<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Coastal Boundary</th>
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<tbody>
<tr>
<td>Job No.</td>
<td>PH-7119</td>
</tr>
<tr>
<td>Map No.</td>
<td>TP-00450</td>
</tr>
<tr>
<td>Classification No.</td>
<td>Final</td>
</tr>
<tr>
<td>Edition No.</td>
<td>1</td>
</tr>
<tr>
<td>Field Edited Map</td>
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</tbody>
</table>

**LOCALITY**

State: Florida

General Locality: Monroe County

Locality: Boggy Key to Key Largo Beach

1972 TO 1975

**REGISTRY IN ARCHIVES**

DATE: 

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NOAA FORM 76-36A U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

PHOTOGRAMMETRIC OFFICE
Rockville, Maryland
OFFICER-IN-CHARGE
Commander James Collins

1. INSTRUCTIONS DATED

1. OFFICE
General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000 December 9, 1975 Supplement 1, November 4, 1974 Supplement III, October 24, 1974 NOTE: Office & 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 Instructions for Florida Coastal Zone Mapping 1973

II. DATUMS

1. HORIZONTAL: X 1927 NORTH AMERICAN

2. VERTICAL:

   X X MEAN HIGH-WATER
   X X MEAN LOW-WATER
   MEAN LOWER LOW-WATER
   MEAN SEA LEVEL

   OTHER (Specify)
   Mean water level
   Refer 76-36 B(1): Remarks

3. MAP PROJECTION
Transverse Mercator

4. GRID(S)
STATE: Florida
ZONE: East

5. SCALE
1:10,000

III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
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</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>V. McNeel</td>
<td>6/74</td>
</tr>
<tr>
<td>METHOD: Analytic</td>
<td>LANDMARKS AND AIDS BY</td>
<td>Inapplicable</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>D. Phillips</td>
<td>6/74</td>
</tr>
<tr>
<td>METHOD: Coradamat</td>
<td>PLOTTED BY</td>
<td>Inapplicable</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
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<td>Inapplicable</td>
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<tr>
<td>COMPILATION</td>
<td>PLANIMETRY BY</td>
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<tr>
<td>INSTRUMENT:</td>
<td>CHECKED BY</td>
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<tr>
<td>SCALE:</td>
<td>CONTOURS BY</td>
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<tr>
<td></td>
<td>CHECKED BY</td>
<td>Inapplicable</td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>S. Solbeck</td>
<td>4/75</td>
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<tr>
<td>METHOD: Graphic</td>
<td>PLANIMETRY BY</td>
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<tr>
<td>SCALE: 1:10,000</td>
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<tr>
<td>HYDRO SUPPORT DATA BY</td>
<td>Inapplicable</td>
<td></td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>Inapplicable</td>
<td></td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>J. Battley</td>
<td>6/75</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>J. McClure</td>
<td>9/75</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>J. Battley, Jr.</td>
<td>9/75</td>
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<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>J. Battley</td>
<td>9/75</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td>D. Brant</td>
<td>9/75</td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td>D. Brant</td>
<td>8/76</td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>P. T. Catok</td>
<td>9/76</td>
</tr>
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</table>
TP-00450

1. Compilation Photography

<table>
<thead>
<tr>
<th>Camera(s)</th>
<th>Types of Photography Legend</th>
<th>Time Reference</th>
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<tbody>
<tr>
<td>Wild RC-8 K&amp;L 6&quot; focal length</td>
<td>(C) Color IR (P) Panchromatic (I) Infrared B&amp;W</td>
<td>Eastern Meridian 75th</td>
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<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tbody>
<tr>
<td>73-L(C)2789-2791(R)</td>
<td>3/5/73</td>
<td>1417</td>
<td>1:40,000</td>
<td>The stage of tide is inapplicable for color photography.</td>
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<tr>
<td>73-L(C)2962-2964(R)</td>
<td>3/18/73</td>
<td>1045</td>
<td>1:40,000</td>
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<tr>
<td>72K6508R-6510R</td>
<td>2/16/72</td>
<td>1105</td>
<td>1:30,000</td>
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<tr>
<td>72K6322R-6325R</td>
<td>2/14/72</td>
<td>1250</td>
<td>1:30,000</td>
<td>Refer to NOAA Form 76-36B(1)</td>
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<tr>
<td>72K6373R-6374R</td>
<td>2/14/72</td>
<td>1411</td>
<td>1:30,000</td>
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</tbody>
</table>

Remarks

2. Source of Mean High-Water Line:

The source of the MHWL along the Atlantic Ocean is the black-and-white, tide-coordinated infrared photography listed under item 1.

The source of the MHWL shown on the interior waters in Florida Bay is the black-and-white, tide-coordinated infrared photography listed under item 1. (Refer to Remarks Form 76-36 B(1) for explanation of mean water level datum).

The map was field edited in 1975.

3. Source of Mean Low-Water or Mean Lower Low-Water Line:

The source of the MLWL shown on the Atlantic Ocean is the black-and-white, tide-coordinated infrared photography listed under item 1.

4. Contemporary Hydrographic Surveys (List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
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<tbody>
<tr>
<td>Inapplicable</td>
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5. Final Junctions

<table>
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<tr>
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<th>East</th>
<th>South</th>
<th>West</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>TP-00447</td>
<td>TP-00451</td>
<td>TP-00453</td>
<td>No Contem-</td>
<td>Final junctions were made in the Coastal Mapping Section.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>porary survey</td>
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<td>LOCATION AND PHOTOGRAPHY</td>
<td>TIDE STATIONS</td>
<td>STAGE OF TIDE</td>
<td>MEAN RANGE</td>
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<tr>
<td>--------------------------</td>
<td>-----------------------------------</td>
<td>---------------</td>
<td>------------</td>
<td></td>
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<tr>
<td>ATLANTIC OCEAN</td>
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<tr>
<td>72K6508-6510</td>
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<td>72K6373-6374</td>
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<td>+0.13MLW</td>
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<tr>
<td>LITTLE BUTTONWOOD</td>
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<td>SOUND &amp; FLORIDA BAY</td>
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<td>Tavernier, Florida Bay</td>
<td>+0.18MNL</td>
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<td></td>
<td>+0.20MNL</td>
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<td>TARPOON BASIN</td>
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<td>72K6510</td>
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<td>+0.20MNL</td>
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<tr>
<td>FLORIDA BAY</td>
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<tr>
<td>72K6323-6325</td>
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</table>

**REMARKS:** The periodic tide for the interior waters on this map were masked by non-tidal forces and the mean range was less than two-tenth 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 by a distinctive symbol except for man made features such as bulkheads which are shown by a solid line or where vegetation such as mangrove obscures the shoreline and then the apparent shoreline symbol was used.
# History of Field Operations

**Operation** | **Name** | **Date**
--- | --- | ---
1. Chief of Field Party | R. R. Wagner | 7/75
2. Horizontal Control | R. R. Wagner | Inapplicable
3. Vertical Control | R. R. Wagner | 7/75
4. Landmarks and Aids to Navigation | R. R. Wagner | 7/75
5. Geographic Names Investigation | R. R. Wagner | 7/75
6. Photo Inspection | R. R. Wagner | 7/75
7. Boundaries and Limits | Inapplicable | Inapplicable

## Source Data

1. Horizontal Control Identified
   - Photo Number: Refer to Field Report
   - Station Name: 73L2989R
   - Station Designation: ROCK HARBOR 2 AZI
   - 73L2990R
   - Z 274, V 275
   - 73L2791R
   - W 68

2. Vertical Control Identified
   - Photo Numbers (Clarification of details)
     - 73L(C) 2763R, 2764R, 2989R, 2990R
     - 72K6374R

3. Landmarks and Aids to Navigation Identified
   - Landmarks and nonfloating aids were located or verified by photogrammetric methods.
   - Photo Number: 73L2789R
   - Object Name: Tarpon Basin Daybn 42
   - Photo Number: 73L2790R
   - Object Name: Tower
   - Photo Number: 73L2789R
   - Object Name: Grouper Cr. Daybn 52
   - Photo Number: 73L2789R
   - Object Name: Radio Tower

4. Geographic Names:
   - Report: None
   - None

5. Boundary and Limits:
   - Report: None
   - None

## Supplemental Maps and Plans

8. Other Field Records:
   - Sketch books, etc. DO NOT list data submitted to the Geodesy Division

   Pages from sketch book.

   * The field report is bound in this Descriptive Report.
NOAA FORM 76-36D
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-00450

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

<table>
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<th>Date Manuscript Forwarded</th>
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<td>Date</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
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<tr>
<td>Marine Charts</td>
<td></td>
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<tr>
<td>Hydro Support</td>
<td></td>
</tr>
</tbody>
</table>

There were no copies of TP-00450 submitted 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

<table>
<thead>
<tr>
<th>Number</th>
<th>Chart Letter Number Assigned</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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<tr>
<td></td>
<td></td>
<td>11/25/75</td>
<td>Four (4) digitized NOAA Forms 76-40 are submitted as final report.</td>
</tr>
</tbody>
</table>

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 11/25/75

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)

<table>
<thead>
<tr>
<th>Survey Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
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<td>Second Edition</td>
<td>TP - (2)</td>
<td>PH -</td>
<td>Revised Resurvey</td>
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<td>Date of Photography</td>
<td>Date of Field Edit</td>
<td>Map Class</td>
</tr>
<tr>
<td>Third Edition</td>
<td>TP - (3)</td>
<td>PH -</td>
<td>Revised Resurvey</td>
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<td>Date of Photography</td>
<td>Date of Field Edit</td>
<td>Map Class</td>
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<td>Fourth Edition</td>
<td>TP - (4)</td>
<td>PH -</td>
<td>Revised Resurvey</td>
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<td>Map Class</td>
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</tbody>
</table>

NOAA FORM 76-36D
SUMMARY
for
TP-00444 thru TP-00454

Coastal Zone Map TP-00450 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 Mapping, Card Sound to Plantation Key, Florida. The field work was done during the period 20 July - 7 September 1971.

1. PREPARING 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 MLLW 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 and
was flown for MLW at 1:35-1:35 on August 6 when the MIAMI
EGGAYE BAY staff read 2.3 and 2.2. The south end was flown
for MLW at 1:425-1:435 on August 6 when the CUTLER staff read
2.75 and 2.60.

Line 30-5. MLW North half flown at 8:05-8:15 on August 7 when
CUTLER staff read 4.5 to 4.7. South half flown at 8:20-8:25
on August 7 when the TURKEY POINT staff read 3.15 to 3.05.
The north half was flown at 1:30-1:35 on 6 August when the CUTLER
staff read 2.73 to 2.69. South half flown at 8:50-8:55 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 8:55-9:00 to get outlying islands which
might not have been covered at the reduced altitude.

Line 20-2. MLW The northern two-thirds were flown at 8:02-
8:15 on August 9 when the OCEAN REEF staff read 4.45 to 4.70.
The remainder was flown at 8:30-8:40 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 12:28-
12:30 on August 7 when the staff read 2.25 to 2.11, the NE end
was flown at 1:30 on August 6 when the staff read 2.2, and the
south part flown at 9:55-10:01 on 16 August when the staff read
2.30.

Line 30-3 (Outside) MLW Flown at 9:39-9:47 on August 11 when
the TAVERNIER HAWK CHANNEL staff read 4.00 to 4.12. MLW Flown
at 9:37-9:44 on August 1 when the staff read 2.4.

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

Line 20-1. MLW No photography. MLW Line was flown at 9:27-
9:45 on August 16 when the RAGGED KEYS staff read 1.8 to 1.75.

Line 30-1. MLW The middle third was flown at 10:20-10:25 on
August 4 when the CARD SOUND staff read 3.7 and the MANATEE
CREEK staff read 3.5. The remainder was flown at 11:10-11:15
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 8:35-8:40 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 photo-
graphy 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 MW 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
Chief, Photo Party 65
FIELD REPORT
JCP 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 panned 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 wind was from the north-
west at 20-25 knots all morning. These lines were also flown
on February 17, 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 PARNES 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 MML, and ±0.10 foot for MLW were ob-
served. 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
BAGGED 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 1005 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 2.73-2.81.

Line 30-2. MHW It was completed at 1250 on February 14 when the TAVERNIER, FLA. BAY staff read 3.05 (MNL 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 2.30-2.23.

Line 30-3 (Florida Bay Side). MLW 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 ARSENIKER Form 277.

5. **Foreshore Profiles**

Four planable 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
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 Coromaton 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
- Knowlton, 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)2871-2884R
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
<table>
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<tr>
<th>No.</th>
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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
CONTROL STATIONS
USED IN THE
ADJUSTMENTS
### INFRA-RED CONTACT PRINTS

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JOB PH-7113
AND
JOB PH-7119

HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA

INFRA-RED CONTACT
PRINTS RATIOED FOR
COMPILATION
<table>
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<tr>
<th>Station</th>
<th>NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths</th>
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<td>LARGO 1962</td>
<td>Fla. Vol 2 P. 610</td>
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<td>KEY LARGO CABLE VISIONS INC 1961 (TALLER MAST)</td>
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<td>TARFON 1934</td>
<td>Book 424, P. 21, 32; R.C. P. 89; G.P. P. 359</td>
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<td>ROCK HARBOR 2 1961</td>
<td>Fla. Vol 2 P. 323</td>
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31. **Delineation**

The tidal datum lines and offshore features on this map were compiled from office interpreted black-and-white, tide-coordinated infrared photography. This photography was controlled by common planimetric features compiled from the rectified prints and map points determined by aerotriangulation.

The-rectified color photography was used as an aid for interpreting culture features and compiling shallow and shoal areas for Nautical Charts.

Interior features compiled were limited to the first main road behind the MHWL or 800 to 1000' behind the MHWL. Roads leading the the MHWL in these areas, if considered public roads, were also compiled.

32. **Horizontal Control**

See Photogrammetric Plot Report.

33. **Supplemental Data** - None.

34. **Contours and Drainage**

Contours are not applicable. Drainage is depicted by a stereo examination of the color contact prints and graphically compiling from the rectified photograph.

35. **Shoreline and Alongshore Detail**

The black-and-white, tide-coordinated infrared photography was adequate for the delineation of the tidal datum lines. The MHW and MLW lines were mapped along the Atlantic Ocean and the MWL was mapped on the interior waters of Florida Bay.

A field edit of this map is requested for the verification of the interpretation of the photography.

36. **Offshore Details**

Shoal and shallow lines were delineated from the rectified prints of the color photography.

37. **Landmarks and Aids**

All landmarks and 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:

Blackwater Sound, Fla. 1969, 1:24,000 scale;
Rock Harbor, Fla. 1969, 1:24,000 scale.

No significant differences were found.

47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

849 1:40,000, 6th Edition, August 19, 1972;
850 1:40,000, 6th Edition, August 19, 1972;
11451 1:80,000, 12th Edition, October 1974;

No significant differences were found.

Submitted By:

[Signature]

Stephen H. Solbeck

Approved and forwarded:

[Signature]

J. P. Battley, Jr.

Chief, Coastal Mapping Section
51. METHODS

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

Three triangulation stations were recovered.

Three vertical control stations were recovered and identified.

Four landmarks are recommended for charting.

Sunset Cove tide gage and Tidal BM 5 were identified on photograph 73L2790R.

All known aids were located, verified or identified.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

54. RECOMMENDATION

None.

55. EXAMINATION OF PROOF COPY

None required

Submitted by

Robert R. Wagner
Chief, Photo Party 60
7/30/75
61. **General**

The map manuscript for Coastal Zone Map TP-00450 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 planetale beach profiles available for compilation or final review.

62. **Cartographic Comparison**

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


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


Copies of the field editors notes are attached to the Chart Maintenance Print for the following areas:

1. The MLW area shown on chart 11463 along the Atlantic shoreline at latitude 25°06' and longitude 80°35'.

2. The shoreline along Porjoe Key.
Refer to the Field Edit Report for explanation.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00450 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
GEOGRAPHIC NAMES

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

TP-00450

Atlantic Ocean
Baker Cut
Blackwater Sound
Boggy Key
Bush Point
Buttonwood Sound
Dusenbury Creek
Everglades National Park
Florida Bay
Grouper Creek
John Pennekamp Coral Reef State Park
Key Largo
Key Largo Beach
Little Buttonwood Sound
Newport
Pelican Key
Point Pleasant
Porjoe Key
Port Largo

Approved by:

Chas. E. Harrington
Staff Geographer-C51x2
BISCAYNE BAY-LONG KEY
* BLACKWATER SOUND

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* 42 *
* 80 25 26.96 755.1 13 * * 07/02/75 * 11451 *
* DITTO *
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** TARPON BASIN

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** TYPE OF ACTION
** NAMES OF RESPONSIBLE PERSONNEL
** ORIGINATOR

** POSITIONS DETERMINED
** AND/OR VERIFIED BY
** FIELD-AND-OFFICE
** ACTIVITIES

** ROBERT R. WAGNER
** P. DEMPSEY AND VERIFIED BY J. BATTLEY
** J. TAYLOR
** DIGITIZER
** DATA PROCESSOR
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<p>| POSITIONS DETERMINED | ROBERT R. WAGNER | FIELD REPRESENTATIVE |
| AND/OR VERIFIED BY   | P. DEMPSEY AND VERIFIED BY J. BATTLEY | OFFICE COMPILER |
| ACTIVITIES           | J. PIKONE           | DIGITIZER      |
|                      | J. TAYLOR           | DATA PROCESSOR |</p>
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- **DYB 57A** NOT IN PLACE
- MARKED BY BOUY

### Other Information

- **Type of Action**: Positions determined
- **Names of Responsible Personnel**: Robert R. Wagner
- **Originator**: Field Representative
- **Field and Office Activities**: P. Dempsey and verified by J. Battley
- **Office Compiler**: J. Pirkone
- **Data Processor**: J. Taylor
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1 Discrepancy print
1 Field edit sheet (stable base copy)
4 NOAA Forms 76-40 (Nonfloating Aids or Landmarks for Charts)
1 NOAA Form 76-36c (History of Field Operations)
3 Pages sextant fixes

Photography:

73-L(C) 2763R, 2764R, 2989R, and 2990R
72-K-6374R