY KB 9; set in top of N concrete wall of concrete manhole with metal cover, 18 ft. W of main road centerline.
			, •
			·
:			

X5/24/17

#### COMPILATION REPORT TP-00425 October 1973

This report will detail the methods used to compile TP-00425.

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

Bridging photography and tide-coordinated, infrared photography was originally flown in 1971. An orthophotomosaic was prepared in March 1973 and a manuscript was compiled in October 1973.

Copies of the manuscript were sent for edit in January 1974 and edit was completed in August 1974.

All progress on PH-7113 was halted pending a decision on a datum adjustment of horizontal control by Geodesy (see plot report dated July 1974).

With this delay, it was apparent that cultural shoreline changes and the relocation of fixed aids to navigation might make this map manuscript obsolete before it could be published. The following report is for the compilation that was completed in October 1973.

#### 31. Delineation

All features were delineated by graphic compilation. Control for the graphic compilation consisted of map points, determined in aerotriangulation, and planimetric features.

The natural shoreline, MHWL and MLWL were compiled using ratioed, tide-coordinated, black-and-white infrared photography.

Man made features and alongshore features were compiled from rectified black-and-white prints of the color photography and supplemented by the ratioed, infrared and color contact prints.

Interior features were depicted by an orthophotomosaic from rectified black-and-white print of the color photography.

Due to the importance of proper interpretation and symbolization of features, a field edit will be made.

#### 32. Control

Horizontal control was adequate. (See Photogrammetric Plot Report.)

#### 33. Supplemental Data - None

#### 34. Contours and Drainage

Contours are inapplicable. Drainage is depicted by the orthophotomosaic.

35. Shoreline and Alongshore Detail

See Item 31 in reference to delineation and field edit.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

All landmarks and aids to navigation will be located during field edit.

38. Control for Future Surveys - None

39. Junctions

Refer to Form 73-36B (Data Record).

40. Horizontal and Vertical Accuracy

The map complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outlined by project instructions PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

USGS Quad Key Biscayne, Florida - 1:24,000 - 1969

47. Comparison with Existing Nautical Charts

847-SC - 11th Edition - August 5, 1972

No significant differences were noted.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

11.1

G. Fromm

Approved and Forwarded:

Jeter P. Battley, Jr.

Chief, Coastal Mapping Section

#### TP-00425 Addendum to Compilation Report March 1977

TP-00425 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 tone 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 have been submitted.

The three aids on TP-00425 north of latitude 25°44' were the only aids photoidentified in 1976. The aids south of latitude 25°44' were field identified in 1974 and were positioned by photogrammetric methods using the November 1975 photography.

A new orthophotomosaic was prepared in November 1976 using 1975 pan-chromatic photography bridged in August 1976.

The manuscript was recompiled in December 1976. With one area of exception, the lines of mean high water and mean low water were compiled from tide-coordinated, black-and-white infrared aerial photographs taken in March 1971. Sufficient detail from the 1975 bridging photography was compiled to control the infrared photography. The MHWL and MLWL on the Atlantic Ocean side of Virginia Key between 25°44'15" and 25°45' was compiled from office interpretation of the 1975 panchromatic photography. This was necessitated by the addition of numerous groins, built after the tide-coordinated photography was taken, altering the shoreline.

All field edit data was applied to the new compilation including the area referred to in "Addendum #1" of the field edit report dated October 18, 1974. The small island referred to in this report was not compiled. A low water line was shown with the notation, "Area subject to constant change."

The 1971 and later triangulation stations were not mapped pending a final adjustment.

Submitted by:

J. P. Battley, Jr.

Chief, Coastal Mapping Section

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 hunderd 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 imspection. 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 Dayon 8 was laying on its side and also marked with a bouy. The dayon 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 height.

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 photograp.

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

#### Field Edit Report, Map TP-00425, Job PH 7113

#### 51. METHODS

The shorelines of the Atlantic Ocean and Biscayne Bay were inspected by a small boat while cruising just offshore and walking along the shoreline. Notes regarding apparent and fast shoreline, piers and other shoreline features were made on the rectified photographs and Discrepancy Print.

One water tank and one stack are recommended for charting along with a large building as landmarks. The water tank and stack were submitted at an earlier date for the Miami Harbor Chart.

Forms 76-40 are submitted for the nonfloating aids. All aids were located by sextant except the two helipad lights which were identified on Photo 71E9203 and crib light which is a triangulation station.

The Bench Marks were identified on contact color prints because the rectified prints were not available.

Five triangulation stations were recovered.

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

One new name is recommended for charting. "Bill Baggs Cape Florida State Recreation Area" covers the southern part of Key Biscayne. (See Discrepancy Print.)

There are no tide gages within the limits of this manuscript.

Approximate latitude 25044.3 north was field edited in February 1974 and submitted to Rockville for the revision at Miami Harbor Chart.

On August 8, a small island was located by planetable on the east side of Key Biscayne. There are two other small areas that are just below MHW, based on data from Miami Harbor Entrance gage BM 9. The area is small without any vegetation. It should be noted that the HW photographs dated 2 March 1971 and photographs dated 8 March 1973 taken near MHW do not show this island. The island located by planetable does not agree with MLW photographs dated 24 February 1971. It is believed that this area is moving and is the result of large amount of dredging around Miami Beach and will not remain very long after the dredging is completed. The MLW was located by planetable August 12 and this area shows movement from the LW photographs dated 24 February 1971.

## 52. ADEQUACY of COMPILATION

Adequate after application at field edit.

## 53. MAP ACCURACY

No test required.

## 54. RECOMMENDATIONS

None.

## 55. EXAMINATION of PROOF COPY

Not required.

**Submitted 8/13/74** 

Robert R. Wagner Chief, Photo Party 60

## ADDENDOUM #1 FOR TF#00425

Mr. R Brever requested this Party to inspect a small island on the east side of Key Biscayne, that was located by plane table when the original field edit was done. The Field Edit Report stated that this island would not last long. On October 15,1974 the area was inspected near MLW and the MLWL has changed in shape and position. On October 18,1974 this area was inspected at 0.4 foot below MHW, based on Tidal EMML 9 of Miami Harber Entrance gage, and no land area was visible. It was also noted on October 18 that the main beach shoreline has ereded about 10 feet.

Rebert R. Wagner

Chief, Photo Party 60

# Review Report Coastal Zone Map TP-00425 June 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 previous reports.

The Class III map for Coastal Zone Map TP-00425 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 Geological Survey map of Key Biscayne, Fla. 1:24,000 scale, 1962 photo revised 1969.

No significant changes were found.

Comparison was made with Nautical Chart 11467, 1:40,000 scale, 17th Edition, dated July 8, 1978. The following differences were found:

Chart 11467 shows an islet and an area of MLW east of Key Biscayne at approximately lat. 25°42.4' and long. 80°09'while map TP-00425 shows an area of MLW and several obstructions that are not shown on the chart. This area is considered subject to constant change. Refer to the Field Edit report for description of field work.

Map TP-00425 shows individual rocks and a large area of MLW at the north end of Key Biscayne and east of North West Point. Chart 11467 shows rock ledge and no MLW.

Map-TP-00425 shows numerous piling and groins along the west shore of Key Biscayne. The chart does not show these features.

Chart 11467 shows extensive area of MLW in the vicinity of West Point. TP-00425 shows this area as shallow.

63. thru 65. - Inapplicable

## 66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00425 complies with the instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000 and the National Standards of May Accuracy.

Submitted by,

Donald M. Brant

Approved and Forwarded:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

March 24, 1977

GEOGRAPHIC NAMES FINAL NAME SHEET

PH-7113 (Florida) TP-00425

Atlantic Ocean

Bear Cut

Bill Baggs Cape Florida State Recreation Area

Biscayne Bay

Cape Florida Channel

Crandon County Park

Crandon Marina

Duck Lake

Harbor Point

Hurricane Harbor

Key Biscayne (City)

Key Biscayne (Island)

Lamar Lake

Northwest Point

Approved by:

C. E. Harrington

Staff Geographer (C51x2)

Rickenbacker Causeway

South Basin

Southwest Point

The Pines Canal

Virginia Beach

Virginia Beach County Park

Virginia Key

West Point

SOUTHWEST POINT LIGHT
SOUTHWEST POINT LIGHT  SOUTHWEST POINT LIGHT  WEST POINT LIGHT  WEST POINT LIGHT  FOR ACTION  NAME  NS DETERMINED  VERIFIED BY  AND OFFICE  TIVITIES

NOAA. E USA
NATIONAL OCEAN SURVEY NOAA DEPARTMENT OF COMMERCE USA
PHOTOGRAMMETRIC BRANCH COASTAL MAPPING DIVISION

76-40 LISTING

ERMINAL. O9/20/76

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# National Archives Data for TP-00425

- 1 Discrepancy print (paper copy)
- 2 Field Edit sheets (stable base copy)
- 1 Planetable sheet (stable base copy)
- 5 Forms 76-40 (Nonfloating Aids or Landmarks for Charts)
- 1 Form 76-36C (History of Field Operation)

Photographs (portions)

73 L 2884 and 2886

71 E 9203 thru 9206

71 E 9586