13101

Orm 804

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey .	Shoreline
•	Office No. T-13101
	LOCALITY
State Florid	la
General locality	Florida Coast
Locality Coco	oa Beach
Sent (100 100 100 100 100 100 100 100 100 10	N. 9
	1966-67
	CHIEF OF PARTY
LIB	RARY & ARCHIVES
DATE	

USCOMM-DC 5087

E REPORT - DAT T-13101	TA RECORD	
TOTOT		
 .		
	CHIEF OF PARTY	
	OFFICER-IN-CHARGE	
	V. Ralph Sobieralski	
er		
STEREOSC	COPIC PLOTTING INSTRUMENT SCALE (III):	
20,000		
DATE REF	PORTED TO NAUTICAL CHART BRANCH (IV):	
DATE:	DATE REGISTERED (IV):	
	VERTICAL DATUM (III):	
	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	
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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.

FIELD INSPECTION BY (II):

DATE:

DESCRIPTIVE REPORT - DATA RECORD

T-13101

Office interpretation November 1966 - February 1967 (Field Edit)
Office interpretation November 1966 - February 1967 (Field Edit)
PROJECTION AND GRIDS RULED BY (IV):
A. E. Roundtree
A. E. Roundtree 11-9-66 PROJECTION AND GRIDS CHECKED BY (IV):
R. Glaser
CONTROL PLOTTED BY (III):
H. Lucas 7-20-67
CONTROL CHECKED BY (III):
J. Mooney 7-20-67
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): DATE
R. Kelly 5-67 10-67
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY DATE
J. Phillips 8-67 10-67
R. A. Youngblood CONTOURS DATE
MANUSCRIPT DELINEATED BY (III):
J. Phillips R. A. Youngblood 8-67
SCRIBING BY (III):
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):
J. Battley
REMARKS: 9-68
Field Edit by:
W. H. Shearouse, October 1967

DESCRIPTIVE REPORT - DATA RECORD

T-13101

CAMERA (KIND OR SOURCE) (III):

"L" 6" focal leng	gth						
	PH	OTOGRAPHS (III)		Page services			
NUMBER	STAGE OF TIDE						
66-L-8782 - 8786	11-26-66	10:38	1:40,000	1.1'	above	MLW	
66-L-8948R - 8951R		10:29		1.7'	above	MLW	
	bose * Pro	don dicted tide	S				
		TIDE (III)		RATIO OF RANGES	MEAN RANGE	SPRING RANGE	
REFERENCE STATION: Mia	mi Harbor Er	ntrance		-	2.5	3.0	
BORDINATE STATION: Cape Canaveral			-	3.5	4.1		
SUBORDINATE STATION:							
WASHINGTON OFFICE REVIEW BY (IV): 1. 9. BATTLEY					DATE: 569T 1968		
PROOF EDIT BY (IV): DATE:							
UMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): RECOVERED: 5				IDENTIFIED:			
NUMBER OF BM(S) SEARCHED FOR (II): RECOVERED: IDENTIF					D		
NUMBER OF RECOVERABLE PHOT	O STATIONS ESTABLE	SHED (III):					
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST.	ABLISHED (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.

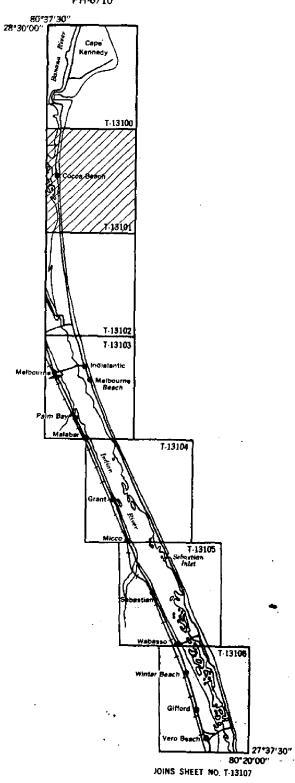
Submitted by,

Jeter P Battley Un J. P. Battley, Jr.

PROJECT DIAGRAM

INDEX TO ADJOINING SHEETS PH-6710

The state of the s



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 two stations and tie points as checks. Strip #6 (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 - Chly 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

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

24. Supplemental Data

Local USGS quads were used for elevations during bridging operations.

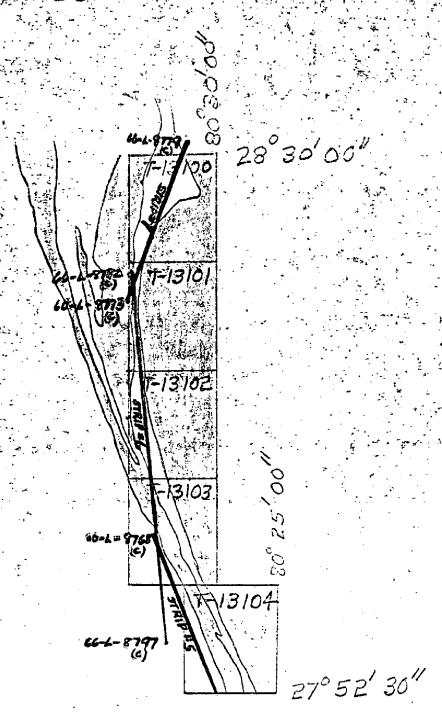
25. Photography

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

Submitted by:

Approved by

FLORIDA COAST



COMPILATION REPORT PROJECT PH-6710 T-13101 OCTOBER 1967

31. Delineation

This manuscript was compiled on the B-8 Stereoplotter at a scale of 1:20,000 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 cronapaque ratio prints of the photography were resected to the manuscript in the standard manner for photo-hydro support.

32, Control

Identification, density and placement of control was adequate.

33. Supplemental Data

Geological Survey Quad., Cocoa Beach, Florida, dated 1951, 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

Three landmarks were photoidentified and show on the manuscript.

38. Control for Future Surveys

No comment.

39. Junctions

Junction has been made and is in agreement to the North with T-13100 and to the South with T-13102,

40. Horizontal and Vertical Accuracy

No comment.

41. thru 45.

Not applicable.

46. Comparison with Existing Maps

Comparison has been made with Geological Survey Quad.; Cocoa Beach, Florida, dated 1951, scale 1:24,000.

47. Comparison with Nautical Charts

Comparison has been made with Chart 1246, scale 1:80,000, revised to July 15, 1967.

Submitted by:

Approved by:

K. N. Maki

Chief, Compilation Section

J. B. Phillips

Compilation Sec.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6710 (Cape Kennedy to Jupiter Inlet)

T-13101

Atlantic Ocean Banana River Canaveral Peninsula Catfish Creek Cocoa Beach Flowing Well Creek Four Islands Houseboat Cut Jones Creek Shell Point Shortys Banks Shortys Pocket Sprig Point

Thousand Islands

Approved by:

A. J. Wraight

Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

FIELD EDIT REPORT

JOB PH-6710

MAPS T-13100, T-13101 & T-13102

In accordance with Instructions-FIELD EDIT-Job Ph-6710; Chart Topography, Cape Kennedy to Jupiter Inlet, Fla. (C1413)

51. METHODS

Measurements were made from identifiable objects to verify the mean high-water line on the ocean front. The point was pricked and indicated by leader on the photographs and crossreferenced on the Field Edit Sheet to the photo number. The offshore distance (to mean high-water line) was recorded but the actual distance was not set-off on the photograph. It is requested that this be done by the compiler, thereby verifying the compiled mean high-water line.

From approximate latitude 28° 17' in T-13101, where compilation of the river shoreline began, southward, the shoreline was visually verified from a small boat running close to shore.

Streets and roads were travelled to verify existence and classification.

Landmark buildings were inspected and indicated as being correct if compiled; those to be added are circled on the photographs. It is requested that many buildings be deleted from Map manuscript T-13102. In light of Section 7 of Photogrammetric Instruction 54, Revised September 22, 1961, it appears that the buildings X-ed off on the Field Edit Sheet should not be mapped. Only those evaluated as being of actual landmark value for nautical charts have been okayed.

Landmarks and aids to navigation were visually verified as to existence. Form 567 is submitted for all landmarks, but is submitted for only those aids to navigation which were not located during compilation. These have been identified on photographs, the number being recorded on the Field Edit Sheet.

Additions, deletions and corrections have been noted on the FIELD EDIT SHEET-DISCREPANCY PRINT with cross-referencing to the photographs.

Violet ink was used for all field edit notes.

In addition to the Field Edit Sheet for each map, field edit information will be found on color ratio photographs 66L8775, 8776, 8777, 8778, 8783, 8784, 8785, 8786, 8787, 8788, 8789, 8790; and on transparencies 66L8789 and 8790.

52. ADEQUACY OF COMPILATION

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

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None offered.

55. EXAMINATION OF PROOF COPY

Not required.

GEOGRAPHIC NAMES

Deletion of the name EAU GALLIE BEACH (Map T-13102) is recommended. It has lost its identity in the fast-growing area of the Capa Kennedy vicinity. No one contacted knew the name.

New names recommended are the cities of INDIAN HARBOUR BEACH and SATELLITE BEACH for which city maps are submitted, and the unincorporated area of CANOVA BEACH. All are undisputed and widely known. All three lie within Map T-13102. The names are shown on the Field Edit Sheet.

Submitted 11/8/67

William H. Shearouse Chief, Photo Party 60

REVIEW REPORT T-13101 SHORELINE MAPPING MARCH 1970

61. General Statement

(See Summary)

Comparison with Registered Topographic Surveys

Comparison was made with T-8880, scale 1:20,000, compiled from aerial photographs of December 1947. This survey is superseded for nautical charting by the new survey. Due to extensive development and shoreline changes along the Banana River this survey is also obsolete for shoreline mapping.

Comparison with Maps of Other Agencies 63.

See paragraph 46 of Compilation Report.

64. Comparison with Contemporary Hydrographic Surveys

There is no contemporary hydrographic survey in this area. Comparison was made with H-5034, scale 1:40,000, dated 1930 and H-4946, scale 1:10,000-1:40,000 dated 1929.

Comparison with Nautical Charts

Comparison was made with Chart 1246, scale 1:80,000, 5th Edition dated October 7, 1968. The differences between the published chart at the time of field edit and the new survey were resolved in field edit in November of 1967.

A new landmark Micro Tower at approximately latitude 28° 21'26" should be applied to the above named chart.

66. Adequacy of Results and Future Surveys

T-13101 complies with the project instructions and is within the National Standards of Accuracy.

Approved by:

Division

m Chief, Marine Chart Division Photogrammetric

Jeter P. Battley In

Brench

Reviewed by

178



FORM C&G\$-164 (4-68) USCOMM-DC 50318-P68

DESCRIPTIVE REPORT CONTROL RECORD

MAP T. 13101 PROJECT NO.	NO. 6710	\$C#	SCALE OF MAP 1:20,000 SCALE	E FACTOR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
POSE, 1966		N. A. 1927	1,460,501.01	
Patrick N. Base, 1953		N. A. 1927	1,431,581.19	
•	nage 18	N. A. 1927	1,424,560.90	
AFB	*	N. A. 1927	28°15'08,495" 80°36'30,672"	
Patrick AFB North Water Tank	*	N. A. 1927	80°36'27.896"	
*Position furnished by Patrick AFB Civil Engineers	ر ا	·		
COMPUTED BY	DATE		CHECKED BY	DATE

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENT ERVICES ADMINISTRATION
COAST AND GLOETIC SURVEY

Nov. 8

Kockville

-NONFIGOATING-AIDS-OR LANDMARKS FOR CHARTS

STRIKE OUT TWO TO BE DELETED TO BE CHARTED TO BE REVISED

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

V. Ralph Sobieralski 4. Younablood The positions given have been checked after listing by _

Chief of Party.

CHARTS 1246 1246 1245 X × MSHORE CHART X × MARD ROSEAN 13101/10/17/67 10/27/27 7-1316/10/27/67 LOCATION METHOD OF OF LOCATION AND BURVEY No. Triang pueini 1927 1927 DATOM 1370:01927 27.8961VH 30.672 WA D.P. METERS 1.968 760.4 50.3 LONGITUDE # 30 36 10 POSITION ۰ 8 80 80 560.61 D.M.METERS 08.495 18,212 761.5 26.4 LATTUDE* ENTS • 130 00 28 がなり AFB Civil Engineers NO DATE WHER ESTABLY FRED position formishe BIGNAL erange + white BY PAFB G.E. Patrick AFB North Water Tank (Patrick ALB South Water Tak ht= 112 (117 Elevated ht= 115 (120) DESCRIPTION 6f = 217 (223 Skeleton steel 900 FURMISHED j TRI. STAS. Elevated Height Florida CHARTING Tower STATE Micro Tank

*

USCOMM-DC 36485-P66 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 The data should be landmarks and nontioating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

C&GS FORM

COAST AND GEODETIC SURVEY U.S. DEPARTM

OF COMMERCE

NAUTICAL CHARTS

7-13101

19 67

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be 10/27 ANOMARICAMINACIANISTICAL AND MARKS FOR CHARTS Vero Beach, Fla. STRIKE OUT TWO

CHARTS Chief of Party. TRAND BROKETTO HENORE CHART Meanings Shearouse 1927 T-13100 10/24/6/ 1927 **f-131**01 10/17/67 LOCATION DATE Welkan H. METHOD OF LOCATION AND BURVEY No. DATUM ų, D. P. MEYERS 52.292 LONGITUDE 80 25.0 Dennis E. Dearborn POSITION 88 • D.M. METERS 30.775 LATITUDE* 28-27.8 ನ • 23 The positions given have been checked after listing by BIGNAL ARRIGHTSAK (deleted from) the charts indicated. Razed (A Cocoa Beach, Radio Station DESCRIPTION WKRT, Mast, 1959 Rened FLORIDA CHARTING RADIO TOMER NET THE AMT STATE

USCOMM-DC 16234-P61 The data should be 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 nonfloeting aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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
12.45	3/30/71	6. Moore	Patt Part Peter After Verification Review Impostion Signed Via
		-	Drawing No.
457	12-9-71	R.a. Lilli	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 5
1246	1/26/12	Schantz	Full Par After Verification Review Inspection Signed Via
			Drawing No. 23
11-4			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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,			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
	- <u>·</u>		Drawing No.
<u>.</u>			

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-976.

USCOMM-DC 8558-P63