**DESCRIPTIVE REPORT**

**Type of Survey**  Shoreline

**Field No.** T-13107 **Office No.**

**LOCALITY**

**State** Florida

**General locality** Florida Coast

**Locality** Garfield Point to Prang Is.

**1966-68**

**CHIEF OF PARTY**

**LIBRARY & ARCHIVES**

**DATE**
DESCRIPTIVE REPORT - DATA RECORD

PROJECT NO. (III):
PH-6710

FIELD OFFICE (III):
CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):
OFFICER-IN-CHARGE

Washington Science Center
V. Ralph Sobieralski

INSTRUCTIONS DATED (III) (III):
Office: April 6, 1967; April 27, 1967

METHOD OF COMPILATION (III):

Stereoscopic - B-8 Stereoplottter

MANUSCRIPT SCALE (III):
STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:20,000
20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):
DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:
DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERIMENT DATUM (III):
MEAN SEA LEVEL EXCEPT AS FOLLOWS:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

REFERENCE STATION (III):
RIOMAR 2, 1960

LAT.: 
LONG.: 
ADJUSTED
UNADJUSTED

PLANE COORDINATES (IV):

1,178,513.89 x = 717,268.92
Florida

STATE
ZONE

Roman numerals indicate whether the item is to be entered by (III) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.
When entering names of personnel on this record give the surname and initials, not initials only.
**DESCRIPTIVE REPORT - DATA RECORD**

**T-13107**

<table>
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<tr>
<th>Field Inspection by (III):</th>
<th>DATE:</th>
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<tbody>
<tr>
<td>None (see remarks)</td>
<td>Sept-Oct 1966</td>
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**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

Office interpretation Nov. 1966-Feb. 1967

*Note: Infrared photographs - taken at mean high water tide stage - refer to page 3 (photographs & tide sections)*

*Mean high water line was field edited (field edit report - page 15)*

**PROJECTION AND GRIDS RULED BY (IV):**

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**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

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**SCRIBING BY (III):**

|                     | DATE       |
|                     |            |

**PHOTOGRAFMETRIC OFFICE REVIEW BY (III):**

<table>
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<th>J. P. Battley, Jr.</th>
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**REMARKS:**

Field Edit by:

R. S. Tibbetts - May 1968
### PHOTOGRAPHS (III)

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<tr>
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<tr>
<td>66-L-8743-8746</td>
<td>11-26-66</td>
<td>9:58</td>
<td>1:40,000</td>
<td>1.6' above MLW*</td>
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<tr>
<td>67-S-8255R-8257R</td>
<td>2-24-67</td>
<td>9:06</td>
<td>1:40,000</td>
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*Based on predicted tides

### TIDE (III)

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<th>SPRING RANGE</th>
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<tr>
<td>REFERENCE STATION:</td>
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<td>Miami Harbor Entrance</td>
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<tr>
<td>BORDINATE STATION:</td>
<td></td>
<td>Pt. Pierce Inlet (breakwater)</td>
<td>2.6</td>
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</tbody>
</table>

### REMARKS:

WASHINGTON OFFICE REVIEW BY (IV): **J. P. Battley**

DATE: **Sept. 1968**

PROOF EDIT BY (IV): **May 1969**

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): **4**

RECOVERED: **4**

IDENTIFIED: **4**

NUMBER OF BM(S) SEARCHED FOR (III): **4**

RECOVERED: **4**

IDENTIFIED: **4**

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): **4**

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): **4**
Summary to Accompany Descriptive Report
T-13100 through T-13117, T-13141 and
T-13218

PH-6710
December 1969

This project is comprised of thirteen shoreline manuscripts compiled at 1:20,000 scale, (T-13100 through T-13112), four manuscripts compiled at 1:10,000 scale, (T-13113 through T-13115) and three 1:5,000 scale manuscripts, (T-13116 through T-13117). The area covered is the east coast of Florida from Cape Kennedy to just south of Jupiter Inlet. The maps were compiled as a base for hydrographic survey operations and to update marine charts of the area. Two manuscripts, (T-13218 and T-13141) were added to the project after hydro operations were begun and are discussed in this summary.

Field inspection was accomplished during Sept.--Oct. 1966 and was limited to the recovery and premarking of control.

The project area was flown in November 1966. Infrared and color photography was taken.

Stereoplanigraph bridging of the color photography was begun in April 1967 and continued through October 1967. To support hydrographic survey operations, the bridging data was supplied the Washington compilation section as each of nine strips were bridged. Strips #2 through #8 were bridged by stereoplanigraph methods. Strip #1 was bridged analytically. All bridging photography was 1:40,000 scale. Some difficulty was experienced in bridging the project area - (see the Plot Report for details).

The manuscripts were compiled as bridging was received from April 1967 through February 1968. Ratio photographs were prepared in the usual manner for photo-hydro support use. The photographs prepared were both infrared and color. The field ratio prints, cronaflex copies of the manuscripts and discrepancy ozalids were sent to the field, as completed, to expedite hydro activities. Two new manuscripts were added to the project after hydro operations were begun to develop
more of the Loxahatchee River which empties into Jupiter Inlet (T-131141, 1:10,000 scale), and T-13218, 1:5,000 scale to further develop the Ft. Pierce harbor area. This accounts for compilation activities extending to June 1968. In the area of the 1:10,000 scale manuscripts - 1967 1:30,000 scale color and infrared photography was available for compilation. In the area of the two 1:5,000 scale manuscripts (T-131116 and T-131117), 1:15,000 scale color photographs were available. T-13218 (1:5,000 scale) was compiled at 1:10,000 scale on the B-8 stereoplotter from 1:40,000 scale photography and then enlarged to 1:5,000 for a hydro support manuscript. This manuscript is thus considered somewhat substandard in accuracy. All compilation was achieved on the B-8 stereoplotter.

Field edit operations were begun in November 1967 and were completed in 1968. To resolve some landmark and aid problems, provide hydro support, and to further clarify differences in compiled features for Marine Charts, additional field work was accomplished in February 1969. Field edit operations required the location of most of the daybeacons throughout the project area and verification of compiled features.

The application of field edit corrections and/or additions was accomplished in the Washington compilation office as received from the field with some interruption for higher priority projects. Field edit application and final review was completed in November 1969. As field edit corrections were applied to each T-sheet and checked for completeness, a cronaflex copy was ordered for the Marine Chart Division. Hydro verification was being accomplished at the same time of final review and close liaison was maintained between sections.

A Registration Manuscript Copy will be registered in the Bureau Archives under their respective T-numbers.

Submitted by,

J. P. Battley, Jr.

J. P. Battley, Jr.
PHOTOGRAMMETRIC PLOT REPORT
Job PH-5710
Cape Kennedy to Jupiter Inlet, Florida

October 27, 1967

21. Area Covered

This report covers the bridging of the Florida east coast from Cape Kennedy to Jupiter Inlet. Included in this area are T-sheets T-13100 thru T-13112 at 1:20,000 scale, T-13113 thru T-13115 and T-13141 at 1:10,000 scale and T-13116, T-13117 and T-13218 at 1:5,000 scale.

22. Method

Eight strips were bridged by stereoplanigraph methods and one strip (Strip #1) by STK methods. All were adjusted by the IBM 1620 method. Strip #1 (66-L(C)-8716 thru 8731) was bridged holding six stations as control and three stations plus tie points as checks. Strip #1-C (66-L(C)-8708 thru 8716) was adjusted holding five control stations with two stations as checks. Strip #2 (66-L-8822 thru 8832) was adjusted on four stations. Strip #3 (66-L(C)-8696 thru 8702) was adjusted on four stations with tie points as checks. Strip #4 (66-L(C)-8738 thru 8748) was adjusted on four stations with tie points as checks. Strip #5 (66-L(C)-8768 thru 8799) was adjusted on five stations with two stations and tie points as checks. Strip #6 (66-L(C)-8782 thru 8797) was adjusted on five control stations with tie points as checks. Strip #7 (66-L(C)-8773 thru 8779) was adjusted on three stations. Strip #8 (66-L(C)-8804 thru 8821) was adjusted on three stations with tie points as checks.

All plates were drilled by the PUG method. Tie points between strips were averaged.

23. Adequacy of Control

Horizontal control complied with project instructions. Most of the control stations were premarked with additional substations selected on color photos taken with a hand-held camera. These photos were used before the strip photography was available. Many of the images selected on the hand-held photographs could not be determined on the strip photography. In some cases the premarked stations could not be seen clearly in the strip photography.
Stations which could not be held within National Map Accuracy Standards and the probable reasons for the source of error are as follows:

**STRIP #1**

| BET, 1967, SS "A" and SS "B" - Could not be clearly seen on the 1:40,000 scale photography. |
| POLE (TEMP), BASE PT. "C", 1967, Panel, SS "A" and SS "B" - The positions of this station and its substations were determined by a short baseline method. With the small angle involved and the evidence of bridging residuals, this station was treated as a passpoint between Strips #1 and #8. |
| PIERCE 2, 1963 - Only the 1:40,000 scale target was considered as a good point in Strip #1. All other substations were dropped from the adjustment. |

**STRIP #2**

| RADAR, 1955, SS "A" was a very poor image point on this strip and was dropped from the adjustment. |

**STRIP #5**

| VALKARIA, 1960 (Target) and TURKEY CREEK, 1877 (Target) gave large residuals in the adjustment phase and were dropped. The substations for these stations were used in place of the targets and showed good residuals in the adjustment. |

**STRIP #6**

| TRIPOD 3, 1963, SS "A" - No reason could be determined for this substation not holding in the adjustment. It was dropped from the bridge. |

**STRIP #7**

| ARTESIA, 1953, SS "A" - No reason could be determined for the error in this station. Since two companion points held, the substation was dropped. |

**STRIP #8**

| POLE (TEMP), BASE PT. "C", 1967 - See note under Strip #1. |

24. Supplemental Data

Local USGS quads were used for elevations during bridging operations.
25. Photography

Photography was adequate as to coverage, overlap, definition and quality.

Submitted by:

[Signature]

Approved by:

[Signature]
31. Delineation

This manuscript was compiled at a scale of 1:20,000 on the B-8 stereoplotter using 1:40,000 color plates. Infrared photographs ratioed to manuscript scale were used for a graphic refinement of the MHWL.

Points were positioned along the shoreline to facilitate hydrographic signal location and cronapque ratio prints of the photography were resected to the manuscript in the standard manner for photo hydro support.

This manuscript was also delineated according to Marine Chart specifications to provide a new base for Chart 845-SC.

32. Control

Identification, density and placement of control was adequate.

33. Supplemental Data

Small-craft Chart 845-SC at 1:40,000 scale dated August 1966 was used as an aid in locating Lts. and daybeacons in the area. Geological Survey Quad., Indrio, Florida, dated 1950, scale 1:24,000 was used for the Geographic Names Standard.

34. Contours and Drainage

Inapplicable.

35. Shoreline and Alongshore Details

Delineation of the shoreline and alongshore details was accomplished by office interpretation of the photographs.
36. **Offshore Details**
No comment.

37. **Landmarks and Aids**
Twenty-nine aids to navigation were identified and shown on the manuscript. One landmark is shown on the chart in this area. Its location is beyond the western limits of this sheet.

38. **Control for Future Surveys**
No comment.

39. **Junctions**
Junction has been made and is in agreement to the North with T-13106 (1:20,000) and to the South with manuscripts T-13108 (1:20,000) and T-13116 (1:5,000).

40. **Horizontal and Vertical Accuracy**
No comment.

41.-45. **Inapplicable**

46. **Comparison with Existing Maps**
Comparison has been made with Geological Survey Quad Indrio, Florida, dated 1950, scale 1:24,000.

47. **Comparison with Nautical Charts**
Comparison has been made with Nautical Charts #1247, scale 1:80,000, revised to 3-6-67; and Chart 845-SC, scale 1:40,000, dated 8-20-66.

Submitted by,

M. Webber

M. Webber

Approved by,

K. N. Maki

K. N. Maki
Chief, Compilation Section
GEOGRAPHIC NAMES
FINAL NAME SHEET

PH-6710 (Cape Kennedy to Jupiter Inlet)
T-13107

Atlantic Ocean
Barkers Dith Cove
Big Starvation Cove
Blue Hole Creek
Blue Hole Point
Crawford Creek
Crawford Point
Fish House Cove
Garfield Cut
Garfield Point
Head Cove
Head Cove Pocket
Hells Pocket
Indian River
Indrio
Intracoastal Waterway
Jack Island

Little Parks Cove
Little Starvation Cove
Martin Cove
Negro Cut
Old Inlet
Parks Cove
Porpoise Bay
Porpoise Point
Prang Island
Prang Island Creek
Round Island
Round Island Creek
Shell Island
South Canal
Starvation Point
Viking

Approved by:  
A. J. Wraight  
Chief Geographer

Prepared by:  
Frank W. Pickett  
Cartographic Technician
49. Notes for the Hydrographer

T-13107, scale 1:20,000 was compiled with ocean shoreline, hydro support pass points and the first inshore through road. Shoreline details along the Indian River Inlet will be compiled at a later date.

The MHWL was compiled from tide-controlled infrared photography,* holding to common detail points established by the photogrammetric bridge. This photography was taken in February 1967, which is nine months later than the bridged color photography prepared for photo hydro support use. Some changes in the shoreline will be evident when using the ratio hydro support photography. The ratio support photographs for this manuscript are 66-L-8743 through 8746.

*Photography taken at 2.3 ft. above MHW (based on predicted tides)
FIELD EDIT REPORT

JOB PH-6710

MAPS T-13106 thru T-13109

In accordance with Instructions - Field Edit - Job PH-6710; Chart Topography, Cape Kennedy to Jupiter Inlet, Fla. (1413)

51. METHODS

The mean high-water line along the ocean front was verified by visual inspection and measured distance from the folage line, at approximately one mile intervals, the measurement being recorded on the color transparencies.

Compiled shoreline along the Indian River was visually verified from a small boat. Requests for corrections, additions and deletions are indicated on a Cronaflex copy of the manuscript, labeled PLANE TABLE SHEET with reference to the photograph by number on which the information is shown.

Streets and roads were travelled to verify existence and classification.

No landmark building, other than those mapped were noted during field edit.

Landmarks and aids to navigation for the most part were verified by Plane table, those not verified by Plane table were close to shore, and were verified by visual inspection. Aids located by Plane table have been circled on the PLANE TABLE SHEET in violet ink, and identified by their respective number. The plotted positions have not been scaled. Form 567 is submitted for only those aids located by Plane table and those that are identified on the photographs (transparencies). Form 567 is submitted for all landmarks.

Additions, deletions and corrections have been noted on the Cronaflex for each map labelled PLANE TABLE SHEET with crossreferencing to the photographs.

Violet ink was used for all field edit notes.
52. **ADEQUACY OF COMPILATION**

After application of field edit corrections, additions and deletions, compilation will be adequate for Chart Topography.

53. **MAP ACCURACY**

A large number of daybeacons, piling and piers were located by ground survey methods (Plane table). During location, Compiled objects such as lights, pier ends, tanks, etc., were used as or to determine Plane table positions, thus providing a test of the features used to be accurate.

54. **RECOMMENDATIONS**

None offered.

55. **EXAMINATION OF PROOF COPY**

Not required.

submitted 5/15/68

Robert S. Tibbetts

Robert S. Tibbetts
61. **General Statement**

(See Summary)

62. **Comparison with Registered Topographic Surveys**

Comparison was made with T-8844, scale 1:20,000, dated 1947. This survey is superseded for nautical charting by the new survey. Due to extensive changes along the Indian River - Intracoastal Waterway area, survey T-8844 is also obsolete for shoreline mapping.

63. **Comparison with Maps of Other Agencies**

See paragraph 46 of Compilation Report.

64. **Comparison with Contemporary Hydrographic Surveys**

The area south of latitude 27°34' was compared with the new hydrographic survey H-8958, scale 1:20,000 dated 1967. There is no contemporary hydrographic survey north of latitude 27°34'. This area was compared with prior hydrographic survey H-5027, scale 1:20,000 dated 1930.

65. **Comparison with Nautical Charts**

Comparison was made with Chart 1247, 4th Edition, scale 1:80,000, dated February 17, 1969, and 845-SC, scale 1:40,000, 8th Edition, dated August 30, 1969. All differences noted on the discrepancy print between the new survey and the published charts were resolved in field edit. The discrepancy print was prepared in 1968 and was compared with the latest editions of the above charts at that time. T-13107 was used as a base in updating the present editions of the above charts. The wreck shown on 845-SC at approximately 27°35.9' and 80°20' was not visible at low water during field edit.
66. Adequacy of Results and Future Surveys

T-13107 complies with the project instructions and is within the National Standards of Accuracy.

Reviewed by,

[Signature]

Approved by,

[Signature]

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

Chief, Marine Chart Division
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by J. Battley

V. R. Sobieralski  
Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE °</th>
<th>LONGITUDE °</th>
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<th>DATE OF LOCATION</th>
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<td>Lt 148</td>
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<td>27 37 754.1</td>
<td>80 22 285.2</td>
<td>Photo</td>
<td>4/18/58</td>
<td>845-SC</td>
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<td></td>
<td></td>
<td>Eau Gallie-St. Lucie Inlet</td>
<td>(South Section)</td>
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</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if reetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Tabulate Seconds and Meters
### NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**Rockville, Md.**  
July 1968

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by J. Battley  
V. R. Sobieralski

**Chief of Party.**

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD</th>
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<th>CHARTS AFFECTED</th>
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if determined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by J. Battley

V. R. Sobierski

Chief of Party

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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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