

11402^{Original}

Diag. Cht. No. 1255.

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No. Ph-1146	Office No. T-11402
LOCALITY	
State	FLORIDA
General locality	WEST COAST
Locality	LA COSTA ISLAND
1953-1955	
CHIEF OF PARTY	
H. C. Applequist, Tampa Photo. Office	
LIBRARY & ARCHIVES	
DATE	JUL 27 1965

B-1870-1 (1)

11402

DESCRIPTIVE REPORT - DATA RECORD

T- 11402

Project No. (II): 6146

Quadrangle Name (IV):

Field Office (II): Boca Grande, Fla.

Chief of Party: H. C. Applquist

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: H. C. Applquist

Instructions dated (II) (III): 2 July 1954

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

MAR 28 1957

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): COSTA, USE, 1945

Lat.: $26^{\circ}41'12''.881$ (396.4 m) Long.: $82^{\circ}15'25''.568$ (706.9 m)

Adjusted
~~GRAPHIC SCALE~~

Plane Coordinates (IV):

State:

Zone:

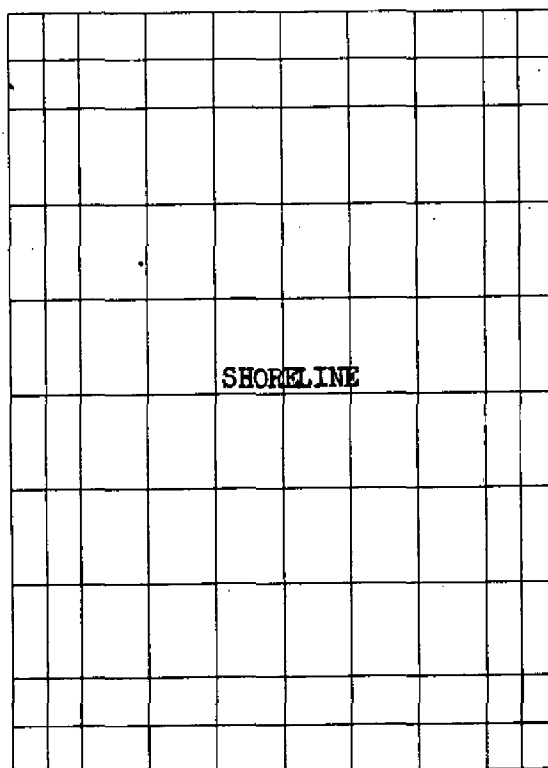
Y=

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.

DESCRIPTIVE REPORT - DATA RECORD



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Field Inspection by (II): **E. T. Ogilby**

Date: **Aug. 1955**

Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): **Air photo compilation and planetable, August 1955 (reference item 35)**

Projection and Grids ruled by (IV): **Austin Riley**

Date: **26 Jan. 1955**

Projection and Grids checked by (IV): **Austin Riley**

Date: **31 Jan. 1955**

Control plotted by (III): **R. Dossett**

Date: **1 Sept. 1955**

Control checked by (III): **I. I. Saperstein**

Date: **1 Sept. 1955**

Radial Plot ~~checked by (III):~~

Date: **6 Sept. 1955**

Control ~~checked by (III):~~ **M. M. Slavney**

Planimetry
Stereoscopic Instrument compilation (III): **Inapplicable**
Contours

Date:

Date:

Manuscript delineated by (III): **R. Dossett**

Date: **3 May 1956**

Photogrammetric Office Review by (III): **W. H. Shearouse**

Date: **4 May 1956**

Elevations on Manuscript
checked by (II) (III): **Inapplicable**

Date:

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): **C&GS Nine-lens**

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
42828	1 Dec. 1958 ³	12:44	1:10,000	0.6
42829	"	12:45	"	"
42830	"	"	"	"

Predicted Tide (III)

Reference Station: **Tampa Bay**
Subordinate Station: **Port Boca Grande, Charlotte Harbor**
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
--	1.5	2.0
0.7	1.0	1.3

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **1**
Shoreline (More than 200 meters to opposite shore) (III): **4**
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
Control Leveling - Miles (II): **Inapplicable**
Number of Triangulation Stations searched for (II): **1**
Number of BMs searched for (II): **None**
Number of Recoverable Photo Stations established (III): **0**
Number of Temporary Photo Hydro Stations established (III): **8**

Recovered: **1**
Recovered: **0**

Identified: **0**
Identified: **0**

Remarks:

FIELD INSPECTION REPORT IS BOUND WITH T-11396.

COMPILATION REPORT
T-11402

PHOTOGRAMMETRIC PLOT REPORT
Submitted with T-11396

31. DELINEATION

Delineated graphically.

The photographs were clear but of poor scale. Field inspection was adequate.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours inapplicable.

There was no visible drainage.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline is fast. No low-water line or shoal areas were indicated by the field inspection.

The shoreline of the island approximately a mile west of Murdock Point was determined by planetable in August 1955.

36. OFFSHORE DETAILS

None visible photographically and none indicated by field inspector.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

Eight(8) temporary photo-hydro stations have been established and listed under item 49.✓

39. JUNCTIONS

A staisfactory junction has been secured with T-11398 on the north and T-11403 on the east. Open water lies to the west and south.✓

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.✓

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with planimetric map T-5861, scale 1:10,000 edition of 1943.✓

Attention is called to a new sand island due west of Murdock Point.✓

Considerable shoreline erosion has occured along the west shoreline of Lacosta Island in the vicinity of Murdock Point.✓

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Nautical Chart No. 474, scale 1:40,000 published July 1947, corrected to April 6, 1953. No important discrepancies were noted.✓

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.✓

ITEMS TO BE CARRIED FORWARD

None.✓

Rudolph Dossett
Rudolph Dossett
Carto Photo Aid.

Approved and Forwarded:

H. C. Applequist
H. C. Applequist
Chief of Party.

48. GEOGRAPHIC NAME LIST

FLORIDA

GULF OF MEXICO

LACOSTA ISLAND

MURDOCK POINT.

A. J. Wright
Geog. Names Sec.

49. NOTES FOR THE HYDROGRAPHER:

The following is a list of 8 photo-hydro stations with a description for each:

0201. The center of a seagrape-like bush on low sand dune approximately 800 ft. south of Australian pine clump and 45 ft. from MHWL.

Note A Photo 42830

0202. The center of a small seagrape-like bush on a low sand dune 62 ft. from MHWL and approximately 500 ft. NW of a Australian pine clump.

Note A Photo 42830

0203. The center of a large seagrape-like bush on a sand dune 186ft. from MHWL and approximately 50 ft. west of a large seagrape bush.

Note A Photo 42830

0204. The center of a seagrape-like bush on side of a sand dune, 90 ft. east of a large sand dune and 290ft. NNE from MHWL.

Note A Photo 42829

0205. The center of a 30 ft. tall Australian pine tree approximately 200 ft. north of a clump of Australian pines which are the last pines to the south and 422 ft. NNE of MHWL.

Note A Photo 42829

0206. The center of the most northerly of a group of Australian pines 25 ft. east of MHWL and 275 ft. south of MHWL.

0207. The center of a small grass covered dune approximately 300 ft. north of a pond, 106 ft. WNW of MHWL, 270 ft. ESE of MHWL.

Note A Photo 42828

0208. The center of a seagrape-like bush on a small knoll 430 ft. NNE of MHWL, 180 ft. South of MHWL.

Note A Photo 42829

Note A: A lath with flag, projecting about 3' ft; and 1x2 stake usually projecting 1-2 ft. U.S.Govt is lettered on side of stake.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-11402

1. Projection and grids W.H.S. 2. Title W.H.S. 3. Manuscript numbers W.H.S. 4. Manuscript size _____

4a. unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations W.H.S. Bench marks XX

9. Plotting of sextant fixes XX 10. Photogrammetric plot report W.H.S. 11. Detail points W.H.S.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline W.H.S. 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features XX 19. Other along-shore cultural features XX

PHYSICAL FEATURES

20. Water features W.H.S. 21. Natural ground cover W.H.S. 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features W.H.S.

CULTURAL FEATURES

27. Roads XX 28. Buildings XX 29. Railroads XX 30. Other cultural features XX

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names W.H.S. 34. Junctions W.H.S. 35. Legibility of the manuscript W.H.S. 36. Discrepancy overlay XX 37. Descriptive Report W.H.S. 38. Field inspection photographs W.H.S. 39. Forms W.H.S.

40. William H. Shearouse
William H. Shearouse
 Reviewer

Jesse A. Giles
Jesse A. Giles
 Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

 Compiler

 Supervisor

43. Remarks:

TIDE COMPUTATION

PROJECT NO. Ph-6146 T-11402

Time and date of exposure 1245 1 Dec 1953 Reference station Tampa Bay Mean range 1.0
 Date of field inspection Aug. 1956 Subordinate station Port Boca Grande, Charlotte Harbor Ratio of ranges 0.7

	Time		Height feet	Height x Ratio of ranges	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			h.	m.			
High tide	10	06	1.0	0.7	11	41	15	48	
Low tide	14	13	0.8	0.6	1	35	-1	35	
Duration of rise or fall	4	07		0.1		10		14	13

	h.	m.	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	Feature bares	Stage of tide above MLW	Feature above MLW	feet	Photo. No.
Time H. T. or L. T.	17	13				Feature bares	Stage of tide above MLW	Feature above MLW		
Required time	12	45				Feature bares	Stage of tide above MLW	Feature above MLW		
Interval	1	28				Feature bares	Stage of tide above MLW	Feature above MLW		42838
Time H. T. or L. T.						Feature bares	Stage of tide above MLW	Feature above MLW		
Required time						Feature bares	Stage of tide above MLW	Feature above MLW		
Interval						Feature bares	Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.						Feature bares	Stage of tide above MLW	Feature above MLW		
Required time						Feature bares	Stage of tide above MLW	Feature above MLW		
Interval						Feature bares	Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.						Feature bares	Stage of tide above MLW	Feature above MLW		
Required time						Feature bares	Stage of tide above MLW	Feature above MLW		
Interval						Feature bares	Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.						Feature bares	Stage of tide above MLW	Feature above MLW		
Required time						Feature bares	Stage of tide above MLW	Feature above MLW		
Interval						Feature bares	Stage of tide above MLW	Feature above MLW		

Computed by R. M. Smith Checked by 115

Review Report
Shoreline Maps
T-11401 thru T-11406
April 1965

61. General Statement

Area - The project encompasses the west coast of Florida from Venice to Big Hickory Pass, including Charlotte Harbor and Fort Myers.

Purpose - The object of this project is to provide shoreline and horizontal control data for hydrographic surveys, and to provide data for nautical chart revisions.

62. Comparison with Registered Topographic Surveys

T-5861	1:10,000	1944
T-5862	1:10,000	1944
T-5863	1:10,000	1944
T-5864	1:10,000	1944
T-5871	1:10,000	1943
T-5872	1:10,000	1943
T-5873	1:10,000	1942
T-5882	1:10,000	1943
T-5883	1:10,000	1943

There are cultural and shoreline changes due the difference in the time interval. T-11401 thru T-11406 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

Fort Myers	1:24,000	1958
Fort Boca Grande	1:24,000	1958
Bokeelia	1:24,000	1958
Motlacha	1:24,000	1958
Fort Myers NW	1:24,000	1958

Due to new construction there are cultural and shoreline differences.

64. Comparison with Contemporary Hydrographic Surveys

H-8195	1:10,000	1960
H-8196	1:20,000	1959
H-8362	1:20,000	1960
H-8555	1:10,000	1960
H-8358	1:10,000	1957

Shoreline and control was furnished prior to the hydrographic surveys.

65. Comparison with Nautical Charts

856 80
1255

1:40,000
1:80,000

1964
1962 revised to 1963

Differences exist. However, there are no items to be applied immediately.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the requirements for adequacy and accuracy.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles Shenn
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

E. E. Laugh 7/26/65
Chief, Photogrammetry Division

