

Original

TP-00445

TP-00445

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-00445.....
Classification No. Final	Edition No. ...1.....
Field Edited Map	
LOCALITY	
State Florida	
General Locality Dade-Monroe County	
Locality Card Point to Main Key	
.....	
<hr/> 1972 TO 1975 <hr/>	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. 00445 MAP EDITION NO. (1) MAP CLASS Final JOB PH. 7119	
DESCRIPTIVE REPORT - DATA RECORD							
PHOTOGRAMMETRIC OFFICE Rockville, Maryland				LAST PRECEEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED			
OFFICER-IN-CHARGE Cdr. James Collins				JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__			
I. INSTRUCTIONS DATED							
1. OFFICE General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000 December 9, 1975 Supplement I, November 4, 1974 Supplement III, October 24, 1974 NOTE: Office and field edit instructions (1975) incorporate applicable prior operational instructions.				2. FIELD Aerial photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000 General Instruc- tions for Florida Coastal Zone Mapping) 1973			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION				4. GRID(S)			

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS

NAME

DATE

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

TP-00445

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) L & K 6" focal length Wild RC-8		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR IR (P) PANCHROMATIC (B) INFRARED B&W		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
73L(C) 2939-2941R	3/8/73	1019	1:40,000	The stage of tide is inapplicable for the color photography.	
73L(C) 2957-2958R	3/18/73	1040	1:40,000		
72K6550-6552R	2/20/72	0933	1:30,000	Refer to Form 76-36B(1) for stage of tide data.	
72K6581-6582R	2/20/72	0952	1:30,000		
72K6388-6391R	2/14/72	1440	1:30,000		
72K6315-6316R	2/14/72	1254	1:30,000		

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide-coordinated black-and-white infrared photography listed in item 1. The rectified color photography was used as an aid for interpreting alongshore mangrove areas, and compiling the limits of shoal and shallow areas for Nautical Charts.

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

The source of the MLW line is the tide-coordinated black-and-white infrared photography listed under item 1.

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	EAST	SOUTH	WEST
TP-00434	TP-00446	TP-00448	TP-00444

REMARKS

Final junctions will be 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 - 00445

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
72K6581-6582	Card Sound	-0.03 MLW	at tide station 0.52'
72K6388-6389	Card Sound	-0.33 MHW	
72K6550-6552	" "	+0.03 MLW	
72K6315-6316	" "	+0.25 MHW	

REMARKS:

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

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

TP-00445

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY R.R. Wagner	7/75
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY R.R. Wagner	7/75
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY R.R. Wagner	7/75
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R.R. Wagner	7/75
	LOCATED (Field Methods) BY R.R. Wagner	7/75
	IDENTIFIED BY Inapplicable	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	7/75
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.R. Wagner	7/75
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	73L2940R	L316, R704(DC), R705(DC)
		73L2957R	J316, G316
		73L2958R	S316

3. PHOTO NUMBERS (Clarification of details)

73L(C)2968R Contact; 72K6580,6581; 73L2940R,2941R, 73L2957R,2958R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Landmarks and nonfloating aids were either located or verified during field edit.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

Inapplicable

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

Sketchbook pages

*Refer to Field Reports bound with this Descriptive Report.

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

RECORD OF SURVEY USE

TP-00445

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
		11/17/75	Three(3) forms 76-40 submitted to Marine Chart Division as final report.

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 11/17/75
 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-00445 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



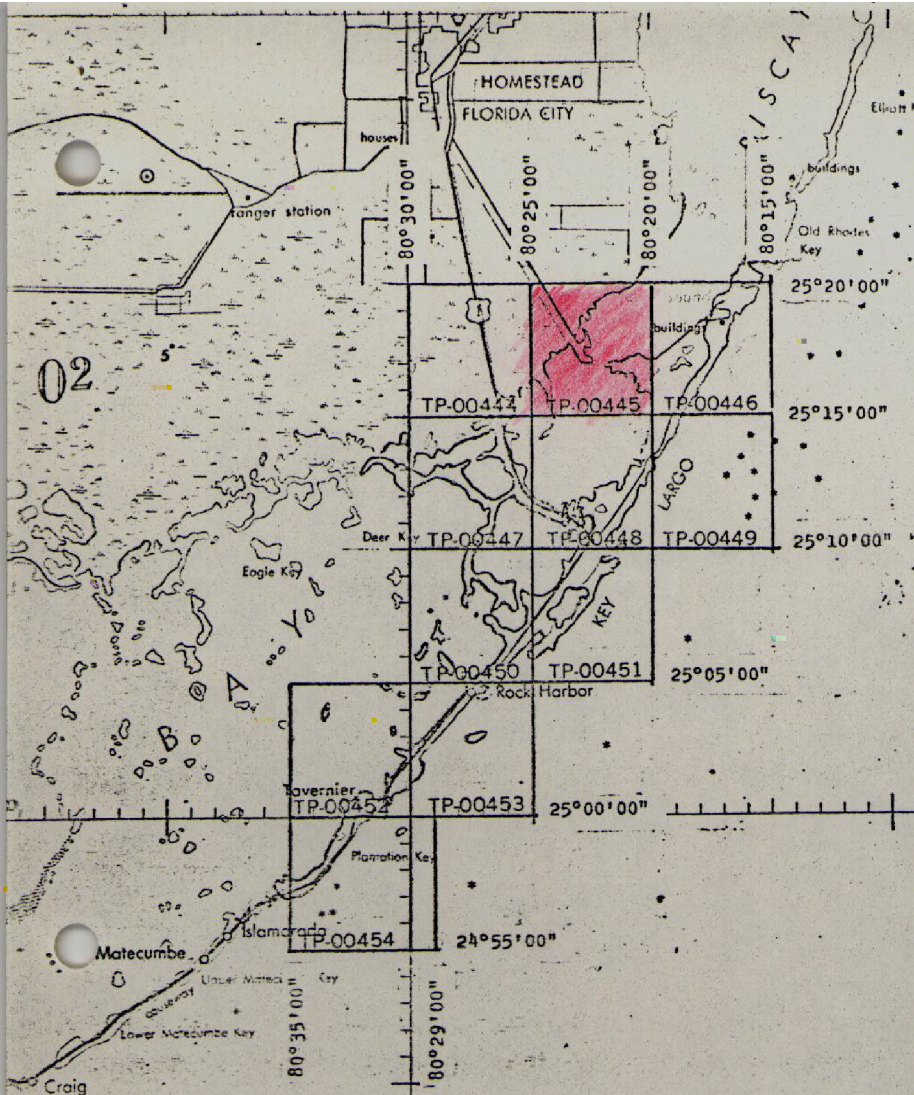
shallow lines used by the Marine Chart Division but not required on the Coastal Zone Maps. This copy of the map is labeled "Registration Copy" in the title block.

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
TP-00444	2
<u>TP-00445</u>	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 ± 0.3 ft. for MHW and ± 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 BISCAYNE 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 1420-1435 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 were 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 MWL, 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 KEYS 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 re-scheduled. 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 over-hung 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

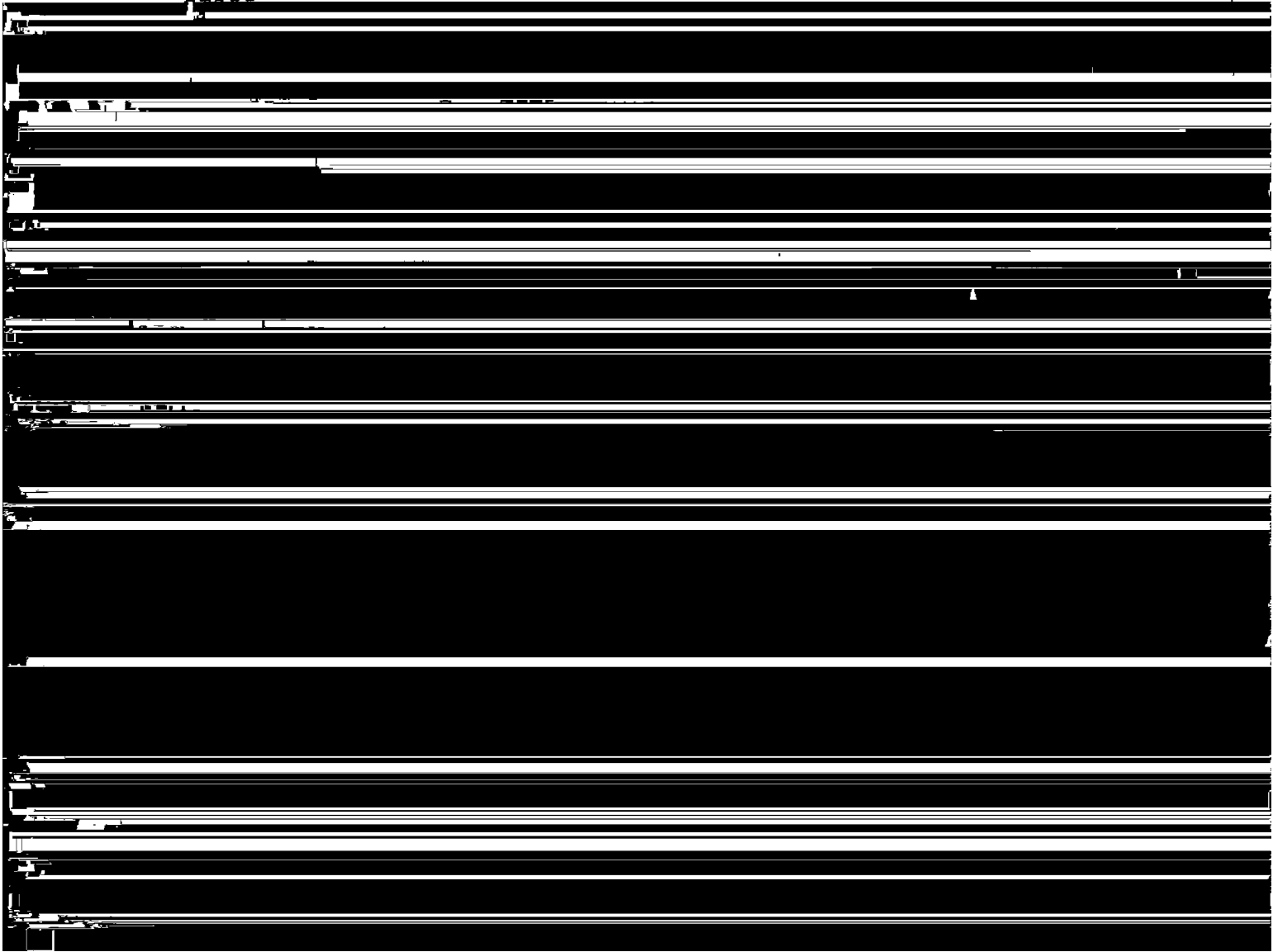
mouth of the northern cut (MANCROVE POINT) was observed and its value recorded at 5 minute intervals from 1135 to 1300 hours. The latter staff values are listed in the EAST ARSENICKER Form 277.

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



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



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

22. Method

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

23. Adequacy of Control

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

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

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

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

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

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

3

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

Tavernier 1935
Snake 1934 Sub. Sta.

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

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

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

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

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

Since stations established in 1971 and later have positions which

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

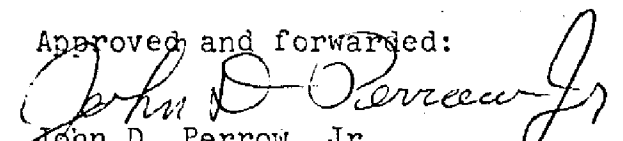
The quality and definition of the photography was adequate.

Respectfully submitted,



Victor McNeel

Approved and forwarded:



John D. Perrow, Jr.
Chief, Aerotriangulation Section

80°

25.20'00"

CONTROL STATIONS USED IN THE ADJUSTMENTS

CONTROL STATIONS

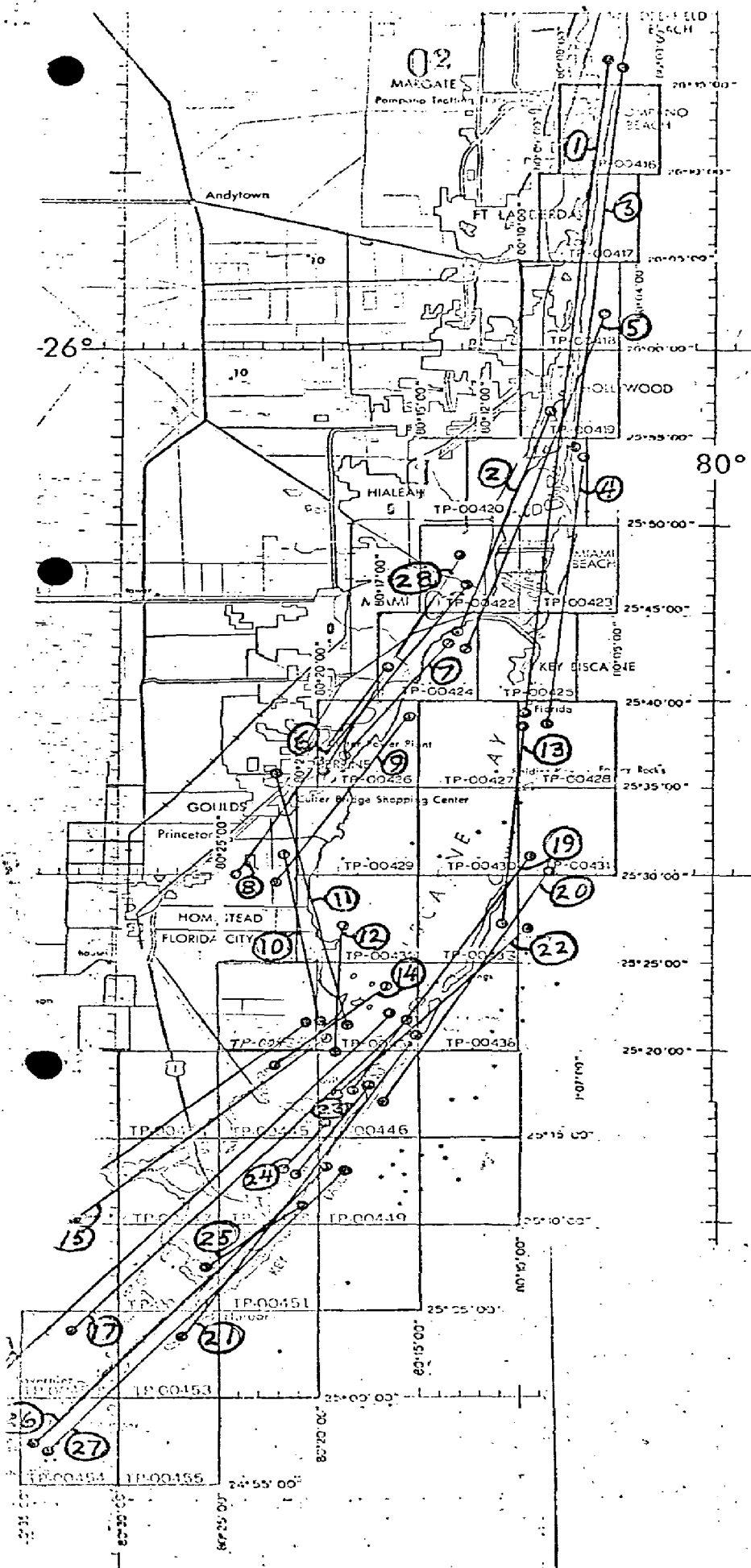
			<u>residuals</u>
1.	(027100)	Turtle 1929	-0.706 -0.115
2.	(023102)	Pompano, 1928, subpoint B	1.488 -0.229
3.	(029100)	South Jetty, 1938	-1.134 0.176
4.	(034101)	Halland, 1928	0.317 -0.007
5.	(567101)	Causeway, 1934	0.027 -0.012
6.	(562101)	Point View, 1934	0.000 -0.181
7.	(207100)	Base, 1934	0.112 0.142
8.	(204100)	Key Biscayne North Base, 1849	-0.158 0.033
9.	(201101)	Cape Florida Old Tower Finial, subpoint A	-0.156 0.002
10.	(538102)	Pan American, 1935, Target 2	0.000 0.000
11.	(534101)	Naco 1934, subpoint A	0.000 0.000
12.	(544801)	Tie point from strip #5 used as control for strip #6	-0.157 0.025
13.	(591100)	Black Point 3	0.351 -0.066
14.	(595101)	Turkey Point No. 2, 1930, RM No. 2	-0.229 0.073
15.	(940100)		
	(602100)	Narrow Point 1854	-1.808 1.267
16.	(944100)	Man 1930.	0.222 -0.009
17.	(960100)	Long Sound, 1961	-0.168 -0.075
18.	(936101)	Snipe Point, 1934, sub- station	-0.215 -0.201
19.	(878101)	Irving, 1971, substation	0.687 -0.080
20.	(875102)	Mangrove (USE), 1930, subpoint B	-0.826 0.125
21.	(872101)	Sands Cut RM 2, 1849-1947 substation	0.296 -0.049
22.	(901100)	Rubi, 1930-1947, reset	-0.192 -0.134

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

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

Horizontal Control

Map TP- 00445

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
AT&T MICROWAVE TOWER KIP 59 1961	Florida Vol 11 P. 344 for GP, PC, Descp.
MOSQUITO CREEK 1854	Book 424 P. 9, 30, ^{GP-FB} GP Vol 1 P. 322, ^{PC} FL Fla. East Zone P. 79

Geodetic Bench Mark	Elevations (feet)	Condensed Description
	SLD 1929	
L 316✓		C&GS disk stamped L 316 1970; 29 ft. NE of road, 20 ft. SE of extended center line of road; 0.5 ft. SW of witness post.
R 704 (DC)✓		1 inch brass plug stamped DCEM R 704; 54 ft. SE of concrete power pole, 15 ft. NE of road, 1 ft. SW of witness post.
R 705 (DC)✓		1 inch brass plug stamped DC BM R 705; 16.5 ft. SW of road, 1 ft. NE of witness post.
S 316✓		C&GS disk stamped S 316 1970; set in the concrete base for the 6 th pier west of the water way under the bridge for fishing pier.
J 316✓		C&GS disk stamped J 316 1970; set in the top of the W. end of S. walkway.
G 316✓		C&GS disk stamped G 316 1970; set in the top of the W. end of N. walkway.

Compilation Report
TP-00445
May 1975

31. Delineation

The tidal datum lines were compiled from office interpretation of the tide-coordinated, black-and-white infrared photography. This photography was controlled by common planimetric detail compiled from the color photography and map points determined by aerotriangulation.

The rectified color infrared photography was used as an aid for interpreting culture features and compiling the channel lines, shoal, shallow lines, and small scattered mangrove islets.

The rectified color photography was also used for the compilation of the interior details.

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 printouts and graphically compiling from the rectified color photography.

35. Shoreline and Alongshore Detail

The tidal datum lines were compiled from the black-and-white, tide-coordinated infrared photography.

The interpretation of this photography was questionable for the delineation of the MLWL along Card Bank. A thorough investigation of this area is requested during field edit.

36. Offshore Details

The shoal and shallow lines on this map were delineated from the rectified prints of the color photography.

37. Landmarks and Aids

There are no charted landmarks. Non-floating aids will be located or verified during field edit.

38. Control for Future Surveys - None.

39. Junctions

Refer to Form 76-36B (Data Record).

40. Horizontal Accuracy

This map complies with the accuracy requirements for the Florida Coastal Mapping Program as outlined in the project instructions for Job PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS quadrangles:

Card Sound, Fla., 1956, 1:24,000, photorevised 1969/1975;
Glades, Fla., 1956, 1:24,000, photorevised 1969/1975.

No significant differences were found.

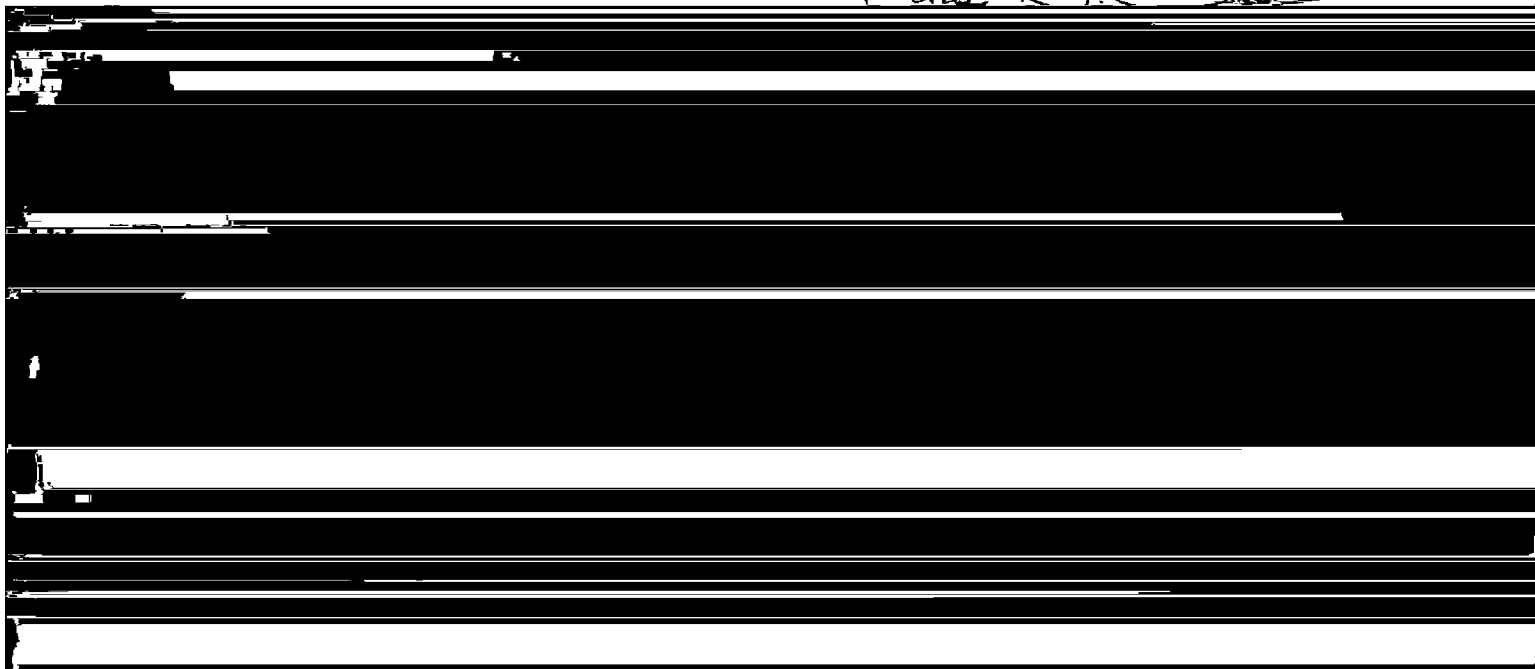
47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

11463(formerly 849) 7th Edition, August 1974, 1:40,000 scale;
11451(formerly 14156) 12th Edition, October 1974, 1:80,000 scale;
1249, 12th Edition, April 1973, 1:80,000.

The charts show extensive MLW area along Card Bank which is not visible on photography used in compilation of Map TP-00445.

Respectfully submitted,



FIELD EDIT REPORT, MAP TP-00445 JOB PH 711951. METHOD

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

Two triangulation stations were recovered.

Card Sound Tide Gage was identified on photo 73L2957R and Tidal BM S 316 was identified on photo 73L2958R. Photo Party 65, tidal party, is planning on setting a new gage around Cormorant Point in the future.

One landmark is recommended for charting.

Twelve aids were located by sextant cuts.

One name "CARD SOUND BRIDGE" is recommended for charting. The name is on the bridge and on the toll receipts for crossing over the bridge.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted By

Robert R. Wagner 7/7/75
Robert R. Wagner
Chief, Photo Party 60

ADDENDUM 1, TP-00445 PH 7119

Cormorant Point Tide Gage was installed after field edit.
It along with Tidal Bench Mark 1 was identified on
photograph 73L2957R.

Submitted 8/20/75

Robert R. Wagner
Robert R. Wagner
Chief, Photo Party 60

REVIEW REPORT
Coastal Zone Map TP-00445
June 1976

61. General

The map manuscript for Coastal Zone Map TP-00445 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 of this map.

62. Cartographic Comparison

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

- Card Sound, Florida, 1956, Photo revised 1969 and 1973
- Glades, Florida 1956

No significant changes were found.

Comparison was made with the following nautical chart:

- 11463 (formerly C&GS 849), 7th edition, dated August 3, 1974, 1:40,000 scale.

Chart 11463 shows extensive MLW areas that are not shown on Coastal Zone Map TP-00445. These areas were investigated by the field editor

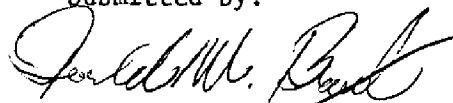
and the investigation shows the areas covered at MLW. The field editor's notes are annotated on the Chart Maintenance Print.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

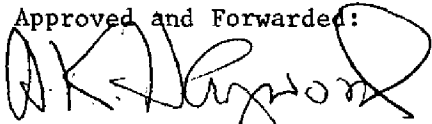
Coastal Zone Map TP-00445 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000, and the National Standards of Map Accuracy.

Submitted by:

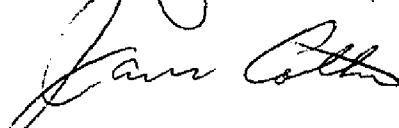


Donald M. Brant

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

27 Jan. 1975

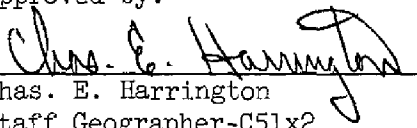
GEOGRAPHIC NAMES

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

TP-00445

Barnes Point ✓	Smokehouse ✓
Barnes Sound ✓	Steamboat Creek ✓
Card Bank ✓	Turkey Point ✓
Card Point ✓	
Card Point Cut ✓	
Card Sound ✓	
Cormorant Point ✓	
Key Largo ✓	
Little Card Point ✓	
Little Card Sound ✓	
Main Key ✓	
Manatee Bay ✓	
Middle Key ✓	
Mosquito Creek ✓	
Mud Point ✓	
Narrow Point ✓	
Short Key ✓	

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY

☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

REPORTING UNIT
 Port, Ship or Office
 Annapolis, MD

STATE
 FLORIDA

LOCALITY
 Card Point to
 Main Key

DATE
 5/15/75

☐ HAVE NOT ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

NUMBER	SURVEY NUMBER	DESCRIPTION <i>(For deletion of landmark or aid to navigation, use station names, where applicable, in parentheses)</i>	DATUM		POSITION		METHOD AND DATE OF LOCATION <i>(See instructions on reverse side)</i>			CHARTS AFFECTED
			N.A. 1927							
			LATITUDE		LONGITUDE					
° /	D.M. Meters	° /	D.P. Meters	OFFICE	FIELD					
H-7119	TP-00445	BAY - LONG KEY Light 16	25 18	49.16 1512.66	80 20	43.64 1220.64	L-P-3-8 6/30/75		11451 1249 11463	
		Light 17	25 18	48.47 1491.43	80 20	41.86 1170.85	P-V-3-8 6/30/75		"	
		Dybn 18	25 18	33.54 1032.03	80 20	54.04 1511.58	L-P-3-8 6/30/75		"	
		Dybn 19	25 18	32.88 1011.72	80 20	52.29 1462.64	"		"	
		Light 20	25 18	15.59 479.71	80 21	06.06 169.51	L-V-3-8 6/30/75		"	
		Dybn 21	25 18	15.02 462.17	80 21	04.24 118.6	L-P-3-8 6/30/75		"	
		Point Light 22	25 17	23.61 726.48	80 22	02.40 67.14	L-P-3-8 6/30/75		"	
		Point Dybn 23	25 17	04.00 123.08	80 22	11.04 308.87	"		"	
		Point Light 24	25 17	03.71 114.18	80 22	12.51 350.00	73L2957R 3/8/73		"	

ORIGINATOR	
PARTY	
PARTY	
TY	
EPRESENTATIVE	
REPRESENTATIVE	
ROL AND REVIEW GROUP	
IVE	
:* require verification, the photo- the object.	
so a tri- enter 'Triang.	
TOGRAPH	
dependent established	

[illegible]

RESPONSIBLE PERSONNEL

NAME

TYPE OF ACTION

ORIGINATOR

- ☐ PHOTO FIELD PARTY
☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ OTHER (Specify)

RECEIVED FROM SEAWARD

DETERMINED AND/OR VERIFIED

R. Wagner

FIELD ACTIVITY REPRESENTATIVE

 DATED BY QUALITY CONTROL
 GROUP AND FINAL REVIEW

P. Dempsey

OFFICE ACTIVITY REPRESENTATIVE

- ☐ REVIEWER
☐ QUALITY CONTROL AND REVIEW GROUP
 REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64.)

OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.

EXAMPLE: 75E(C)6042
8-12-75

NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

- Field P - Photogrammetric
- Located Vls - Visually
- Verified
- Triangulation 5 - Field Identified
- Traverse 6 - Theodolite
- Intersection 7 - Planetable
- Resection 8 - Sextant

Field positions* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L
8-12-75

POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.

EXAMPLE: P-8-V
8-12-75
74L(C)2982

III. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.

EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.

EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

3-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

* U.S. GOVERNMENT PRINTING OFFICE: 1974-665-073/1030 Region 6

[illegible]

RESPONSIBLE PERSONNEL		ORIGINATOR
TYPE OF ACTION		<input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
OBJECTS INSPECTED FROM SEAWARD	R. Wagner	
POSITIONS DETERMINED AND/OR VERIFIED	R. Wagner	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	F. Maloney (digitizer) J. Battley, Jr. D. Brant	OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)		
<div> <div> OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75 </div> <div> FIELD 1. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. </div> </div> <div> FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982 II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods. </div>		

TP-00445
National Archives Data

1 Discrepancy Print
1 Field edit sheet (stable base)
2 Pages of sextant fixes
1 Form 76-36C
3 Forms 76-40

Photographs:

73-L-2957R(two), 29, 5812, 2940R, and 2941R,
72-K-6582 and 6585.