

T-12636 Thru T-12639

ORIGINAL

T-12636 Thru 12639

T-12636 Thru T-12639

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	TIDE CONTROLLED SHORELINE
20500-1-53	T-12636 thru
Field No. 20500-1-53	T-12639
Office No.	
LOCALITY	
State	FLORIDA
General locality	EAST COAST
Locality	CAPE KENNEDY
1964	
CHIEF OF PARTY	
V. Ralph Sobieralski, Tampa District	
Officer	
LIBRARY & ARCHIVES	
DATE	SEP 23 1965

USCOMM-DC 5087

Part app'd by JHE to CTS 1245 & 1246 9-8-65/RKD
after Review

1246 - No Corr 12/10/74 ALT

DESCRIPTIVE REPORT - DATA RECORD

T - 12636, T-12637, T-12638, T-12639

PROJECT NO. (II): 20,000-855 20,000-856		
FIELD OFFICE (II):		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Tampa District Office		OFFICER-IN-CHARGE V. Ralph Sobieralski
INSTRUCTIONS DATED (II) (III): Field: March 6, 1964 Office: May 1, 1964		
METHOD OF COMPILATION (III): Kelsh plotter		
MANUSCRIPT SCALE (III): 1:9,600	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000	
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		VERTICAL DATUM (III): MHW 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): PLAYALINDA, 1959		
LAT.: 28°38'35".06838	LONG.: 80°37'26".68160	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 1,566,634.70 Ft. x = 620,581.21 Ft.		STATE Florida
		ZONE East
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.		

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): March 15, 1964 Air photo compilation		
PROJECTION AND GRIDS RULED BY (IV): A. E. Rountree		DATE May 26, 1964
PROJECTION AND GRIDS CHECKED BY (IV): M. Williams		DATE May 26, 1964
CONTROL PLOTTED BY (III): I. I. Saperstein		DATE June 1, 1964
CONTROL CHECKED BY (III): I. I. Saperstein		DATE June 1, 1964
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): J. T. Gerlach (W.O.)		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. J. Pate R.E. Smith, Jr. I. I. Saperstein	DATE June 1964
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): J. Honick		DATE June 1964
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): M. M. Slavney		DATE June 1964
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild Aviogon

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64W4340 thru 4347	Mar. 15, 1964	0837	1:30,000	3.4 (Observed) *
64W4354 thru 4359	"	0850	"	" " *

(Predicted) TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Miami Harbor Ent.		2.5	3.0
SUBORDINATE STATION: Cape Canaveral	HW +1.0 LW 0.0	3.5	4.1
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

10

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

A tide staff was established at Canaveral Harbor to provide sufficient datum control for the entire area.

This staff was tied to C&GS bench marks 1 & 2 by double run levels.

A tide observer recorded staff readings at the beginning and ending of each line photographed.

FIELD INSPECTION REPORT
T-12636 THRU T-12639

No field inspection report was submitted because no field inspection was done.

8.

AEROTRIANGULATION REPORT

PH-20,000-855/856

Cape Kennedy, Florida

21. Area Covered

The bridging covers the Atlantic Coast shoreline of Cape Kennedy, Florida.

22. Method

Two strips were bridged on the Zeiss C-5 stereoplanigraph to provide control for graphic compilation of shoreline. Strip #1 consisted of photographs 64-WR4341-48 and Strip #2 of photographs 64-WR4352-61. Both strips were 1:30,000 scale infra-red photography.

23. Adequacy of Control

Control postions were adequate for bridge adjustment. However, three stations had to be re-identified in the field because the original sub stations could not be located in the models.

All points held within accuracy requirements except IPPER, 1963 sub station #2. No reason could be found for the discrepancy, but since all other points held it was considered inconsequential and dropped from the bridge.

24. Supplemental Data

Cape Canaveral Light House, 1934 was office identified as a check control station.

25. Photography

Photography was adequate as to coverage, overlap and definition.

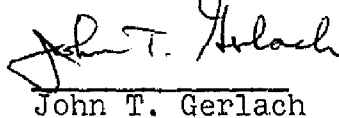
26. Permanent Bridge Points

Ratio prints at a scale of 1:9600, have been submitted along with this bridge. On these prints have been identified the permanent pass points selected for the bridge.

Approved by:


John D. Perrow, Jr.

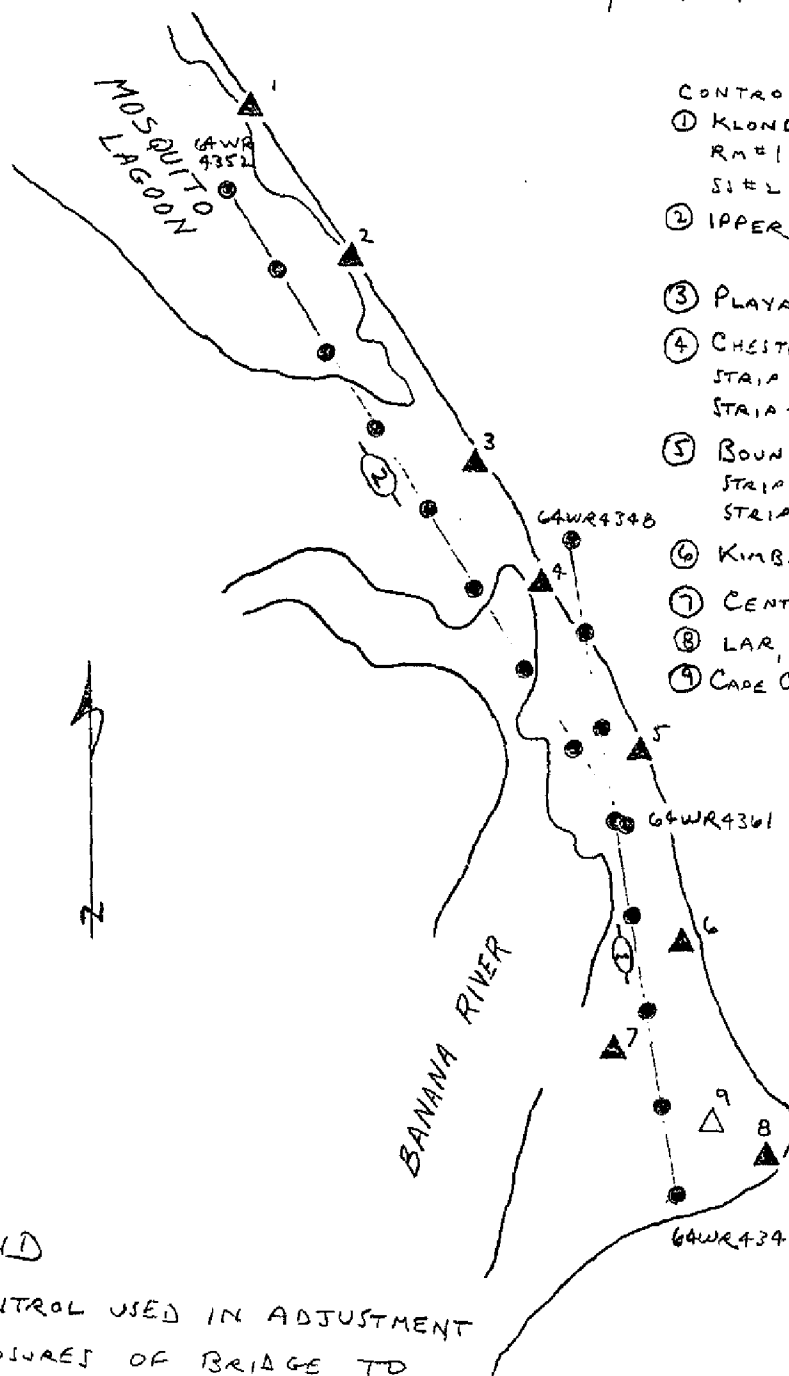
Submitted by:


John T. Gerlach

Aerotriangulation Sketch - - 7.

CAPE KENNEDY, FLORIDA

CHARGE NO. 20,000-855/856
MAY, 1964



CONTROL

- ① KLONDIKE, 1934 $(-2.9, +3.6)$
RM#1 $(-6.9, -3.9)$ SS#1 (0.0)
SS#2 $(+1.1, -7.1)$
- ② IPPER, 1963 SS#1 $(-3.3, -1.5)$
- ③ PLAYALINAA, 1959 SS $(+1.4, +3.1)$
- ④ CHESTER 2, 1964
STAIR#1 RM#1 $(+4.9, +.9)$
STAIR#2 RM#1 $(-1.8, -2.9)$ STA. $(-5.3, -1.6)$
- ⑤ BOUNDARY, 1958
STAIR#1 $(+2.2, -.4)$ RM#1 $(-3.1, -2.1)$
STAIR#2 $(+3.5, +.1)$ RM#1 $(+.5, +.3)$
- ⑥ KIMBALL ECC, 1934 SS $(+2.2, +1.8)$
- ⑦ CENTRAL, 1950 SS $(+.5, 0)$
- ⑧ LAR, 1929 SS#1 $(-.6, -.6)$ SS#2 $(-2.7, +.7)$
- ⑨ CAPE CANAVERAL L.H. 1934 $(+.1, -2.0)$

LEGEND

- ▲ CONTROL USED IN ADJUSTMENT
CLOSURES OF BRIDGE TO
CONTROL SHOWN IN PARENTHESES
- △ CONTROL USED AS CHECK

2000-855
Cape Kennedy, Fla.

CAPE

SCALE FACTOR

MAP T.

PROJECT NO.

2000-855

N.A. 1927 - DATUM

DISTANCE FROM GRID OR PROJECTION LINE IN METERS
FORWARD (BACK)

DATUM CORRECTION

DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS
FORWARD (BACK)

LATITUDE OR COORDINATE X
LONGITUDE OR COORDINATE Y

DATUM

SOURCE OF INFORMATION (INDEX)

STATION

AREA, 1956

IBM

637,807.39
1,493,056.91

KIMBALL Ec.
1934

IBM

641,619.03
1,523,203.00

(Target)
SS

Comp.

641,553.13
1,523,188.85

CENTRAL, 1950
956

IBM

635,735.66
1,511,874.50

(Target)
SS

Comp.

635,760.18
1,511,851.82

BOUNDARY, 1958

IBM

637,807.39
1,539,369.09

(Target)
RM #1

Comp.

637,877.64
1,539,366.35

CHESTER 2,
1964

IBM

628,611.23
1,555,382.34

(Target)
RM #1

Comp.

628,575.06
1,555,323.34

PLAYALINDA
1959

IBM

620,581.21
1,566,634.70

(Target)
SS

Comp.

620,633.59
1,566,658.16

LAR, 1929

IBM

651,971.06
1,499,016.69

19 7034.9
49 7407.5

20 7001.2
47 5938.7

20 7001.2
47 5938.7

1 FT. = 30.48006 METERS
PROBABILITY 99

DATE

7 May 64

CHECKED BY

Q-28

DATE

7 May 64

20,600-855

U.S. DEPARTMENT OF COMMERCE

NAUTICAL AND GEODETIC SURVEY

Cape Kennedy, Fla.

CONTROL RECORD

CAPE KENNEDY

MAP T.

PROJECT NO.

MAP

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE OR COORDINATE X COORDINATE Y	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
LAR			651,511.59						
SS#1	comp		1,499,477.73						
SS#2	comp		651,261.36						
TPPER 1962	TBM		1,499,543.24						
(Target)			609,334.70						
(Target) R4#1	comp		1,583,895.96	19 3464.2	50 2888.0				
KLONDIKE			609,305.42						
(Target) R4#1	comp		1,583,810.10						
1934			597,088.34						
(Target) R4#1	comp		1,601,097.75						
SS#1	comp		597,109.27						
SS#2	comp		1,601,057.01						
SS#3	comp		597,024.64						
TPPER			1,601,255.37						
SS#1	comp		597,483.52						
SS#2	comp		1,600,840.84						
SS#3	comp		597,475.61						
TPPER			1,600,786.41						
SS#1	comp		609,358.89						
SS#2	comp		1,584,020.43						
SS#3	comp		609,471.60						
TPPER			1,583,817.30						

COMPILATION REPORT

T-12636 thru T-1263931. DELINEATION

The Kelsh plotter was used. The Atlantic shoreline and a narrow (200 to 400 meters) strip inshore were mapped.

32. CONTROL

See Aerotriangulation Report, Item 21.

Two bridge points, 44321 and 57330, were not held in delineation.

Twenty one additional points, selected for permanence and low elevation, were located during compilation. These points, shown with 4.0 m.m. circles, will in combination with the bridge points, shown with 6.0 m.m. circles, provide approximately 3-inch spacing along the shoreline.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

No inspection was provided.

The shoreline was delineated from the infra red diapositives which were flown at mean high water. We believe the delineation will meet the standards of map accuracy.

It is noted that the ocean waves breaking on the beach gave considerable differences on successive photographs for the confluence of beach and water.

36. OFFSHORE DETAILS

None.

T-12636 thru T-12639

COMPILATION RECORD

COMPLETION DATE

REMARKS

Shoreline compiled	June 1964	

37. LANDMARKS AND AIDS

Cape Kennedy Lighthouse (Cape Canaveral L.H. 1934) is the only aid. No form 567 is believed necessary.

38. CONTROL FOR FUTURE SURVEYS

See paragraph 3 of Item 32.

39. JUNCTIONS

Junctions were made between these surveys. No contemporary surveys were available north and south of the project.

40. HORIZONTAL AND VERTICAL ACCURACY

See paragraph 2 of Item 35.

46. COMPARISON WITH EXISTING MAPS

None were furnished.

47. COMPARISON WITH NAUTICAL CHARTS

The Atlantic shoreline was compared with nautical chart 1245 (1:80,000 scale), 2nd edition of Dec. 18, 1961, revised Feb. 4, 1963. There is no appreciable difference between the chart shoreline and these surveys.

M. M. Slavney
M. M. Slavney
Cartographer (Photo)

APPROVED AND FORWARDED 15 JUN 1964

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

48. GEOGRAPHIC NAME LIST

The following approved geographic names were furnished by the Geographic Names Section. However, only those names with an asterisk were used, because the details named by the remainder were not delineated.

T-12636 (Shoreline)

Bald Pate Creek
*East Max Hoeck Creek
*Eddy Creek
Eddy Point
*Gallinipper Basin
*Gallinipper Point
Max Hoeck Creek
Max Hoeck Back Creek
Mosquito Lagoon
*Playalinda Beach

T-12637 (Shoreline)

Banana River
Bluebill Creek
Broadaxe Creek
Broadaxe Point
Broadaxe Ridge
*Canaveral Peninsula
Chester Shoal
Cochran Cove
Devils Elbow
East Conrad Creek
East Pepper Creek
*False Cape
Gator Hole
Gulorandson Creek
Jack Davis Cut
Jack Davis Island
Merritt Island < Pepper Flats
Pepper Hammock
Pintail Creek
Tea Hammock
*Titusville Beach
West Conrad Creek
West Pepper Creek

48. GEOGRAPHIC NAME LIST (CONTINUED)T-12638 (Shoreline)

Banana River
*Canaveral Peninsula
*DeSoto Beach
DeSoto Beach State Game Refuge
Harrison Creek
Harrison Island
Penny Hammock
White Point

T-12639 (Shoreline)

Banana River
Cactus Point
*Canaveral Bight
*Canaveral Peninsula
*Cape Kennedy
*Cape Kennedy Lighthouse
DeSoto Beach State Game Refuge
Duck Pond
Home Point
*John F. Kennedy Space Flight Center
Middle Point
Peterson Point
Quarterman Cove

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
T- 12636 thru T-12639					
1. PROJECTION AND GRIDS I.I.S.		2. TITLE M.M.S.		3. MANUSCRIPT NUMBERS MMS	
		4. Classification label Administratively Restricted		4. MANUSCRIPT SIZE MMS	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY MMS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) X		
	7. PHOTO HYDRO STATIONS IIS	8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT W.O. JDP	
	11. DETAIL POINTS MMS				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE MMS	13. LOW-WATER LINE X	14. ROCKS, SHOALS, ETC. X	15. BRIDGES X	
	16. AIDS TO NAVIGATION X	17. LANDMARKS X	18. OTHER ALONGSHORE PHYSICAL FEATURES MMS		
	19. OTHER ALONGSHORE CULTURAL FEATURES X				
PHYSICAL FEATURES	20. WATER FEATURES X		21. NATURAL GROUND COVER MMS		
	22. PLANETABLE CONTOURS X		23. STEREOSCOPIC INSTRUMENT CONTOURS X		
	24. CONTOURS IN GENERAL X		25. SPOT ELEVATIONS X		
	26. OTHER PHYSICAL FEATURES X				
CULTURAL FEATURES	27. ROADS MMS	28. BUILDINGS X	29. RAILROADS MMS		
	30. OTHER CULTURAL FEATURES MMS				
BOUNDARIES	31. BOUNDARY LINES X		32. PUBLIC LAND LINES X		
MISCELLANEOUS	33. GEOGRAPHIC NAMES MMS			34. JUNCTIONS MMS	
	35. LEGIBILITY OF THE MANUSCRIPT MMS	36. DISCREPANCY OVERLAY X		37. DESCRIPTIVE REPORT MMS	
	38. FIELD INSPECTION PHOTOGRAPHS X		39. FORMS X		
	SIGNATURE OF REVIEWER M. M. Slavney		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT M. M. Slavney		
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT-Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER			SIGNATURE OF SUPERVISOR		

Review Report
Shoreline Maps
T-12636 thru T-12639
November 1964

61. General Statement

AFMTC and NASA requested shoreline surveys for beach erosion studies of the Cape Kennedy area. The project also includes the furnishing of a few strips of color aerial photographs to NASA for determining whether or not color photographs will be helpful for measuring depth changes.

62. Comparison with Registered Topographic Surveys

T-4358	1:10,000	1928
T-4441a&b	1:20,000	1929
T-4442a&b	1:20,000	1929
T-9168	1:20,000	1949
T-9171	1:20,000	1949
T-9174	1:20,000	1949

There are shoreline changes due to the difference in time interval. These map manuscripts are to supersede the above listed surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

Walson	1:24,000	1949
False Cape	1:24,000	1949
Cape Canaveral	1:24,000	1951

There is relatively good agrument considering the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

1245	1:80,000	December 1961 revised to February 1963
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See item 47

65. Comparison with Nautical Charts

1255

1:80,000

1956

There is no chart coverage of the above manuscripts except for a portion of T-10534. See item 47 for this comparison.

66. Accuracy of Results and Future Surveys

These surveys were constructed according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles A. Henn

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

for M. E. Matto

Chief, Photogrammetry Division