TP-00453

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 NoPH-7119 Map No. TP-00453
Classification No. Final Edition No Field Edited Map
LOCALITY
State Florida
General Locality Monroe County
Locality Key Largo to Long Point
,
19 ⁷² TO 19 ⁷⁵
REGISTRY IN ARCHIVES
DATE

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERC	TYPE OF SURVEY	SURVEY TP-00453
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMI	·· _	
	Ø ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	JOB РН. 7119
PHOTOGRAMMETRIC OFFICE	- LACT DDECEED	
	1 	ING MAP EDITION
Rockville, Maryland	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
	REVISED	19 TO 19
Commander James Collins	1	
I. INSTRUCTIONS DATED		
1. OFFICE	. 	FIELD
General Instructions-OFFICE-NOS Cooperative	Aerial photograph	
Coastal Boundary Mapping, Job PH-7000 December 9, 1975	Supplement I	
		3/26/70
Supplement I November 4, 1974 Supplement III October 24, 1974	Supplement III 8	
NOTE: Office & Field edit instructions (1975)		000 General Instruc-
incorporate applicable prior operational		Coastal Zone Mapping
instructions	1973	
II. DATUMS		
	OTHER (Specify)	· · · · · · · · · · · · · · · · · · ·
1. HORIZONTAL: A 1927 NORTH AMERICAN		
X MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	Mean water level	
MEAN LOWER LOW-WATER	Refer to NOAA For	m 76-36B(1)
MEAN SEA LEVEL	for explanation	, 0 005(1)
3. MAP PROJECTION	4. 0	GRID(S)
Traverse Mercator	STATE	ZONE
	Florida	· · · · ·
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TP-00453 COMPILATION PHOTOGRAPHY	,					
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L&K RC8			PHOTOGRAPHY EGEND		TIME RE	FERENCE
6" Focal Length IDE STAGE REFERENCE		(5) 50, 55		ZONE		
PREDICTED TIDES		(C) COLOR		East		▼ STANDARD
TREFERENCE STATION RECOR To Tide controlled photogr		(1) INFRAR		MERID	IAN	DAYLIGHT
			 	75th	-=	
73L(C)2791R-2792R	3/5/73	1318	1:40,000	Tho		of TIDE tide is
73L(C)2/91R-2/92R	3/3/73	1310	1:40,000	inap	_	for the
72K6375R-6377R	2/14/72	1410	1:30,000	Refe	r to NOA	A Form 76-36E
72K6506R-6507R	2/16/72	1105	1:30,000	I	stage of	tide data.
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NOAA FORM 76-36B(1)

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

TIDE - COORDINATED PHOTOGRAPHY

TP _00453

•	TP _00453		
LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
			At Tide Station
72K6375R-6377R	Tavernier Hawk Channel	+0.13MLW	2.13
72K6506R-6507R	Tavernier Hawk Channel	+0.10MHW	
	*		·
FLORIDA BAY			
72K6375R-6377R	Tavernier Florida Bay	+0.16MWL	
72K6506R-6507R	Tavernier Florida Bay	+0.20MWL	
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REMARKS: The periodic tide on TP-00453 (Blackwater Sound) was masked by non-tidal forces and the mean range was substantially less than two-tenths of a foot. In this situation the mean high/low water datums converge, and for mapping purposes, the mean high and low water lines are indistinguisable. As a consequence, special treatment was given to the portrayal of the shoreline on this map; the mean water level line was mapped in lieu of the mean high water line and shown by a distinative symbol.

,		HISTORY O	F FIELD	$ exttt{DPERATIONS} \cdot exttt{T}$	P-00453	
I. X FIELD INSP	ECTION OPERAT	on ^{Feb.} 1972 Mar.	X FIELD	EDIT OPERATION.	Aug. 1975	
	OPERA	TION			NAME	DATE
I. CHIEF OF FIEL	_D PARTY			 ,		{
				R. R. Wagne R. R. Wagne		0/75
2. HORIZONTAL	CONTROL		RED BY	Inapplicabl		8/75
Z. HONZONIAL		PRE-MARKED OR IDENT		Inapplicabl		
			ERED BY	R. R. Wagne		8/75
3. VERTICAL CO	NTROL		ISHED BY	Inapplicabl		
		AAXXXXXXX DEN 1		R. R. Wagne		8/75
	RECO	VERED (Triangulation St.	ations) BY	Inapplicabl		9, ,3
4. LANDMARKS A	ND	LOCATED (Field Me		R. R. Wagne		8/75
AIDS TO NAVIG	SATION		TIFIED BY	R. R. Wagne	r	8/75
		TYPE OF INVESTIGA	TION			
5. GEOGRAPHIC 1		COMPLETE	BY	1		
INVESTIGATIO	N	SPECIFIC NAMES	ONLY			
		NO INVESTIGATION	ON	R. R. Wagne	·	0/75
6. PHOTO INSPEC		CLARIFICATION OF DE		Inapplicable		8/75
7. BOUNDARIES A		SURVEYED OR IDENT	TIFIED BY	THAPPITCADI	= <u> </u>	<u> </u>
II. SOURCE DATA		FIED		2 VERTICAL CON	TROL IDENTIFIED	
II HONIZONTAL V	SONTROL IDENTI	TEO .		2. VERTICAL CON	THOE IDENTITIES	
PHOTO NUMBER		STATION NAME		PHOTO NUMBER	STATION DES	GNATION
	Refer to f	ield reports		73L2791R	X 275, Z 275	
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3 DUGTO	100			•		· · · · · · · · · · · · · · · · · · ·
3. PHOTO NUMBE	•	•				•
72K6377, 65	004; /3L2/91	R, 2792R; 72 K63	379			
4. LANDMARKS A	ND AIDS TO NAVI	GATION IDENTIFIED	 _		<u> </u>	
PHOTO NUMBER	<u> </u>	OBJECT NAME		BUOTO NUMBER	OBJECTA	
				PHOTO NUMBER	OBJECT	AME
73L2791R	Harborage Ent. Lt.	Yacht Club				
· .						
E GEOGRAPHIC						
GEOGRAPHIC ISUPPLEMENTA		REPORT X NON	(E	6. BOUNDARY AN	D LIMITS: REPOR	T NONE
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4 Pages of						
Refer to Fi	eld Reports	bound with this	s Descri	iptive Report	•	

NOAA FOI (3-72)	RM 76-36D			NATIONAL OCEANIC	U. S. DEPARTMENT AND ATMOSPHERIC	T OF COMMERCE
	5 0	F	RECORD OF SURV	/EY USE		
TP-004						
I. MANUS	CRIPT COPIES	MPILATION	STAGES	,	DATE MANUSCRI	BT FORWARDED
	DATA COMPILED	DATE	1 8-	REMARKS		HYDRO SUPPORT
	DATA COMPLETO			REMARKS	MARINE CHARTS	A V DRO SOPPORT
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II. LANDA	AARKS AND AIDS TO NAVIGA	ATION	<u> </u>			<u> </u>
	PORTS TO MARINE CHART D		ITICAL DATA BRANC	:н	·	
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE		REM	MARKS	
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		11/20/7	²⁵ Two (2) (digitized NOAA	Forms 76-40	submitted
			as final	report	,	·
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2. <u>- </u>	REPORT TO MARINE CHAR'					
	RAL RECORDS CENTER DA		VIOLON, ALMONAUTIC	JAL DATA SECTION.	A. E. GIMIANDED.	
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1. 🗹	BRIDGING PHOTOGRAPHS;	DUPL	ICATE BRIDGING RE	PORT; TOMPUTI	ER READOUTS.	
_	CONTROL STATION IDENT		_	NOS 567 SUBMITTED B		
3. 🗷	SOURCE DATA (except for C ACCOUNT FOR EXCEPTION		mes Report) AS LISTE	DIN SECTION II, NOAA	FORM 76-36C.	•
4. [_	DATA TO FEDERAL RECO	RDS CENTER	. DATE FORWARDE	o:	· · · · · · · · · · · · · · · · · · ·	_
IV. SURV	EY EDITIONS (This section :	shall be compi	leted each time a new	map edition is registere	d)	
_	SURVEY NUMBER	1	IUMBER		TYPE OF SURVEY	
SECOND				→	-	SURVEY
EDITION	DATE OF PHOTOGRAP	HY DATE	OF FIELD EDIT] 🖟 🗓 л. 🗀 ш.	MAP CLASS	FINAL
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SUMMARY for TP-00444 thru TP-00454

Coastal Zone Map TP-00453 is one of eleven (11), 1:10,000 scale (shoreline type) maps in Job PH-7119. These maps will not be published. Interior detail is limited to a narrow zone of planimetry usually back to and including the first road.

A layout of Job PH-7119 (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 by aerial photography taken in 1972 and 1973 on 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 method using the STK stereocomparator.

The shoreline and alongshore details were compiled from tide-coordinated, black-and-white infrared photography using a B-8 stereoplotter and/or graphic methods. The rectified color photography was used as an aid in interpreting cultural features and compiling the limits of vegetation. The interior details were compiled from a stereoscopic examination of the color photography without field edit.

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

A registration copy of each map is prepared. The registration copy shows additional offshore details such as shoal and

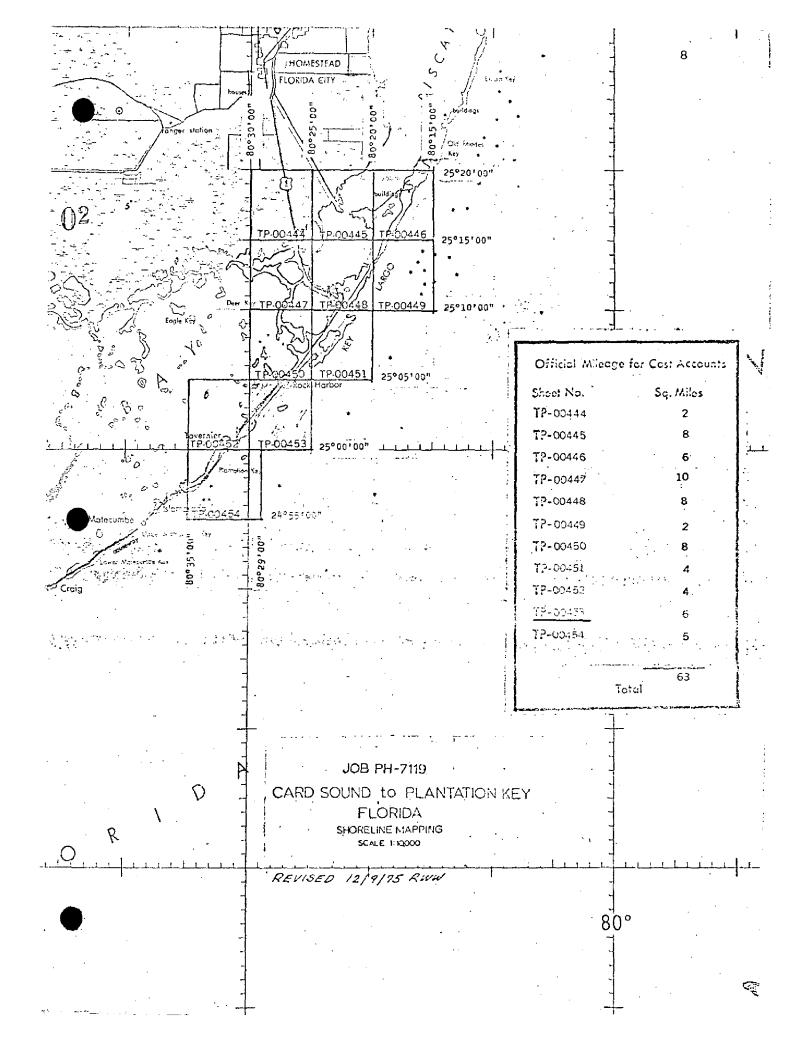
shallow lines used by the Marine Chart Division but not required on the Coastal Zone Maps. This copy of the map is labeled "Registration Copy" in the title block.

The following items will be registered in the NOS Archives:

- 1. A stable base copy of the Registration Copy.
- 2. The Descriptive Report.

The negative of the Registration Copy is filed in the Reproduction Division.

Field records such as field edit sheets, discrepancy prints, field edit photographs, and other field records are filed in the National Archives.



FIELD REPORT

JOB PH-7119

This report is on work done in accordance with Instructions-field-Job PH-7119; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Fapping, Card Sound to Plantation Key, Florida. The field work was done during the period 20 July - 7 September 1971.

1. PREHARKING OF CONTROL

One control station, IRVING 1971, was established on Soldier Ney. Eighteen stations were paneled for 1:30,000 scale photography. The deviations from the job diagram and targets specifications were recommended in the field by Mr. Saperstein, Photogrammetrist and authorized by the Chief, Surveys Planning Branch. The locations of the paneled stations are shown on the chart section accompanying this report.

2. BRIDGING PHOTOGRAPHY

Flight lines are shown on the accompanying chart. Bridging photography was accomplished on March 8, 1971 for lines 30-4, 30-5, and 30-6 under Job PH-7113. Line 30-6 was redesignated 30-1 for Job PH-7119. Line 20-1 was photographed on Aug. 4 and all other lines on Aug. 11 - the only suitable day in the period 4-26 August. This photography was unacceptable and will be rescheduled for February 1972.

3. TIDE-COORDINATED PHOTOGRAPHY

Locations of the tide staffs are shown on the accompanying chart. Lines 30-4 and 30-5 carried over from Job PH-7113 were completed. Lines 20-2 and 30-3 (Outside) were also completed. Clouds throughout the period prevented completing all lines and the job except for 30-4 and 30-5 will be rescheduled for February 1972. The times are summarized below in case the pictures will be used to supplement the future February work.

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

Line 30-4. Flown for MHW on March 2, 1971 at 1319-1325 when both MIAMI BISCAYME PAY and CUTLER were in range. The north end

was flown for MLW at 1325-1335 on August 6 when the MIAMI PISCAYNE PAY staff read 2.3 and 2.2. The south end was flown for ITW at 1425-1435 on August 6 when the SUTLER staff read 2.75 and 2.69.

Line 30-5. MHW North half flowr at 805-815 on August 7 when CUTLER staff read 4.5 to 4.7. South half flown at 1220-1235 on August ? when the TURKEY POINT staff read 3.15 to 3.05. MTW North half was flown at 1430-1435 on 6 August when the CUTLER staff read 2.73 to 2.69. South half flown at 850-855 on August 11 when the TURKEY POINT staff read 1.65. This was flown at a reduced altitude of 14,000 feet to get under some clouds. A triplicate was flown at 855-900 to get outlying islands which might not have been covered at the reduced altitude.

Line 20-2. MHW The northern two-thirds were flown at 802-815 on August 9 when the OCEAN REEF staff read 4.58 to 4.70. The remainder was flown at 830-840 on August 10 when the staff read 4.25 to 4.35. MLW Due to clouds this was flown in three ports. The NE end to the Ocean Reef Club was flown at 1328-1342 on August 7 when the staff read 2.25 to 2.11, the Ne end was flown at 1530 on August 6 when the staff read 2.2, and the south part flown at 955-1001 on 16 August when the staff read 2.30.

Line 30-3 (Outside) MHW Flown at 939-947 on August 11 when the TAVERNIER MAWK CHANNEL staff read 4.00 to 4.12, MLW Flown at 1315-1322 on August 4 when the staff read 2.1.

Line 30-3 (Inside) No photography. Clouds and seasonal high tides during the rest of the period prevented it.

Line 20-1. MHW No photography. MLW Line was flown at 927-945 on August 16 when the RAGGED KEYS staff read 1.8 to 1.75.

Line 30-1. MHW The middle third was flown at 1020-1025 on August 4 when the CARD SOUND staff read 3.7 and the MANATEE CREEK staff read 3.5. The remainder was flown at 1110-1115 the same day when the CARD SOUND staff read 3.6 and the MANATEE CREEK staff read 3.5. MLW No photography.

Line 30-2. Line was flown at 835-842 on August 9 when the CARD Sound staff read 3.6 and the MANATEE CREEK staff read 3.75. Line was unacceptable because of clouds in the middle segment and possible smoke in the northern third. This and the MLW photography were not accomplished due to clouds and seasonal high water.

4. ADDITIONAL PHOTOGRAPHY

Tide coordinated photography was taken on a small shoal about one

mile NNE of the Molasses Reef Light. The shoal was photographed at about 0900 on August 10 when the TAVERNIER HAWK CHANNEL staff was in MMW range. It was flown at 1206 on August 16 when the staff read 2.31. This shoal was also photographed in color and false color, but the times were not obtained from the photographer.

FORESHORE PROFILES

Four planetable beach profiles were run within the limits of the job by Mr. Dale Fuller during the photography period. A brief report accompanies the profile sheet.

6. FIELD RECORDS

All CSI cards, recovery notes, profiles and the original field records for IRVING 1971 were forwarded to C3413 on 1 March 1972. Form 277, Tides Volumes for the MIANI BISCAYNE BAY, TURKEY POINT, and CUTLER Tide staffs were also forwarded on 1 March. The 277's for the other staffs will be forwarded with the report for the February 1972 photography.

Submitted 29 February 1972

John C. Veselenak John C. Veselenak Chief, Photo Party 65

FIELD REPORT

JOB PH-7119

This report is on work done in accordance with Instructions-Field-Job PH-7119; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Card Sound to Plantation Key, Florida, dated January 31, 1972. The field work was done during the period 7-23 February 1972.

1. PREMARKING OF CONTROL

Four stations were paneled for 1:30,000 scale photography. The locations are shown on the chart section accompanying this report.

2. AEROTRIANGULATION PHOTOGRAPHY

Flight lines are shown on the chart. Color photography was accomplished on February 19, 1972 between the approximate times of 1045 and 1230 hours. The skies were exceptionally clear for this area and the ground winds was from the northwest at 20-25 knots all morning. These lines were also flown on-February 14, but the photography was unacceptable because of a bad film emulsion.

3. TIDE-COORDINATED PHOTOGRAPHY

Locations of the tide staffs are shown on the chart. The job was completed; photography taken on the 12, 14, 15, 16, and 20, of February. Lines 20-2 and 30-3 were also photographed and portions of the other lines were also partially photographed during August 1971.

Recordings entered in the tide volumes, Form 277, were at 5 minute intervals during photography and at 15 minute intervals near photography. An exception to this is the readings for the MANATEE CREEK and BARNES SOUND staff where the tide varies only a few hundredths of a foot per day. Tolerances of ± 0.30 foot for MHW, ± 0.20 foot for NWL, and ± 0.10 foot for MLW were observed. Wet staff readings - crest, mean, and trough - were recorded while photography was in progress. Eastern Standard Time was used.

Line 20-1. MHW Completed at 1050 on February 14 when the RAGGED MEYS staff read 3.38-3.26. MLW Completed at 1500 on February 14 when the staff read 1.80.

Line 20-2. MHW Flown at 1035-1052 on 16 February when the OCEAN REEF staff read 4.75-4.61. This line was also flown at 1006 on February 15, but the pilot recommended it be rescheduled. MLW Flown at 1338-1350 on February 14 when the staff read 2.31-2.32.

Line 30-1. This line is controlled by three staffs, the MANATEE CREEK staff has a MWL datum and the EAST ARSENICKER and CARD SOUND staffs have mean high and mean low datums.

MHW The line was flown at 1120-1142 on 14 February. At this time the EAST ARSENICKER staff read 3.95-3.86 and the MANATEE CREEK staff read 3.54-3.57(MWL). The line was flown again at 1445 on 14 February when the CARD SOUND staff read 3.8 and the MANATEE CREEK staff read 3.60. MLW Was flown at .945-1000 on 20 February when the CARD SOUND staff read 3.2 and the EAST ARSENICKER staff read 2.78-2.81.

Line 30-2. MHW It was completed at 1250 on February 14 when the TAVERNIER, FLA. EAY staff read 3.05 (MWL Range), the BARNES SOUND staff read 3.92, the MANATEE CREEK staff read between 3.6 and 3.5, the CARD SOUND staff read 4.0 and the EAST ARSENICKER staff read 3.65. MLW Completed at 0945 on February 20 when the CARD SOUND staff read 3.20 and the EAST Arsenicker staff read 2.77-2.78.

The BARNES SOUND staff read 0.31 foot higher than its 3.61 Mean Water Level. Since the shoreline in this area is overhung with mangrove this section of the line was not rescheduled.

Line 30-3 (ATLANTIC SIDE). MHW Completed at 1107 on February 16 when the TAVERNIER, HAWK CHANNEL staff read 4.62-4.43. MLW Completed at 1412 on February 14 when the staff read 2.30-2.28.

Line 30-3 (Florida Bay Side). MWL The north side was completed on February 12 at 1150 hrs. when the BARNES SOUND staff read: 3.78 and the TAVERNIER, FLA. BAY staff read 2.72. The south end was in range at 1412 on February 14 when 30-3(ATLANTIC SIDE) MLW was flown. The south half was also in range at 1107 on February 16 when 30-3 MHW was flown although the staff was not manned at that time.

4. ADDITIONAL PHOTOGRAPHY

Special photography over Florida's test area was flown between 1005 and 1240 on 20 February with various films. The staff at the EAST ARSENICKER gage was observed and its value recorded at 5 minute intervals during this period. The staff at the

mouth of the northern cut (MANGROVE POINT) was observed and its value recorded at 5 minute intervals from 1135 to 1300 hours. The latter staff values are listed in the EAST ARSENICKER Form 277.

5. FORESHORE PROFILES

Four planetable beach profiles were run within the limits of the job during the photography period of August 1971. The few small beaches found for the profiles were of coral, and since erosion is not considered a problem, these profiles were not rerun.

6. MONITORING OF TEMPORARY TIDE STAFFS IN THE JOB AREA

On February 15 verbal instructions were received from the Chief, Tidal Datum Planes: Temporary staffs were to be put in at 11 selected locations and observed every 12, 15, or 30 minutes through one high and one low water. All 11 need not be observed simultaneously and the actual location could be varied slightly. Four were observed on the 16th., two on the 17th., 1 on the 20th., and four on the 21st. The chart accompanying this report shows the exact location of each staff.

7. FIELD RECORDS

All CSI cards, Form 277's and a copy of the records from the 11 tide staffs were sent to C3413 on 13 March 1972. The original field records for the 11 staffs were forwarded to C3311 on 23 February 1972. Profiles and recovery notes were sent to C3413 on 1 March 1972 with the report for work done on this job in August 1971.

Submitted 14 March 1972

John C. Veselenak

Chief, Photo Party 65

John C. Veselenal

Photogrammetric Plot Report Hillsboro Inlet to Card Sound, Florida Job PH-7113

and

Card Sound to Plantation Key, Florida Job PH-7119

21. Area Covered

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

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

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

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

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

22. Method

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

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

Image points were located to rectify photographs for orthophoto, nautical, and small craft charts. All points were drilled by the PUG method. Closure to control has been noted on the read-outs. A sketch is attached which shows the control used in the strip and block adjustments. All points were plotted on the Florida East Zone Plane Coordinate System using the Coradomat Plotter or the Calcomp Plotter.

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

23. Adequacy of Control :

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

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

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

Irving 1971
Mangrove (USE) 1930 Sub Point A
Sands Cut RM2, 1849-1947 Sub station

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

Rubi, 1930-1948 Reset
Man, 1930
Angelfish Key RM3, 1853
Narrow Point, 1854
Long Sound 1961
Snipe Pt., 1934, substation
Knowlson, 1935, substation
Hull Key, 1852
Rock Harbor 2, 1961
Lower Sound Point, 1853 substation
Sub Station, Key Largo Cable Visions Inc., Taller Mast, 1961
Largo, 1962
Low 2, RM2, 1934
Planter 2, RM4

The following control station positions were transferred from photographs 72L(C)8691R thru 72b(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)2871-2884P 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

Approved; and forwarded:

John D. Perrow, Jr.

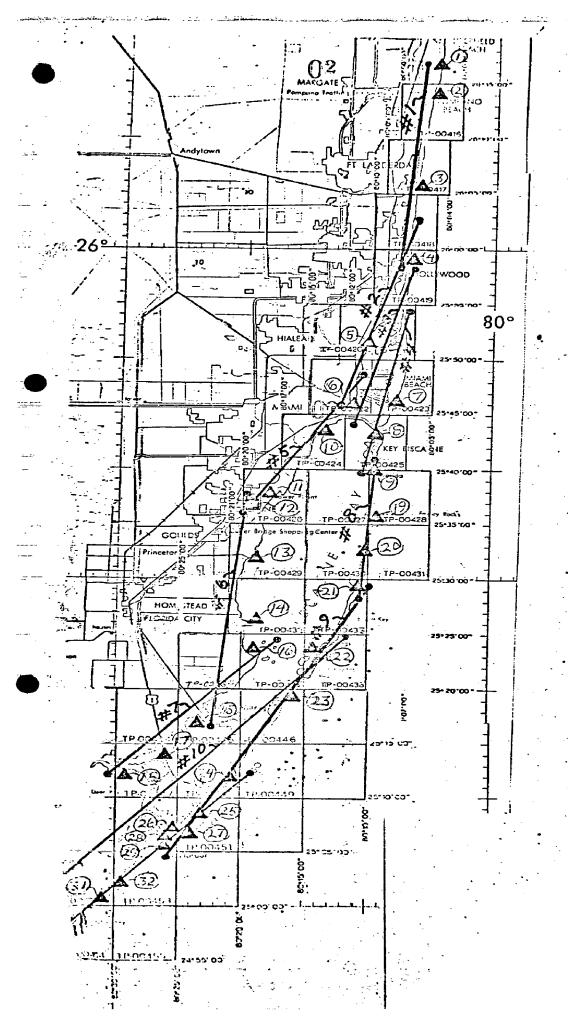
Chief, Aerotriangulation Section

CONTROL STATIONS

•		·		
			residuals	
1.	(027100)	Turtle 1929	-0.706	-0.115
2.	(023102)	Pompano, 1928, subpoint B	1.488	-0.229
3.	(029100)	South Jetry, 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		• • • • • •
٠, ٠	,	Finial, subpoint A	-0.156	0.002
10.	(538102)	Pan American, 1935,		- • •
Ž,	,	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	, 5	_
		substation	0.296	-0.049
•	(901100)	Rubi, 1930-1947, reset		
23.	(905101)	Angelfish Key RM 3, 1853	-0.303	-0.242
24.	(914101)	Knowlson, 1935 substation	0.153	-0.155
		Hull Key, 1852	-0.053	0.103
26.	(922100)	Rock Harbor 2, 1961	0.364	-0.284
27,	(022101)	Lower Sound Point, 1853		
	40002 45 1	substation **		
28,	(923101)	Sub Station Key Largo Cable		
	•	Visions Inc., Taller Mast,		
20	(02/100)	1961 ** .	0.010	0.100
29.	(924100)	Largo, 1962	-0.210	0.103

30.	(967101)	Low 2, RM 2, 1934	0.042	0.215
31.	(692100)	Tavernier, 1935	0.3 08	-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

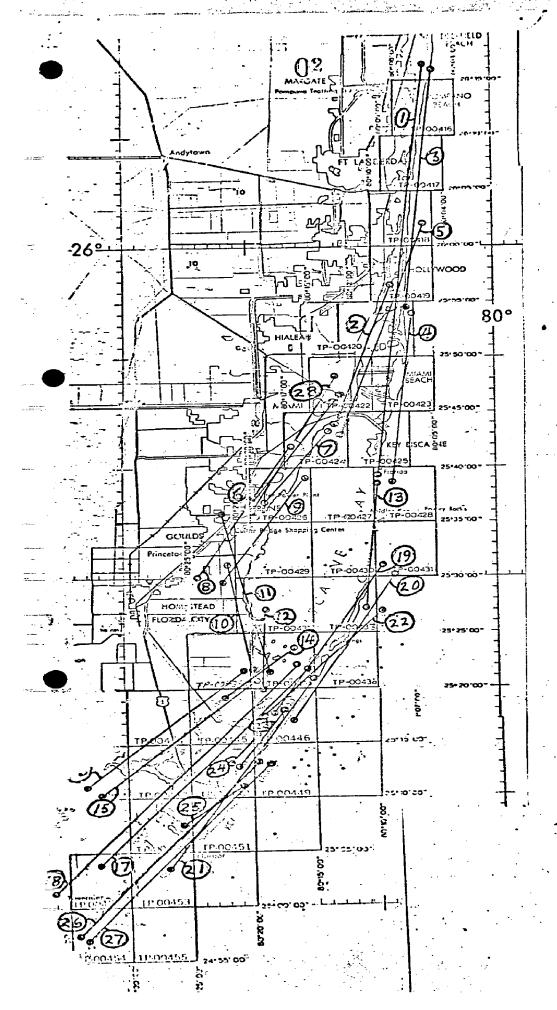


JOB PH-7113 AND JOB PH-7119

HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA

CONTROL STATIONS USED IN THE ADJUSTMENTS

- 71K 5632R 5660R MLW 1.
- 71K 5662R 5672R MLW-2.
- 71K 5750R 5766R MHW 3.
- 71K 5795R 5806R MHW
- 71K 5815R 5829R MHW 5.
- 71L 8501R 8509R MLW 6.
- 71L 8512R 8520R MLW 7.
- 71L 8571R 8580R MHW 8.
- 71L 8523R 8530R MLW
- . 9.
- 71L 8783R 8791R MHW 10. 71L 8584R - 8593R MHW 11.
- 71L 8532R 8537R MLW 12.
- 13. 71L 9067R - 9080R MLW
- 14. 71L 8337R - 8341R MHW
- 72K 6287R 6298R MHW 15.
- 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
- 72K 6480R 6499R MHW 21.
- 22. 71L 8697R - 8705R MHW
- 23. 72K 6344R - 6350R MLW
- 72K 6253R 6255R MLW 24.
- 25. 72K 642 OR - 642 3R MHW
- 26. 72K 6501R - 6515R MHW
- 72K 6368R 6382R MLW 27.
- 71K 5847R 5856R MHW 28.



JOB PH-7113 AND JOB PH-7119

HILLSBORO INLET TO PLANTATION KEY, FLORIDA

INFRA-RED CONTACT PRINTS RATIOED FOR COMPILATION

Compilation Report TP-00453 June 1975

31. Delineation

The tidal datum lines on this map were compiled by graphic methods using tide-coordinated, black-and-white infrared photography.

Control for the graphic compilation consisted of map points and planimetric features (common to the tide-coordinated, black-and-white infrared photography) compiled from the orthophoto mosaic.

The color bridging photography was used as an aid in interpreting culture areas.

Interior details were compiled graphically from the rectified prints of the color infrared photography.

32. Control

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

33. Supplemental Data - None

34. Contours and Drainage

Contours are inapplicable. Drainage was compiled from the rectified prints of the color infrared photography.

35. Shoreline and Alongshore Features

The photography was adequate for the delineation and interpretation of the shoreline and alongshore features.

Completeness and accuracy of the tidal datum lines will be verified during the field edit operation.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids to Navigation

The images of charted objects visible on the photography were located during compilation and will be verified by field edit. Objects not visible on the photography will be located by the field editor.

- 38. Control for Future Surveys None
- 39. Junctions

Refer to Form 76-36B (page 2 of this Descriptive Report).

40. <u>Horizontal Accuracy</u>

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

Rock Harbor, Florida, 1947, 1:24,000, photorevised 1969.

47. Comparison with Nautical Charts

Comparison was made with the following nautical charts:

11463, 7th Edition, 1:40,000, dated August 3, 1974 11451, 12th Edition, 1:40,000, dated September 7, 1974 1249, 12th Edition, 1:80,000, dated April 28, 1973

No significant differences were noted.

Respectfully submitted,

Stephen H. Selbeck

Stephen H. Solbeck

Approved and Forwarded:

Jeter P. Battley, Jr.

Chief, Coastal Mapping Section

Jeter P. Lautley Jr.

FIELD EDIT REPORT, MAP TP-00453, Job PH 7119

51. METHODS

The shoreline was inspected from a small boat while cruising just off shore. Notes regarding fast and apparent shoreline, piers and other along shore features, will be found on the rectified photographs and discrepancy.

No triangulation stations were recovered.

Two vertical control stations were recovered.

There are no landmarks.

All known aids were located or verified.

Three tide gages were identified. Point Charles Gage A with Tidal Bench Mark 1 and Point Charles Gage B with Tidal Bench Mark 3A were identified on 73L2791R, Point Charles Gage C and Point Charles Gage D have the same Tidal Bench Marks. Tidal Bench Mark 2 was identified with gages C and D on 73L2791R.

One photo print, page 51 Monroe County, Florida bf RADI, is submitted for a new canal and piers. The scale will need to be changed to fit the manuscript. There is sufficient detail to locate the photo on the rectified photographs.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

54. RECOMMENDATION

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted

Robert R. Wagner

Chief, Photo Party 60

REMARKS: Application of Field Edit for TP-00453.

The photo print of March 1975, page 51 Monroe County, Florida (Real Estate Data, Inc.) referred to in the Field Edit Report was used to compile the canal and piers constructed after the 1973 photography. The new canal and piers are located on the westshore of Key Largo at latitude 25°03.75°. This photo print will be filed along with the other field data for TP-00453 in the National Archives.

REVIEW REPORT TP-00453

August 1976

61. General

The map manuscript for Coastal Zone Map TP-00453 was inspected as a Class III map (compilation, discrepancy print, and report) and reviewed as a Class I map by the Quality Control Group. The review consisted of an examination of the map manuscript, the field edit and its application, the reproduction negatives, and the Descriptive Report.

The proof copy of this map was edited by the Quality Control Group before making final copies. This edit comprised a thorough inspection of map details to verify the accuracy of reproduction with reference to the map manuscript and the quality of reproduction. In addition, the proof copy was examined by the following sections:

Coastal Mapping - map details Staff Geographer - geographic names Coastal Surveys - horizontal and vertical control

There were no planetable beach profiles available for compilation or final review.

62. Cartographic Comparison

Comparison was made with the following USGS quadrangle maps; 1:24,000 scale:

Rock Harbor, Florida, 1947 Photorevised 1969

No significant changes were noted.

Comparison was made with the following nautical charts; 1:40,000 scale:

11463 (formerly C&GS 850) 7th Edition, dated August 3, 1974

Chart 11463 shows the following obstructions that are not shown on TP-00453:

Wreck (bottom visible) latitude 25°0.5', longitude 80°29'
Pile (bottom visible) latitude 25°0.1', longitude 80°29'
Boiler (bottom not visible) latitude 25°0.1', longitude 80°29'

These areas were inspected by the field editor and the obstructions were not found.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00453 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000, and the National Standards of Map Accuracy.

Submitted by:

Donald M. Brant

Approved and Forwarded:

Chief, Photogrammetric Branch

Chief Coastal Mapping Division

27 Jan. 1975

GEOGRAPHIC NAMES

PH-7119 (Card Sound to Plantation Key, Florida)

TP-00453

Atlantic Ocean

Dove Creek

Dove Key

Everglades National Park

Florida Bay

Hawk Channel

John Pennekamp Coral Reef State Park

Key Largo

Key Largo Beach

Long Point

Point Charles

Rock Harbor

Rock Harbor (locality)

Rodriguez Key

Seaside

Sunset Point

Triangles

Winken Blinken and Nod

Approved by:

Chas. E. Harrington Staff Geographer-C51x2

LIGHTNG , COASTAL MAPPING DIVI	<u> </u>	5		>		1760
VY TP-00453 * 008 PH-7119 * 01 R NA:1927 *	CHARTS * COCALITY * RPT UNIT CHARTS * LOCALITY * DOCALITY	CMD RO FLORIB KEY LA	CKVILLE, A RGO BEAC	* * * * *	PAGE 1 RIGINATING	OF 2 ACTIVITY
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NATIONAL ARCHIVES DATA

TP-00453

- 1 Discrepancy print (paper copy)
- 1 Field edit sheet (stable base)
- 1 NOAA Form 76-36C (History of Field Operations)
- 2 NOAA Forms 76-40 (Nonfloating Aids or Landmarks for Charts)
- 4 pages sextant cuts

Photographs:

73L(C)2792R 72K6377,6504,6506

Supplemental data:

Photo print, March 1975, page 51 Monroe County Florida (Real Estate Data, Inc.).