

TP-00134

TP-00134

|   |
|---|
| NOAA FORM 76-35   |
| U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY |
| DESCRIPTIVE REPORT  |
| Type of Survey ... Coastal Boundary .....   |
| Job No. PH-6910..... Map No. TP-00134..   |
| Classification No. Final Edition No. ...1.....  |
| LOCALITY  |
| State ... Florida .....   |
| General Locality ... Brevard County .....   |
| Locality Courtenay .....  |
| .....   |
| 1969 TO 1971  |
| 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>00134</u><br><br>MAP EDITION NO. <u>(1)</u><br><br>MAP CLASS <u>Final</u><br><br>JOB <u>PH-6910</u>   |                              |
| OFFICER-IN-CHARGE<br><br>Commander Wesley V. Hull   |  | LAST PRECEDING MAP EDITION<br><br>TYPE OF SURVEY<br><input type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED  |                              |
| JOB <u>PH-6910</u><br><br>MAP CLASS _____<br><br>SURVEY DATES:<br>19__ TO 19__  |  |   |                              |
| <b>I. INSTRUCTIONS DATED</b>  |  |   |                              |
| <b>I. OFFICE</b><br><br>General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, 6/19/73<br>OFFICE-Supplement 1, 8/19/73<br>NOTE: Office and Field Edit Instr. (1973) incorporate applicable, prior operational instructions. |  | <b>2. FIELD</b><br><br>Aerial Photography, 9/2/69<br>Supplement I, 1/28/70<br>Supplement II, 3/26/70<br>Supplement III, 8/10/72<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 type="checkbox"/> MEAN HIGH-WATER<br><input type="checkbox"/> MEAN LOW-WATER<br><input type="checkbox"/> MEAN LOWER LOW-WATER<br><input type="checkbox"/> MEAN SEA LEVEL  |  | OTHER (Specify) Mean Water-level.<br>(Refer to Record of Decisions page 5) =  |                              |
| 3. MAP PROJECTION<br><br>Transverse Mercator  |  | 4. GRID(S)<br>STATE <u>Florida</u> ZONE <u>East Zone</u>  |                              |
| 5. SCALE<br><br>1:10,000  |  | STATE _____ ZONE _____  |                              |
| <b>III. HISTORY OF OFFICE OPERATIONS</b>  |  |   |                              |
| OPERATIONS  |  | NAME  | DATE                         |
| 1. AEROTRIANGULATION<br>METHOD: _____ BY _____<br>LANDMARKS AND AIDS BY _____   |  | I.I. Saperstein<br>Inapplicable   | 4/71<br>5/71                 |
| 2. CONTROL AND BRIDGE POINTS<br>METHOD: Coradomat PLOTTED BY _____<br>CHECKED BY _____  |  | D. Phillips<br>Inapplicable   | 5/71<br>5/71                 |
| 3. STEREOSCOPIC INSTRUMENT<br>COMPILATION PLANIMETRY BY _____<br>CHECKED BY _____<br>INSTRUMENT: Wild B-8 plotter<br>SCALE: 1:10,000<br>CONTOURS BY _____<br>CHECKED BY _____   |  | R.A. Youngblood<br>J.P. Battley, Jr.<br>Inapplicable  | 5/71<br>5/71<br>5/71         |
| 4. MANUSCRIPT DELINEATION<br>Shoreline: Graphic<br>METHOD: _____<br>Interior: Orthophoto Mosaic<br>SCALE: _____<br>CHECKED BY _____   |  | J.C. Richter<br>R.A. Youngblood<br>Inapplicable<br>J. Taylor<br>J.P. Battley, Jr.   | 5/71<br>5/71<br>5/71<br>5/71 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT<br>BY _____  |  | J.P. Battley, Jr.   | 5/71                         |
| 6. APPLICATION OF FIELD EDIT DATA<br>BY _____<br>CHECKED BY _____   |  | J.C. Richter<br>J.P. Battley, Jr.   | 6/71<br>6/71                 |
| 7. COMPILATION SECTION REVIEW<br>BY _____   |  | R.A. Youngblood   | 6/71                         |
| 8. FINAL REVIEW<br>BY _____   |  | J.P. Battley, Jr.   | 8/71                         |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH<br>BY _____   |  |   |                              |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH<br>BY _____   |  | * D.M. Brant  | 1/74                         |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION<br>BY _____   |  | R. J. Baker   | 8-12-74                      |

|   |          |  |               |  |                  |
|---|----------|--|---------------|--|------------------|
| NOAA FORM 76-36B<br>(3-72)  |          | U. S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY |               |  |                  |
| TP-00134  |          | COMPILATION SOURCES  |               |  |                  |
| 1. COMPILATION PHOTOGRAPHY  |          |  |               |  |                  |
| CAMERA(S) <u>Wild RC8</u><br><u>E&amp;L emareas</u>   |          | TYPES OF PHOTOGRAPHY<br>LEGEND<br><br>(C) COLOR<br>(P) PANCHROMATIC<br>(I) INFRARED <u>3fw</u>           |               | TIME REFERENCE<br><br>ZONE<br><u>Eastern</u><br><br>MERIDIAN<br><u>60th &amp; 75th</u>           |                  |
| TIDE STAGE REFERENCE<br><br><input type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY   |          |  |               | <input checked="" type="checkbox"/> STANDARD<br><br><input checked="" type="checkbox"/> DAYLIGHT |                  |
| NUMBER AND TYPE   | DATE     | TIME   | SCALE         | STAGE OF TIDE  |                  |
| 69E(R)4299-4251   | 12/11/69 | 12:35  | 1:40,000      | Inapplicable<br>* -0.01 MWL  |                  |
| 69L3467R - 3470R  | 8/25/69  | 19:05  | 1:25,000      |  |                  |
| REMARKS<br><br>*Titusville Indian River Tide Station  |          |  |               |  |                  |
| 2. SOURCE OF MEAN HIGH-WATER LINE:<br>The mean water-level line was mapped in lieu of the mean high-water line(refer to the Record of Decisions bound with this report). The source of the mean water-level line is the 1969, <sup>tide board, noted black and white</sup> infrared photography listed under item 1. This map was field edited June 1971. |          |  |               |  |                  |
| 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:<br><br>There is no mean low-water=line shown on this map. The mean high-water and mean low-water datums converge and are indistinguishable for mapping purposes (refer to the Record of Decisions Bound with this report).  |          |  |               |  |                  |
| 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)   |          |  |               |  |                  |
| SURVEY NUMBER   | DATE(S)  | SURVEY COPY USED   | SURVEY NUMBER | DATE(S)  | SURVEY COPY USED |
|   |          |  |               |  |                  |
| 5. FINAL JUNCTIONS  |          |  |               |  |                  |
| NORTH   | EAST     | SOUTH  | WEST          |  |                  |
| TP-00113  | TP-00135 | TP-00137   | TP-00133      |  |                  |
| REMARKS<br>Junctions were made in the Coastal Mapping Section.  |          |  |               |  |                  |

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

TP-00134

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION \* ☒ FIELD EDIT OPERATION June 1971

| OPERATION                           | NAME  | DATE                |
|-------------------------------------|---|---------------------|
| 1. CHIEF OF FIELD PARTY             | W.H. Shearouse  | 6/71                |
| 2. HORIZONTAL CONTROL               | RECOVERED BY W.H. Shearouse   | 1/71                |
|                                     | ESTABLISHED BY None   |                     |
|                                     | PRE-MARKED OR IDENTIFIED BY None  |                     |
| 3. VERTICAL CONTROL                 | RECOVERED BY W.H. Shearouse   | 1/71                |
|                                     | ESTABLISHED BY Inapplicable   |                     |
|                                     | PRE-MARKED OR IDENTIFIED BY W.H. Shearouse  | 6/71                |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None  |                     |
|                                     | LOCATED (Field Methods) BY W.H. Shearouse   | 6/71                |
|                                     | IDENTIFIED BY None  |                     |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY<br><input type="checkbox"/> NO INVESTIGATION | W.H. Shearouse 6/71 |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY W.H. Shearouse  | 6/71                |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY Inapplicable  |                     |

## II. SOURCE DATA

| 1. HORIZONTAL CONTROL IDENTIFIED |                                  | 2. VERTICAL CONTROL IDENTIFIED |  |
|----------------------------------|----------------------------------|--------------------------------|--|
| PHOTO NUMBER                     | STATION NAME                     | PHOTO NUMBER                   | STATION DESIGNATION  |
|                                  | Refer to field inspection report | 70L7725                        | S208,R208,Reset 1965,<br>Courtney AZ.Reset 1965<br>Y207,A208 |
|                                  |                                  | 70L7552                        | Courtney, P207,V207  |
|                                  |                                  | 70L7551                        | S207,T207  |

## 3. PHOTO NUMBERS (Clarification of details)

69E4249,4250,and 4251

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

There are no landmarks on this map. The aids to navigation were located or verified by sextant fix and plotted on the field edit sheet and photo

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
|              |             |              | 69E4251     |

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

## 7. SUPPLEMENTAL MAPS AND PLANS

None

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

Sketchbook Vol#3 (covers TP-00133 and TP-00134)

\* Refer to Field Inspection Report bound with this report.

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

TP-00134

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

| COMPILATION STAGES   |      |         | DATE MANUSCRIPT FORWARDED |               |
|--|------|---------|---------------------------|---------------|
| DATA COMPILED  | DATE | REMARKS | MARINE CHARTS             | HYDRO SUPPORT |
|  |      |         |                           |               |
| No copies of this map were furnished to Nautical Charts prior to Final Review. |      |         |                           |               |
|  |      |         |                           |               |
|  |      |         |                           |               |

## 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  |
|--------|---------------------------------|-------------------|--|
| 1      | 595 74                          | 5/23/74           | Final. One report was submitted for map TP-00134 |
|        |                                 |                   |  |
|        |                                 |                   |  |
|        |                                 |                   |  |
|        |                                 |                   |  |
|        |                                 |                   |  |

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 5/23/74
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

|                |                                 |                          |   |
|----------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER<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 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 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       |   |

Record of Decisions  
Pertaining to Symbolization of the MWL Datum  
Map TP-00134

Shoreline Delineation

This map does not extend to the Atlantic Ocean. The water area it covers is a portion of Indian River. The datum was established by observations at the Williams Point Indian River Tide Station, situated just west of this map.

The periodic tide for this section of Indian River was masked by nontidal forces and the mean range was less than two-tenths of a foot. In this situation, the mean high/low-water datums converge and, for mapping purposes, the mean high- and mean low-water lines are indistinguishable. As a consequence, special treatment was given to the portrayal of the shoreline of the interior waters on this map; the mean water-level line was mapped in lieu of the mean high-water line and shown by a distinctive symbol, except in areas where there are manmade features such as bulkheads which were portrayed by a solid line, or where vegetation such as mangrove obscures the shoreline and then the apparent shoreline symbol was used.

\* Decision Responsibility for Shoreline Symbolization

Specific decisions as to the symbolization for mapping the mean water-level line, apparent shoreline and solid lines for along-shore manmade features were made January 10, 1973, in Rockville, Maryland, by competent technical officials of National Ocean Survey. Cdr. Wesley V. Hull, Chief, Coastal Mapping Division, provided the technical field survey and cartographic expertise and Mr. Carroll I Thurlow, Chief, Tidal Datum Planes Section, rendered decisions on datum matters.

They also examined photographs and field edit reports with respect to inland penetration of small streams and drainages; and concluded that those features were properly delineated and symbolized on the map. It was also noted that the inland extent of field inspection of the shoreline, up small creeks and drainages, was properly shown on the map; it is indicated on the map where the red shoreline symbolization abruptly terminates, but joins the continuing photomosaic portrayal of the shoreline.

Archiving

A copy of this report shall be included in Descriptive Report TP-00134 which will be permanently filed in the Bureau archives.

\* See Review Report for clarification of date.



Official Mileage  
for Cost Accounts

Sheet No. - Area Sq. Mi.

TP-00133 3  
00134 3  
00135 6  
00136 4  
00137 10  
00138 5  
00139 6  
00140 4  
00141 6  
00142 6  
00143 10  
00144 2  
00145 4  
00146 7  
00147 6  
00148 1  
00149 2  
00150 5  
00151 4  
00152 4

JOB PH-6910

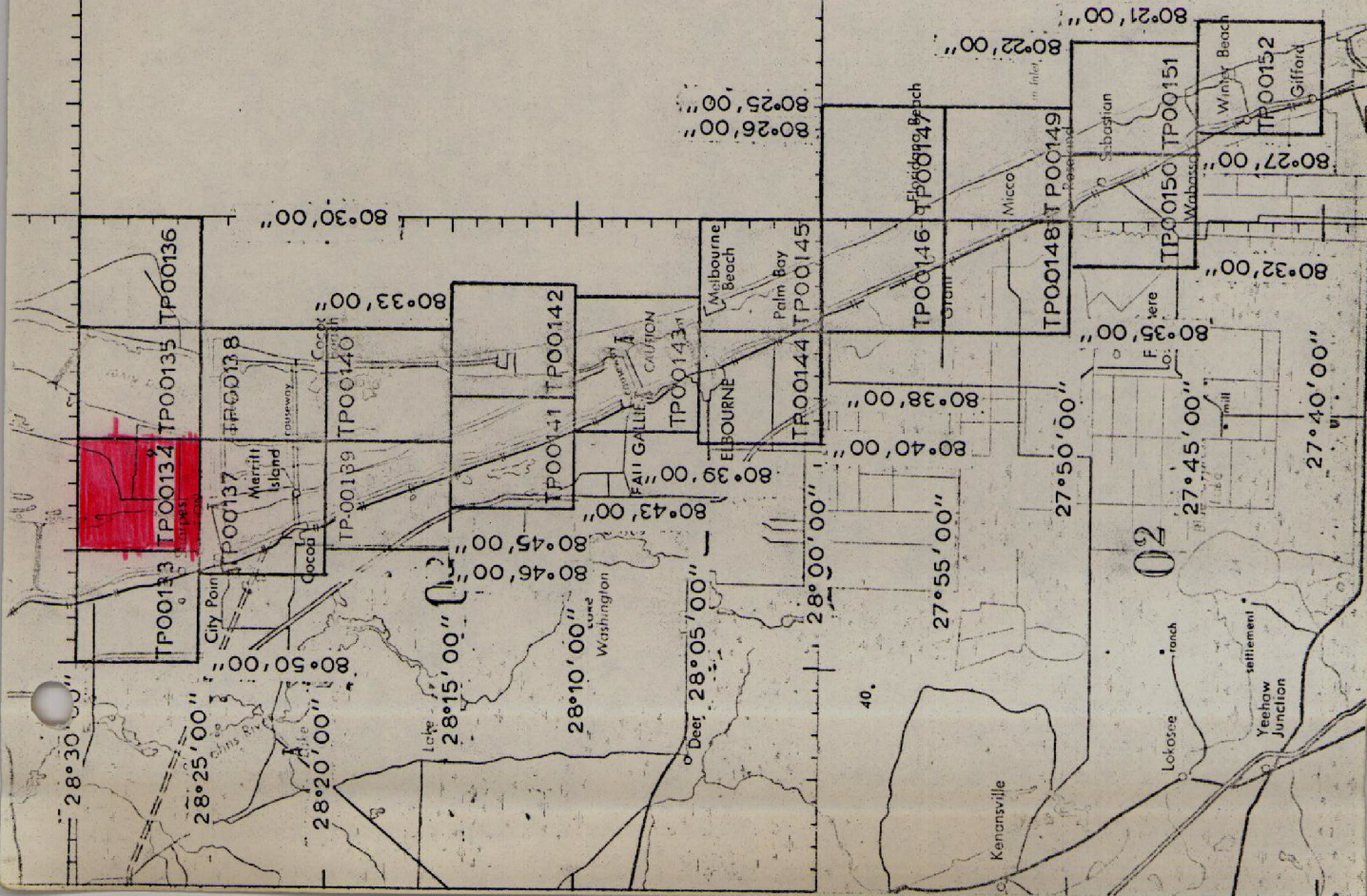
PART 1

CAPE KENNEDY TO JUPITER INLET  
FLORIDA

SHORELINE MAPPING

SCALE 10,000

02





SUMMARY  
TP-00133 thru TP-00152

Coastal Zone Map TP-00134 is one of twenty (20) similar maps in project PH-6910, Part I. The layout of sheets (page 6 of this report) will show its location. These maps are intended for planning purposes by the State of Florida and for the compilation of NOS Nautical Charts.

The area is covered by aerial photography taken in 1969 and 1970 on color and black and white infrared film. The infrared film was tide coordinated.

Field operations consisted of the establishment of tidal datums, control recovery, pre-marking of control, and field edit. Data for the compilation of tide stations and tidal bench marks were furnished by the Tidal Datum Planes Section. Condensed descriptions of both tidal and geodetic bench marks shown on this map were furnished by the Coastal Surveys Section.

Horizontal control was extended by analytical aerotriangulation methods using the stereo comparator. This provided control for the orthophoto mosaic and compilation.

Shoreline and alongshore features were compiled from tide-coordinated black and white infrared photography using a stereo plotter and graphic methods. The interior of the maps are depicted by an orthophoto mosaic.

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

Explanatory notes relating to datum determinations approved by a special ad hoc committee are shown on the reverse side of the maps.

All maps are published by the NOS and were printed in three colors by the Reproduction Division. A special registration copy was prepared to meet the requirements for Nautical Charts. This registration copy shows additional offshore details not shown on the published map and will be noted "Registration Copy" under the title block.



The following items will be registered in the Bureau Archives:

1. A plastic copy of the published map (1:10,000 scale).
2. A stable base positive of the registration copy (1:10,000 scale).
3. The Descriptive Report.

All negatives will be filed with the Reproduction Division.

All field data such as Forms 152, field edit photographs, profiles, field edit ozalids, etc., are filed in the Federal Records Center.

FIELD REPORT  
PREMARKING HORIZONTAL CONTROL  
JOB PH-6910, CAPE KENNEDY TO JUPITER INLET, FLORIDA

In accordance with Instructions - FIELD - Supplement I, Job PH-6910; Coastal Boundary Mapping, Cape Kennedy to Jupiter Inlet, Florida, twenty-two horizontal control stations were recovered and paneled in accordance with practices in use at this time. All stations were premarked for 1:40,000 scale photography.

White polyethylene plastic sheeting was used for all but 2 stations. Sketches on the CSI cards show the pattern used in each instance but most stations were paneled with a 5-ft. square target placed directly over the station mark and 3 runner-type wing panels 3.5/4' X 20' approximating 120° angles around the square.

TRIPOD 3, 1963 and WHITE 2, 1966 were premarked with black plastic, the center panel being 10' X 10' and the wing panels 8' X 20'. The ground surface at these 2 locations was considered too white for the white targets to be seen, hence the use of black material.

In addition to the sketches shown on the CSI cards the station locations have been spotted on USGS Quadrangle maps which are transmitted as part of the job data.

A recap, showing the stations as numbered on the job control diagram, the TP-map number and the quadrangle map on which it falls, follows:

| STATION<br>No. | NAME            | MAP NO.       | USGS QUADRANGLE |
|----------------|-----------------|---------------|-----------------|
| 1              | CENTRAL         | 1950 TP-00136 | CAPE CANAVERAL  |
| 2              | ARTESIA         | 1953 "        | " "             |
| 3              | POSE            | 1966 TP-00138 | COCOA BEACH     |
| 4              | MUNSON          | 1940 TP-00139 | " "             |
| 5              | PATRICK N. BASE | 1960 TP-00140 | " "             |
| 6              | TRIPOD 3        | 1963 TP-00142 | TROPIC          |
| 7              | COLLEGE 2       | 1934 TP-00143 | "               |
| 8              | TURKEY CREEK    | 1934 TP-00144 | MELBOURNE EAST  |
| 9              | VALKARIA        | 1966 TP-00146 | GRANT           |
| 10             | SLIP 2          | 1934 TP-00149 | SEBASTIAN NW    |
| 11             | SEBASTIAN 2     | 1934 TP-00150 | SEBASTIAN       |
| 12             | SCORPION 2      | 1961 TP-00153 | VERO BEACH      |
| 13             | RICMAR 2        | 1960 TP-00154 | INDRIO          |
| 14             | PIERCE 2        | 1963 TP-00155 | FORT PIERCE     |
| 15             | WHITE 2         | 1966 TP-00156 | " "             |

| STATION<br>NO. | NAME            |      | MAP NO.              | USGS QUADRANGLE |
|----------------|-----------------|------|----------------------|-----------------|
| 16             | WALTON          | 1930 | TP-00157             | ANKONA          |
| 17             | REFUGE 2 RM # 4 | 1967 | TP-00160             | ST. LUCIE INLET |
| 18             | SEWALL          | 1934 | TP-00159             | " " "           |
| 19             | PINE            | 1929 | TP-00162             | GOOMEZ          |
| 20             | CISTERN         | 1956 | TP-00163             | HOEE SOUND      |
| 21             | RADAR           | 1954 | TP-00164             | JUPITER         |
| 22             | GOLF RM # 1     | 1934 | South of<br>TP-00164 | RIVIERA BEACH   |

Targets were visited after photography and found to be in good condition. No center panels were damaged except GOLF RM 1 and it was only slightly torn on its north edge. Images of all targets should be visible on the photographs.

Submitted 2/24/70

*William H. Shearouse*  
William H. Shearouse  
Chief, Photo Party 60

Photogrammetric Plot Report  
Cape Kennedy to Jupiter Inlet, Florida (Part 1)  
Job PH-6910  
April, 1971

21. Area Covered

This report covers the area south from Cape Kennedy to an area about eight miles north of Fort Pierce Inlet. The job consists of twenty one (21) 1:10,000 scale sheets, TP-00133 thru TP-00153.

22. Method

Six (6) strips of photographs were bridged using analytical aerotriangulation methods. Strip 23 proved inadequate for bridging. Strip 23A, therefore, was flown at a later date farther west in order to include more land area to strengthen the photogrammetry. A cross flight, 24, was also flown at this time to include the cape area. Ties were made between strips. Points were located to rectify the photographs for mosaics. In addition, points were located to ratio high and low water photography. The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustment. Closures to control have been shown on the readouts. All bridge points have been plotted on the Coradimat on Florida East Zone plane coordinates.

23. Adequacy of Control

Horizontal control that fell on strips 21A, 22, 25, and 26 was premarked. Strips 23A and 24 were flown at a later date, and all control that fell on these two strips were transferred from the earlier pre-marked photography. It is noted that stations SCORPOIN 2, 1961 and RIOMAR 2, 1960 (terminal for Strip 26) do not appear on the attached sketch, as these stations are on or south of TP-00153. The control was adequate for bridging all strips.

25. Photography

All photography the subject of this report is 1:40,000 scale color as follows:

Strip 21A -- 69-E(C)-4247 thru 4261  
Strip 22 -- 69-E(C)-4185 thru 4194

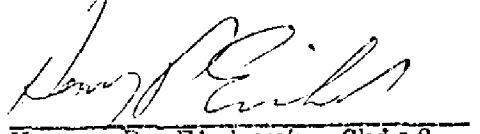
Strip 23A -- 70-L(C)-9991A thru 004A  
Strip 24 -- 70-L(C)-007A thru 015A  
Strip 25 -- ~~7068~~-E(C)-5760 thru 5768  
Strip 26 --- 70-E(C)-5772 thru 5794

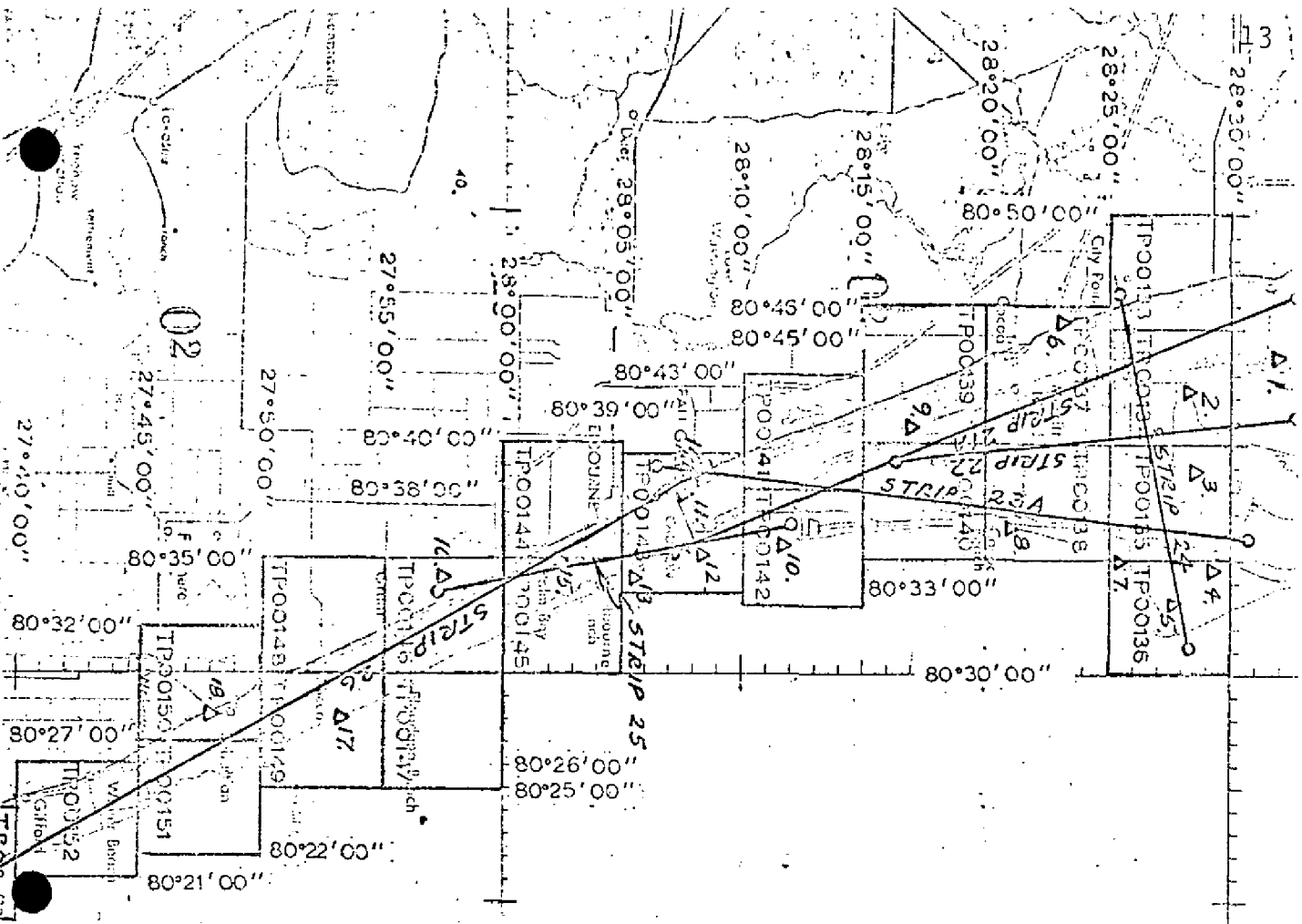
The definition and quality of the photography were good.

Respectfully submitted:

  
I. I. Saperstein

Approved and forwarded:

  
Henry P. Eichert, Chief  
Aerotriangulation Section



# Control

1. Moore RM 2, 1965
2. Courtenay, 1953
3. Paxton, 1960
4. Central, 1950
5. Cape Canaveral L. H. Center, 1954
6. Cocoa City 2, 1957
7. Artesia, 1955
8. Pose, 1965
9. Munson, 1940
10. Tripod 3, 1963
11. College 2, 1906
12. Canova Beach Melbourne Inlet, N.Y. 1960
13. Indiantiole Melbourne E. Inlet, N.Y. 1960
14. Eau Gallie Inlet, N.Y. Center, 1954
15. Turkey Creek, 1954
16. Slip 2, 1954
17. Sebastian 2, 1954

- ▲ Horizontal control used in adjustment
- △ Horizontal control used as check
- 1:40,000 scale color photography

JOB PH-6910

PART 1

CAPE KENNEDY TO JUPITER INLET  
FLORIDA

SHORELINE MAPPING  
SCALE 1:100,000



## FLORIDA - NOAA Coastal Boundary Mapping Program

14

Horizontal Control

Map TP-00134

| Station         | NOS Geodetic Data Reference for<br>Description, Positions, Coordinates<br>and Azimuths                   |
|-----------------|--|
| COURTENAY, 1953 | Distribution of data is restricted. Write<br>the Director, National Geodetic Survey,<br>for information. |
| PORCHER, 1940   | Book 419, pp. 11, 26 G.P. Fla Vol. 1,<br>p. 551, P.C. Fla. E. Zone, p. 142.                              |
| LOCKETT, 1940   | Book 419, pp. 12, 32, G.P. Fla. Vol. 1,<br>p. 551, P.C. Fla. E. Zone, p. 142.                            |
| SANDERS, 1876   | Book 419, pp. 11, 12, 31, G.P. Fla. Vol. 1,<br>p. 555, P.C. Fla. E. Zone, p. 144.                        |

Compilation Report  
TP-00134

31. Delineation

The land area of this map is shown by an orthophoto mosaic. The orthophoto mosaic was assembled with black and white rectified prints from the color photography. The mosaic was controlled by image points determined by aerotriangulation.

The shoreline (mean water-level and apparent lines) and offshore features were compiled from office interpreted tide-coordinated <sup>black and white</sup> infrared photography. This infrared photography was controlled by detail common to the color photography and map points compiled from stereoscopic models of the color photography set on the Wild B-8 stereoplotter. In addition, culture features, the limits of shallow and shoal areas and aids to navigation visible on the photography were located for Nautical Charts.

32. Horizontal Control

Refer to the photogrammetric plot report which is a part of this Descriptive Report.

33. Supplemental Data

None.

34. Contours and Drainage

Contours are inapplicable. Drainage is shown by the orthophoto mosaic.

35. Shoreline and Alongshore Detail

The infrared photography was adequate for the delineation of the mean water-level and apparent lines. Culture features and alongshore details were compiled from the interpretation of the rectified prints of the color photography.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids to Navigation

There are no charted landmarks on this map. The images of charted objects visible on the photography were located during compilation. Chartist objects not visible on the photography will be located by the field editor.

38. Control for Future Surveys

None.

2

39. Junctions

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

40. Horizontal Accuracy

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

41 thru 45. Inapplicable46. Comparison with Existing Maps

Comparison was made with USGS quadrangle Courtenay, Fla., scale 1:24,000, edition of 1949, contour intervals 5 feet.

47. Comparison with Nautical Charts

Comparison was made with Nautical Chart 843-SC scale 1:40,000, 8th edition, August 8, 1970.

Items to be Applied to Nautical Charts Immediately: None.

Items to be Carried Forward: None.

Respectfully submitted;

*John C. Richter (JB)*  
John C. Richter  
Carto(Photo)

Approved and forwarded:

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

Field Edit Report, Map TP-00134, Job PH-6910

51. METHODS

This covers the eastern shore of the Indian River and the shoreline delineation was visually verified from a small boat while cruising near shore. Notes were made regarding "apparent" and "fast" shoreline. No major inadequacies were noted.

There are no landmarks for charts recommended.

Nonfloating aids to navigation were located by sextant fix and plotted on the FIELD EDIT SHEET or rectified photograph. Form 76-40 is submitted.

All known triangulation stations were searched for and reported on Form 526.

Geodetic bench marks were recovered and identified on contact photographs. Forms 685A for these, the Forms 526 and contact photos were submitted to Rockville in April 1970.

Field edit notes will be found on the rectified photographs, the Discrepancy Print and the FIELD EDIT SHEET.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

2.

56. GEOGRAPHIC NAMES

A complete geographic names investigation was not required but no conflicts came to light during the course of the work.

Submitted June 17, 1971

*William H. Shearouse*

William H. Shearouse  
Chief, Photo Party 60

Review Report TP-00134  
Coastal Zone Map  
January 1974

61. General

A detailed review of this map and its related records was made in the Coastal Mapping Section prior to its proof stage. The proof copy of this map was edited by the Quality Control Group prior to printing and distribution. The edit comprised of a careful inspection of map details to verify the accuracy of reproduction.

The following major parts in the preparation of this map have been examined by the Quality Control Group and are adequate:

1. Field Operations
2. Extension of control
3. Compilation
4. Descriptive Report

The shoreline on this map was symbolized in accordance with ongoing decisions set forth by officials of the National Ocean Survey. These decisions, however, were formalized and documented at the later date reflected in the Record of Decisions.

Refer to paragraph 62 for spoil bank interpretation.

62. Registration Copy

The special Registration Copy of this map was prepared and checked by the Coastal Mapping Section. This Registration Copy shows "shallow" and "shoal" areas for Marine Chart use that are not shown on the published map.

A portion of some of the spoil banks on this map were office interpreted and are shown to "bare" at the mean water-level datum. The field editor reported that the spoil banks do not "uncover". Since the mean range of tide for this section of the Indian River is less than 0.2 feet, it is recommended that the portion of these features shown as "bare" be charted with a green tint without a limit line along with the shallow line presently shown on the map. The following are the approximate locations of the spoil banks:

- 'Three(3) spoil banks between latitudes 28°25' and 28°26'.
- One (1) spoil bank latitude 28°25' and longitude 88°44'.

63. thru 64. Inapplicable.



## 65. Cartographic Comparison

A comparison was made with this map (TP-00134) and the following USGS quadrangle and Nautical Chart:

Courtenay, Florida, 1:24,000 scale, 1949 photorevised 1970

The following differences were noted:

1. The quadrangle does not show overhead power cable extending from Pine Island west over the Indian River to the west map limits (approximate latitude 28°29').

2. The published map (TP-00134) does not show piling latitude 28°28.2' and longitude 80°44.6'. No mention of these piling was made by the field editor.

3. The published map (TP-00134) does not show piling and daybeacons east shore Indian River at Courtenay. No mention was made by the field editor.

Nautical Chart 843-SC, 1:40,000 scale, 11th edition,  
dated August 25, 1973


The following difference was noted:

1. The published map (TP-00134) does not show piling and submerged piling in the vicinity of the islands offshore and south of Courtenay. No mention of these piling was made by the field editor.

## 66. Adequacy of Results and Future Surveys

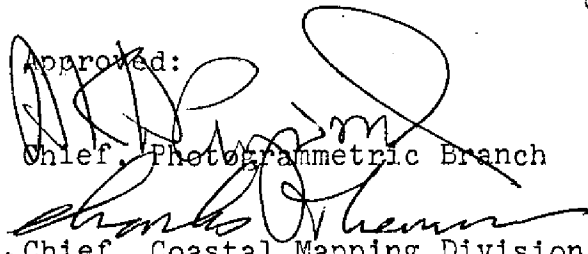
Coastal Zone Map TP-00134 complies with the project instructions for NOS Cooperative Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,

  
Donald M. Brant

Approved:

  
Chief, Photogrammetric Branch

  
Chief, Coastal Mapping Division

Feb. 9, 1973

GEOGRAPHIC NAMES  
FINAL NAMES SHEET  
Ph-6910 N (Florida)

TP-00134

Courtenay

Indian River

Intracoastal Waterway Not shown on map

John F. Kennedy Space Center (NASA) Not shown on map

Merritt Island

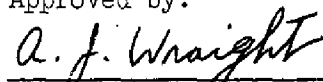
Pine Island

Pine Island Creek

Sams Creek Not shown on map

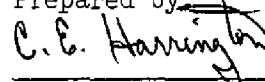
Sykes Creek

Approved by:



A. J. Wraight  
Chief Geographer

Prepared by:



C. E. Harrington  
Cartographer

| U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION                              |   |                      |       |                  |       |  |                              |                  |  |
|--|---|----------------------|-------|------------------|-------|--|------------------------------|------------------|--|
| NONFLOATING AIDS OR LANDMARKS FOR CHARTS   |   |                      |       |                  |       |  |                              |                  |  |
| NOAA FORM 76-40<br>(2-71)<br>PRESCRIBED BY<br>PHOTOGRAMMETRY INSTRUCTION NO. 64.                         |   | ORIGINATING LOCATION |       | DATE             |       | ORIGINATING ACTIVITY   |                              |                  |  |
| TO BE CHARTED<br><input checked="" type="checkbox"/> TO BE DELETED                                       |   | Rockville, Maryland  |       | 1/23/74          |       | <input type="checkbox"/> FIELD INSPECTION<br><input type="checkbox"/> FIELD EDIT<br><input type="checkbox"/> COMPILATION<br><input type="checkbox"/> FINAL REVIEW<br><input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW<br>(See reverse for responsible personnel) |                              |                  |  |
| The following objects have (have not) been inspected from seaward to determine their value as landmarks: |   | SURVEY NUMBER        |       | DATUM            |       | METHOD AND DATE OF LOCATION<br>(See instructions on reverse of this form)  |                              |                  |  |
| JOB NUMBER<br>PH-6910  |   | T -<br>TP- 00134     |       | HA 1927          |       |  |                              |                  |  |
| STATE: Florida   |   | POSITION             |       | LATITUDE         |       | LONGITUDE  |                              | FIELD INSPECTION |  |
| CHARTING NAME  |   | DESCRIPTION          |       | D.M. METERS      |       | D.M. METERS  |                              | FIELD EDIT       |  |
| CHARTS AFFECTED  |   | COMPILATION          |       | FIELD INSPECTION |       | FIELD EDIT   |                              | CHARTS AFFECTED  |  |
| LIGHT  | Mosquito Lagoon-Eau Gallie Indian River (North Section) | 28 27                | 23.7  | 80 44            | 56.7  | 69E4250<br>11Dec69   | Verif.<br>6/10/71<br>69E4250 | 843-SC           |  |
| DYBN   | Daybeacon 60  | 28 27                | 23.1  | 80 44            | 59.2  |  | P.4<br>6/10/71<br>69E4250    | "                |  |
| DYBN   | Daybeacon 62  | 28 26                | 50.3  | 80 44            | 51.0  |  | P.4<br>6/10/71<br>69E4250    | "                |  |
| DYBN   | Daybeacon 63  | 28 26                | 22.9  | 80 44            | 40.9  |  | P.4<br>6/10/71<br>69E4250    | "                |  |
| LIGHT  | Light 64  | 28 25                | 46.4  | 80 44            | 33.4  | 69E4251  | Verif.<br>6/10/71<br>69E4251 | "                |  |
| DYBN   | Daybeacon 65  | 28 25                | 20.7  | 80 44            | 23.8  | 12/11/69   | P.4<br>6/10/71<br>69E4251    | "                |  |
|  |   |                      | 637.0 |                  | 649.0 |  |                              |                  |  |
|  |   |                      |       |                  |       |  |                              |                  |  |
|  |   |                      |       |                  |       |  |                              |                  |  |
|  |   |                      |       |                  |       |  |                              |                  |  |

| RESPONSIBLE PERSONNEL   |                                       | TITLE   |
|---|---------------------------------------|---|
| TYPE OF ACTION  | NAME                                  |   |
| 1. Objects inspected from seaward   | W.H. Shearouse                        | <input type="checkbox"/> FIELD INSPECTOR<br><input checked="" type="checkbox"/> FIELD EDITOR                    |
| 2. Positions determined and/or verified   | W.H. Shearouse                        | FIELD INSPECTOR   |
|   | J.C. Richter                          | FIELD EDITOR  |
| 3. Forms originated by Quality Control and Review Group and final review activities | Copy checked after typing<br>D. Brant | COMPILER<br><br>REVIEWER<br><input checked="" type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE |

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods.  
'Field Positions' are determined by field observations based entirely upon ground control.

COLUMN TITLE

TYPE OF ENTRIES

COMPILATION

Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.

FIELD INSPECTION

AND

FIELD EDIT

1. New Position Determined—Enter the applicable data by symbols as indicated below:

F — Field

P — Photogrammetric

EXAMPLES:

1. Triangulation

1. Field identified

2. Traverse

2. Theodolite

F. 3.c

3. Intersection

3. Planetable

4. Resection

4. Sextant

P. 2

a. Theodolite

b. Planetable

c. Sextant

Immediately beneath the data described above, enter the following:

a. For 'Field Positions' enter the date of location.

b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

2. Triangulation Station Recovered — Enter 'Triang. Rec. mo/day/yr.'

3. Position Verified — Enter 'Verif. mo/day/yr.'

TP-00134  
Data Forwarded to Federal Records Center

1 Field Edit Sheet

1 Discrepancy Print

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

1 Form 76-40 (Landmarks and Aids to Navigation)

Photographs:

70L7551 thru 7555 (Contact scale)

70L7723 thru 7726 (Contact scale)