

TP-00473

TP-00473

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-7120..... Map No. TP-00473.....  
Classification No. Final Edition No. ...1.....

### LOCALITY

State .... Florida.....  
General Locality .... Monroe County.....  
Locality ... Bahia Honda Key to Spanish  
Harbor.....

19 74 TO 19 76

### REGISTRY IN ARCHIVES

DATE .....

|                                                                                                                                                                                                                                                                                    |  |                                                                         |  |                                                                                                                        |  |                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|
| NOAA FORM 76-36A<br>(3-72)                                                                                                                                                                                                                                                         |  | U. S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. |  | TYPE OF SURVEY                                                                                                         |  | SURVEY TP. 00473    |  |
| DESCRIPTIVE REPORT - DATA RECORD                                                                                                                                                                                                                                                   |  |                                                                         |  | <input checked="" type="checkbox"/> ORIGINAL                                                                           |  | MAP EDITION NO. (1) |  |
|                                                                                                                                                                                                                                                                                    |  |                                                                         |  | <input type="checkbox"/> RESURVEY                                                                                      |  | MAP CLASS Final     |  |
|                                                                                                                                                                                                                                                                                    |  |                                                                         |  | <input type="checkbox"/> REVISED                                                                                       |  | JOB PH. 7120        |  |
| PHOTOGRAMMETRIC OFFICE                                                                                                                                                                                                                                                             |  |                                                                         |  | LAST PRECEDING MAP EDITION                                                                                             |  |                     |  |
| Rockville, Maryland                                                                                                                                                                                                                                                                |  |                                                                         |  | TYPE OF SURVEY                                                                                                         |  | JOB PH. _____       |  |
| OFFICER-IN-CHARGE                                                                                                                                                                                                                                                                  |  |                                                                         |  | <input type="checkbox"/> ORIGINAL                                                                                      |  | MAP CLASS _____     |  |
| Cdr. James Collins                                                                                                                                                                                                                                                                 |  |                                                                         |  | <input type="checkbox"/> RESURVEY                                                                                      |  | SURVEY DATES:       |  |
|                                                                                                                                                                                                                                                                                    |  |                                                                         |  | <input type="checkbox"/> REVISED                                                                                       |  | 19__ TO 19__        |  |
| I. INSTRUCTIONS DATED                                                                                                                                                                                                                                                              |  |                                                                         |  |                                                                                                                        |  |                     |  |
| 1. OFFICE                                                                                                                                                                                                                                                                          |  |                                                                         |  | 2. FIELD                                                                                                               |  |                     |  |
| General Instructions-OFFICE-NOS-Cooperative Coastal Boundary Mapping, Job PH-7000, December 9, 1975<br>Supplement I, November 4, 1974<br>Supplement III, October 24, 1974<br>NOTE: Office and field edit instructions (1975) incorporate applicable prior operational instructions |  |                                                                         |  | Instructions-FIELD-July 6, 1972<br><br>Field Edit (PH-7000 General Instructions 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<br><input checked="" type="checkbox"/> MEAN LOW-WATER<br><input type="checkbox"/> MEAN LOWER LOW-WATER<br><input type="checkbox"/> MEAN SEA LEVEL                                                                 |  |                                                                         |  | OTHER (Specify)                                                                                                        |  |                     |  |
| 3. MAP PROJECTION                                                                                                                                                                                                                                                                  |  |                                                                         |  | 4. GRID(S)                                                                                                             |  |                     |  |
| Transverse Mercator                                                                                                                                                                                                                                                                |  |                                                                         |  | STATE Florida                                                                                                          |  | ZONE East           |  |
| 5. SCALE 1:10,000                                                                                                                                                                                                                                                                  |  |                                                                         |  | STATE                                                                                                                  |  | ZONE                |  |
| III. HISTORY OF OFFICE OPERATIONS                                                                                                                                                                                                                                                  |  |                                                                         |  |                                                                                                                        |  |                     |  |
| OPERATIONS                                                                                                                                                                                                                                                                         |  |                                                                         |  | NAME                                                                                                                   |  | DATE                |  |
| 1. AEROTRIANGULATION BY                                                                                                                                                                                                                                                            |  |                                                                         |  | R. Kelley                                                                                                              |  | Oct 1975            |  |
| METHOD: Analytic LANDMARKS AND AIDS BY                                                                                                                                                                                                                                             |  |                                                                         |  | Inapplicable                                                                                                           |  |                     |  |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY                                                                                                                                                                                                                                            |  |                                                                         |  | Calcomp                                                                                                                |  |                     |  |
| METHOD: CHECKED BY                                                                                                                                                                                                                                                                 |  |                                                                         |  | Inapplicable                                                                                                           |  |                     |  |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY                                                                                                                                                                                                                                           |  |                                                                         |  | Inapplicable                                                                                                           |  |                     |  |
| COMPILATION CHECKED BY                                                                                                                                                                                                                                                             |  |                                                                         |  |                                                                                                                        |  |                     |  |
| INSTRUMENT: CONTOURS BY                                                                                                                                                                                                                                                            |  |                                                                         |  | Inapplicable                                                                                                           |  |                     |  |
| SCALE: CHECKED BY                                                                                                                                                                                                                                                                  |  |                                                                         |  |                                                                                                                        |  |                     |  |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY                                                                                                                                                                                                                                            |  |                                                                         |  | R. Rich                                                                                                                |  | Apr 1976            |  |
| METHOD: Graphic CHECKED BY                                                                                                                                                                                                                                                         |  |                                                                         |  | J. Battley, Jr.                                                                                                        |  | May 1976            |  |
| SCALE: 1:10,000 CONTOURS BY                                                                                                                                                                                                                                                        |  |                                                                         |  | Inapplicable                                                                                                           |  |                     |  |
| HYDRO SUPPORT DATA BY                                                                                                                                                                                                                                                              |  |                                                                         |  | Inapplicable                                                                                                           |  |                     |  |
| CHECKED BY                                                                                                                                                                                                                                                                         |  |                                                                         |  |                                                                                                                        |  |                     |  |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY                                                                                                                                                                                                                                        |  |                                                                         |  | J. Battley, Jr.                                                                                                        |  | May 1976            |  |
| 6. APPLICATION OF FIELD EDIT DATA BY                                                                                                                                                                                                                                               |  |                                                                         |  | J. Keating                                                                                                             |  | July 1976           |  |
| CHECKED BY                                                                                                                                                                                                                                                                         |  |                                                                         |  | J. Schad                                                                                                               |  | Oct 1976            |  |
| 7. COMPILATION SECTION REVIEW BY                                                                                                                                                                                                                                                   |  |                                                                         |  | C. Lewis                                                                                                               |  | Feb 1977            |  |
| 8. FINAL REVIEW BY                                                                                                                                                                                                                                                                 |  |                                                                         |  | D. Brant                                                                                                               |  | June 1977           |  |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY                                                                                                                                                                                                                                     |  |                                                                         |  |                                                                                                                        |  |                     |  |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY                                                                                                                                                                                                                                     |  |                                                                         |  | D. Brant                                                                                                               |  | Apr. 1978           |  |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY                                                                                                                                                                                                                                     |  |                                                                         |  | R. Carter                                                                                                              |  | MAY 1978            |  |

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

|                                                                                                                                                                                           |          |                                                                 |          |                                                                                                      |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------|----------------------------------------------|
| CAMERA(S)<br>Wild RC10 "C" 3.5" focal length                                                                                                                                              |          | TYPES OF PHOTOGRAPHY<br>LEGEND                                  |          | TIME REFERENCE                                                                                       |                                              |
| TIDE STAGE REFERENCE<br><input type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |          | (C) <u>COLOR</u><br>(P) PANCHROMATIC<br>(I) <u>INFRARED</u> B&C |          | ZONE<br>Eastern                                                                                      | <input checked="" type="checkbox"/> STANDARD |
|                                                                                                                                                                                           |          |                                                                 |          | MERIDIAN<br>75th & 60th                                                                              | <input type="checkbox"/> DAYLIGHT            |
| NUMBER AND TYPE                                                                                                                                                                           | DATE     | TIME                                                            | SCALE    | STAGE OF TIDE                                                                                        |                                              |
| 74C 8374, 76, 78, 80                                                                                                                                                                      | 3/16/74  | 1455                                                            | 1:30,000 | The stage of tide is inapplicable for the color photography. Refer to 76-36B(1) for tide information |                                              |
| 74CR2348-50                                                                                                                                                                               | 11/12/74 | 1054                                                            | 1:30,000 |                                                                                                      |                                              |
| 74CR2631-33                                                                                                                                                                               | 11/22/74 | 1024                                                            | 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 cultural features and compiling the limits of vegetation, shoal, and shallow areas.

Where the MHW line was obscured by vegetation, such as mangrove, the apparent shoreline was delineated.

## 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-00467 | TP-00468 | No survey | TP-00472 |

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 - 00473**

| LOCATION AND PHOTOGRAPHY  | TIDE STATIONS<br><i>(In operation at time of photography)</i> | STAGE OF TIDE | MEAN RANGE         |
|---------------------------|---------------------------------------------------------------|---------------|--------------------|
| <u>STRAITS OF FLORIDA</u> |                                                               |               | At tide<br>Station |
| 74CR 2348-50              | LITTLE DUCK KEY                                               | +0.23 MHW     | 0.90'              |
| 74CR 2631-33              | LITTLE DUCK KEY                                               | +0.09 MLW     | 0.90'              |



NOAA FORM 76-36C  
(3-72)

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

HISTORY OF FIELD OPERATIONS

TP-00473

I. ☒ FIELD INSPECTION OPERATION June 1972 ☒ FIELD EDIT OPERATION June 1976

| OPERATION               | NAME                           | DATE         |
|-------------------------|--------------------------------|--------------|
| 1. CHIEF OF FIELD PARTY | R.R. Wagner                    |              |
|                         | R.R. Wagner                    | 6/76         |
| 2. HORIZONTAL CONTROL   | RECOVERED BY<br>ESTABLISHED BY | Inapplicable |

[REDACTED]

## RECORD OF SURVEY USE

TP-00473

## I. MANUSCRIPT COPIES

| COMPILATION STAGES   |         |                                          | DATE MANUSCRIPT FORWARDED |               |
|----------------------|---------|------------------------------------------|---------------------------|---------------|
| DATA COMPILED        | DATE    | REMARKS                                  | MARINE CHARTS             | HYDRO SUPPORT |
| Office - Class III   | 5/4/76  | Special request from Requirements Branch |                           |               |
| Field Edit - Class I | 7/22/76 |                                          | 11/8/76                   |               |
|                      |         |                                          |                           |               |
|                      |         |                                          |                           |               |

## II. LANDMARKS AND AIDS TO NAVIGATION

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

| NUMBER | CHART LETTER<br>NUMBER ASSIGNED | DATE<br>FORWARDED | REMARKS                                    |
|--------|---------------------------------|-------------------|--------------------------------------------|
|        |                                 | 3/14/77           | One (1) digitized Form 76-40 was submitted |
|        |                                 |                   | for final report                           |
|        |                                 |                   |                                            |
|        |                                 |                   |                                            |
|        |                                 |                   |                                            |
|        |                                 |                   |                                            |

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3/14/773. ☐ 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<br>EDITION | SURVEY NUMBER<br>TP - _____ (2) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><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<br>EDITION  | SURVEY NUMBER<br>TP - _____ (3) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><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<br>EDITION | SURVEY NUMBER<br>TP - _____ (4) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><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       |                                                                                                                                                                                                                                                             |

2x4 Mc

IP 00  
MAVERNA  
10

24° 58' 15"

24° 55' 45"

IP 00455

24° 53' 15"

24° 52' 30"

24° 50' 30"

DEF

OF MEXICO

2000 MSL

ge for Cost accounts

No.

Sq. M1.

56  
57  
58  
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64  
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70  
72  
73

2262212412535083

Total

82

SUMMARY

For .

TP-00456 thru TP-00458

TP-00460 thru TP-00464

TP-00466 thru TP-00473

Coastal Zone Map TP-00473 is one of fifteen (15) 1:10,000 scale (shoreline type) maps in Job PH-7120. These maps will not be published. Interior detail is limited to a narrow zone of planimetry usually back from the shoreline to and including the first road.

The layout for Job PH-7120 (revised since the aerotriangulation operation) will show the location of the individual maps. A copy of the layout is included in this Descriptive Report.

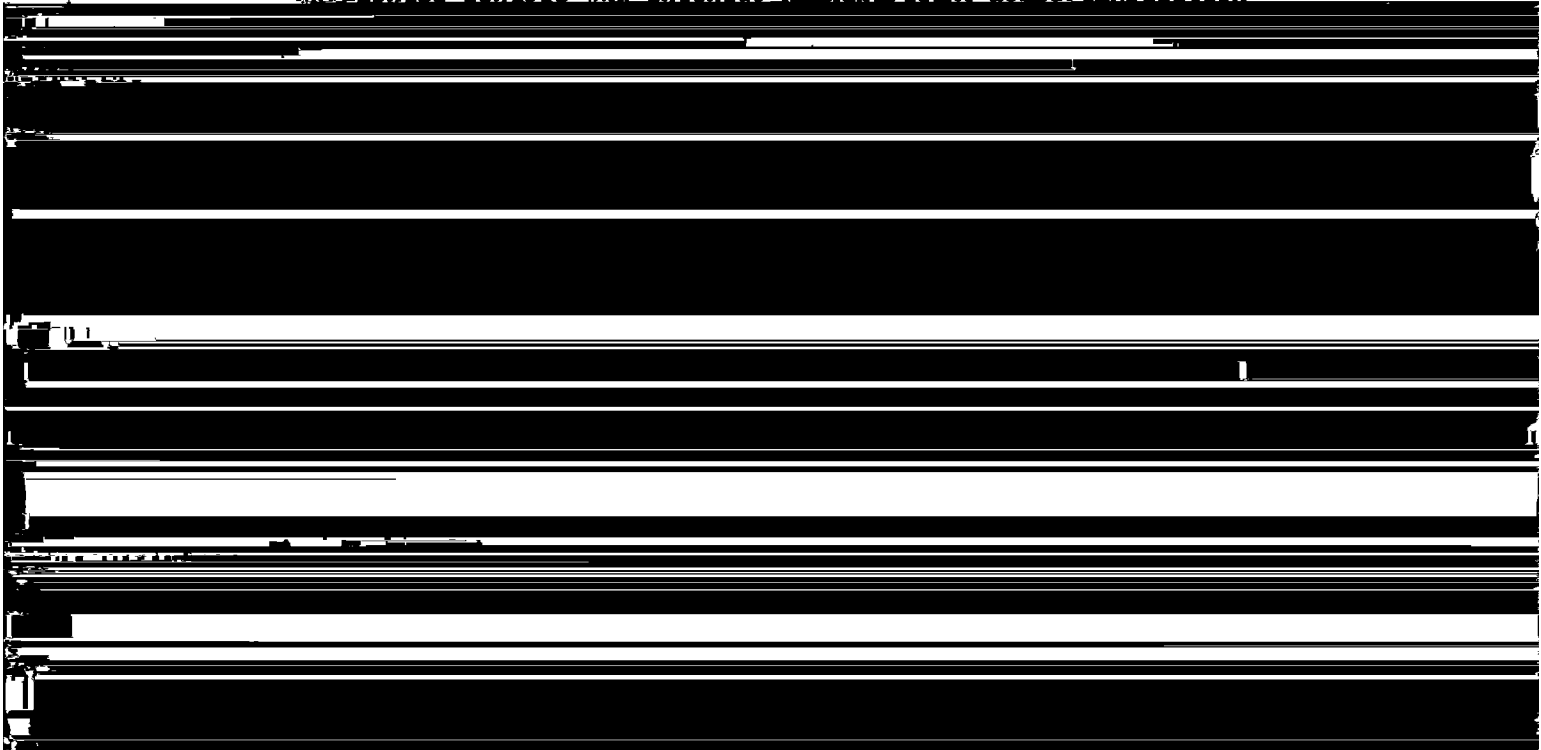
These maps are intended for planning purposes for the state of Florida and for the construction and maintenance of NOS nautical charts.

The aera (Job PH-7120) is covered by photography taken in 1972 and 1974 on color,color infrared, and black-and-white infrared film. The black-and-white infrared film was tide-coordinated at MHW and MLW datums.

The field operations consisted of the following:

1. Premarking of horizontal control and photographing the area.
2. Establishing tidal datums
3. Field edit

Horizontal control was extended by analytical aerotriangulation



α

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

A registration copy for each map was prepared. The registration copy shows additional offshore details such as shoal and shallow areas 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

Three (3) eight-time (210mm) reduction negatives will be made for each registered map and they will be filed in the following locations:

1. One (1) with Reproduction Division
2. Two (2) with the Photo Map and Imagery Information Section

9

FIELD REPORT  
JOB PH-7120

This report is on work done in accordance with Instructions - FIELD - Job PH-7120; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Plantation Key to Big Pine Key, Florida, dated 7/6/72. Work began on June 19, 1972 and ended August 15, 1972.

All modifications to the instructions were approved by Mr. Ron Brewer. Instructions to Air Photo Mission 2 changed the tolerance on MHW from 0.3 foot to 0.1 foot. Verbal instructions from Mr. Brewer cancelled flight lines 30-6, 30-7, and 30-8 and corresponding premark work because tidal information was not available.

1. PREMARKING OF CONTROL

18 stations were paneled in accordance with the job diagram. A second order traverse with tellurimeters establishing 12 stations was run to supplement the existing control. A position was established on Pigeon Key and successfully used to recover MOSER 1935.

2. AEROTRIANGULATION PHOTOGRAPHY

This photography was completed. In addition, individual photographs of each paneled station were taken at a low altitude. Panels were completely removed after notified by the Chief, Mission 2 that the film was successfully developed.

3. TIDE COORDINATED PHOTOGRAPHY

Locations of the tide staffs are shown on the job diagram accompanying this report. Photography was taken on July 28 and 30 and August 8, 11, 12, and 13. Recordings entered in the tide volumes, Form 277, were at 5 minute intervals during photography and at 15 minute intervals near photography. Tolerances of  $\pm 0.10$  foot for MHW and MLW and  $\pm 0.20$  foot for MLD were observed. Wet staff readings - crest, mean, and trough - were recorded while photography was in progress. Eastern Standard Time was used. Time checks were made with WWV, Fort Collins, Colorado.

Line 20-1 Atlantic Side MHW Flown at 1211-1225 on 28 July when the DUCK KEY staff read 3.50-3.35. Was reflown at 1225-1235 the same day. MLW Flown at 1605-1615 on 8 August and reflown at 1619-1632 the same day when the staff read 2.01-2.14.

Line 20-1 Florida Bay Side. Line was divided into 3 parts. South 1/3 controlled by the VACA KEY, NORTH SIDE staff, the mid 1/3 by the GRASSY KEY, NORTH SIDE staff, and the north 1/3 by the LOWER MATECUMBE KEY, FLA. BAY and GRASSY KEY, NORTH SIDE staffs. South 1/3 MLW Flown at 857-903 on 30 July when the VACA KEY staff read 2.95-3.00. South 1/3 MHW Flown at 1245-1250 on 28 July when the VACA KEY staff read 3.55. Reflown the same day at 1335-1345 when the staff read 3.75-3.80.

Mid 1/3 MHW Flown at 1335-1345 and reflowed at 1350-1500 on 28 July when the staff at GRASSY KEY read 3.50-3.70. Mid 1/3 MLW South 1/2 of this line flown at 915-920 on 30 July when the GRASSY KEY staff read 2.80. North 1/2 was flown on 12 August at 937-944 when the staff read 2.65. North 1/3 MHW Flown at 1335-1345 on 28 July when the GRASSY KEY staff read 3.50-3.56. Flown at 1250-1300 on 28 July when the LOWER MATECUMBE KEY, FLA. BAY staff read 3.29 - 3.27. North 1/3 MLW Flown at 937-944 on 12 August when the GRASSY KEY staff read 2.65. Flown at 1516-1521 on 11 August when the LOWER MATECUMBE KEY, FLA BAY staff read 2.45-2.41.

Line 15-1 Atlantic Side MHW Flown at 1327-1333 on 30 July when the LOWER MATECUMBE KEY, HAWK CHANNEL staff read 3.90-3.86. MLW Flown at 1548-1555 on 8 August when the staff read 2.08-2.10. Florida Bay side MHW Flown on 30 July at 1030-1040 and reflowed the same day AT 1040-1100 when the LOWER MATECUMBE KEY FLA. BAY staff read 3.22-3.29. The south end of this line was also flown at 1315-1322 on 28 July when the staff read 3.18-3.12. MLW Flown on 11 August at 1504-1510 when the staff read 2.49-2.47

Line 30-1 Atlantic Side MHW Flown on 12 August at 959-1005 when Tavernier Hawk Channel staff read 4.29-4.30 and again at 1034-1036 when the staff read ~~XXXXXX~~ 4.40-4.43. MLW Flown on 8 August at 1534-1540 when the staff read 2.25-2.38. Florida Bay Side The northern 2/3 of this line was controlled by TAVERNIER, FLA. BAY MWL It was flown on 12 August at 1637-1641 when the staff read 2.68. The south end of the line was lengthened about 2 miles. MHW Flown at 1355-1401 on 13 August when the UPPER MATECUMBE KEY, FLA. BAY staff read 2.58 and on 30 July at 1305-1318 when the staff read 2.76-2.77. MLW Flown on 8 August at 1534-1540 when the staff read 2.34-2.32.

Line over the ISLAMORADA, WHALE CHANNEL tide staff. A 4 mile line centered on the staff was flown for MHW AND MLW at 1:20,000 scale. MHW Flown on 12 August at 1019-1022 when the staff read 3.40-3.43. MLW Flown at 1636-1640 on 11 August when the staff read 2.17-2.15.

Line 30-4. MHW Flown at 1045-1047 on 12 August when the LOWER MATECUMBE KEY, FLA. BAY staff read 3.15-3.17. Reflowed on 13 August at 1120-1122 when the staff read ~~XXXX~~ 3.10. MLW Flown on 11 August at 1534-1537 when the staff read 2.40 and reflowed 1545-1548 the same day when the staff read 2.39-2.37.

Line 30-3 MWL Flown on 11 August at 1602-1606 when the staff at TAVERNIER, FLA. BAY read 2.67. Reflowed on 12 August at 1621-1624 when the staff read 2.68.

Line 30-2. North half controlled by TAVERNIER, FLA. BAY MWL. Flown on 11 August at 1556-1601 when staff read 2.68-2.67. Reflowed on 12 August at 1627-1630 when the staff read 2.68. MHW Southern end. Flown at 1407-1410 on 13 August when the UPPER MATECUMBE KEY, FLA. BAY staff read 2.58. Tide at this location had not reached the 0.1 foot tolerance on high water for several days. MLW Flown at 1556-

August at 1029-1101 when the staff read 2.33-2.32.  
 1901 on 11 August when the staff read 2.37-2.36. Reflow on 12

#### 4. FOREWATER PROFILES

Each area was inspected from the ground, by boat and airplane. It was decided that profiles were not needed and none were taken.

#### 5. BRIDGE ESTIMATES

The estimates of two long bridges in the project area were obtained and are included in the field data.

#### 6. FIELD RECORDS

All field records and computations were forwarded to CG#13 on 2 October 1972.

*John C. Vesselenak*  
 John C. Vesselenak  
 Chief, Photo Party 62

PHOTOGRAMMETRIC PLOT REPORT  
Boot Key to Key West, Florida  
Job PH-7201 & 7120  
October 1975

21. Area Covered

This report covers twenty-five 1:10,000 sheets, TP-00474 thru TP-00489, TP-00460 thru TP-00462, TP-00466, TP-00467, TP-00468, TP-00472, and TP-00473, from Boot Key to Key West, Florida.

22. Method

Three strips of 1:60,000 photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Florida State Plane Coordinate System, East Zone. The three strips were also adjusted as a block. The attached four sketches shows the placement of horizontal control, closures to control used in the block adjustment, mean high and mean low water photography, and photography to be used for compilation. Bridge points were drilled on the 1:30,000 scale color photography and measured on 1:60,000 color bridging photography to control the setting of models on the B-8 for compilation. Bridge points were also pricked on the infrared photography and measured on the 1:60,000 color bridging photography for ratioing photographs to be used in the compilation of the mean high and mean low water line.

23. Adequacy of Control

The horizontal control provided was adequate except for DUCK 2, 1937 Substitute Station and DUCK 2, 1937 ARRAY (panel). These two stations held the same in the block adjustments as they did in the strip adjustment with 15 feet error in the Y direction. There was no apparent reason for the error. All other control held within the accuracy required by National Standards of Maps. Accuracy at 1:10,000.

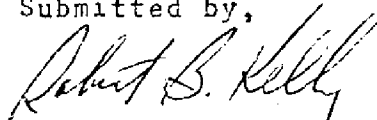
24. Supplemental Data

Local shoreline was used to provide elevations for vertical adjustments of the bridges.

25. Photography

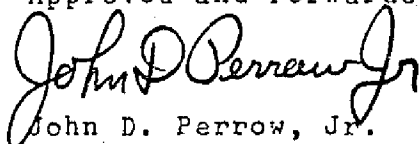
RC-8 color film positives were adequate as to coverage, overlap, and definition.

Submitted by,



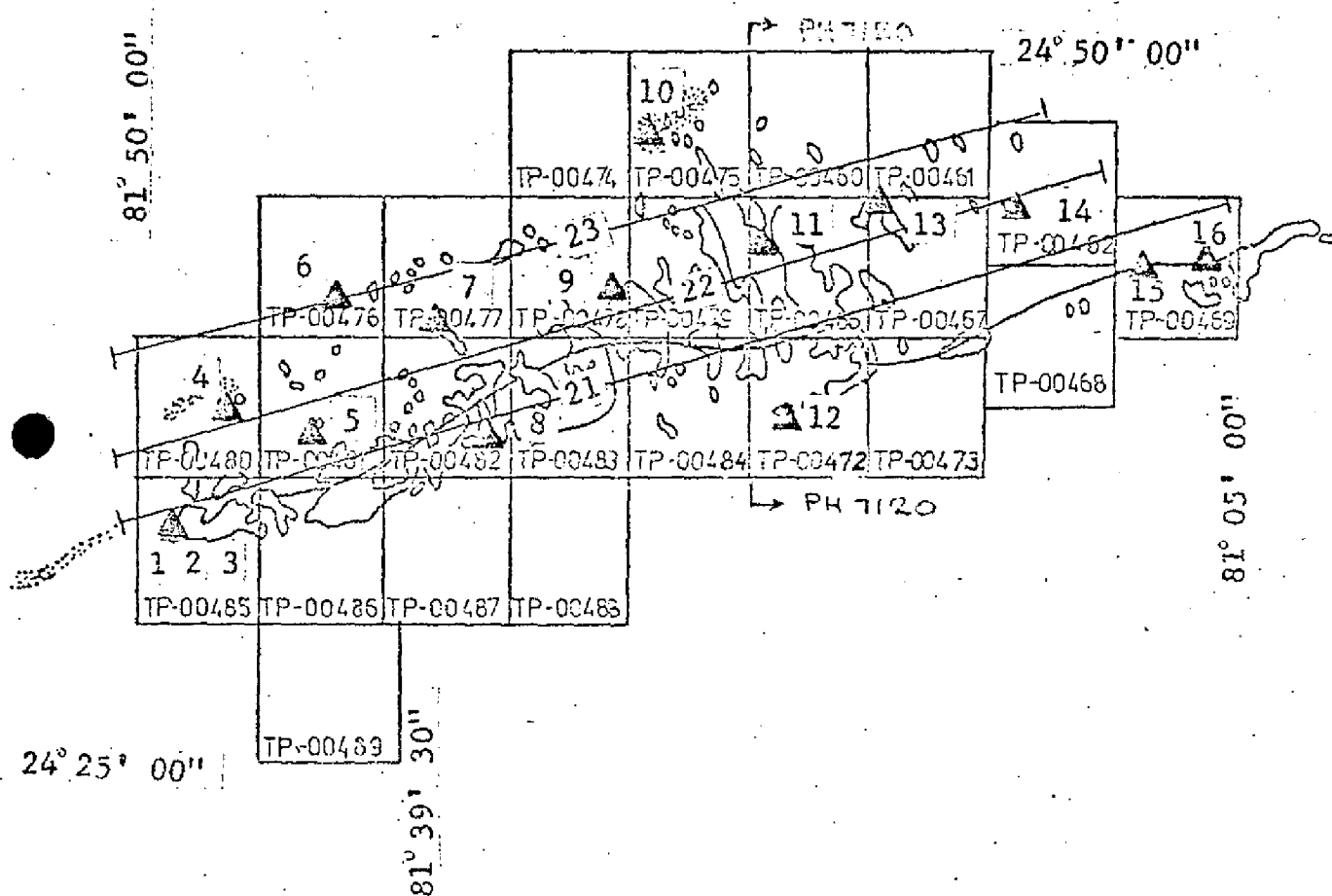
Robert B. Kelly

Approved and Forwarded:



John D. Perrow, Jr.  
Chief, Aerotriangulation Section

JOB CM-7201  
 BOOT KEY TO KEY WEST  
 FLORIDA  
 SHORELINE MAPPING  
 BRIDGING PHOTOGRAPHY



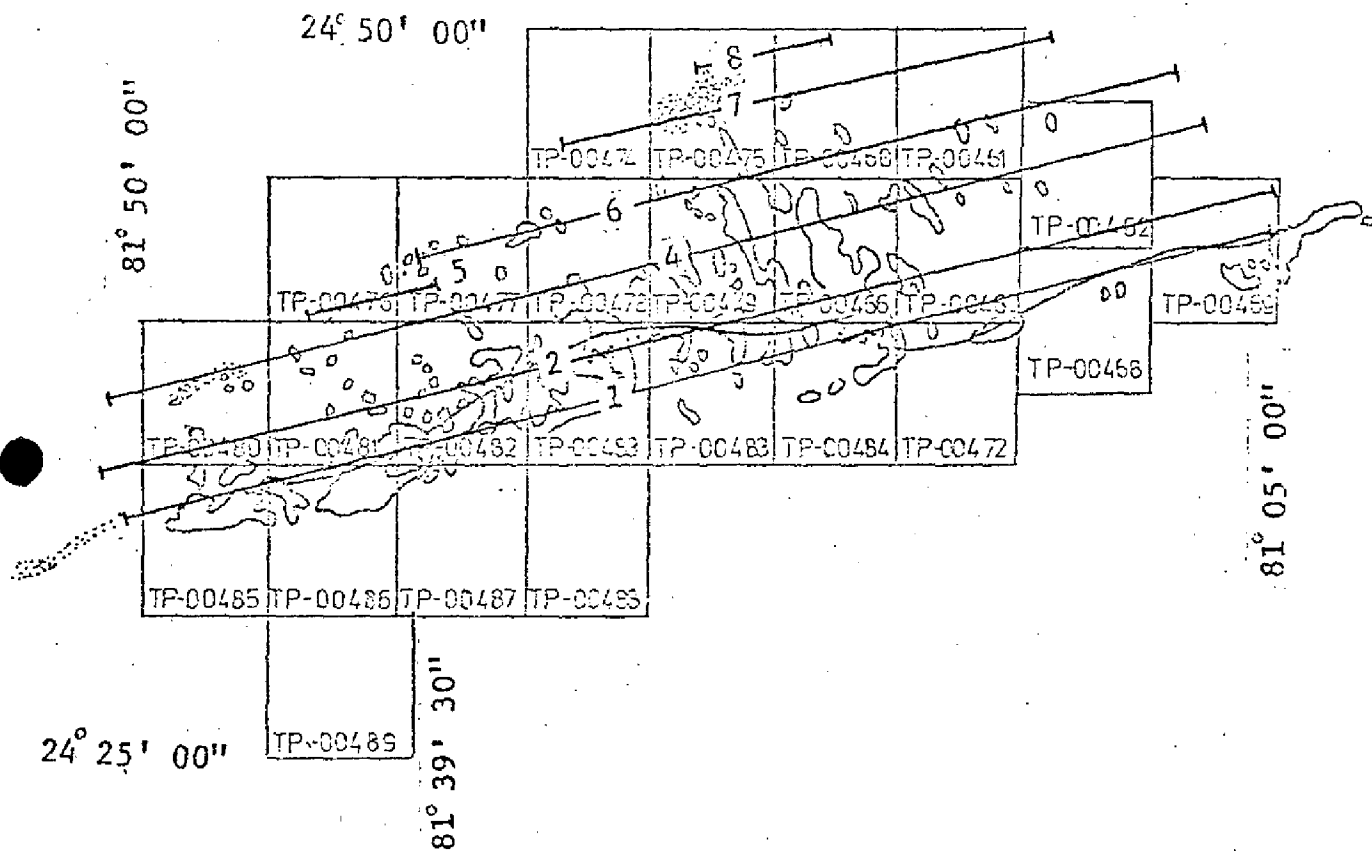
INDEX TO STRIPS OF PHOTOGRAPHS

|    |        |           |            |         |
|----|--------|-----------|------------|---------|
| 21 | 74C(c) | 8113-8141 | Renumbered | 101-114 |
| 22 | "      | 8032-8103 | "          | 201-214 |
| 23 | "      | 8147-8171 | "          | 301-313 |

## CLOSURES TO CONTROL (BLACK ADJUSTMENT)

|    |                                   |                  |
|----|-----------------------------------|------------------|
| 1  | Key West Naval Monument           | ( 3.314, -1.519) |
| 2  | Key West Naval Station Tank, 1956 | ( 0.003, 0.000)  |
| 3  | Key West Lighthouse, 1849         | (-2.592, -0.574) |
| 4  | Bay Key, 1934 Sub. Sta. 1         | ( 1.309, -0.804) |
| 5  | Channel Key 2, 1934               | (-1.066, 0.413)  |
| 6  | Mud Key 2, 1934                   | (-1.631, -0.194) |
| 7  | Pek, 1934                         | (-0.056, 0.039)  |
| 8  | Bunch, 1934                       | (-1.207, 1.886)  |
| 9  | Cud, 1934                         | (-0.125, -0.134) |
| 10 | Content 2, 1935                   | ( 0.046, 0.286)  |
| 11 | Pinkey, 1935                      | ( 0.180, 0.617)  |
| 12 | Newfound, 1920                    | ( 0.020, -0.384) |
| 13 | Span, 1935                        | ( 0.046, -0.016) |
| 14 | Trade, 1935 Sub. Sta. 1           | (-0.043, -0.001) |
| 15 | Moser, 1935 Sub. Sta. 1           | (-0.210, 0.256)  |
| 16 | Knight 2, 1936                    | (-0.499, -0.718) |

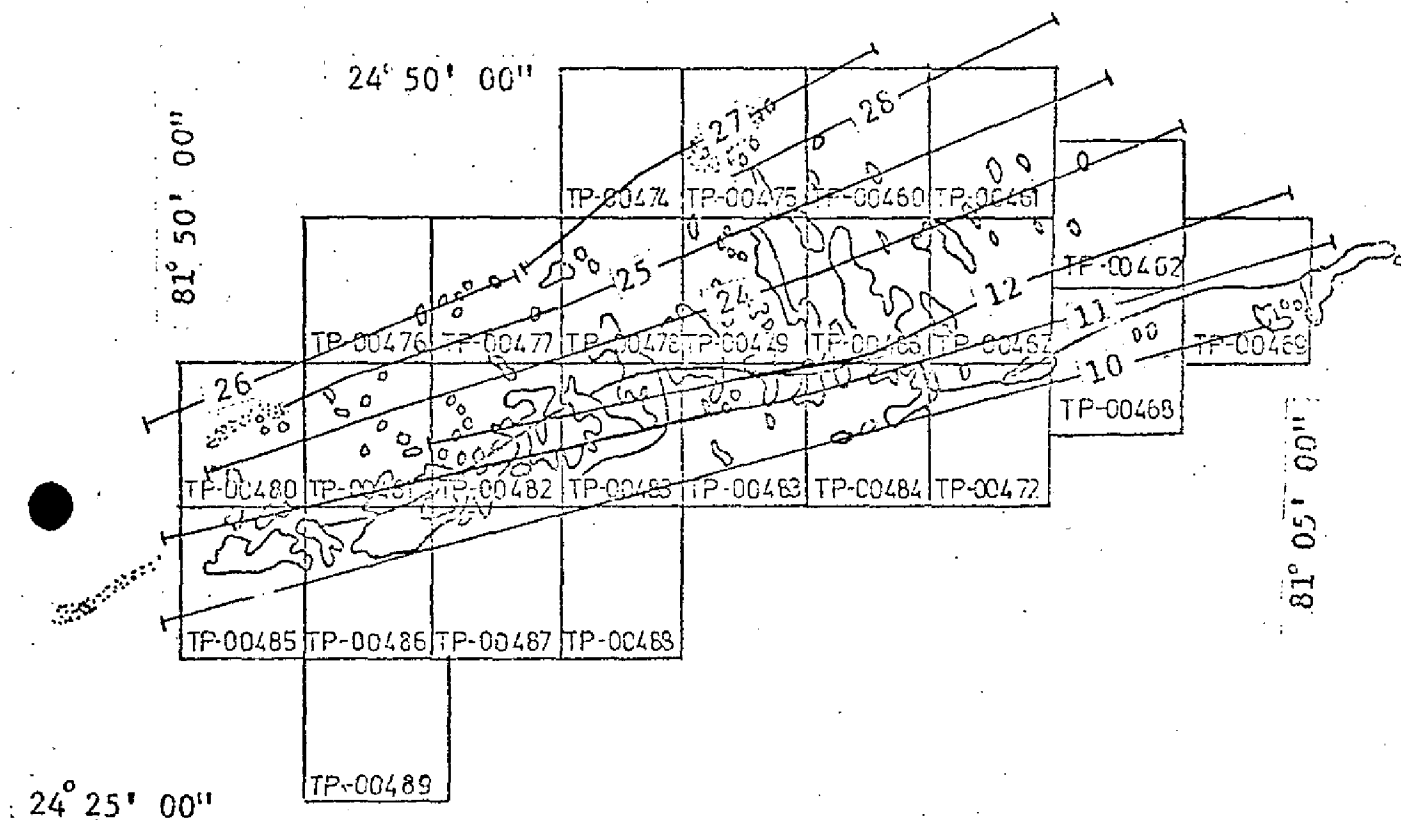
JOSCM-7201  
 BOOTH KEY TO KEY WEST  
 FLORIDA  
 SHORELINE MAPPING  
 COMPILATION PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

|   |        |           |
|---|--------|-----------|
| 1 | 74C(c) | 8362-8418 |
| 2 | "      | 8419-8475 |
| 4 | "      | 8274-8328 |
| 5 | "      | 8228-8232 |
| 6 | "      | 7408-7446 |
| 7 | "      | 7518-7544 |
| 8 | "      | 7484-7491 |

JOB CM-7201  
 ROOT KEY TO KEY WEST  
 FLORIDA  
 SHORELINE MAPPING  
 NEAR LOW WATER PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

|    |     |             |
|----|-----|-------------|
| 10 | 74C | 2624R-2653R |
| 11 | "   | 2655R-2685R |
| 12 | "   | 2744R-2767R |
| 24 | "   | 2769R-2795R |
| 25 | "   | 2846R-2868R |
| 26 | "   | 2823R-2833R |
| 27 | "   | 2566R-2576R |
| 28 | "   | 2524R-2532R |

JOB CM-7201

BOAT KEY TO KEY WEST

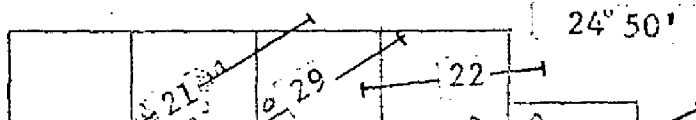
FLORIDA

## ONLINE MAPPING

MEAN HIGH WATER PHOTOGRAPHY

81° 50' 00"

24° 50' 00"



Compilation Report  
TP-00473  
April 1976

31. Delineation

All features were delineated by graphic compilation. The 1974 rectified prints of the color photography were controlled by map points determined by aerotriangulation and were used for compiling shoal and shallow areas, interior features, and cultural shoreline.

The tidal datum lines were compiled from office interpretation of the ratioed tide-coordinated 1974 black-and-white infrared photography which was controlled by common detail compiled from the rectified prints of the color photography and points located during bridging.

32. Horizontal Control

Horizontal control was adequate (see Photogrammetric Plot Report).

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Ponds were compiled from rectified black-and-white prints of the color photography.

35. Shoreline and Alongshore Detail

Office interpretation of the photography was adequate for detailing the tidal datum lines.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids to Navigation

All charted landmarks and aids are listed on working forms 76-40. They will be verified or located by field edit.

38. Control for Future Surveys - None

39. Junctions

Refer to form 76-36B.

40. Horizontal Accuracy

This map complies with the National Map Accuracy Standards and with the accuracy requirements for the Florida Coastal Mapping Program as outlined by Project Instructions for PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS Quads:

Big Pine Key, FL, 1972, 1:24,000 scale

No significant differences were noted.

47. Comparison with Nautical Charts

11445(853) June 28, 1975, 14th edition, 1:40,000 scale.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by

*R. Rich*

R.D. Rich

Approved:

*Jeter P. Battley Jr.*

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

FIELD EDIT REPORT, MAP TP-00473, JOB PH 712051. METHODS

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

There are no recoverable triangulation stations on this manuscript.

Two vertical control stations were recovered and identified.

One U.S. Government radio tower is recommended as a landmark.

There are no aids on this manuscript.

Two tide stations are on this manuscript.

| <u>Station</u>         | <u>Bench Mark</u> | <u>Photograph</u> |
|------------------------|-------------------|-------------------|
| Spansih Harbor Viaduct |                   |                   |
| ✓ Big Pine Key         | F 70 RESET        | 74C8378           |
| ✓ Bahia Honda Key      | D 70 RESET        | 74C8376           |

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. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 6/9/76

  
Robert R. Wagner  
Chief, Photo Party 66

## REVIEW REPORT

TP-00473

May 1978

61. General

The map manuscript for Coastal Zone Map TP-00473 was inspected before field edit and reviewed as a Class I manuscript by the Quality Control Group. This 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 for distribution to the state of Florida. 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

62. Cartographic Comparison

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

Big Pine Key, Fla. 1972

No significant changes were found.

Comparison was made with nautical chart 11445 (formerly C&GS 853) 16th Edition, dated July 16, 1977.

Significant field notes are carried forward on the chart maintenance print.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00473 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by,

*Donald M. Brant*  
Donald M. Brant

Approved and Forwarded:

*John D. Perraw Jr.*  
Chief, Photogrammetric Branch  
*FM*  
Chief, Coastal Mapping Division

30 Jan. 1976

GEOGRAPHIC NAMES

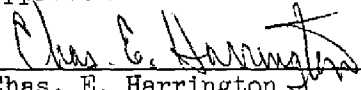
FINAL NAME SHEET

PH-7120 (Florida Keys)

TP-473

- ✓ Bahia Honda Channel — C.H. 5-5-76
- ✓ Bahia Honda Key
- ✓ Bahia Honda State Park
- ✓ Big Mangrove Key
- ✓ Big Pine Key
- ✓ Don Quixote Key
- ✓ Southeast Point
- ✓ Spanish Harbor
- ✓ Spanish Harbor Channel
- ✓ Spanish Harbor Keys
- ✓ Straits of Florida
- ✓ West Summerland Key

Approved

  
Chas. E. Harrington  
Staff Geographer - C51x2

76-40  
LISTING  
PHOTOGRAMMETRIC BRANCH  
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA  
DEPARTMENT OF COMMERCE USA

TERMINAL  
VERSION  
[REDACTED] 120/76

|     |          |   |                      |            |                    |                       |
|-----|----------|---|----------------------|------------|--------------------|-----------------------|
| SVY | TP-00473 | * | LANDMARKS FOR CHARTS | * RPT UNIT | CMD ROCKVILLE, MD. | * PAGE 1 OF 1         |
| JOB | PH-7120  | * |                      | * STATE    | FLORIDA            |                       |
| PRJ | R        | * | TO BE DELETED        | * LOCALITY | BIG PINE KEY       | *ORIGINATING ACTIVITY |
| DTM | NA-1927  | * |                      | * DATE     | 04/06/77           | * COMPILATION         |

THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| * CHARTING* | DESCRIPTION                    | * RECORD REASON FOR DELETION | * POSITION  | * CODES* | METHOD AND DATE | * CHARTS   |
|-------------|--------------------------------|------------------------------|-------------|----------|-----------------|------------|
| NAME        | PUT TRIANGULATION NAMES IN ( ) |                              | * LATITUDE  | C-C      | OF LOCATION     | * CHARTS   |
|             |                                |                              | * LONGITUDE | SEQ      | OFFICE          | * FIELD    |
|             |                                |                              |             |          |                 | * AFFECTED |

|             |      |    |       |        |        |          |   |       |
|-------------|------|----|-------|--------|--------|----------|---|-------|
| RADIO *     | * 24 | 38 | 49.15 | 1512.2 | NOT *  | F-VIS    | * | 11445 |
| TOWER *     | * 81 | 19 | 53.37 | 1500.9 | DGTZD* | 03/14/77 | * | 11448 |
| HT=204(209) |      |    |       |        |        |          |   |       |

[illegible]

| TYPE OF ACTION                 | NAMES OF RESPONSIBLE PERSONNEL | ORIGINATOR           |
|--------------------------------|--------------------------------|----------------------|
| OBJECTS INSPECTED FROM SEAWARD | ROBERT R. WAGNER               | PHOTO FIELD PARTY    |
| POSITIONS DETERMINED           | ROBERT R. WAGNER               | FIELD REPRESENTATIVE |
| AND/OR VERIFIED BY             | N/A                            | OFFICE COMPILER      |
| FIELD AND OFFICE               | N/A                            | DIGITIZER            |
| ACTIVITIES                     | JAMES H. TAYLOR                | DATA PROCESSOR       |

## National Archives Data

T-00473

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

## Photographs:

74-C-8374R . 8376R and 8378R  
(portions of these photos)