

TP-00485

TP-00485

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-7201 ..... Map No. TP-00485 .....  
Classification No. Final ..... Edition No. ... 1 .....  
.....

### LOCALITY

State ... Florida .....  
General Locality ... Monroe County .....  
Locality ... Key West .....  
.....

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.                                                                                                                                                             |                         |
| <b>DESCRIPTIVE REPORT - DATA RECORD</b>                                                                                                                                                                            |  | TYPE OF SURVEY<br><input checked="" type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED                                                                                             |                         |
| PHOTOGRAMMETRIC OFFICE<br><br>Rockville, Maryland                                                                                                                                                                  |  | SURVEY TP. <u>00485</u><br><br>MAP EDITION NO. <u>(1)</u><br><br>MAP CLASS <u>Final</u><br><br>JOB PH. <u>7201</u>                                                                                                                  |                         |
| OFFICER-IN-CHARGE<br><br>Cdr. Walter S. Simmons                                                                                                                                                                    |  | LAST PRECEDING MAP EDITION<br>TYPE OF SURVEY<br><input type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED<br><br>JOB PH. _____<br>MAP CLASS _____<br>SURVEY DATES:<br>19__ TO 19__ |                         |
| <b>I. INSTRUCTIONS DATED</b>                                                                                                                                                                                       |  |                                                                                                                                                                                                                                     |                         |
| 1. OFFICE                                                                                                                                                                                                          |  | 2. FIELD                                                                                                                                                                                                                            |                         |
| General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000<br>December 9, 1975<br>Supplement 1, November 4, 1974<br>Supplement 111, October 24, 1974                                        |  | Field Instruction - 1/4/74<br><br>Field Instruction (Amendment) 11/13/74<br><br>Field Edit (PH-7000) General Instructions for Florida Coastal Zone Mapping) 1973                                                                    |                         |
| <b>II. DATUMS</b>                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                     |                         |
| 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<br><br>Transverse Mercator                                                                                                                                                                       |  | 4. GRID(S)<br>STATE <u>Florida</u> ZONE <u>East</u>                                                                                                                                                                                 |                         |
| 5. SCALE<br>1:10,000                                                                                                                                                                                               |  | STATE _____ ZONE _____                                                                                                                                                                                                              |                         |
| <b>III. HISTORY OF OFFICE OPERATIONS</b>                                                                                                                                                                           |  |                                                                                                                                                                                                                                     |                         |
| OPERATIONS                                                                                                                                                                                                         |  | NAME                                                                                                                                                                                                                                | DATE                    |
| 1. AEROTRIANGULATION BY<br>METHOD: LANDMARKS AND AIDS BY                                                                                                                                                           |  | R. Kelly<br>Inapplicable                                                                                                                                                                                                            | Oct 75<br>              |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY<br>METHOD: CHECKED BY                                                                                                                                                      |  | J. Taylor                                                                                                                                                                                                                           | Dec. 75                 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY<br>COMPILATION CHECKED BY<br>INSTRUMENT: CONTOURS BY<br>SCALE: CHECKED BY                                                                                                 |  | Inapplicable<br>Inapplicable                                                                                                                                                                                                        |                         |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY<br>CHECKED BY<br>METHOD: Graphic-rectified photos CONTOURS BY<br>CHECKED BY<br>SCALE: HYDRO SUPPORT DATA BY<br>CHECKED BY                                                  |  | J. McClure<br>C. Lewis<br>Inapplicable<br>Inapplicable                                                                                                                                                                              | Oct. 76<br>Oct. 76      |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY                                                                                                                                                                        |  | C. Lewis; J. Battley                                                                                                                                                                                                                | June 1977               |
| 6. APPLICATION OF FIELD EDIT DATA BY<br>CHECKED BY                                                                                                                                                                 |  | P. Dempsey & Tolzman<br>P. Dempsey & J. Battley                                                                                                                                                                                     | Aug. 1977<br>Sept. 1977 |
| 7. COMPILATION SECTION REVIEW BY                                                                                                                                                                                   |  | C. Lewis                                                                                                                                                                                                                            | Dec 1977                |
| 8. FINAL REVIEW BY                                                                                                                                                                                                 |  | D. Brant                                                                                                                                                                                                                            | Mar 1978                |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY                                                                                                                                                                     |  |                                                                                                                                                                                                                                     |                         |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY                                                                                                                                                                     |  | D. Brant                                                                                                                                                                                                                            | Aug. 1980               |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY                                                                                                                                                                     |  | <i>10-10-1981</i>                                                                                                                                                                                                                   | APR 16 1981             |

|                                                                                                                                                                                                                                                                                                                       |                  |                                                                                                          |                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------|
| NOAA FORM 76-36B<br>(3-72)                                                                                                                                                                                                                                                                                            |                  | U. S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY |                                   |
| <b>COMPILATION SOURCES</b>                                                                                                                                                                                                                                                                                            |                  |                                                                                                          |                                   |
| TP-00485                                                                                                                                                                                                                                                                                                              |                  |                                                                                                          |                                   |
| <b>1. COMPILATION PHOTOGRAPHY</b>                                                                                                                                                                                                                                                                                     |                  |                                                                                                          |                                   |
| CAMERA(S)<br>Wild RC-10 "C" 3.5" focla length                                                                                                                                                                                                                                                                         |                  | TYPES OF PHOTOGRAPHY<br>LEGEND                                                                           |                                   |
| 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) COLOR<br>(P) PANCHROMATIC<br>(IR) INFRARED B&W                                                       |                                   |
|                                                                                                                                                                                                                                                                                                                       |                  | TIME REFERENCE<br>ZONE<br>Eastern                                                                        |                                   |
|                                                                                                                                                                                                                                                                                                                       |                  | MERIDIAN<br>75th                                                                                         |                                   |
|                                                                                                                                                                                                                                                                                                                       |                  | <input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> DAYLIGHT                        |                                   |
| NUMBER AND TYPE                                                                                                                                                                                                                                                                                                       | DATE             | TIME                                                                                                     | SCALE                             |
| 74-C(C) 8412, 14, 16                                                                                                                                                                                                                                                                                                  | 16 Mar '74       |                                                                                                          | 1:30,000                          |
| 74-C(C) 8421, 22, 23, 25                                                                                                                                                                                                                                                                                              | 16 Mar '74       |                                                                                                          | 1:30,000                          |
| 74-C(C) 8557, 59, 61                                                                                                                                                                                                                                                                                                  | 16 Mar '74       |                                                                                                          | 1:30,000                          |
| 74-C(R) 2214, 15                                                                                                                                                                                                                                                                                                      | 10 Nov '74       | 1227                                                                                                     | 1:30,000                          |
| 74-C(R) 2329, 30, 31, 32                                                                                                                                                                                                                                                                                              | 12 Nov '74       | 0950                                                                                                     | 1:30,000                          |
| 74-C(R) 2389, 90                                                                                                                                                                                                                                                                                                      | 12 Nov '74       | 1040                                                                                                     | 1:30,000                          |
| 74-C(R) 2465                                                                                                                                                                                                                                                                                                          | 12 Nov '74       | 1455                                                                                                     | 1:30,000                          |
| 74-C(R) 2650, 51, 52, 53                                                                                                                                                                                                                                                                                              | 22 Nov '74       | 0934                                                                                                     | 1:30,000                          |
| 74-C(R) 2655, 56, 57, 58                                                                                                                                                                                                                                                                                              | 22 Nov '74       | 0948                                                                                                     | 1:30,000                          |
| 74-C(R) 2769, 70, 71                                                                                                                                                                                                                                                                                                  | 22 Nov '74       | 1143                                                                                                     | 1:30,000                          |
| 74-C(R) 2823, 24, 25                                                                                                                                                                                                                                                                                                  | 22 Nov '74       | 1253                                                                                                     | 1:30,000                          |
| STAGE OF TIDE<br>The stage of tide is inapplicable for the color photography.<br><br>Refer to 76-36B(1) for tide information.                                                                                                                                                                                         |                  |                                                                                                          |                                   |
| REMARKS<br>74-C(C) 7330 thru 7331 - 2/27/74 1:60,000 used for orthophotomosaic.                                                                                                                                                                                                                                       |                  |                                                                                                          |                                   |
| <b>2. SOURCE OF MEAN HIGH-WATER LINE:</b><br><br>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 and shoal and shallow areas. |                  |                                                                                                          |                                   |
| <b>3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:</b><br><br>The source of the MLW line is the tide-coordinated, black-and-white infrared photography listed under item 1.                                                                                                                                 |                  |                                                                                                          |                                   |
| <b>4. CONTEMPORARY HYDROGRAPHIC SURVEYS</b> (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                  |
| <b>5. FINAL JUNCTIONS</b>                                                                                                                                                                                                                                                                                             |                  |                                                                                                          |                                   |
| NORTH<br>TP-00480                                                                                                                                                                                                                                                                                                     | EAST<br>TP-00486 | SOUTH<br>No contempor-<br>ary survey                                                                     | WEST<br>No contemporary<br>survey |
| REMARKS<br>Final junctions will be made in the Coastal Mapping Section.                                                                                                                                                                                                                                               |                  |                                                                                                          |                                   |

## TIDE - COORDINATED PHOTOGRAPHY

TP - 00485

| LOCATION AND PHOTOGRAPHY | TIDE STATIONS<br>(In operation at time of photography) | STAGE OF TIDE | MEAN RANGE |
|--------------------------|--------------------------------------------------------|---------------|------------|
| 74-C(R) 2214, 15         | Sigsbee Park                                           | +0.02' MHW    | 1.03'      |
| 74-C(R) 2329, 30, 31, 32 | Key West, White St. Pier                               | +0.08' MHW    | 1.43'      |
| 74-C(R) 2389, 90         | Key West                                               | +0.18' MHW    | 1.29'      |
| 74-C(R) 2465             | Sigsbee Park                                           | +0.00' MHW    | 1.03'      |
| 74-C(R) 2650, 51, 52, 53 | Key West, White St. Pier                               | +0.23 MLW     | 1.43'      |
| 74-C(R) 2655, 56, 57     | Key West                                               | +0.25 MLW     | 1.29'      |
| 74-C(R) 2658             | Stock Island                                           | +0.08 MLW     | 0.71'      |
| 74-C(R) 2769, 70, 71     | Sigsbee Park                                           | -0.03' MLW    | 1.03'      |
| 74-C(R) 2823, 24, 25     | Mud Key                                                | +0.06' MLW    | 1.90       |

REMARKS:

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

## HISTORY OF FIELD OPERATIONS TP-00485

I. ☒ FIELD INSPECTION OPERATION \* May 1974 ☒ FIELD EDIT OPERATION

| OPERATION                           | NAME                                                                                                                                                               | DATE                 |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. CHIEF OF FIELD PARTY             | R. R. Wagner                                                                                                                                                       |                      |
| 2. HORIZONTAL CONTROL               | RECOVERED BY P.B. Walbolt<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY                                                                                         | 6/77                 |
| 3. VERTICAL CONTROL                 | RECOVERED BY P.B. Walbolt<br>ESTABLISHED BY<br>IDENTIFIED BY                                                                                                       | 6/77                 |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY P.B. Walbolt<br>LOCATED (Field Methods) BY P.B. Walbolt & J.D. DiMare<br>IDENTIFIED BY P.B. Walbolt                          | 6/77<br>7/77<br>7/77 |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input checked="" type="checkbox"/> NO INVESTIGATION |                      |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY R.R. Wagner                                                                                                                            | 7/77                 |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY N/A                                                                                                                                      |                      |

## II. SOURCE DATA

| 1. HORIZONTAL CONTROL IDENTIFIED |                       | 2. VERTICAL CONTROL IDENTIFIED |                                       |
|----------------------------------|-----------------------|--------------------------------|---------------------------------------|
| PHOTO NUMBER                     | STATION NAME          | PHOTO NUMBER                   | STATION DESIGNATION                   |
|                                  | Refer to Field Report | 74C 8412                       | P 121, Q 121                          |
|                                  |                       | 74C 8414                       | TBM 26, U 267                         |
|                                  |                       | 74C 8425                       | KH 1 (USE), D 121, F 121, Z 267 (SRD) |

## 3. PHOTO NUMBERS (Clarification of details)

74C 8412, 8414, 8416, 8423, 8425, 8561; 74CR 2657, 2769

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Non Floating aids and landmarks for charts were either located or verified by field edit.

| PHOTO NUMBER | OBJECT NAME                               | PHOTO NUMBER | OBJECT NAME                    |
|--------------|-------------------------------------------|--------------|--------------------------------|
| 74C 8412     | Aero Rotating W & G, DOME, CUP (Hospital) | 74C 8416     | Cut B Range Front & Rear Light |
| 74C 8423     | CUP (VOR)                                 |              |                                |

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

## 7. SUPPLEMENTAL MAPS AND PLANS

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

\* Refer to Field Report bound with this Descriptive Report

26 pages of T-2 cuts and Sextant fixes

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

## RECORD OF SURVEY USE

TP-00485

## I. MANUSCRIPT COPIES

| COMPILATION STAGES |          |                                          | DATE MANUSCRIPT FORWARDED |               |
|--------------------|----------|------------------------------------------|---------------------------|---------------|
| DATA COMPILED      | DATE     | REMARKS                                  | MARINE CHARTS             | HYDRO SUPPORT |
| Office - Class III | 10/14/76 | Special request from Requirements Branch | 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                                               |
|--------|---------------------------------|-------------------|-------------------------------------------------------|
|        |                                 | 3/1/77            | Nine (9) digitized forms submitted as<br>final report |
|        |                                 |                   |                                                       |
|        |                                 |                   |                                                       |
|        |                                 |                   |                                                       |
|        |                                 |                   |                                                       |
|        |                                 |                   |                                                       |

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3/1/77  
 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:  
\*Lost  
 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       |                                                                                                                                                                                                                                                             |

82°

50'

40'

30'

20'

5

## OFFICIAL MILEAGE FOR COST ACCOUNTS

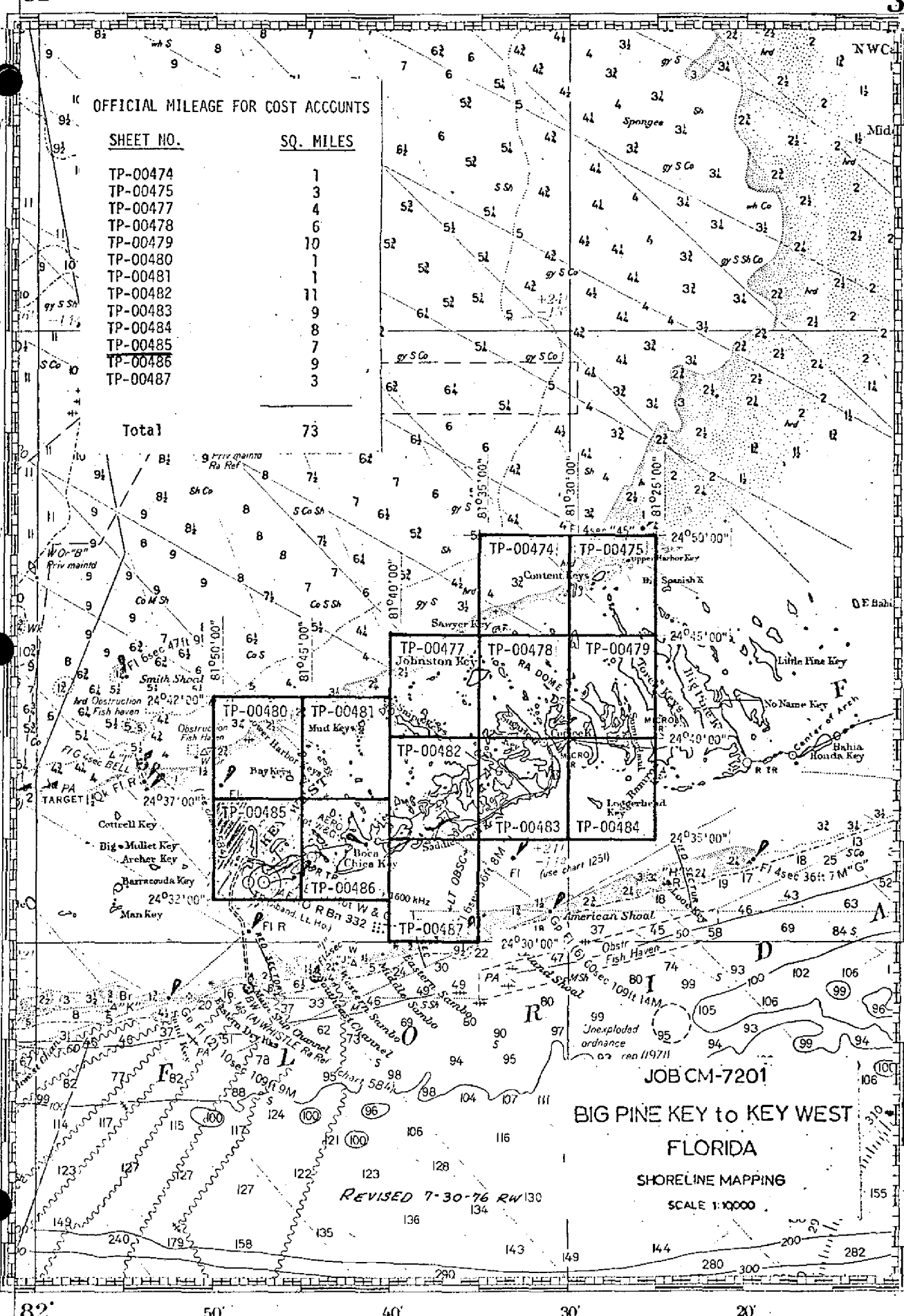
## SHEET NO.

## SQ. MILES

|          |    |
|----------|----|
| TP-00474 | 1  |
| TP-00475 | 3  |
| TP-00477 | 4  |
| TP-00478 | 6  |
| TP-00479 | 10 |
| TP-00480 | 1  |
| TP-00481 | 1  |
| TP-00482 | 11 |
| TP-00483 | 9  |
| TP-00484 | 8  |
| TP-00485 | 7  |
| TP-00486 | 9  |
| TP-00487 | 3  |

Total

73



(JOINS CHART 1112)

JOB CM-7201

BIG PINE KEY to KEY WEST

FLORIDA

SHORELINE MAPPING

SCALE 1:10000

REVISED 7-30-76 RW 130

Summary  
for  
TP-00474 and TP-00475  
TP-00477 thru TP-00487

Coastal Zone Map TP-00485 is one of thirteen (13) 1:10,000 scale maps in project CM-7201. All maps in this project are shoreline type except TP-00485 which is a published map. The interior of the published map is shown with an orthophotomosaic printed in three colors. The interior of the shoreline type maps is limited to a narrow zone of planimetry back from the shoreline.

The layout for Job PH-7201 (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 area (Job PH-7201) is covered by photography taken in 1974 on color and infrared film. The black-and-white infrared film was tide-coordinated at MHW, MLW or MWL 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 method using the stereocomparator.

The interior details shown on the shoreline type maps were stereoscopically compiled from the rectified prints of the color or B&W infrared photography.

The tidal datum lines (MHW, MLW or MWL) and offshore details were compiled from tide-coordinated, black-and-white infrared photography by graphic methods. This photography was controlled by points determined by aerotriangulation and map detail compiled from the rectified photography. The rectified color or B&W infrared photography was also used as an aid to interpret cultural and apparent shoreline. All line work is scribed, approved symbols are shown in the marginal data of this map.



A registration copy of each type map is prepared. It shows additional offshore details such as shoal and shallow lines, useful to 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 and will be registered in the NOS Archives.

The following items for the shoreline type maps will be registered in the NOS Archives:

1. A stable base copy of the Registration Copy.
2. The Descriptive Report.
3. One (1) negative with Reproduction Division and one (1) with the Photo Map and Imagery Information Section.

The following items for the published map will be registered in the NOS Archives:

1. A plastic copy of the published map.
2. A stable base positive copy of the Registration Copy.
3. A continuous tone negative of the orthophotomosaic.
4. The Descriptive Report.

All negatives are filed in the Reproduction Division.

All field records such as field edit sheets, discrepancy prints, field edit data, and control forms are filed in the National Archives.



Original 17

**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL OCEAN SURVEY

Date: 3 May 1974

From: Chief, Photo Party 65

Subj: Field Operations Report - Job CM-7201 - Coastal Boundary Mapping,  
Big Pine Key to Key West, Fla.

To : Chief, Coastal Surveys Section

All field support for Job CM-7201 was performed in accordance with instructions dated 4 Jan 1974. Sections of the project instructions applicable to field support furnished by Photo Parties 60 and 65 are discussed below:

Section 5 - Horizontal Control

.01 All control stations shown on the job diagram were recovered except for PIGEON KEY 2. Station MOSER 1935 was used in place of PIGEON KEY 2. Recovery notes for all stations are enclosed.

.03 No new control stations were necessary and none were established.

Section 6 - Premarking of Control

Paragraphs .01 thru .05 were complied with except as noted below:

The station KEY WEST NAVAL MONUMENT was not paneled because it is photoidentifiable without the panel.

Section 7 - Control Station Identification Card

Paragraphs .01 thru .04 were complied with fully. Control station identification cards are enclosed.

Sections 8, 9, 10, and 11 - Tide Stations, Tolerance, Dates of Favorable Tides, and Tide Observations and Records

Since the tide coordinated photography was cancelled due to insufficient tidal data, these sections were not applicable.

Section 13 - Foreshore Profiles

This section also not applicable due to cancellation of tide coordinated photography.

Section 14 - Time

No staff observations were taken because no tide coordinated photography was flown.

Section 15 - Communications

This section was complied with fully.

Section 17 - Report

This report and all field records are being forwarded.

*Max M. Ethridge*  
Lt. Max M. Ethridge, NOAA  
Chief, Photo Party 65

PHOTOGRAMMETRIC PLOT REPORT  
Boot Key to Key West, Florida  
Job PH-7201  
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,

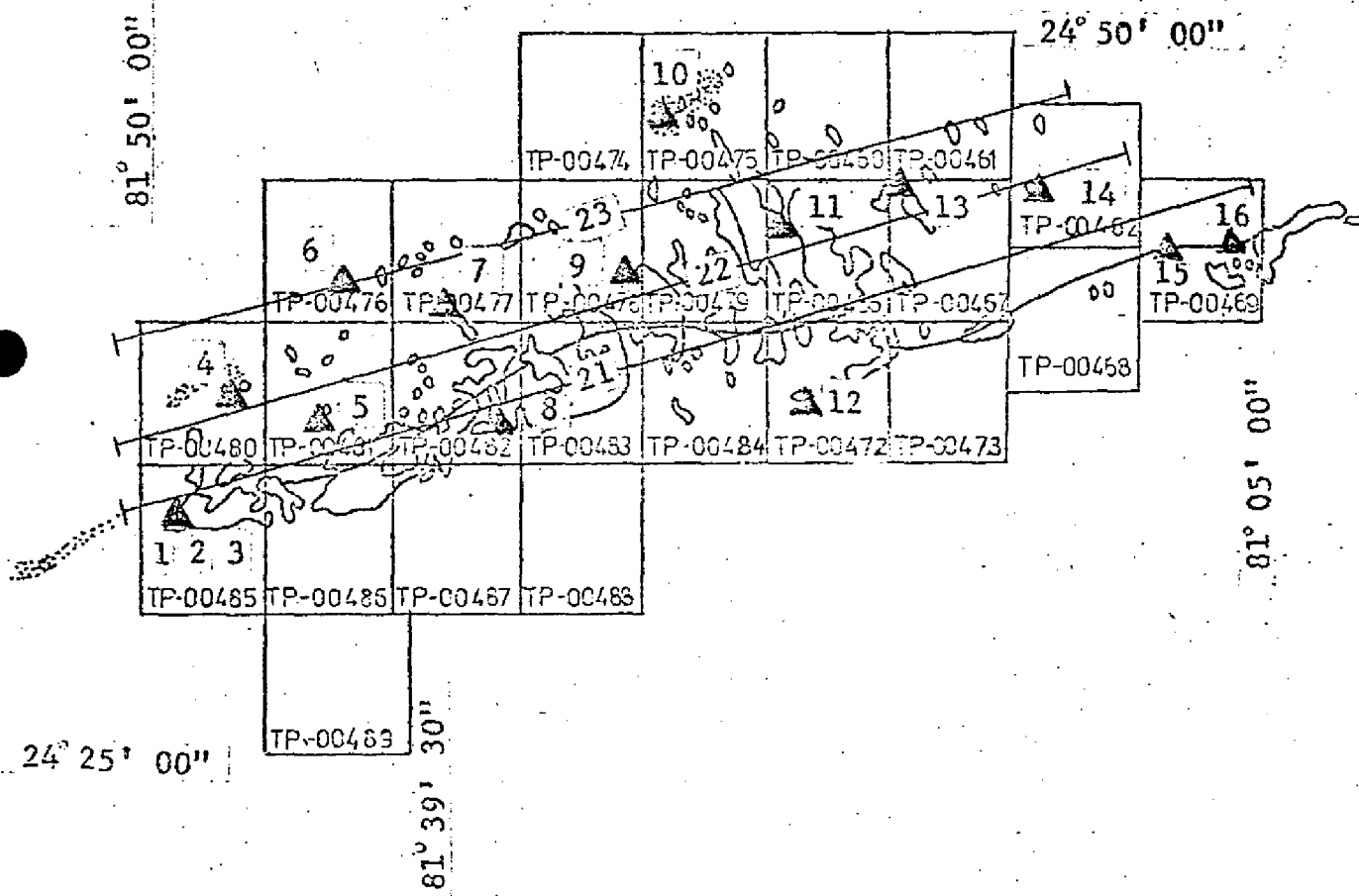
*Robert B. Kelly*  
Robert B. Kelly

Approved and Forwarded:

*John D. Perrow Jr.*

John D. Perrow, Jr.  
Chief, Aerotriangulation Section

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



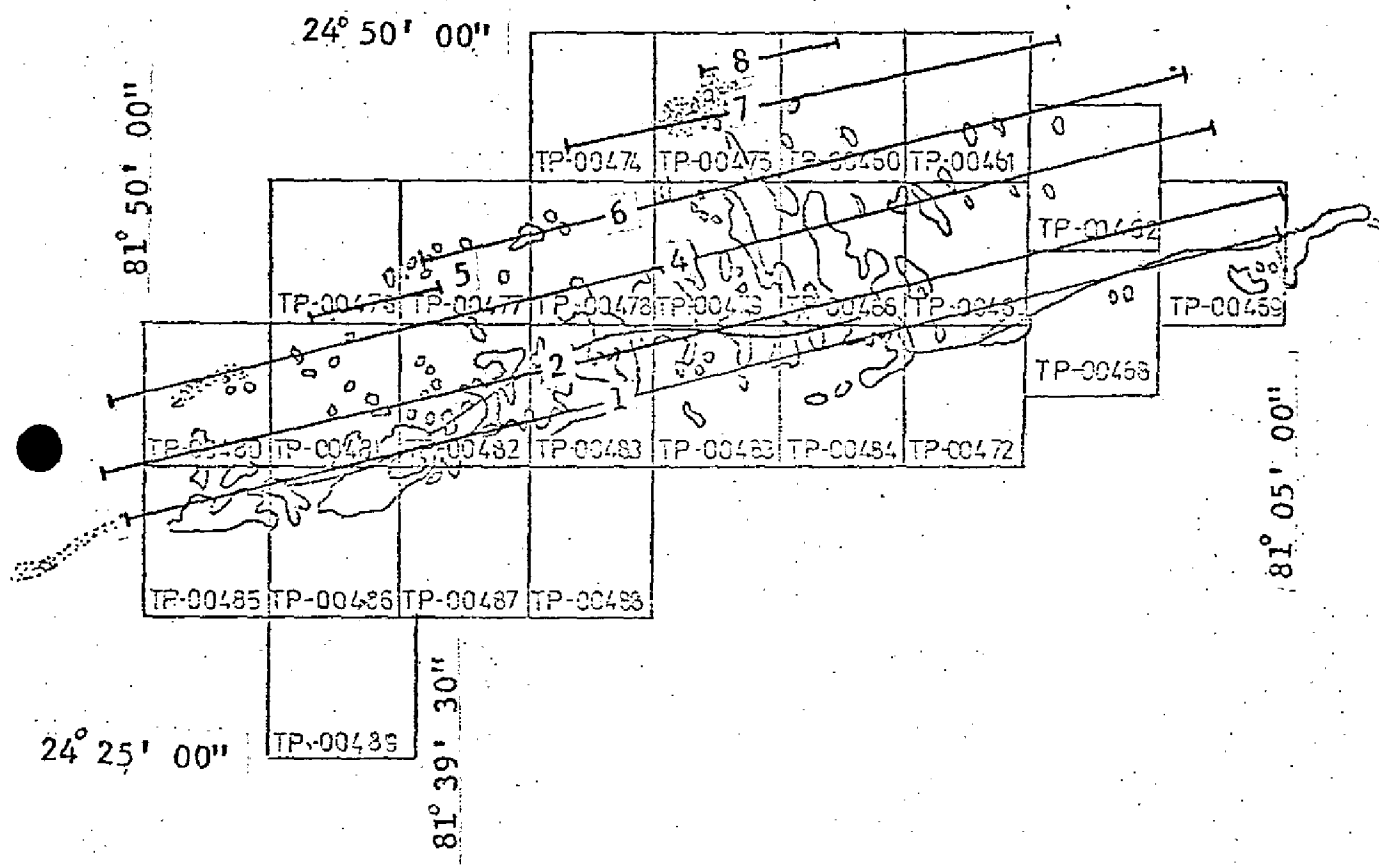
INDEX TO STRIPS OF PHOTOGRAPHS

|    |        |           |            |         |
|----|--------|-----------|------------|---------|
| 21 | 74C(c) | 8113-8141 | Renumbered | 101-114 |
| 22 | "      | 8082-8103 | "          | 201-214 |
| 23 | "      | 8147-8171 | "          | 301-313 |

## CLOSURES TO CONTROL (BLOCK 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) |

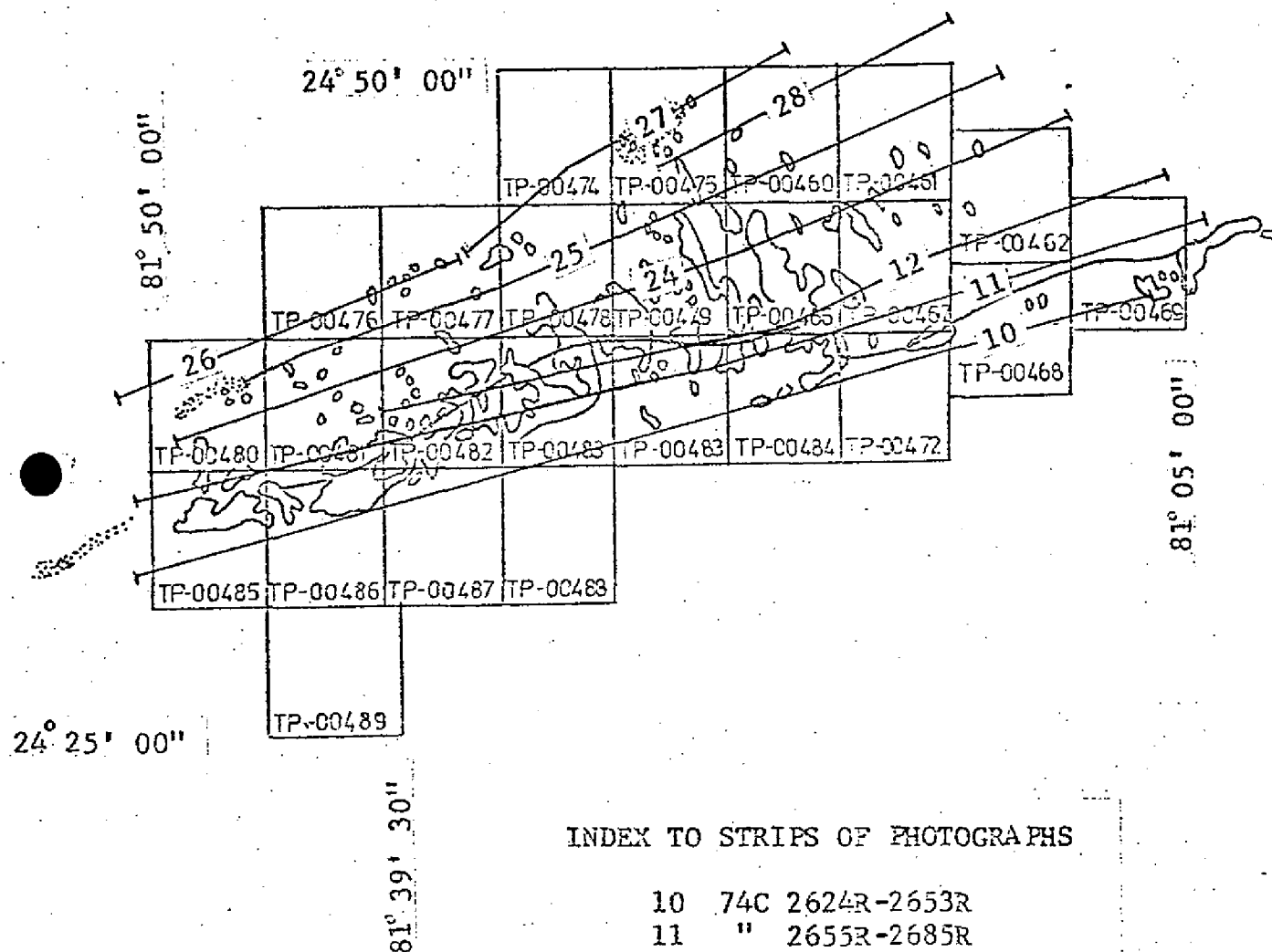
JOB CM-7201  
 BOOT KEY TO KEY WEST  
 FLORIDA  
 SHORELINE MAPPING  
 COMPILATION PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

|   |        |           |
|---|--------|-----------|
| 1 | 74C(c) | 8362-8418 |
| 2 | "      | 8419-8475 |
| 4 | "      | 8274-8328 |
| 5 | "      | 8228-8232 |
| 6 | "      | 7403-7446 |
| 7 | "      | 7518-7544 |
| 8 | "      | 7484-7491 |

JOB CM-7201  
 BOOT KEY TO KEY WEST  
 FLORIDA  
 SHORELINE MAPPING  
 MEAN LOW WATER PHOTOGRAPHY

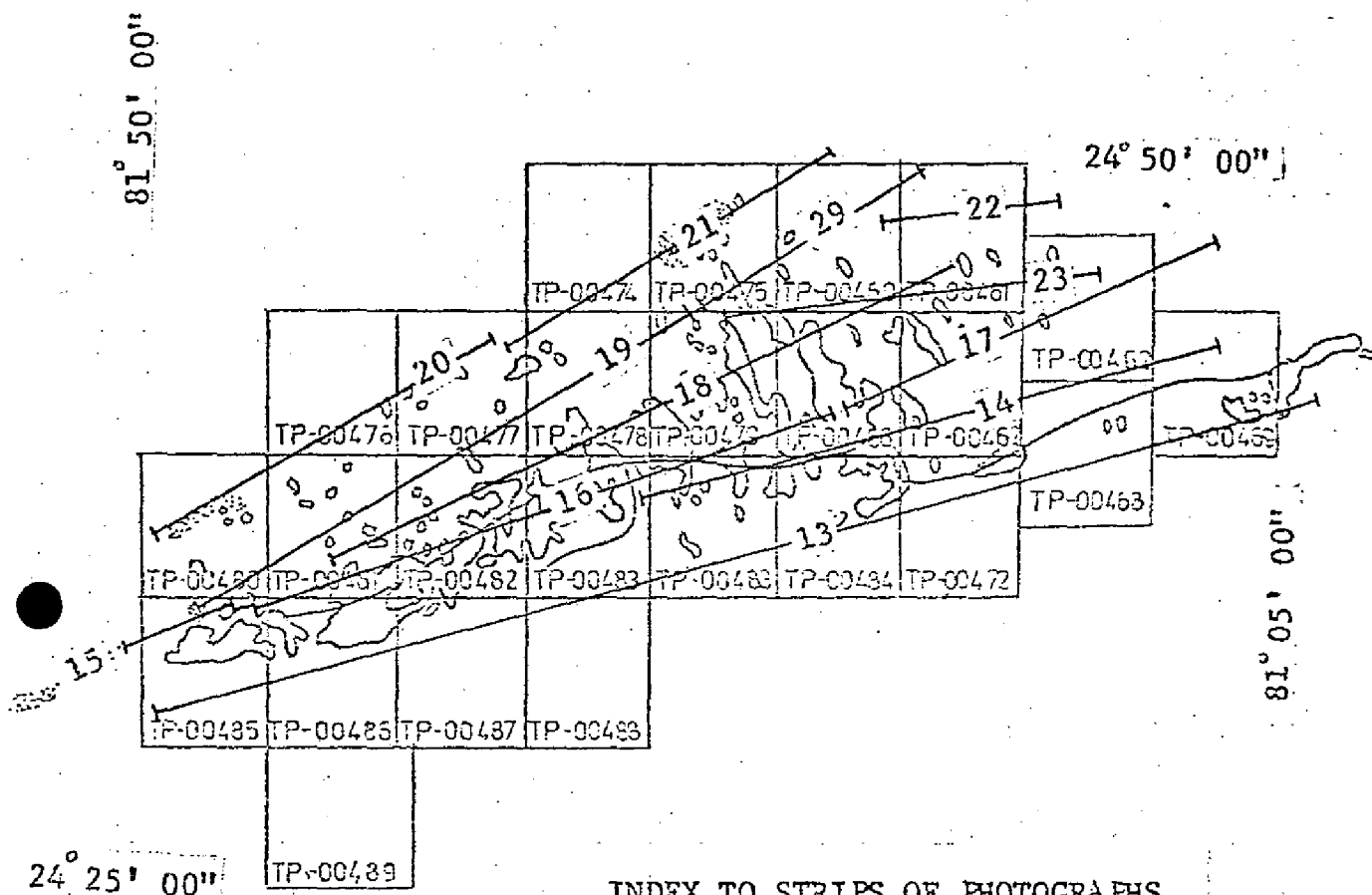


INDEX TO STRIPS OF PHOTOGRAPHS

|    |     |             |
|----|-----|-------------|
| 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  
 BOOT KEY TO KEY WEST  
 FLORIDA  
 SHORELINE MAPPING  
 MEAN HIGH WATER PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

|    |     |             |
|----|-----|-------------|
| 13 | 74C | 2329R-2358R |
| 14 | "   | 2187R-2202R |
| 15 | "   | 2387R-2390R |
| 16 | "   | 2450R-2465R |
| 17 | "   | 2475R-2485R |
| 18 | "   | 2290R-2207R |
| 19 | "   | 2214R-2228R |
| 20 | "   | 2510R-2519R |
| 21 | "   | 2550R-2559R |
| 22 | "   | 2246R-2250R |
| 23 | "   | 2313R-2322R |
| 29 | "   | 2259R-2265R |

## FLORIDA—NOAA Coastal Boundary Mapping Program

## Horizontal Control

Map TP-00485

| Station                                                | NOS Geodetic Data Reference for<br>Description, Positions, Coordinates<br>and Azimuths |
|--------------------------------------------------------|----------------------------------------------------------------------------------------|
| ✓ BAYOU, 1934                                          | Fla. Vol. II, p. 414                                                                   |
| ✓ DREDGERS KEY, SIGSBEE<br>PARK, TANK, 1956            | Bk. 426, p. 31, 35, G.P. Fla. Vol. 1, p. 1070                                          |
| ✓ EAST MARTELLO TOWER,<br>1905-1943                    | Bk. 426, p. 16, 17, 23, 25, 35; G.P. Fla. Vol 1,<br>p. 417, P.C. Fla. E. Zone p. 106   |
| ✓ KEY WEST, COURTHOUSE<br>CUPOLA, 1913                 | Bk. 426, p. 18, 38; G.P. Fla. Vol. 1. p. 427, P.C.<br>Fla. E. Zone, p. 110             |
| ✓ KEY WEST HARBOR, REAR<br>RANGE LIGHT, 1934           | Bk. 426, p. 19, 30, 37; G.P. Fla. Vol. 1, p. 425;<br>P.C. Fla. E. Zone, p. 109         |
| ✓ KEY WEST LIGHTHOUSE<br>1849                          | Fla. Vol. 11, p. 191                                                                   |
| ✓ KEY WEST, MAIN CHANNEL<br>RANGE FRONT LIGHT,<br>1956 | Bk. 426, p. 29, 37; G.P. Vla. Vol. 1, p. 1071                                          |
| ✓ KEY WEST, MAIN CHANNEL<br>RANGE REAR LIGHT,<br>1956  | Bk. 426, p. 29, 37; G.P. Fla. Vol. 1, p. 1071                                          |
| ✓ KEY WEST NAVAL MONU-<br>MENT, 1873-96                | Bk. 426, p. 18; G.P. Fla. Vol. 1, p. 530; P.C. Fla.<br>E. Zone, p. 137                 |
| ✓ KEY WEST, NAVAL STA-<br>TION, TANK, 1956             | Bk. 426, p. 31; G.P. Fla. Vol. 1, p. 1071                                              |
| ✓ WEST MARTELLO TOWER<br>2 (IAGS), 1952                | Bk. 426, p. 26, 30, 49; G.P. Fla. Vol. 1, p. 328                                       |
| ✓ FLEMING KEY 2, 1934                                  | Bk. 426, p. 16, 23, 24, 35; G.P. Fla. Vol. 1, p. 417;<br>P.C. Fla. E. Zone, p. 106     |
| KEY WEST, COURTHOUSE,<br>WATER TANK, 1943              | Bk. 426, p. 23, 38; G.P. Fla. Vol. 1, p. 876; P.C.<br>Fla. E. Zone, p. 188             |
| KEY WEST, D of C,<br>CENTER RADIO MAST,<br>1943        | Bk. 426, p. 23, 46, 37; G.P. Fla. Vol. 1, p. 876;<br>P.C. Fla. E. Zone, p. 188         |
| KEY WEST, NAVAL RADIO<br>MAST, MIDDLE, 1917            | Bk. 426, p. 38, 46; G.P. Fla. Vol. 1, p. 407, P.C.<br>Fla. E. Zone, p. 105             |

## FLORIDA- NOAA Coastal Boundary Mapping Program

## Horizontal Control

Map TP- 00485

| Station                                              | NOS Geodetic Data Reference for<br>Description, Positions, Coordinates<br>and Azimuths |
|------------------------------------------------------|----------------------------------------------------------------------------------------|
| KEY WEST, OLD POST<br>OFFICE, FLAGSTAFF,<br>1908     | Bk. 426, p. 18, 38; G.P. Fla. Vol. 1, p. 543; P.C.<br>Fla. E. Zone, p. 140             |
| KEY WEST, AQUEDUCT COMM<br>TANK, 1956                | Bk. 426, p. 31, 36; G.P. Fla. Vol. 1, p. 1070                                          |
| KEY WEST, ROMA MOTEL,<br>TOWER, 1956                 | Bk. 426, p. 31, 36; G.P. Fla. Vol. 1, p. 1070                                          |
| KEY WEST, NAVAL HOSP.,<br>CUPOLA, 1950               | Bk. 426, p. 27; G.P. Fla. Vol. 1, p. 1070                                              |
| KEY WEST, NAVAL HOSP.,<br>STACK, 1956                | Bk. 426, p. 31, 37; G.P. Fla. Vol. 1, p. 1070                                          |
| B <sup>2</sup> BATTERY 231-232,<br>1943              | Bk. 426, p. 30, 33; G.P.'s & P.C.'s write N.G.S.                                       |
| B <sup>1</sup> BATTERY 231-232;<br>1943              | Bk. 426, p. 29; G.P.'s & P.C.'s write N.G.S.                                           |
| B.C. TOWER, BATTERY 231<br>1943                      | Bk. 426, p. 30; G.P.'s & P.C.'s write N.G.S.                                           |
| B.C. TOWER, BATTERY,<br>232, 1943                    | Bk. 426, p. 30; G.P.'s & P.C.'s write N.G.S.                                           |
| FORT TAYLOR 3", AA<br>BATTERY, DIRECTOR,<br>1943     | Bk. 426, p. 30, G.P.'s & P.C.'s write N.G.S.                                           |
| SCR 296, 1943                                        | Bk. 426, p. 30, G.P.'s & P.C.'s write N.G.S.                                           |
| KEY WEST, CATH. CHURCH,<br>N.E. SPIRE, 1934          | Bk. 426, p. 17, 36; G.P. Fla. Vol. 1, p. 407; P.C.<br>Fla. E. Zone, p. 105             |
| KEY WEST, CATH. CHURCH,<br>S.W. SPIRE, 1934          | Bk. 426, p. 17, 36; G.P. Fla. Vol. 1, p. 407; P.C.<br>Fla. E. Zone, p. 105             |
| KEY WEST, CONGREGATION<br>AL CHURCH, CUPOLA,<br>1913 | Bk. 426, p. 18; G.P.'s & P.C.'s write N.G.S.                                           |
| KEY WEST, AFRICAN METH.<br>CHURCH, 1913              | Bk. 426, p. 18; G.P. Fla. Vol. 1, p. 525; P.C. Fla.<br>E. Zone, p. 135                 |

COMPILATION REPORT  
TP-00485  
October 1976

31. Delineation

All features were delineated by graphic compilation. Interior planimetry is to be shown by an orthophotomosaic.

The 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. Color contact prints were used as a guide for clarifying map detail.

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

A field edit will be made to validate interpretation and symbolization of features.

32. Horizontal Control

Horizontal control was adequate. (See Photogrammetric Plot Report.)

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Drainage was compiled from office interpretation of the ratioed tide-coordinated, black-and-white infrared photography.

35. Shoreline and Alongshore Detail

Office interpretation of the tide-coordinated, black-and-white infrared photography was adequate for delineating the shoreline and alongshore detail.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

Refer to Form 76-40. Two lts., 2 tanks, 1 radio tower, and 1 tower (aband lt. Ho) were located during bridging or are triangulation and 17 dybns, 10 lts., 1 tank, 1 stack (center of 3), 2 towers, 1 aero R Bn, and numerous power poles and piles were located during compilation and will be verified during field edit. All other aids and/or landmarks are to be located by field edit.

38. Control for Future Surveys - None

39. Junctions

Refer to Form 76-36B.

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

Comparison was made with the following USGS 7.5 minute topographic quadrangle:

Key West, Fla. 1971

No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with the following nautical charts:

11434 - 1:80,000 - 26 Jun '76  
11441 - 1:30,000 - 5 Jul '75  
11442 - 1:80,000 - 31 May '75  
11445 (Side B) - 1:40,000 - 28 Jun '75

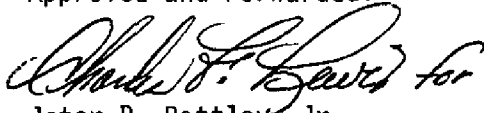
Items to be applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by:

  
John McClure

Approved and Forwarded:

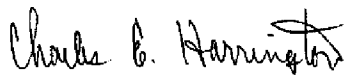
  
Jeter P. Battley, Jr.  
Chief, Coastal Mapping Section

January 1978

GEOGRAPHIC NAMES  
FINAL NAME SHEET  
PH-7201 (Florida Keys)  
TP-00485

|                                            |                    |
|--------------------------------------------|--------------------|
| Calda Bank                                 | Pearl Basin        |
| Calda Channel                              | Salt Pond Keys     |
| Bluefish Channel                           | Sigsbee Park       |
| Fleming Key                                | Smathers Beach     |
| Fort Taylor                                | Stock Island       |
| Frankfort Bank                             | Straits of Florida |
| Garrison Bight                             | Trumbo Point       |
| Garrison Bight Channel                     | Whitehead Spit     |
| Great White Heron National Wildlife Refuge | Wisteria Island    |
| Jack Channel                               |                    |
| Key West                                   |                    |
| Key West Bight                             |                    |
| Key West International Airport             |                    |
| Key West National Wildlife Refuge          |                    |
| Man of War Harbor                          |                    |
| Middle Ground                              |                    |
| Northwest Channel                          |                    |
| Pearl Bank                                 |                    |

Approved



---

Charles E. Harrington  
Chief Geographer - C3x5

FIELD EDIT REPORT TP-00485, JOB CM-720151. METHODS

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

Twelve triangulation stations were recovered. +<sup>2</sup>

Nine vertical control stations were recovered. Eight were identified and one triangulation station BAYOU 1934, was plotted.

Fourteen landmarks are recommended for charting. Due to the large number of landmarks in the area that are prominent in the day light hours and lighted at night the charted landmark HOTEL PROMINENT is recommended as the landmark building only. The flagpole on top of the hotel was not found. Two tanks on an island at approximate 24 33.6 and 81 48.8 have landmark value such as a building. The tanks were not measured because of being inaccessible. The approximate elevation is about 30 feet. *on chart as Ldunks.*

All known aids were verified or located. Garrison Bight Channel Day-beacon 14 was not in place at the time aids were located in this area.

Points on range for Ranges Cut B and Main Channel were not located in the usual manner. Due to not being able to anchor the boat in the deep water on range, and take a fix with check angles, two sextant fixes were taken on each range while the boat was under power. No point on range was taken on Main Channel Range since both Front and Rear Lights are triangulation stations and an inverse can be computed.

✓ Four tidal stations fall within this manuscript.

| <u>Station</u>            | <u>Bench Mark</u> | <u>Photograph</u> |
|---------------------------|-------------------|-------------------|
| Riviera Canal, Key West   | P 121 ✓           | 74C8412 ✓         |
| Sigsbee Park, Key West    | NO 2 ✓            | 74C8425 ✓         |
| White Street Pier         | NO 1 ✓            | 74C8412 ✓         |
| Key West, Key West Island | NO 26 ✓           | 74C8414 ✓         |

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

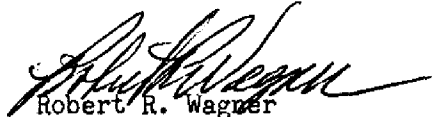
54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 7/15/77

  
Robert R. Wagner  
Chief, Photo Party 66



## Review Report

TP-00485

September 1980

61. General

Coastal Zone Map TP-00485 was inspected before field edit and reviewed as a Class I map. This review consisted of an examination of the map manuscript, the field edit and its application, the reproduction negative and the Descriptive Report.

This proof copy of this map was edited by Quality Control before making final copies for distribution to the state of Florida. This edit comprised a thorough inspection of map detail 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 section:

Coastal Mapping - Map Detail  
Staff Geographer - Geographic Names  
Coastal Surveys - Horizontal and Vertical Control

62. Cartographic Comparison

Comparison was made with the Key West, Fla. quadrangle map, 1:24,000 scale, dated 1971.

There were no significant changes noted.

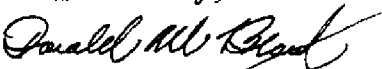
Comparison was made with chart 11445, 18th Edition, dated October 13, 1979.

Significant changes between the chart and TP-00485 were noted on the chart maintenance print by annotating copies of field notes on the print.

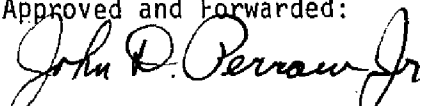
63. thru 65. Inapplicable66. Adequacy of Results and Future Surveys

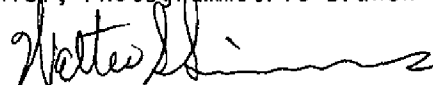
Coastal Zone Map TP-00485 complies with the instruction for NOS Cooperative Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by,

  
Donald M. Brant

Approved and Forwarded:

  
Chief, Photogrammetric Branch

  
Chief, Photogrammetry Division

|                                                                                                      |                                  |                        |                     |                          |
|------------------------------------------------------------------------------------------------------|----------------------------------|------------------------|---------------------|--------------------------|
| 76-40                                                                                                | PHOTOGRAMMETRIC BRANCH           | NATIONAL OCEAN SURVEY  | NOAA                | DATA TAB                 |
| LISTING                                                                                              | COASTAL MAPPING DIVISION         | DEPARTMENT OF COMMERCE | USA                 | VERSION                  |
|                                                                                                      |                                  |                        |                     | 770818                   |
| * SVY TP-00485                                                                                       | * NONFLOATING AIDS FOR CHARTS    | * RPT UNIT             | CMD, ROCKVILLE, MD. | * PAGE 1 OF 9            |
| * JOB PH-7201                                                                                        | * TO BE CHARTED                  | * STATE                | FLORIDA             | * *ORIGINATING ACTIVITY* |
| * PRJ 833205                                                                                         |                                  | * LOCALITY             | KEY WEST            | * *COMPILATION*          |
| * DTM NA 1927                                                                                        |                                  | * DATE                 | 09/01/77            |                          |
| * THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS * |                                  |                        |                     |                          |
| * * * * *                                                                                            | DESCRIPTION                      | * POSITION             | CMD                 | * METHOD AND DATE        |
| * CHARTING*                                                                                          | RECORD REASON FOR DELETION       | * LATITUDE             | DM                  | * OF LOCATION            |
| * NAME                                                                                               | * PUT TRIANGULATION NAMES IN ( ) | * LONGITUDE            | DP                  | * FIELD                  |
|                                                                                                      |                                  |                        |                     | * AFFECTED*              |
| * * * * *                                                                                            |                                  |                        |                     |                          |
| * * *                                                                                                | KEY WEST                         | * *                    | * *                 | * *                      |
| * * *                                                                                                | MAIN CHANNEL                     | * *                    | * *                 | * *                      |
| * * *                                                                                                |                                  |                        |                     |                          |
| * RGE F *                                                                                            | (RANGE FRONT LIGHT, 1956)        | * 24 32 15.91          | 489.5               | NOT *                    |
| * LIGHT *                                                                                            |                                  | * 81 48 23.66          | 665.9               | DGTZD*                   |
|                                                                                                      |                                  |                        |                     | * TRIANG REC* 11441      |
|                                                                                                      |                                  |                        |                     | * 06/28/77 * 11442       |
| * RGE R *                                                                                            | (RANGE REAR LIGHT, 1956)         | * 24 32 54.61          | 1680.2              | NOT *                    |
| * LIGHT *                                                                                            |                                  | * 81 48 26.47          | 745.0               | DGTZD*                   |
|                                                                                                      |                                  |                        |                     | * TRIANG REC* 11434      |
|                                                                                                      |                                  |                        |                     | * 06/28/77 * 11445       |
|                                                                                                      |                                  |                        |                     | DITTO                    |
| * RGE F *                                                                                            | CUT B RANGE FRONT LIGHT          | * 24 33 36.06          | 1109.5              | * P-5                    |
| * LIGHT *                                                                                            |                                  | * 81 48 52.44          | 1475.7              | * 07/06/77 * DITTO       |
|                                                                                                      |                                  |                        |                     | 74CC8416                 |
| * RGE R *                                                                                            | CUT B RANGE REAR LIGHT           | * 24 33 44.92          | 1382.1              | * DITTO                  |
| * LIGHT *                                                                                            |                                  | * 81 48 51.93          | 1461.3              | * 06/29/77 * DITTO       |
|                                                                                                      |                                  |                        |                     |                          |
| * RGE F *                                                                                            | KEY WEST HARBOR RANGE FRONT      | * 24 34 44.07          | 1355.9              | * P-L-3-8                |
| * LIGHT *                                                                                            |                                  | * 81 48 00.04          | 1.1                 | * 06/29/77 * DITTO       |
|                                                                                                      |                                  |                        |                     |                          |
| * RGE R *                                                                                            | (KEY WEST HARBOR RANGE REAR      | * 24 35 05.14          | 158.1               | NOT *                    |
| * LIGHT *                                                                                            | LIGHT, 1934)                     | * 81 47 49.67          | 1397.5              | DGTZD*                   |
|                                                                                                      |                                  |                        |                     | * TRIANG REC* 11441      |
|                                                                                                      |                                  |                        |                     | * 06/28/77 * DITTO       |
| * DYBN *                                                                                             | MAIN CHANNEL                     | * 24 33 30.06          | 924.9               | * P-V-3-6                |
| * 19 *                                                                                               |                                  | * 81 48 46.11          | 1297.6              | * 06/29/77 * DITTO       |
|                                                                                                      |                                  |                        |                     |                          |
| * DYBN *                                                                                             | DITTO                            | * 24 33 38.57          | 1186.7              | * DITTO                  |
| * 21 *                                                                                               |                                  | * 81 48 41.67          | 1178.3              | * 03/16/74 *             |
|                                                                                                      |                                  |                        |                     |                          |
| * LIGHT *                                                                                            | DITTO                            | * 24 34 00.43          | 13.2                | * DITTO                  |
| * 27 *                                                                                               | TURNING BASIN LIGHT 27           | * 81 48 28.72          | 808.2               | * 03/16/74 *             |
|                                                                                                      |                                  |                        |                     | * DITTO                  |
| * * * * *                                                                                            |                                  |                        |                     |                          |
| * TYPE OF ACTION                                                                                     | * NAMES OF RESPONSIBLE PERSONNEL | * ORIGINATOR           |                     |                          |
| * * *                                                                                                | * * *                            | * * *                  |                     |                          |
| * * *                                                                                                | * * *                            | * * *                  |                     |                          |
| * * *                                                                                                | * * *                            | * * *                  |                     |                          |
| POSITIONS DETERMINED                                                                                 | ROBERT R. WAGNER                 | * FIELD REPRESENTATIVE |                     |                          |
| AND/OR VERIFIED BY                                                                                   | AUGUST M. TOLZMAN                | * OFFICE COMPILER      |                     |                          |
| FIELD AND OFFICE                                                                                     | ALFRED BETHEA                    | * DIGITIZER            |                     |                          |
| ACTIVITIES                                                                                           | JAMES H. TAYLOR                  | * DATA PROCESSER       |                     |                          |





|                                                                                                    |  |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|------------------------|--|--|--|--|--|--|--|--|--|------------------------|--|--|--|--|--|--|--|--|--|-----------------|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|
| PHOTOGRAMMETRIC BRANCH                                                                             |  |  |  |  |  |  |  |  |  | NATIONAL OCEAN SURVEY          |  |  |  |  |  |  |  |  |  | NOAA                   |  |  |  |  |  |  |  |  |  | DATATAB                |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| COASTAL MAPPING DIVISION                                                                           |  |  |  |  |  |  |  |  |  | DEPARTMENT OF COMMERCE USA     |  |  |  |  |  |  |  |  |  | VERSION                |  |  |  |  |  |  |  |  |  | 770816                 |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| LISTING                                                                                            |  |  |  |  |  |  |  |  |  | RPT UNIT                       |  |  |  |  |  |  |  |  |  | CMD, ROCKVILLE, MD.    |  |  |  |  |  |  |  |  |  | PAGE 4 OF 9            |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * SVY TP-00485                                                                                     |  |  |  |  |  |  |  |  |  | * NONFLOATING AIDS FOR CHARIS  |  |  |  |  |  |  |  |  |  | * STATE FLORIDA        |  |  |  |  |  |  |  |  |  | * ORIGINATING ACTIVITY |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * JOB PH-7201                                                                                      |  |  |  |  |  |  |  |  |  | * TO BE CHARTED                |  |  |  |  |  |  |  |  |  | * LOCALITY KEY WEST    |  |  |  |  |  |  |  |  |  | * COMPILATION          |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * PRJ 833205                                                                                       |  |  |  |  |  |  |  |  |  | * DATE 09/01/77                |  |  |  |  |  |  |  |  |  | * ORIGINATING ACTIVITY |  |  |  |  |  |  |  |  |  | * COMPILATION          |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * DTM NA 1927                                                                                      |  |  |  |  |  |  |  |  |  | * DATE 09/01/77                |  |  |  |  |  |  |  |  |  | * ORIGINATING ACTIVITY |  |  |  |  |  |  |  |  |  | * COMPILATION          |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS |  |  |  |  |  |  |  |  |  | * DATE 09/01/77                |  |  |  |  |  |  |  |  |  | * ORIGINATING ACTIVITY |  |  |  |  |  |  |  |  |  | * COMPILATION          |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * CHARTING*                                                                                        |  |  |  |  |  |  |  |  |  | RECORD REASON FOR DELETION     |  |  |  |  |  |  |  |  |  | POSITION               |  |  |  |  |  |  |  |  |  | CMD                    |  |  |  |  |  |  |  |  |  | METHOD AND DATE |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * NAME *                                                                                           |  |  |  |  |  |  |  |  |  | PUT TRIANGULATION NAMES IN ( ) |  |  |  |  |  |  |  |  |  | LATITUDE               |  |  |  |  |  |  |  |  |  | DM                     |  |  |  |  |  |  |  |  |  | ALTEK*          |  |  |  |  |  |  |  |  |  | OF LOCATION |  |  |  |  |  |  |  |  |  | CHARTS      |  |  |  |  |  |  |  |  |  |
| * DESCRIPTION                                                                                      |  |  |  |  |  |  |  |  |  | * LONGITUDE                    |  |  |  |  |  |  |  |  |  | DP                     |  |  |  |  |  |  |  |  |  | DGZD*                  |  |  |  |  |  |  |  |  |  | OFFICE          |  |  |  |  |  |  |  |  |  | FIELD       |  |  |  |  |  |  |  |  |  | * AFFECTED* |  |  |  |  |  |  |  |  |  |
| * KEY WEST                                                                                         |  |  |  |  |  |  |  |  |  | * * *                          |  |  |  |  |  |  |  |  |  | * * *                  |  |  |  |  |  |  |  |  |  | * * *                  |  |  |  |  |  |  |  |  |  | * * *           |  |  |  |  |  |  |  |  |  | * * *       |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * DYBN *                                                                                           |  |  |  |  |  |  |  |  |  | GARRISON BIGHT CHANNEL         |  |  |  |  |  |  |  |  |  | * 24 33 41.88          |  |  |  |  |  |  |  |  |  | 1288.5                 |  |  |  |  |  |  |  |  |  | * 74CC8423      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * 11434     |  |  |  |  |  |  |  |  |  |
| * 24 *                                                                                             |  |  |  |  |  |  |  |  |  | GARRISON TURNING BASIN DYBNS   |  |  |  |  |  |  |  |  |  | * 81 46 59.08          |  |  |  |  |  |  |  |  |  | 1662.6                 |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/27/77  |  |  |  |  |  |  |  |  |  | * 11441     |  |  |  |  |  |  |  |  |  |
| * DYBN *                                                                                           |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 24 33 39.94          |  |  |  |  |  |  |  |  |  | 1228.8                 |  |  |  |  |  |  |  |  |  | * 74CC8423      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * 11442     |  |  |  |  |  |  |  |  |  |
| * 25 *                                                                                             |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 81 46 57.56          |  |  |  |  |  |  |  |  |  | 1619.8                 |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/27/77  |  |  |  |  |  |  |  |  |  | * 11445     |  |  |  |  |  |  |  |  |  |
| * DYBN *                                                                                           |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 24 33 40.91          |  |  |  |  |  |  |  |  |  | 1258.7                 |  |  |  |  |  |  |  |  |  | * 74CC8423      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 26 *                                                                                             |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 81 47 00.90          |  |  |  |  |  |  |  |  |  | 25.3                   |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/27/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * DYBN *                                                                                           |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 24 33 39.28          |  |  |  |  |  |  |  |  |  | 1208.5                 |  |  |  |  |  |  |  |  |  | * 74CC8423      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 27 *                                                                                             |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 81 47 01.93          |  |  |  |  |  |  |  |  |  | 54.3                   |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/27/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * DYBN *                                                                                           |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 24 33 40.97          |  |  |  |  |  |  |  |  |  | 1260.5                 |  |  |  |  |  |  |  |  |  | * 74CC8423      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 29 *                                                                                             |  |  |  |  |  |  |  |  |  | DITTO                          |  |  |  |  |  |  |  |  |  | * 81 47 12.37          |  |  |  |  |  |  |  |  |  | 348.1                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/27/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * LIGHT *                                                                                          |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 57.86          |  |  |  |  |  |  |  |  |  | 1780.2                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-L-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 17 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL LIGHT 17     |  |  |  |  |  |  |  |  |  | * 81 49 46.18          |  |  |  |  |  |  |  |  |  | 1299.5                 |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * LIGHT *                                                                                          |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 26.67          |  |  |  |  |  |  |  |  |  | 820.6                  |  |  |  |  |  |  |  |  |  | * P-V-3-6       |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * 18 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 43.64          |  |  |  |  |  |  |  |  |  | 1228.1                 |  |  |  |  |  |  |  |  |  | * 06/29/77      |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |
| * LIGHT *                                                                                          |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 19 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 20 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 21 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 22 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 23 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 24 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 25 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 26 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 27 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 28 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 29 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 30 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 31 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 32 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 33 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 34 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 35 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 36 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 37 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 38 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 39 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 40 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 41 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 42 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 43 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 44 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 45 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 46 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 47 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 48 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 49 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 50 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 51 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 52 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 53 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 54 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 55 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 56 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 57 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 58 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 59 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 60 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 61 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 62 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 63 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 64 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 65 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 66 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 67 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 68 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 69 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 70 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 71 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 72 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 73 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 74 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 75 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 76 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 77 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 78 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 79 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 80 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 81 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 82 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 83 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 84 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 85 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 86 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 87 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 88 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 89 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 90 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 91 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 92 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 93 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 94 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 95 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 96 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 97 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 98 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 99 *                                                                                             |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 100 *                                                                                            |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 101 *                                                                                            |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 102 *                                                                                            |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 24 33 39.16          |  |  |  |  |  |  |  |  |  | 1204.8                 |  |  |  |  |  |  |  |  |  | * 74CC8416      |  |  |  |  |  |  |  |  |  | * P-V-3-6   |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 103 *                                                                                            |  |  |  |  |  |  |  |  |  | NORTHWEST CHANNEL              |  |  |  |  |  |  |  |  |  | * 81 49 12.19          |  |  |  |  |  |  |  |  |  | 343.0                  |  |  |  |  |  |  |  |  |  | * 03/16/74      |  |  |  |  |  |  |  |  |  | * 06/29/77  |  |  |  |  |  |  |  |  |  | * DITTO     |  |  |  |  |  |  |  |  |  |
| * 104                                                                                              |  |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |



[illegible]

| PHOTOGRAMMETRIC BRANCH<br>COASTAL MAPPING DIVISION                                           |  |  |  |  |  |  |  |  |  | NATIONAL OCEAN SURVEY<br>DEPARTMENT OF COMMERCE USA |  |  |  |  |  |  |  |  |  | NOAA<br>VERSION<br>770818           |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|-------------------------------------|--|--|--|--|--|--|--|--|--|
| LISTING                                                                                      |  |  |  |  |  |  |  |  |  | RPT UNIT                                            |  |  |  |  |  |  |  |  |  | PAGE 7 OF 9                         |  |  |  |  |  |  |  |  |  |
| LANDMARKS FOR CHARTS<br>TO BE CHARTED                                                        |  |  |  |  |  |  |  |  |  | CMD, ROCKVILLE, MD.                                 |  |  |  |  |  |  |  |  |  | ORIGINATING ACTIVITY<br>COMPILATION |  |  |  |  |  |  |  |  |  |
| SVY TP-00485                                                                                 |  |  |  |  |  |  |  |  |  | STATE FLORIDA                                       |  |  |  |  |  |  |  |  |  | ORIGINATING ACTIVITY<br>COMPILATION |  |  |  |  |  |  |  |  |  |
| JOB PH-7201                                                                                  |  |  |  |  |  |  |  |  |  | LOCALITY KEY WEST                                   |  |  |  |  |  |  |  |  |  | ORIGINATING ACTIVITY<br>COMPILATION |  |  |  |  |  |  |  |  |  |
| PRJ 833205                                                                                   |  |  |  |  |  |  |  |  |  | DATE 09/01/77                                       |  |  |  |  |  |  |  |  |  | ORIGINATING ACTIVITY<br>COMPILATION |  |  |  |  |  |  |  |  |  |
| DTM NA 1927                                                                                  |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  | ORIGINATING ACTIVITY<br>COMPILATION |  |  |  |  |  |  |  |  |  |
| THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| DESCRIPTION                                                                                  |  |  |  |  |  |  |  |  |  | POSITION                                            |  |  |  |  |  |  |  |  |  | CMD                                 |  |  |  |  |  |  |  |  |  |
| RECORD REASON FOR DELETION                                                                   |  |  |  |  |  |  |  |  |  | LATITUDE                                            |  |  |  |  |  |  |  |  |  | DM                                  |  |  |  |  |  |  |  |  |  |
| PUT TRIANGULATION NAMES IN ( )                                                               |  |  |  |  |  |  |  |  |  | LONGITUDE                                           |  |  |  |  |  |  |  |  |  | UP                                  |  |  |  |  |  |  |  |  |  |
| CHARTING*                                                                                    |  |  |  |  |  |  |  |  |  | METHOD AND DATE                                     |  |  |  |  |  |  |  |  |  | CHARTS                              |  |  |  |  |  |  |  |  |  |
| NAME*                                                                                        |  |  |  |  |  |  |  |  |  | OFFICE                                              |  |  |  |  |  |  |  |  |  | FIELD                               |  |  |  |  |  |  |  |  |  |
| AFFECTED*                                                                                    |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| AIRPORT VOR                                                                                  |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| CUPOLA                                                                                       |  |  |  |  |  |  |  |  |  | 24 35 07.63                                         |  |  |  |  |  |  |  |  |  | 234.8                               |  |  |  |  |  |  |  |  |  |
| HT=38(45)                                                                                    |  |  |  |  |  |  |  |  |  | 81 48 02.36                                         |  |  |  |  |  |  |  |  |  | 66.4                                |  |  |  |  |  |  |  |  |  |
| RADIO                                                                                        |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| TOWER                                                                                        |  |  |  |  |  |  |  |  |  | 24 33 22.71                                         |  |  |  |  |  |  |  |  |  | 698.7                               |  |  |  |  |  |  |  |  |  |
| HT=315(322)                                                                                  |  |  |  |  |  |  |  |  |  | 81 48 23.33                                         |  |  |  |  |  |  |  |  |  | 656.6                               |  |  |  |  |  |  |  |  |  |
| TANK                                                                                         |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| {KEY WEST NAVAL STATION TANK,                                                                |  |  |  |  |  |  |  |  |  | 24 32 56.66                                         |  |  |  |  |  |  |  |  |  | 1743.9                              |  |  |  |  |  |  |  |  |  |
| HT=142(148)                                                                                  |  |  |  |  |  |  |  |  |  | 81 48 26.87                                         |  |  |  |  |  |  |  |  |  | 756.2                               |  |  |  |  |  |  |  |  |  |
| TANK                                                                                         |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| {OREGERS KEY SIGSBEE PAR TANK                                                                |  |  |  |  |  |  |  |  |  | 24 34 48.49                                         |  |  |  |  |  |  |  |  |  | 1491.9                              |  |  |  |  |  |  |  |  |  |
| HT=131(138)                                                                                  |  |  |  |  |  |  |  |  |  | 81 46 27.30                                         |  |  |  |  |  |  |  |  |  | 768.1                               |  |  |  |  |  |  |  |  |  |
| TANK                                                                                         |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| HT=131(138)                                                                                  |  |  |  |  |  |  |  |  |  | 24 34 42.37                                         |  |  |  |  |  |  |  |  |  | 1303.6                              |  |  |  |  |  |  |  |  |  |
| HT=131(138)                                                                                  |  |  |  |  |  |  |  |  |  | 81 46 19.65                                         |  |  |  |  |  |  |  |  |  | 552.9                               |  |  |  |  |  |  |  |  |  |
| STACK                                                                                        |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| CENTER OF THREE                                                                              |  |  |  |  |  |  |  |  |  | 24 33 43.72                                         |  |  |  |  |  |  |  |  |  | 1345.1                              |  |  |  |  |  |  |  |  |  |
| HT=155(162)                                                                                  |  |  |  |  |  |  |  |  |  | 81 47 52.73                                         |  |  |  |  |  |  |  |  |  | 1483.9                              |  |  |  |  |  |  |  |  |  |
| TOWER                                                                                        |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| HT=100(106)                                                                                  |  |  |  |  |  |  |  |  |  | 24 33 44.96                                         |  |  |  |  |  |  |  |  |  | 1383.3                              |  |  |  |  |  |  |  |  |  |
| HT=100(106)                                                                                  |  |  |  |  |  |  |  |  |  | 81 46 58.72                                         |  |  |  |  |  |  |  |  |  | 1652.4                              |  |  |  |  |  |  |  |  |  |
| TOWER                                                                                        |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| {KEY WEST LIGHTHOUSE, 1849)                                                                  |  |  |  |  |  |  |  |  |  | 24 33 00.70                                         |  |  |  |  |  |  |  |  |  | 21.5                                |  |  |  |  |  |  |  |  |  |
| HT=89(99)                                                                                    |  |  |  |  |  |  |  |  |  | 81 48 03.81                                         |  |  |  |  |  |  |  |  |  | 107.2                               |  |  |  |  |  |  |  |  |  |
| AERO R                                                                                       |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| HT=144(150)                                                                                  |  |  |  |  |  |  |  |  |  | 24 32 52.46                                         |  |  |  |  |  |  |  |  |  | 1614.0                              |  |  |  |  |  |  |  |  |  |
| HT=144(150)                                                                                  |  |  |  |  |  |  |  |  |  | 81 47 11.68                                         |  |  |  |  |  |  |  |  |  | 328.7                               |  |  |  |  |  |  |  |  |  |
| CUPOLA                                                                                       |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| HT=75(80)                                                                                    |  |  |  |  |  |  |  |  |  | 24 34 05.60                                         |  |  |  |  |  |  |  |  |  | 172.3                               |  |  |  |  |  |  |  |  |  |
| HT=75(80)                                                                                    |  |  |  |  |  |  |  |  |  | 81 45 03.51                                         |  |  |  |  |  |  |  |  |  | 98.8                                |  |  |  |  |  |  |  |  |  |
| OBJECTS INSPECTED FROM SEAWARD                                                               |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| TYPE OF ACTION                                                                               |  |  |  |  |  |  |  |  |  | NAMES OF RESPONSIBLE PERSONNEL                      |  |  |  |  |  |  |  |  |  | ORIGINATOR                          |  |  |  |  |  |  |  |  |  |
| PCSTIONS DETERMINED                                                                          |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |
| AND/OR VERIFIED BY                                                                           |  |  |  |  |  |  |  |  |  | ROBERT R. WAGNER                                    |  |  |  |  |  |  |  |  |  | PHOTO FIELD PARTY                   |  |  |  |  |  |  |  |  |  |
| FIELD AND OFFICE                                                                             |  |  |  |  |  |  |  |  |  | ROBERT R. WAGNER                                    |  |  |  |  |  |  |  |  |  | FIELD REPRESENTATIVE                |  |  |  |  |  |  |  |  |  |
| ACTIVITIES                                                                                   |  |  |  |  |  |  |  |  |  | AUGUST M. TOLZMAN                                   |  |  |  |  |  |  |  |  |  | OFFICE COMPILER                     |  |  |  |  |  |  |  |  |  |
|                                                                                              |  |  |  |  |  |  |  |  |  | ALFRED BETHEA                                       |  |  |  |  |  |  |  |  |  | DIGITIZER                           |  |  |  |  |  |  |  |  |  |
|                                                                                              |  |  |  |  |  |  |  |  |  | JAMES H. TAYLOR                                     |  |  |  |  |  |  |  |  |  | DATA PROCESSOR                      |  |  |  |  |  |  |  |  |  |







National Archives Data  
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TP-00485

1 Discrepancy Print

~~1 Manuscript (showing applications of field edit in red) Field edit  
sheet lost at time of final review).~~ *Q28 11/18/81*

1 NOAA Form 76-36C (History of Field Edit)

10 NOAA Forms 76-40 (Nonfloating Aids and Landmarks for Charts)

26 Pages of Cuts

Photography:

74C(C) 8412, 8414, 8416, 8423, 8425

74C(C) 8561