<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Coastal Boundary</th>
</tr>
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<tbody>
<tr>
<td>Job No.</td>
<td>PH-7119</td>
</tr>
<tr>
<td>Map No.</td>
<td>TP-00446</td>
</tr>
<tr>
<td>Classification No.</td>
<td>Final Edition No.</td>
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<tr>
<td>Field Edited Map</td>
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</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Florida</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Locality</td>
<td>Monroe County</td>
</tr>
<tr>
<td>Locality</td>
<td>Angle Fish Key to</td>
</tr>
<tr>
<td></td>
<td>Worlds Beyond</td>
</tr>
</tbody>
</table>

1972 TO 1975

**REGISTRY IN ARCHIVES**

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-752-901
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 
Cdr. James Collins 

I. 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 and field edit instructions (1975) 
incorporate applicable prior operational 
instructions. 

2. FIELD: Aerial photography 9/2/69 
Supplement 1, 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: XX 1927 NORTH AMERICAN 
OTHER (Specify) 

2. VERTICAL: XX MEAN HIGH-WATER 
XX MEAN LOW-WATER 
OTHER (Specify) 

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>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>V. McNeal</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>R. Robertson</td>
<td>1/75</td>
</tr>
<tr>
<td>METHOD: Calcom</td>
<td>PLANNED BY</td>
<td>Inapplicable</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
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<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>S. Solbeck</td>
<td>4/75</td>
</tr>
<tr>
<td>COMPILATION</td>
<td>J. Battley</td>
<td>4/75</td>
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<tr>
<td>INSTRUMENT:</td>
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<tr>
<td>SCALE:</td>
<td></td>
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<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>J. Battley</td>
<td>1/76</td>
</tr>
<tr>
<td>METHOD: Graphic</td>
<td>PLANIMETRY BY</td>
<td>Inapplicable</td>
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<tr>
<td>CHECKED BY</td>
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<td>CONTOURS BY</td>
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<td>CHECKED BY</td>
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<tr>
<td>HYDRO SUPPORT DATA</td>
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<td>CHECKED BY</td>
<td></td>
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<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>J. Battley</td>
<td>4/75</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>J. McClure</td>
<td>11/75</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>C. Lewis</td>
<td>12/75</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>J. Battley</td>
<td>1/76</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>D. Brant</td>
<td>3/76</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
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<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
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</tr>
</tbody>
</table>

NOAA FORM 76-36A  SUPERSEDES FORM C&GS 181 SERIES  
* U.S. G.P.O. 1972-769382/582 REG.#6
1. COMPILATION PHOTOGRAPHY

CAMERA(S)
L(6") & K (6") RC-8

TIDE STAGE REFERENCE
☐ PREDICTED TIDES
☐ REFERENCE STATION RECORDS
☐ TIDE CONTROLLED PHOTOGRAPHY

<table>
<thead>
<tr>
<th>NUMBER AND TYPE</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>73L(C) 2905-2911</td>
<td>3/18/73</td>
<td>0945</td>
<td>1:20,000</td>
<td>The stage of tide is inapplicable for the color photography.</td>
</tr>
<tr>
<td>73L(C) 2955-2958R</td>
<td>3/18/73</td>
<td>1040</td>
<td>1:40,000</td>
<td>Refer to Form 76-36B(1) for stage of tide data.</td>
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<tr>
<td>72K6313R-6315R</td>
<td>2/14/72</td>
<td>1250</td>
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</tr>
<tr>
<td>72K6548R-6550R</td>
<td>2/20/72</td>
<td>1125</td>
<td>1:30,000</td>
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</tr>
<tr>
<td>72K6430R-6434R</td>
<td>2/15/72</td>
<td>1004</td>
<td>1:20,000</td>
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</tr>
<tr>
<td>72K6348R-6353R</td>
<td>2/14/72</td>
<td>1346</td>
<td>1:20,000</td>
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</tr>
</tbody>
</table>

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHWL was the black and white tide-coordinated infrared photography listed in item 1. The rectified color photography was used for the interpretation of culture shoreline.

Where the shoreline is obscured by vegetation, such as mangrove, the apparent shoreline symbol was used.

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

The source of the MLWL was the black and white tide-coordinated infrared photography listed in item 1. Refer to paragraph 36 of the Compilation Report.

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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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Inapplicable</td>
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5. FINAL JUNCTIONS

<table>
<thead>
<tr>
<th>NORTH</th>
<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
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<tbody>
<tr>
<td>TP-00435</td>
<td>No Survey</td>
<td>TP-00449</td>
<td>TP-00445</td>
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</tbody>
</table>

REMARKS

Final junctions were made in the Coastal Mapping Section.
### TIDE - COORDINATED PHOTOGRAPHY

#### LOCATION AND PHOTOGRAPHY

<table>
<thead>
<tr>
<th>ATLANTIC SHORELINE</th>
<th>TIDE STATIONS</th>
<th>STAGE OF TIDE</th>
<th>MEAN RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>72K6348-6353</td>
<td>Ocean Reef</td>
<td>+ 0.03 MLW</td>
<td>2.33'</td>
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<tr>
<td>72K6430-6434</td>
<td>Ocean Reef</td>
<td>0.00 MHW</td>
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#### INTERIOR WATERS

<table>
<thead>
<tr>
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<th>TIDE STATIONS</th>
<th>STAGE OF TIDE</th>
<th>MEAN RANGE</th>
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</thead>
<tbody>
<tr>
<td>72K6313-6315</td>
<td>Wednesday Point</td>
<td>+ 0.12 MHW</td>
<td>0.74'</td>
</tr>
<tr>
<td>Card Sound</td>
<td>+ 0.25 MHW</td>
<td>0.52'</td>
<td></td>
</tr>
<tr>
<td>72K6430-6434</td>
<td>Wednesday Point</td>
<td>+ 0.10 MHW</td>
<td>0.74'</td>
</tr>
<tr>
<td>Basin Hills</td>
<td>- 0.15 MHW</td>
<td>0.43'</td>
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<tr>
<td>72K6348-6353</td>
<td>Basin Hills</td>
<td>+ 0.71 MLW</td>
<td>0.43'</td>
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<tr>
<td></td>
<td>+ 0.28 MHW</td>
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<td></td>
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<td></td>
<td>- 0.06 MHW</td>
<td>0.74'</td>
<td></td>
</tr>
<tr>
<td>72K6548-6550</td>
<td>Wednesday Point</td>
<td>+ 0.08 MLW</td>
<td>0.74'</td>
</tr>
<tr>
<td>Card Sound</td>
<td>+ 0.03 MLW</td>
<td>0.52'</td>
<td></td>
</tr>
</tbody>
</table>

#### REMARKS:

The stage of the tide tolerance is greater than ±0.30' specified in the instructions for some of the photography used in compiling portions of the MHW and MLW lines. The horizontal positions of these lines were verified by field edit.
# HISTORY OF FIELD OPERATIONS

## 1. FIELD INSPECTION OPERATION
- **Operation:** Feb. 1972
- **Name:** R.R. Wagner
- **Date:** July 1975

### 1. CHIEF OF FIELD PARTY
- **Operation:** Recovered
- **Name:** R.R. Wagner
- **Date:** 7/75

### 2. HORIZONTAL CONTROL
- **Operation:** Established by
- **Name:** Inapplicable
- **Date:** Inapplicable

### 3. VERTICAL CONTROL
- **Operation:** Recovered by
- **Name:** R.R. Wagner
- **Date:** 7/75
- **Identification:** Inapplicable

### 4. LANDMARKS AND AIDS TO NAVIGATION
- **Operation:** Recovered (Triangulation Stations) by
- **Name:** R.R. Wagner
- **Date:** 7/75
- **Identification:** Inapplicable
- **Location:** Field Methods by
- **Name:** R.R. Wagner
- **Date:** 7/75

### 5. GEOGRAPHIC NAMES
- **Operation:** Complete by
- **Name:** Inapplicable
- **Date:** Inapplicable

### 6. PHOTO INSPECTION
- **Operation:** Clarity of details by
- **Name:** R.R. Wagner
- **Date:** 7/75
- **Surveyed or Identified by:** Inapplicable

### 7. BOUNDARIES AND LIMITS
- **Operation:** Surveyed or Identified by
- **Name:** Inapplicable
- **Date:** Inapplicable

## II. SOURCE DATA

### 1. HORIZONTAL CONTROL IDENTIFIED
- **Photo Number:** Refer to Field Report
- **Station Name:**
- **Station Designation:**
  - 73L2907R
  - 73L2908R
  - 73L2909R
  - 73L2905R
  - 73L2906R
  - 73L2908R

### 2. VERTICAL CONTROL IDENTIFIED
- **Photo Number:**
- **Station Name:**
- **Station Designation:**
  - H 327
  - P 275, N 275, N 275
  - AAD 66 (USE)
  - E 316 (SRD)

### 3. PHOTO NUMBERS (Classification of details)
- 72K6349, 6352, 6353; 72K6430, 6431
- 73L2905R thru 2910R

### 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
- Landmarks and non-floating aids were either located or verified during field edit.

### 5. GEOGRAPHIC NAMES
- **Operation:**
- **Name:**
- **Date:**

### 6. BOUNDARY AND LIMITS
- **Operation:**
- **Name:**
- **Date:**

### 7. SUPPLEMENTAL MAPS AND PLANS

### 8. OTHER FIELD RECORDS
- Sketch Book pages
- Refer to Field Report bound with this Descriptive Report.
## Record of Survey Use

### I. Manuscript Copies

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date Manuscript Forwarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Compiled</td>
<td>Date</td>
</tr>
<tr>
<td>COPY OF CLASS I MANUSCRIPT TO MARINE CHART DIVISION 3/16/76</td>
<td>9/9/76</td>
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</table>

### 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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<tbody>
<tr>
<td></td>
<td></td>
<td>1/27/76</td>
<td>Two (2) digitized forms 76-40 were submitted as final report.</td>
</tr>
</tbody>
</table>

2. Report to Marine Chart Division, Coast Pilot Branch. Date Forwarded: 1/27/76

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>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
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<tbody>
<tr>
<td>TP</td>
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<td>PH</td>
<td>Revised</td>
<td>Final</td>
</tr>
<tr>
<td>Date of Photography</td>
<td>Date of Field Edit</td>
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<table>
<thead>
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<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
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<tbody>
<tr>
<td>TP</td>
<td>(3)</td>
<td>PH</td>
<td>Revised</td>
<td>Final</td>
</tr>
<tr>
<td>Date of Photography</td>
<td>Date of Field Edit</td>
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<td></td>
<td></td>
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<table>
<thead>
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<th>Fourth Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
</tr>
</thead>
<tbody>
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<td>TP</td>
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<td>PH</td>
<td>Revised</td>
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<tr>
<td>Date of Photography</td>
<td>Date of Field Edit</td>
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</tbody>
</table>
SUMMARY
for
TP-00444 thru TP-00454

Coastal Zone Map TP-00446 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-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 HW 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 HW on March 2, 1971 at 1432-1458 when both MIAMI BISCAYNE BAY and CUTLER were in range. The north and
was flown for MLW at 1325-1335 on August 6 when the MIAMI DISCAYNE BAY staff read 2.7 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. MLW 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 August 8 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. MLW The northern two-thirds were flown at 802-815 on August 9 when the OCEAN REEF staff read 4.59 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 1228-1342 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) MLW 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. MLW No photography. MLW Line was flown at 227-945 on August 16 when the RAGGED KEYS staff read 1.6 to 1.75.

Line 30-1. MLW 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 935-942 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 southern 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 OSI cards, recovery notes, profiles and the original field records for IRVING 1971 were forwarded to 03413 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

JOB PH-7119

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

1. PREMARKING OF CONTROL

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

2. AEROTRIANGULATION PHOTOGRAPHY

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

3. TIDE-COOORDINATED 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 MSL, 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 1.20.
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 1000 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 MLW 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 (MLW). 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 (MLW Range), the BARNES SOUND staff read 3.92, the MANATEE CREEK staff read between 3.6 and 3.5, the CARD SOUND staff read 4.0 and the EAST ARSENICKER staff read 3.65. MLW Completed at 0945 on February 20 when the CARD SOUND staff read 3.20 and the EAST Arsenicker staff read 2.77-2.78.

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

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

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

5. FORSHORE PROFILES

Four planerable 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. Jobs 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 mile 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 10, 1973.

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

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

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

- Rubi, 1930–1948 Reset
- Man, 1930
- Angelfish Key RM3, 1853
- Narrow Point, 1854
- Long Sound 1961
- Snipe Pt., 1934, substation
- Knowlson, 1935, substation
- Hull Key, 1852
- Rock Harbor 2, 1961
- Lower Sound Point, 1853 substation
- Sub Station, Key Largo Cable Visions Inc., Taller Mast, 1961
- Largo, 1962
- Low 2, RM2, 1934
- Planter 2, RM4
The following control station positions were transferred from photographs 72L(C)6691R thru 72L(C)698R:

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 sub. 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. Ferrow, Jr.
Chief, Aerotriangulation Section
<table>
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<tr>
<th>Control Stations</th>
<th>Residuals</th>
<th></th>
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<tr>
<td>1. (027100) Turtle 1929</td>
<td>-0.706</td>
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<td>3. (029100) South Jetty, 1938</td>
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<td>4. (034101) Halland, 1928</td>
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<td>5. (567101) Causeway, 1934</td>
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<td>6. (562101) Point View, 1934</td>
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<tr>
<td>7. (207100) Base, 1934</td>
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<td>11. (534101) Naco 1934, subpoint A</td>
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<td>12. (544801) Tie point from strip #5 used as control for strip #6</td>
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<td>(692100)</td>
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<td>32.</td>
<td>(793101)</td>
<td>Planter 2, RM 4</td>
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<td>33.</td>
<td>(695101)</td>
<td>Snake, 1934, subpoint</td>
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** means not used in adjustments
## INFRA-RED CONTACT PRINTS

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JOB PH-7113
AND
JOB PH-7119
HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA
CONTROL STATIONS
USED IN THE
ADJUSTMENTS
JOB PH-7113
AND
JOB PH-7119
HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA
INFRA-RED CONTACT
PRINTS RATIOED FOR
COMPILATION
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**

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 Details**

The photography was adequate for shoreline compilation with the exception of three photographs (72K 6313R thru 6315R) tide coordinated at mean high water that were of poor quality. The shoreline compiled from these photographs was interpreted from a stereoscopic comparison with the color photography.

36. **Offshore Details**

Two offshore islands were compiled near the north limits of the map. These islands were compiled from the black and white tide-coordinated infrared photography. The MHWL and MLWL were compiled and are subject to verification by field edit.

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 and Vertical Accuracy

This 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


47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

11463, 7th edition, 1:40,000 scale, dated August 3, 1974;
11451, 12 edition, 1:40,000 scale, dated September 7, 1974.

No significant differences were noted.

Respectfully submitted,

[Signature]

Stephen A. Solbeck

Approved and Forwarded:

[Signature]

Jeter P. Battley, Jr.

Chief, Coastal Mapping Section
51. METHOD

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

No triangulation stations were recovered.

Six bench marks were identified.

Two tidal bench marks were identified, Ocean Reef gage and a bench mark was identified on 73L2907R. Wednesday Point gage was not in place. Tidal bench mark was identified on 73L2908R. It is in the base of the aid.

Three landmarks are recommended for charting.

All known aids were located or verified and identified.

All field edit data 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. RECOMMENDATION

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 7/15/75

[Signature]

Robert H. Wagner
Chief, Photo Party 60
ADDENDUM 1, PH 7119 TP-00446

Pumpkin Key, Card Sound Tide Gage was installed after field edit. It along with Tidal Bench Mark 3 was identified on photograph 73L2955R.

Submitted 8/20/75

Robert R. Wagner
Chief, Photo Party 60

Got 26 Nov 75 JM
Review Report
TP-00446
July 1976

61. General

The map manuscript for Coastal Zone Map TP-00446 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 plane table beach profiles available at the time of
compilation or review for this map.

62. Cartographic Comparison

Comparison was made with the following USGS quadrangle: Card Sound,

The geographic name Steamboat Creek is misspelled (Streamboat Creek) on
TP-00446. This has been noted on the standard for TP-00446.

Comparison was made with the following Nautical Chart: 11463 (formerly

The areas of MLW shown on 11463 in the vicinity of Angelfish Creek were
not shown on Coastal Zone Map TP-00446. The field editor's notes about
his investigation are annotated on the Chart Maintenance Print.
63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00446 complies with the instructions for NOS Cooperative Boundary Mapping, Job PH-7000, and the National Standards of Map Accuracy.

Submitted by:

[Signature]

Donald M. Brant

Approved and Forwarded:

[Signature]

Chief, Photogrammetric Branch

[Signature]

Chief, Coastal Mapping Division
GEOGRAPHIC NAMES

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

TP-00446

Angelfish Key
Atlantic Ocean
Barnes Sound
Card Sound
Crocodile Lake
Dynamite Docks
Grayvik

Hawk Channel

High Mangrove Point
Jew Point
John Pennekamp Coral Reef State Park
Key Largo
Little Angelfish Creek
Little Dispatch Creek
Little Pumpkin Creek
Pumpkin Creek
Pumpkin Key

Approved by:

Chas. E. Harrington
Staff Geographer-C51x2
<table>
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<th>LIGHT</th>
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**Type of Action**

**Names of Responsible Personnel**

**Originator**

**Positions Determined**

**And/or Verified by**

**Field Representative**

**Field and Office Activities**

**Data Processor**

**Field Representative**

**Office Compiler**

**Field and Office Activities**

**Data Processor**
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Elevation furnished by Homestead Air Force Base

1 Discrepancy print (paper)

1 Field edit sheet (stable base)

5 Pages sextant fixes

1 Form 76-36C (History of field operations)

2 Forms 76-40

PHOTOGRAPHY:

73-L-2905R thru 2910R

73-L-2955R and 2957R

72-X-6349 and 6352