

original

TP-00444

TP-00444

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-7119.....	Map No. TP-00444.....
Classification No. Final	Edition No. ....1.....
Field Edited Map	
LOCALITY	
State .....Florida.....	
General Locality Dade County.....	
Locality Flat Point.....	
.....	
<hr/> 19 72 TO 19 75 <hr/>	
REGISTRY IN ARCHIVES	
DATE .....	

NOAA FORM 76-36A (3-72) <div style="text-align: center; margin-top: 5px;"> <b>U. S. DEPARTMENT OF COMMERCE</b>  <b>NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.</b> </div> <div style="text-align: center; margin-top: 20px;"> <b>DESCRIPTIVE REPORT - DATA RECORD</b> </div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;">           TYPE OF SURVEY  <input checked="" type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">           SURVEY TP. <u>00444</u>            MAP EDITION NO. <u>(1)</u>            MAP CLASS <u>Final</u>            JOB PH. <u>7119</u> </div>					
PHOTOGRAMMETRIC OFFICE  Rockville, Maryland		<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <b>LAST PRECEDING MAP EDITION</b> </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">           TYPE OF SURVEY  <input type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">           JOB PH. _____            MAP CLASS _____            SURVEY DATES:            19__ TO 19__         </div>					
OFFICER-IN-CHARGE  CDR. James Collins							
<b>I. INSTRUCTIONS DATED</b>							
<b>1. OFFICE</b> General Instructions-OFFTCE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, December 9, 1975 Supplement I, November 4, 1974 Supplement III, October 24, 1974 NOTE: Office and field edit instructions (1975) incorporate applicable prior operational instructions.		<b>2. FIELD</b> Aerial photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000 General Instructions for Florida Coastal Zone Mapping) 1973					
<b>II. DATUMS</b>							
<b>1. HORIZONTAL:</b> <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		<b>OTHER (Specify)</b>					
<b>2. VERTICAL:</b> <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		<b>OTHER (Specify)</b> Mean water level. Refer to remarks (Form 76-36B(1) for explanation on Mean Water Level datum					
<b>3. MAP PROJECTION</b>  Transverse Mercator		<b>4. GRID(S)</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; padding-bottom: 5px;">STATE Florida</td> <td style="width:50%; border-bottom: 1px solid black; padding-bottom: 5px;">ZONE East</td> </tr> <tr> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">STATE</td> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">ZONE</td> </tr> </table>		STATE Florida	ZONE East	STATE	ZONE
STATE Florida	ZONE East						
STATE	ZONE						
<b>5. SCALE</b> 1:10,000							
<b>III. HISTORY OF OFFICE OPERATIONS</b>							
OPERATIONS		NAME	DATE				
<b>1. AEROTRIANGULATION</b> BY V. McNeel 6/74 METHOD: Analytic LANDMARKS AND AIDS BY Inapplicable							
<b>2. CONTROL AND BRIDGE POINTS</b> PLOTTED BY R. Robertson 12/74 METHOD: Calcomp CHECKED BY Inapplicable							
<b>3. STEREOSCOPIC INSTRUMENT</b> PLANIMETRY BY Inapplicable COMPILATION CHECKED BY INSTRUMENT: CONTOURS BY Inapplicable SCALE: CHECKED BY							
<b>4. MANUSCRIPT DELINEATION</b> PLANIMETRY BY P. Gibson 1/75 CHECKED BY J. Battley, Jr. 1/75 Shoreline manuscript METHOD: Graphic CONTOURS BY Inapplicable SCALE: 1:10,000 HYDRO SUPPORT DATA BY Inapplicable CHECKED BY							
<b>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</b> BY J. Battley-D. Brant 1/75							
<b>6. APPLICATION OF FIELD EDIT DATA</b> BY S. Solbeck 6/75 CHECKED BY P. Dempsey 8/75							
<b>7. COMPILATION SECTION REVIEW</b> BY P. Dempsey 8/75							
<b>8. FINAL REVIEW</b> BY D. Brant 12/75							
<b>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</b> BY							
<b>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</b> BY D. Brant 12/75							
<b>11. MAP REGISTERED - COASTAL SURVEY SECTION</b> BY R. T. CATRK 9/76							

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

TP-00444

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 L & K 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR IR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
73L(C) 2938R-2939R	3/18/73	1018	1:40,000	The stage of tide is inapplicable for the color photography.	
72K6292R-5293R	2/14/72	1142	1:30,000	Refer to form 76-36B(1) for stage of tide data.	
REMARKS					

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean water level line (refer to Remarks form 76-36B(1)) is the 1972 black-and-white infrared photography listed in item 1.

Manmade features such as bulkheads are shown by a solid line. Where vegetation such as mangrove obscures the shoreline, the apparent shoreline symbol was used.

The map was field edited in 1975.

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

There is no mean low water line shown on this map.

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

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

## 5. FINAL JUNCTIONS

NORTH No contem- porary Survey	EAST TP-00445	SOUTH TP-00447	WEST No Contem- porary Survey
REMARKS Final junctions were made in the Coastal Mapping Section			

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

## TIDE - COORDINATED PHOTOGRAPHY

TP - 00444

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
<u>INTERIOR WATERS</u> 72K6292R-6293R	MANATEE CREEK TIDE STATION	-0.20 MWL	- -

**REMARKS:** The periodic tide for this map was masked by non-tidal forces and the mean range was less than two tenths of a foot. Where this occurs, the mean high/low water datums converge and for mapping purposes the lines are indistinguishable. The mean water level line was mapped in lieu of the mean high water line and is shown with a distinctive symbol.

TP-00444

## HISTORY OF FIELD OPERATIONS

- I. ☒ FIELD INSPECTION OPERATION \* Feb. 1972 ☒ FIELD EDIT OPERATION, Mar. 1975

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	3/75
2. HORIZONTAL CONTROL	RECOVERED BY R.R. Wagner ESTABLISHED BY Inapplicable PRE-MARKED OR IDENTIFIED BY Inapplicable	3/75
3. VERTICAL CONTROL	RECOVERED BY R.R. Wagner ESTABLISHED BY Inapplicable PRE-MARKED OR IDENTIFIED BY R.R. Wagner	3/75
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Inapplicable LOCATED (Field Methods) BY Inapplicable IDENTIFIED BY Inapplicable	
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	3/75
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY Inapplicable	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Refer to Field Reports	73L2939R	F274, G274

## 3. PHOTO NUMBERS (Clarification of details)

72K6293, 73L2939R

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

## 7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

\*The Field Reports <sup>912</sup> are bound with this Descriptive Report

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

TP-00444

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No map copies were furnished to Marine Charts prior to final review.				
			9/9/76	

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			There are no landmarks or nonfloating aids on this map.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_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	

SUMMARY  
for  
TP-00444 thru TP-00454

Coastal Zone Map TP-00444 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.

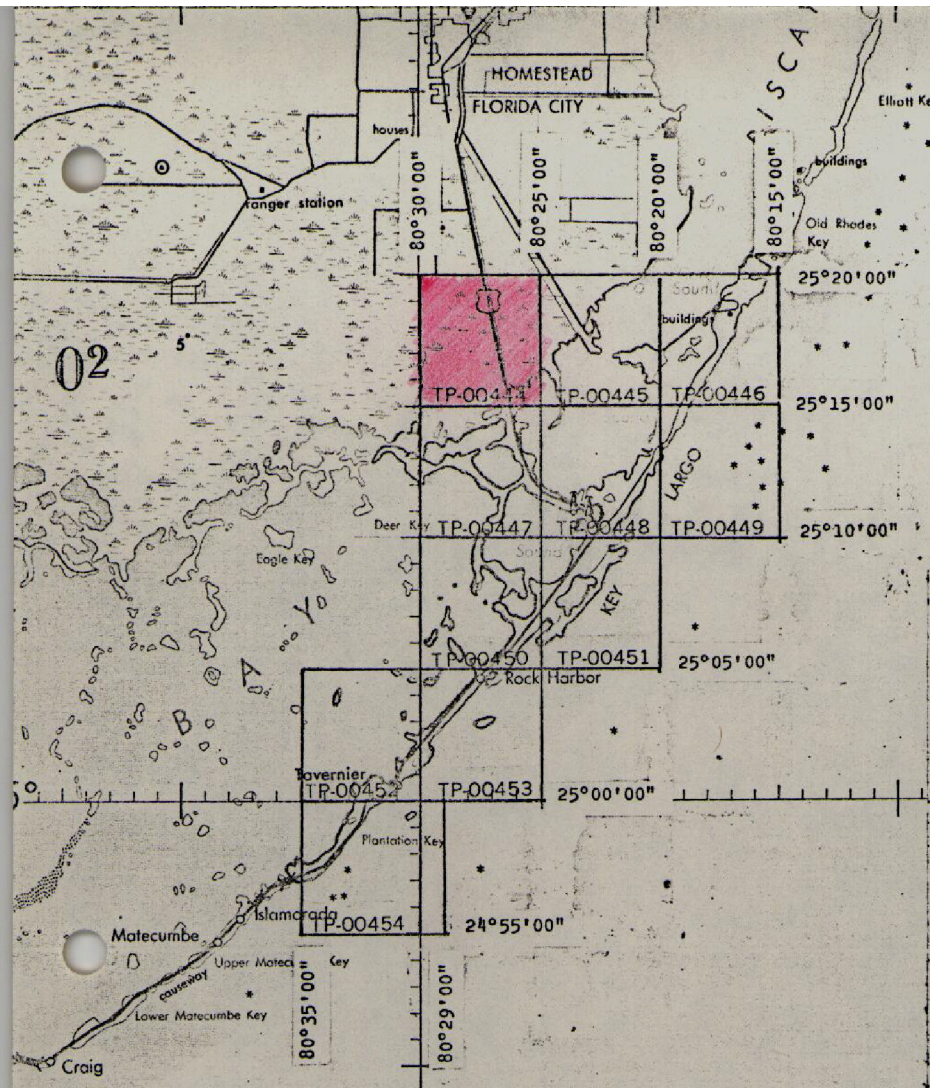
The following items will be registered in the NOS Archives:

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.





Official Mileage for Cost Accounts

Sheet No.	Sq. Miles
<u>TP-00444</u>	2
TP-00445	8
TP-00446	6
TP-00447	10
TP-00448	8
TP-00449	2
TP-00450	8
TP-00451	4
TP-00452	4
TP-00453	6
TP-00454	5

Total 63

JOB PH-7119  
 CARD SOUND to PLANTATION KEY  
 FLORIDA  
 SHORELINE MAPPING  
 SCALE 1:10000

REVISED 12/9/75 RWW

80°



## FIELD REPORT (1 of 2)

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. The field work was done during the period 20 July - 7 September 1971.

### 1. PREMARKING OF CONTROL

One control station, IRVING 1971, was established on Soldier Key. Eighteen stations were paneled for 1:30,000 scale photography. The deviations from the job diagram and target 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  $\pm 0.3$  ft. for MHW and  $\pm 0.1$  ft. for MLW were observed. Wet staff readings - crest, mean, and trough - were 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 BISCAYNE BAY and CUTLER were in range. The north end

was flown for MLW at 1325-1335 on August 6 when the MIAMI DISCAYNE BAY staff read 2.3 and 2.2. The south end was flown for MLW at 1425-1435 on August 6 when the CUTLER staff read 2.75 and 2.69.

Line 30-5. MHW North half flown at 805-815 on August 7 when CUTLER staff read 4.5 to 4.7. South half flown at 1220-1235 on August 7 when the TURKEY POINT staff read 3.15 to 3.05. MLW 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 parts. 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 HAWK 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 MHW 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.

#### 5. 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 MIAMI 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

(2 of 2)

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 north-west 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  $\pm 0.30$  foot for MHW,  $\pm 0.20$  foot for MWL, and  $\pm 0.10$  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 KEYS staff read 3.38-3.26. MLW Completed at 1500 on February 14 when the staff read 1.80.

Line 30-2. 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. BAY 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 overhanging 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 (MANSCOVE 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 ARSENIKER 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*

John C. Veselenak  
Chief, Photo Party 65

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. Tie 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:

Rub1, 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 Final 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

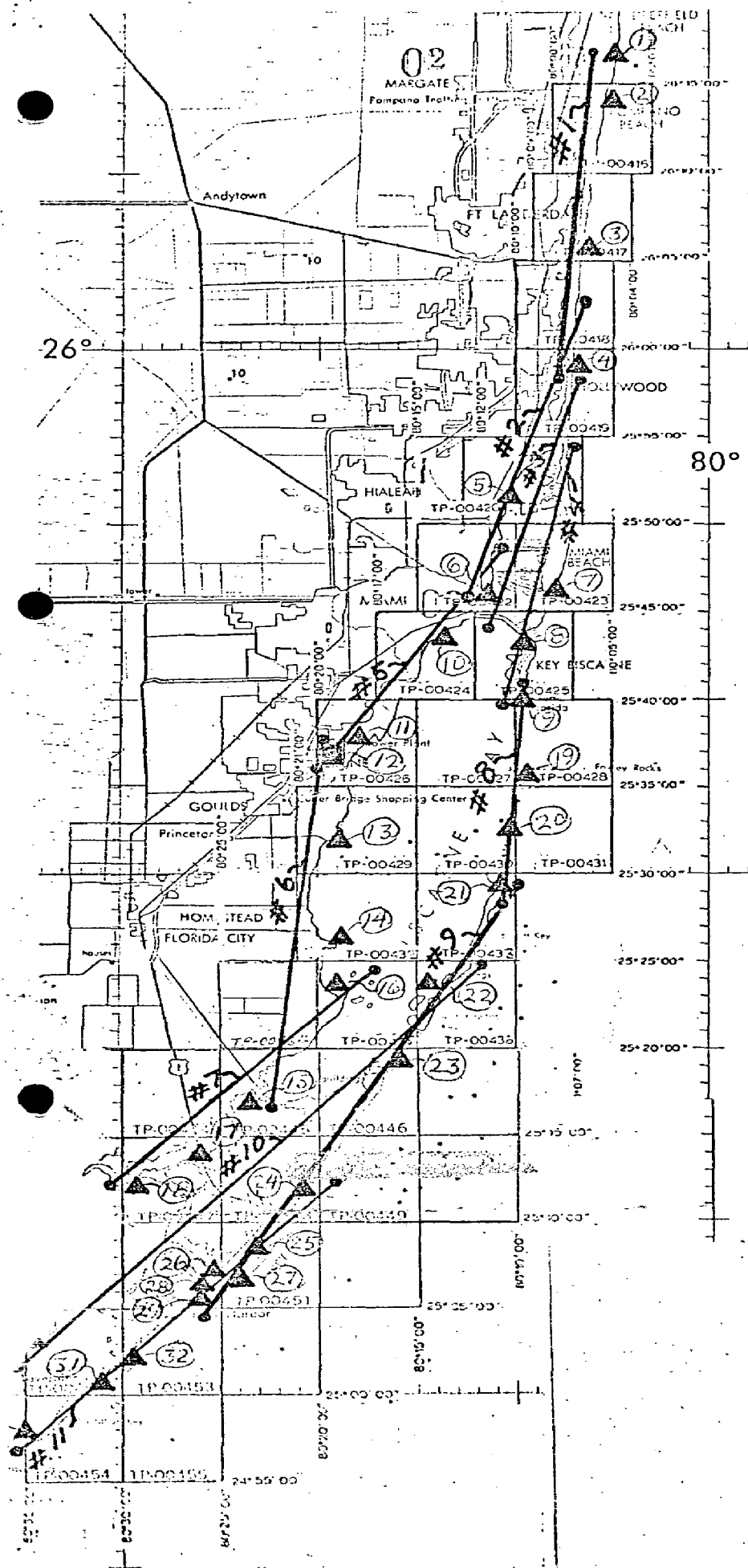
Approved and forwarded:

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

JOB PH-7113  
AND  
JOB PH-7119

HILLSBORO INLET  
TO  
PLANTATION KEY,  
FLORIDA

CONTROL STATIONS  
USED IN THE  
ADJUSTMENTS

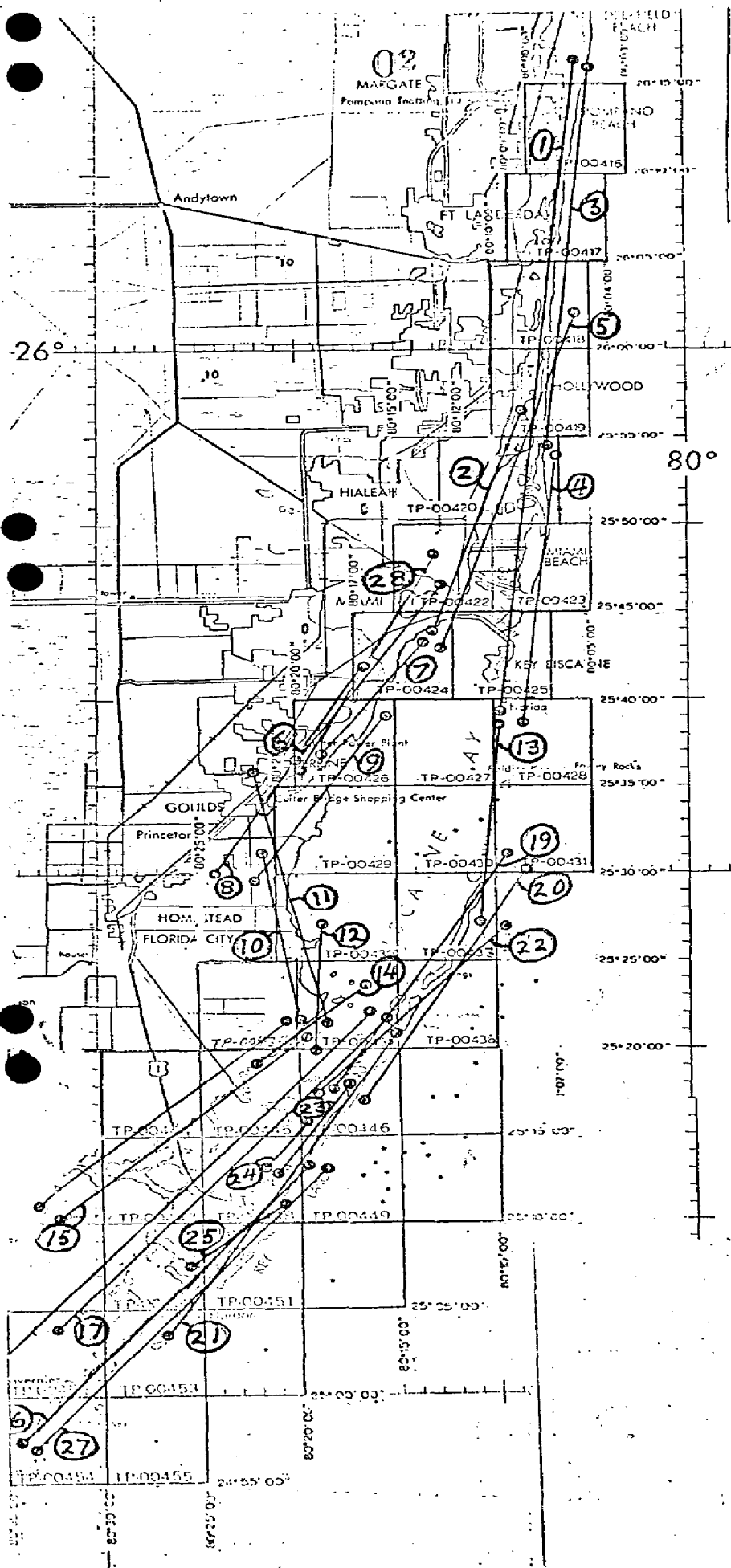


CONTROL STATIONS

			<u>residuals</u>	
			<i>feet</i>	
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



JOB PH-7113  
AND  
JOB PH-7119

HILLSBORO INLET  
TO  
PLANTATION KEY,  
FLORIDA

INFRA-RED CONTACT  
PRINTS RATIOED FOR  
COMPILATION

## 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



FLORIDA- NOAA Coastal Boundary Mapping Program

24

Horizontal Control

Map TP- 00444

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
RANGER 1972	Unadjusted Field Data used

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
F 274		C&GS disk stamped F 274 1966; set vertically in the W end of the N pier of bridge, 1 ft. S of the NW corner of the pier and 2 ft. above ground.
G 274		C&GS disk stamped G 274 1966; set in the top of the W corner of a 10 ft. sq. concrete base, 14 yds N of power line tower # 104.

Compilation Report  
TP-00444  
December 1975

31. Delineation

The shoreline (MWLL) on this map was compiled by graphic methods using tide-coordinated black-and-white infrared photography. This photography was controlled by common plainmetric features compiled from the rectified prints and map points determined by aerotriangulation.

Interior features compiled on this map were limited to the first road inshore from the shoreline or 800 to 1000 feet. Roads leading to the shoreline were also compiled.

The rectified color photography was used for the interior compilation and the compilation of shoallow and shoal areas for Nautical Charts.

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 a stereoscopic examination of the color printons and graphically compiling from the rectified color photography.

35. Shoreline and Alongshore Features

The photography was adequate for the delineation and interpretation of the shoreline and alongshore features. Several areas of shoreline of Manatee Bay were brought to the attention of the field editor for verification. Turn-ins were delineated to several inshore lakes and ponds which were not otherwise shown.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

The Aerotriangulation Section did not locate any objects of possible landmark value during bridging. Further, the Nautical Charts of the area show no landmarks. Any aids to navigation will be located during field edit. There are none listed for the area of this map.

38. Control for Future Surveys - None.

39. Junctions

Refer to Form 76-36B.

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

Comparison with the following existing map was made:

USGS Quadrangle Glades, Florida, 1:24,000, photorevised 1973.

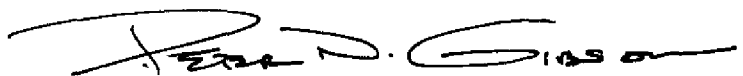
47. Comparison with Nautical Charts

Nautical Chart 11451 (formerly 141-SC):

Miami to Marathon and Florida Bay, 1:80,000, dated October 1974.


No significant differences were noted.

Respectfully submitted



Peter N. Gibson

Approved and forwarded:

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

FIELD EDIT REPORT, MAP TP-00444, JOB PH 7113

51. METHODS

The shoreline was inspected from a small boat while cruising just off shore. Notes regarding apparent and fast shoreline were made of the rectified photographs.

One triangulation station was recovered.

Two bench marks were identified.

There are no aids, landmarks or tide gages that fall within the limits of the manuscript.

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

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 3/17/75

  
Robert R. Wagner  
Chief, Photo Party 60

Review Report  
Coastal Zone Map TP-00444  
June 1976

61. General

The map manuscript for Coastal Zone Map TP-00444 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 at the time of compilation or review for this map.

62. Cartographic Comparison

Comparison was made with the following USGS quadrangle map at a scale of 1:24,000:

Glades, Florida, 1956

No significant changes were found.

Comparison was made with the following Nautical Chart:

1451 (formerly 141-SC), 13th edition, dated August 16, 1976

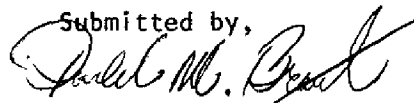
No significant changes were found.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00444 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

16 Jan. 1975

## GEOGRAPHIC NAMES

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

TP-00444

Aerojet Canal C-111

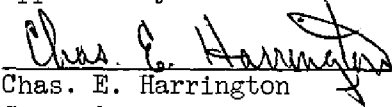
Everglades National Park

Flat Point

Glades Canal

Manatee Bay

Approved by

  
Chas. E. Harrington  
Staff Geographer-C51x2

National Archives Data  
TP-00444

1 Discrepancy print (paper copy)  
1 Field edit sheet (stable base copy)  
1 NOAA Form 76-40 (History of Field Operations)

Photography:

72K6293  
73L(C) 2939R