13141

13141

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. ..... *Office No.* T-13141

LOCALITY

State Florida

General locality Jupiter Inlet

Locality Loxahatchee River

19 66-69

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T -13141

PROJECT NO. (II):

PH-6710

FIELD OFFICE (II):	CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Washington Science Center	V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Office: April 6, 1967; April 27, 1967
June 6, 1967; October 15, 1968

METHOD OF COMPILATION (III):

Stereoscopic B-8 Stereoplotter

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	20,000

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

APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):

GRAPHIC DATUM (III):	VERTICAL DATUM (III):
N.A. 1927	MEAN SEA LEVEL EXCEPT AS FOLLOWS: *Elevations shown as (25) refer to mean high water* *Elevations shown as (5) refer to sounding datum* *i.e., mean low water or mean lower low water*

REFERENCE STATION (III):

LAT.:	LONG.:	☐ ADJUSTED ☐ UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
Y =	X =		

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) 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.

USCOMM-DC 16276A-P61

FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-13141

FIELD INSPECTION BY (II): None (see remarks below)	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation from photographs dated November 1966. visual field edit check - refer to page 14, heading 58.	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE: May 1968
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser	DATE: May 1968
CONTROL PLOTTED BY (III): H. Lucas	DATE: May 1968
CONTROL CHECKED BY (III): M. Webber	DATE: May 1968
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. B. Kelly	DATE: May-Oct. 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): M. Webber	PLANIMETRY: DATE: June 1968
	CONTOURS: DATE:
MANUSCRIPT DELINEATED BY (III): M. Webber	DATE: June 1968
SCRIBING BY (III):	DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): J. P. Battley	DATE: May 1968 Resumed March 1970

REMARKS:

Field Edit by:

E. W. Hartford - February 1969

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-13141

CAMERA (KIND OR SOURCE) (III):

"L" 6" focal length (color)

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66-L(C)-8826-8828	11-26-66	12:37	1:40,000	.3 above MLW based on predicted tide

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Miami Harbor Entrance		2.5	3.0
SUBORDINATE STATION: Jupiter Inlet	.52	1.3	1.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): J. P. BATTLEY — DATE: MAR. 1970

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 0 — RECOVERED: 0 — IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II): — RECOVERED: — IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

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-13141, 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-13116 and T-13117), 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.

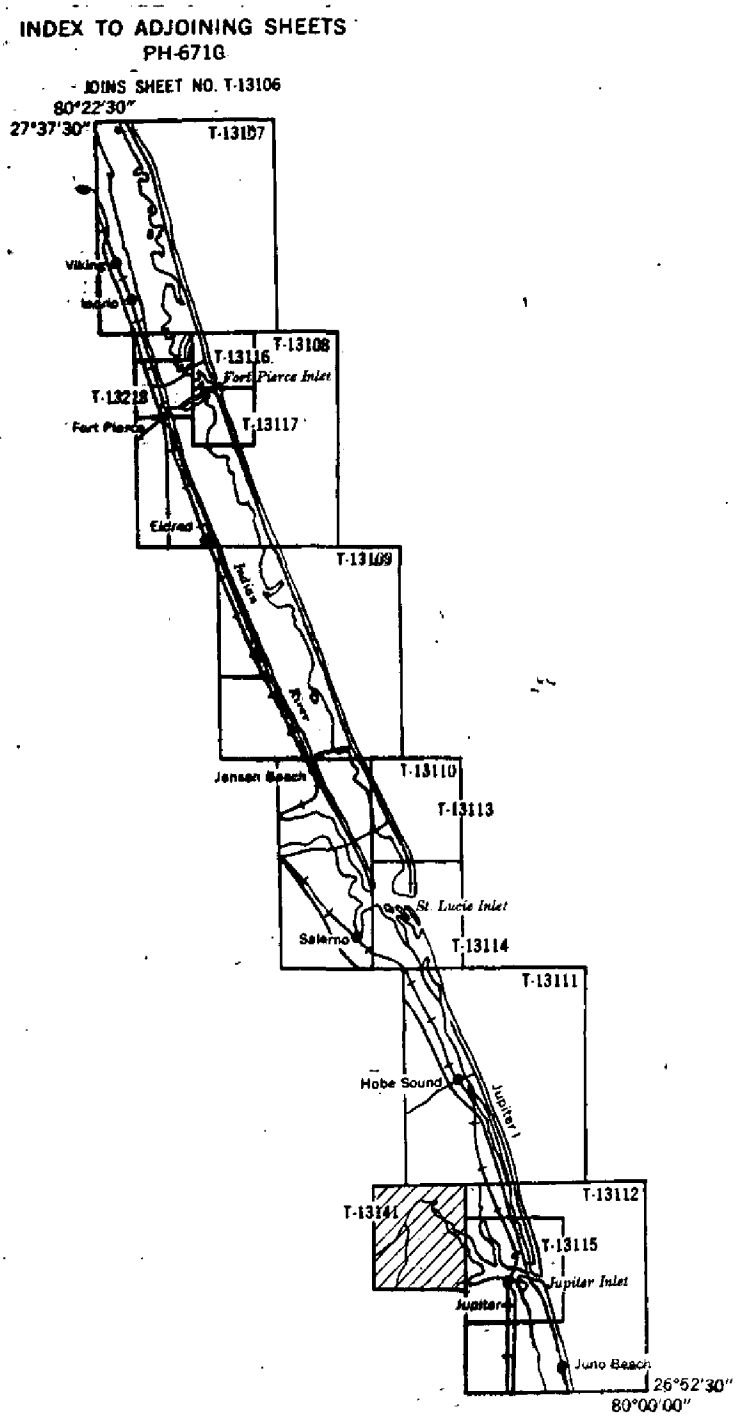
A Registration Manuscript Copy will be registered in the Bureau Archives under their respective T-numbers.

Submitted by,

Peter P Battley Jr

J. P. Battley, Jr.

PROJECT DIAGRAM



PHOTOGRAMMETRIC PLOT REPORT
Job PH-6710
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

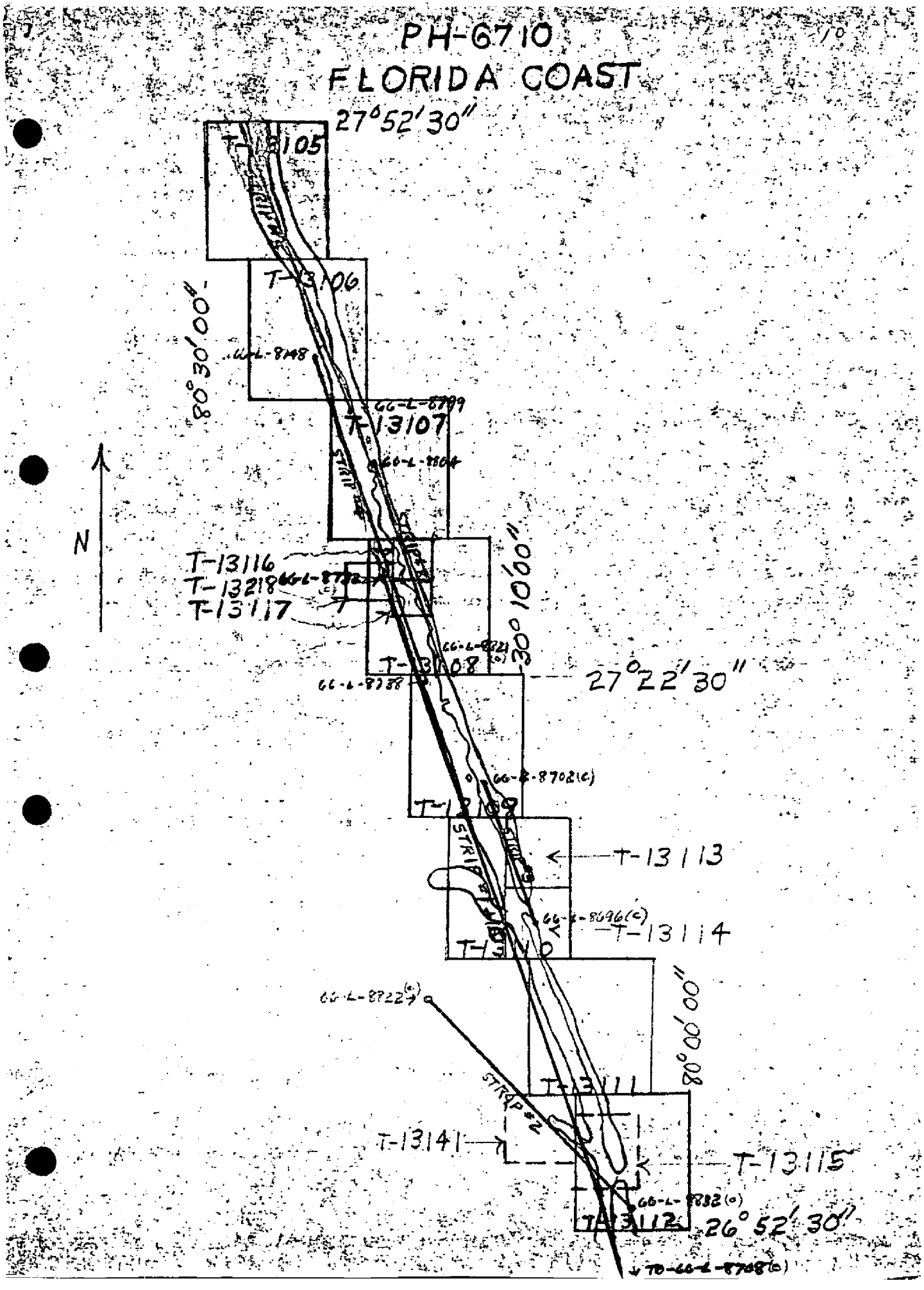
Photography was adequate as to coverage, overlap, definition and quality.

Submitted by:

Robert C. Kelly

Approved by:

John D Perrow Jr.


PH-6710
FLORIDA COAST
27°52'30"
T-13105
T-13106
80°30'00"
66-L-8748
66-L-8799
T-13107
STRIP #3
66-L-8804
N
T-13116
T-13218
66-L-8792(C)
T-13117
80°10'00"
66-L-8821(C)
T-13108
27°22'30"
66-L-8738
66-L-8702(C)
T-13109
STRIP #2
T-13113
66-L-8696(C)
T-13114
80°00'00"
66-L-8722(C)
T-13111
STRIP #1
T-13141
T-13115
66-L-8732(C)
T-13112
26°52'30"
TO 66-L-8708(C)

Compilation Report
Project PH-6710
T-13141
June 1968

31. Delineation

This manuscript was compiled at a scale of 1:10,000 on the B-8 stereoplotter using 1:40,000 color plates.

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

32. Control

Control was adequate as to identification, density and placement.

33. Supplemental Data

Geological Survey Quad, Rood, Florida, scale 1:24,000 dated 1949 was used for Geographic Names.

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

Delineation of the shoreline and alongshore details was accomplished by office interpretation and field edit.

36. Offshore Details

No comment

37. Landmarks and Aids

There are no landmarks or aids to navigation on this sheet.

38. Control for Future Surveys

None

39. Junctions

A satisfactory junction has been made to the north with T-13111 (1:20,000) and to the east with T-13115 (1:10,000) and T-13112 (1:20,000).

40. Horizontal and Vertical Accuracy

See Bridging Report

41.-45. Not Applicable

46. Comparison with Existing Maps

Comparison has been made with Geological Survey Quad, Rood, Florida, scale 1:24,000 dated 1949.

47. Comparison with Nautical Charts

Comparison has been made with Nautical Chart 1247, scale 1:80,000, 4th Edition February 17, 1969.

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-13141

Cypress Creek

Jupiter

Jupiter State Park

Kitchen Creek

Loxahatchee River

Approved by:

A. J. Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

FIELD EDIT REPORT
Job PH-6710
Cape Kennedy - Jupiter Inlet, Florida
T-13141

GENERAL NOTES

This report is submitted for one (1) sheet, field edited February 1969.

Field edit notes were made in violet ink on the discrepancy print and referenced to photographs.

52. ADEQUACY OF COMPILATION

The compilation of piers, roads and shoreline features appeared to be good.

54. RECOMMENDATIONS

NONE

56. Rocks

There were no rocks or rock areas in this T-sheet area.

57. LANDMARK BUILDINGS

No landmark buildings recommended for charting in this T-sheet area. All buildings in this area have the same value for charting.

58. BOAT RAMPS AND MHWL

There are only two (2) boat ramps in the T-sheet. They are noted on the ozalid print and referenced to photos.

The MHWL visually checked at a few places and was found to be ¢¢ compiled very good.

59. NAUTICAL AIDS AND LANDMARKS

There are no aids or landmarks located in this T-sheet area.

60. BRIDGES, ROADS AND OVHD CABLES

Two (2) new bridges and several ovhd cable clearences were taken and noted on the ozalid print and referenced to the photos. One new road was located directly on the ozalid print by angles and distances.

Road classification and deletions are noted on the ozalid print, new roads recommended for charting are noted on the ozalid print and referenced to photos.

Field edit notes are in violet ink and are found on the following photos:

Contact Transp. print 66-L (C)-8828
Matte ratio field prints No. 66-L-(C)-8826 and 8828

February 12, 1969
Submitted by:
E.W. Hartford
E.W. Hartford
Surveying Technician

Review Report T-13141
Shoreline Mapping
March 1970

61. General Statement

(See Summary)

T-13141 was a survey added to the project to provide a base for hydrographic operations on the Loxahatchee River and junctions with T-13115 to the east. The portion of the Loxahatchee River covered by T-13141 had no prior hydrographic surveys and this new survey will provide a base for an inset to Chart 845-SC. A photogrammetrist was assigned during hydro operations and a field edit was made at that time (February 1969).

62. Comparison with Registered Topographic Surveys

Comparison was made with T-8415, scale 1:20,000 dated December 1946. This survey is superseded for nautical charting by the new survey T-13141.

63. Comparison with Maps of Other Agencies

Comparison was made with U. S. Geological Survey quadrangle, Rood, Florida, dated 1949, scale 1:24,000.

64. Comparison with Contemporary Hydrographic Surveys

The incomplete copy of T-13141 was used as a base for new hydrography. The new hydrographic survey H-9007, scale 1:10,000 dated 1969 was used for comparison. Comparison with the advance copy which included field edit corrections of T-13141 found the surveys to be in agreement.

65. Comparison with Nautical Charts

Comparison was made with Chart 1247, 4th Edition, 1:80,000 scale, revised to February 17, 1969.

66. Adequacy of Results and Future Surveys

T-13141 complies with the project instructions and is within the National Standards of Accuracy.

Reviewed by,

Peter P. Battley Jr

Approved by,

R H Hardaker
Chief, Photogrammetry Division

Charles Lenn
Chief, ~~Marine Chart Division~~ Photogrammetric Branch

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-13141

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.

CHART	DATE	CARTOGRAPHER	REMARKS
11472	1/13/75	RNaito	Full ~~Part Before~~ After ~~Verification~~ Review Inspection Signed Via
(845)			Drawing No.
			No corr. Considered fully appld.
11474	1/14/75	RNaito	Full ~~Part Before~~ After ~~Verification~~ Review Inspection Signed Via
(1247)			Drawing No. Added 3 drainage canals, otherwise
			considered adequately appld at this scale
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975

USCOMM-DC 8558-P63