

11398

Diag. Cht. No. 1255.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline
Field No. Ph-146	Office No. T-11398
LOCALITY	
State	Florida
General locality	Gulf Coast
Locality	Lacosta Island to Boca Grande
1953-58	
CHIEF OF PARTY	
H.C.Applequist, Chief of Field Party	
LIBRARY & ARCHIVES	
DATE	February 1965

USCOMM-DC 5087

11398

DESCRIPTIVE REPORT - DATA RECORD

T- 11398 ✓

PH 146

Project No. (II): ~~2733-6~~ ✓

Quadrangle Name (IV):

Field Office (II): Boca Grande, Florida

Chief of Party: H. C. Applequist ✓

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: H. C. Applequist ✓

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

Amendment No. 1 - 9 Nov. 1954 ✓

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): Graphic ✓

Manuscript Scale (III): 1:10,000 ✓

Stereoscopic Plotting Instrument Scale (III): Inapplicable ✓

Scale Factor (III):

Date received in Washington Office (IV):

MAR 28 1957

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): MHW ✓

Mean sea level except as follows:  
Elevations shown as (25) refer to mean high water  
Elevations shown as (6) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): BOCA GRANDE LIGHTHOUSE, 1934 ✓

Lat.: 26° 44' 29" .982 (922.7m) ✓

Long.: 82° 15' 49" .079 (1356.2m) ✓

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.

FORM 181a  
(4-23-54)

## DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

SHORELINE SURVEY

Areas contoured by various personnel  
(Show name within area)  
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): E. T. Ogilby ✓  
W. H. Shearouse

Date: August 1955 ✓

Planetable contouring by (II): Inapplicable ✓

Date:

Completion Surveys by (II): Inapplicable ✓

Date:

Mean High Water Location (III) (State date and method of location): July 1955 Air Photo compilation ✓

Projection and Grids ruled by (IV): Austin Riley (V.O.)

Date: 25 Jan. 1955 ✓

Projection and Grids checked by (IV): Austin Riley (W.O.)

Date: 31 Jan. 1955 ✓

Control plotted by (III): R. J. Pate

Date: 6 June 1955 ✓

Control checked by (III): R. E. Smith

Date: 6 June 1955 ✓

~~Radial Plot or Stereoscopic~~

Date: 20 July 1955 ✓

~~Control extension~~ by (III): M. M. Slavney ✓

Stereoscopic Instrument compilation (III):  
Planimetry  
Contours Inapplicable ✓

Date:

Date:

Manuscript delineated by (III): I. I. Saperstein

Date: 28 Sept. 1955 ✓

Photogrammetric Office Review by (III): J. A. Giles

Date: 21 June 1956 ✓

Elevations on Manuscript

checked by (II) (II): Inapplicable ✓

Date:

# DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C.&G.S. Nine-lens

Number	Date	Time	Scale	Stage of Tide
12826	1 Dec. 1953	12:44	1:10,000	0.6
12827	"	12:45	"	"
12828	"	12:45	"	"

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): 8  
~~Shoreline (Less than 200 meters to opposite shore) (III):~~  
Control Leveling - Miles (II): Inapplicable  
Number of Triangulation Stations searched for (II): 2  
Number of BMs searched for (II): 7  
Number of Recoverable Photo Stations established (III): 2  
Number of Temporary Photo Hydro Stations established (III): 26

Recovered: 2  
Recovered: 7  
Identified: 6 \*\*  
Identified: 0\*

Remarks: \* Tidal BM 3 was plotted on sheet from description  
\*\* Four were established.

THE FIELD INSPECTION REPORT IS

SUBMITTED WITH T-11396

COMPILATION REPORT T-11398PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11396. ✓

31. DELINEATION

The graphic method was used. Although the tone and quality of the photographs were good, the scale was only fair. The field inspection was good and no difficulty was encountered in the interpretation of the photographs or in the delineation of the manuscript. ✓

32. CONTROL

See photogrammetric plot report. ✓

33. SUPPLEMENTAL DATA

None used. ✓

34. CONTOURS AND DRAINAGE

Not applicable. ✓

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. All alongshore features, low-water line and shoal areas were delineated according to the field inspectors' notes. ✓

*1958 photos were used for minor corrections*

36. OFFSHORE DETAILS

No unusual problems were encountered in compiling offshore details. ✓

37. LANDMARKS AND AIDS

The landmarks were submitted to the Washington Office 14 June 1956. Fixed aids to navigation were submitted to the Washington Office 21 December 1955. ✓



### 38. CONTROL FOR FUTURE SURVEYS

Two (2) topographic stations have been recovered. Twenty six (26) photo-hydro stations have been established. Form 524 has been submitted for each of the topographic stations.

A list of the foregoing has been prepared and included under Item 49.

### 39. JUNCTIONS

A satisfactory junction has been made with T-11395 to the north; T-11399 to the east; T-11402 to the south; There is no contemporary survey to the west.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

### 46. COMPARISON WITH EXISTING MAPS

Comparison has been made with C&GS Planimetric Maps T-5859 and T-5861, scale 1:10,000 edition of 1943.

No appreciable difference was noted on T-5859. However, on T-5861, considerable shoreline erosion has taken place on the west and south shore of Gasparilla Island; also minor changes on the Gulf shore of LaCoasta Island. An island to the west of LaCoasta Island has built up and is not shown on the 1943 planimetric map.

### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS Chart No. 474, scale 1:40,000, published July 1947, corrected to 6 April 1953.

The chart compares favorably with the manuscript. The maps listed under Item 46 appear to be the source of the topography of the nautical chart and virtually the same differences exist.

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

### ITEMS TO BE CARRIED FORWARD

None.

*Approved & Forwarded:*  
*H. C. Applequist*  
H. C. Applequist  
Chief of Party

*Irving I. Saperstein*  
I. I. Saperstein  
Carto Photo Aid.



48. GEOGRAPHIC NAME LIST

BOCA GRANDE ✓  
BOCA GRANDE (town) ✓

CHARLOTTE HARBOR ✓

FLORIDA ✓

GASPARILLA ISLAND ✓  
GULF OF MEXICO ✓

LACOSTA ISLAND ✓

PORT BOCA GRANDE ✓

SEABOARD AIRLINE RAILROAD ✓

U.S. COAST GUARD LIGHTHOUSE ATTENDANT STATION ✓

*A. J. Wraight*  
*Geog. Names Sec.*

49. NOTES FOR THE HYDROGRAPHER:

The following is a list of 26 photo-hydro signals with a description for each:

9801. Broad leafed bush, 6 ft. tall, 15 ft. North of flag-stone walk, 18 ft. east of seawall, on lawn of gray house with dark shingle roof.

Not marked. Photo 42827

9802. Northwest corner of white building green trimmed with sundeck railing around top. Building is seaward of 2 and flat topped.

Not marked. Photo 42827(Pricked)

9803. Peak of roof of hotel building. 8 sides rising to center peak.

Photo 42827

9804. Clump of Yucca Plants(Spanish Bayonet) at edge of 3 ft. bluff and southerly of 2 similar clumps.

Marked Note A. Photo 42827

9805. Lone cabbage palm tree about 25 ft. NW of clump of 6, and 19 ft. from MHWL; also on 4 ft. bluff.

Marked Note A Photo 42827

9806. Palm tree with another palm stump right beside it. It is inland a bit from the bluff, and 29 ft. in from MHWL.

Marked Note A. Photo 42827

9807. Palm tree just seaward from low shell ridge, 51 ft. from MHWL and 30 ft. west of edge of road.

Marked Note A. Photo 42827

9808. Palm tree opposite mouth of sand road leading SE off of macadam road.

Marked Note A Photo 42827

9809. Pile at outside of seawall and about 4 ft. east of shore end of grain, this being most southerly of 5 groins.

Marked by flag and stake nailed to piling.

Photo 42827

9810. Gable of west end of Westerly phosphate warehouse.

Photo 42827

9811. Center of small geagrape-like bush, about 30 ft. inshore from grass line, 84 ft. inshore from MHWL, and 48 ft. NW of a lone palm. In front of large cluster or hammock of palm trees.

Marked Not. A. Photo 42828

9812. Point of vegetation on north side of sand opening at 2-4 ft. bluff, 60 ft. from MHWL.

Marked Note A. Photo 42828

9813. Small dead bush on bluff(2ft.) at MHWL and immediately in front of low green patch of brush.

Marked Note A. Photo 42828

9814. Low, vine-like bush approximately 1000ft. north of northerly large Australian pine, at west edge of low sand ridge, in front of and between 2 palm clumps, and 260 ft. east of MHWL.

Marked Note A. Photo 42828

Also there is a 1x1 inch stick driven in ground behind a palm log lying on beach at grass line. The stake projects 3 ft.

9815. Center of seagrape-like bush.

Marked Note A. Photo 42828

9816. Center of low green twig-like bushes at high-water line and about 325 ft. north of mangrove shoreline.

Marked Note A. Photo 42827

9817. NE end of mangrove clump in small cove in mangrove shoreline.

Marked Note A-flag. Photo 42827

9818. Small mangrove bush in first opening in mangrove shoreline from north.

Marked Note A Photo 42827

9819. Green bush about 100 ft. south of South end of rock rip-rap.

Marked Note A. Photo 42827

9820. North end of conveyor duct at outer end of loading pier for ships; about 50 ft. above water.

Photo 42828

9821. Seaward end of bulkhead at south side of small pass into pond.

Not flagged Photo 42827

9822. South end of elevated part of conveyor rig on pier.

Photo 42827

9823. The center of a small grass covered dune 225 ft. SE of MHWL, 180 ft. NW of MHWL.

Note A. Photo 42828

9824. The center of a oak-like bush in a grassy clearing, 33 ft. from MHWL.

9825. The center of a small oak-like bush in a sand clearing 35 ft. from MHWL.

Note A. Photo 42828.

Note A: Lath with small flag usually projecting 3 ft. and 1 x 2 inch stake nearby and usually projecting 1-2 feet. Both have "U.S. Govt." on sides.

9826. Easterly of 2 palm trees about 27 feet apart and on MHWL. Photo 42828

Two (2) recoverable topographic stations:

SAMPLING TOWER (1943) 1955

B.G. 9 U.S.E. (1935) 1955

- An obstruction, reported on Chart 474, at approximate Latitude  $26^{\circ}43'04''$  Longitude  $82^{\circ}15'17''$  should be investigated by the hydrographer.

## PHOTOGRAMMETRIC OFFICE REVIEW

50

T- 11398

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.  
 4a. Classification label 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) J.G. 7. Photo hydro stations J.G. 8. Bench marks J.G.  
 9. Plotting of sextant fixes J.G. 10. Photogrammetric plot report J.G. 11. Detail points J.G.

## ALONGSHORE AREAS

(Nautical Chart Data)

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

## PHYSICAL FEATURES

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

## CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.

## BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

## MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay XX 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.  
 40. Jesse A. Giles William A. Rasure  
 Jesse A. Giles Reviewer Supervisor, Review Section or Unit/Im. 4. Rasure

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. 146 T. 11398

Time and date of exposure 12 45 Dec. 1953 Reference station Tampa Bay Mean range 1.0  
 Date of field inspection 12 45 Dec. 1953 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	Time		Low tide at Ref. Sta. Time difference	Corrected time at Subordinate station
	h.	m.			h.	m.			h.	m.		
High tide	10	06	1.0	0.7	11	41			11	41		
Low tide	14	13	0.8	0.6								
Duration of rise or fall	4	07		0.1					10	06		

	h. m.		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
	h.	m.					
Time <del>H. T.</del> or L. T.	14	13	Ht. <del>H. T.</del> or L. T.	0.6	Feature bares		42827
Required time	12	45	Tabular correction	0.0	Stage of tide above MLW		
Interval	1	28	Stage of tide above MLW	0.6	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		

Review Report  
Shoreline Maps  
T-11395 thru T-11400  
March 1965

61. General Statement

Area - The project encompasses the west coast of Florida from Venice to Big Hickory Pass, including Charlotte Harbor and Port 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-5859	1:10,000	1944
T-5860	1:10,000	1944
T-5861	1:10,000	1944
T-5862	1:10,000	1944
T-5873	1:10,000	1944
T-5874	1:10,000	1944
T-5875	1:10,000	1944

There are cultural and shoreline changes due to the differences in the time interval. T-11395 thru T-11400 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

Placida	1:24,000	1957
Punta Gorda SW	1:24,000	1957
Punta Gorda SE	1:24,000	1956
Port Boca Grande	1:24,000	1958
Bokeelia	1:24,000	1958
Natlacha	1:24,000	1958

There are no significant differences.

64. Comparison with Contemporary Hydrographic Surveys

H-8193	1:10,000	1956
H-8194	1:10,000	1957
H-8195	1:10,000	1960
H-8196	1:20,000	1959
H-8358	1:10,000	1957
H-8361	1:10,000	1959

Shoreline and control of subject surveys was furnished prior to the hydrographic surveys and apparently no differences of importance exist.



65. Comparison with Nautical Charts

856 SC	1:40,000	1964
857 SC	1:40,000	1964
1255	1:80,000	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 required accuracy for nautical charting.

Reviewed by:

*L. C. Lande*  
L. C. Lande

Approved by:

*Charles L. Lander*  
Chief, Photogrammetric Branch    Chief, Nautical Chart Division

*M. E. Nalle*  
for Chief, Photogrammetry Division

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11398

## 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

[illegible]