

11391

Diag. Cht. No. 1255.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline
Field No. Ph-1146	Office No. T-11391
LOCALITY	
State	Florida
General locality	Charlotte Harbor
Locality	Alligator Creek to Peace
River	
1953-59	
CHIEF OF PARTY	
A.L.Wardwell, Tampa Photo. Office	
LIBRARY & ARCHIVES	
DATE	February 1965

USCOMM-DC 5087

11391

DESCRIPTIVE REPORT - DATA RECORD

T - 11391

Project No. (II): Ph-146

Quadrangle Name (IV):

Field Office (II): Punta Gorda, Fla.

Chief of Party: A. L. Wardwell

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: A. L. Wardwell

Instructions dated (II) (III): 2 July 1954
Amendment 1 9 Nov. 1954
Supplement 1 17 Nov. 1956

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): None

Date received in Washington Office (IV): MAY 5 1959

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 (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): PUNTA GORDA 2, 1943

Lat.: $26^{\circ}53'32.350''$ (995.6 m) Long.: $82^{\circ}05'32.568''$ (898.8 m)

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.

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): E. T. Jenkins
G. E. Varnadoe

Date: December 1956
January 1959

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II): Inapplicable

Date:

Mean High Water Location (III) (State date and method of location): Air Photo Compilation
Date of photography 1 Dec. 1953 and 21 Oct. 1958

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

Date: Sept. 1954

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

Date: Sept. 1954

Control plotted by (III): I. I. Saperstein

Date: 2 Feb. 1956

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

Date: 3 Feb. 1956

Radial Plot ~~or Stereoscopic~~

Date: 6 Mar. 1956

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

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Inapplicable

Date:

Manuscript delineated by (III): W. H. Shearouse
R. Dossett

Date: October 1958

Photogrammetric Office Review by (III): Jesse A. Giles
W. H. Shearouse

Date: March 1959

Elevations on Manuscript
checked by (II) (III): In applicable

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Nine lens and Wild "S"

4

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
42950	1 Dec. 1953	14:26	1:10,000	0.7 Ft.
42951	" " "	14:27	"	"
42952	" " "	14:28	"	"
42953	" " "	14:29	"	"
42969	" " "	14:49	"	"
42970	" " "	14:50	"	"
42971	" " "	14:51	"	"
58-S-1427A	21 Oct. 1958	11:54	Ratio to	1.1 Ft.
thru	" " "			
58-S-1430A	" " "	11:54	" " "	"
58-S-1431A	" " "	11:55	" " "	"
thru				
58-S-1434A	" " "	11:55	" " "	"
58-S-1666A	" " "	14:01	" " "	"
58-S-1667A	" " "	" Tide (III)	Predicted	"
58-S-1668A	" " "	14:02	" " "	"
58-S-1669A	" " "	14:02	" " "	"

Reference Station: TAMPA BAY
Subordinate Station: PUNTA GORDA
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
--	1.5	2.0
0.9	1.4	1.9

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): 15
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): 23
Number of BMs searched for (II): 0
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 35

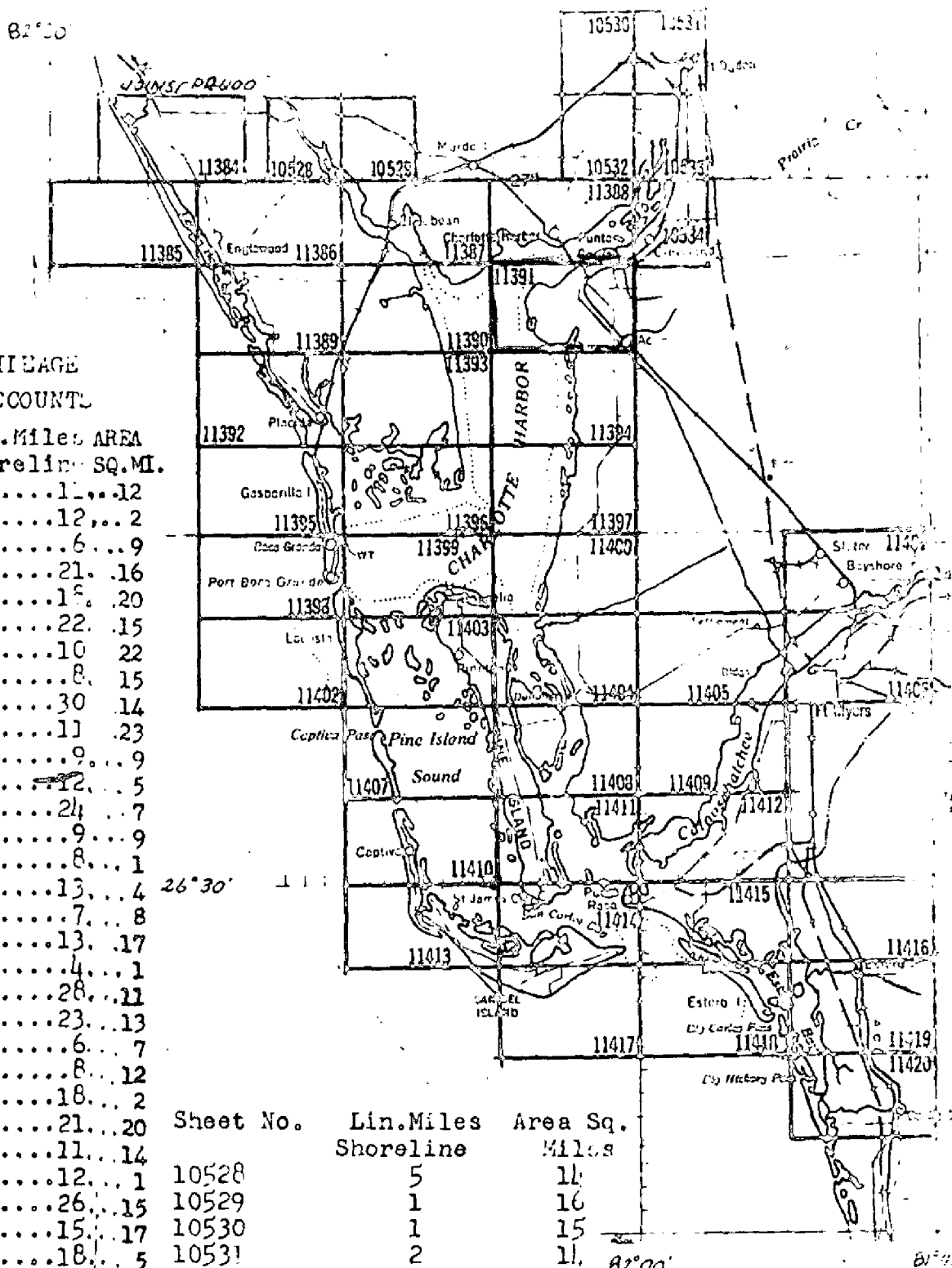
Recovered: 22 Identified: 8
Recovered: 0 Identified: 0

Remarks:

OFFICIAL MILEAGE
FOR COST ACCOUNTSSheet Lin. Miles AREA
Nos. Shoreline SQ. MI.

T-11384	12	12
T-11385	12	2
T-11386	6	9
T-11387	21	16
T-11388	15	20
T-11389	22	15
T-11390	10	22
T-11391	8	15
T-11392	30	14
T-11393	11	23
T-11394	9	9
T-11395	12	5
T-11396	24	7
T-11397	9	9
T-11398	8	1
T-11399	13	4
T-11400	7	8
T-11401	13	17
T-11402	4	1
T-11403	28	11
T-11404	23	13
T-11405	6	7
T-11406	8	12
T-11407	18	2
T-11408	21	20
T-11409	11	14
T-11410	12	1
T-11411	26	15
T-11412	15	17
T-11413	18	5
T-11414	27	11
T-11415	23	19
T-11416	4	6
T-11417	6	3
T-11418	11	4
T-11419	18	12
T-11420	17	12
Totals	540	393

Sheet No.	Lin. Miles Shoreline	Area Sq. Miles
10528	5	11
10529	1	16
10530	1	15
10531	2	11
10532	2	11
10533	6	12
10534	5	13
Totals	22	98
	51.0	393
Grand Totals	562	491



THE FIELD INSPECTION REPORT
is SUBMITTED WITH T-11394

COMPILATION REPORT
T-11391

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11396

31. DELINEATION

The graphic method was used. The scale of the photographs was good. No difficulty was experienced in photographic interpretation.

Field inspection was satisfactory.

32. CONTROL

Reference Photogrammetric Plot Report

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage has been delineated according to field inspection notes and photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

Practically all shoreline is apparent except for stone bulkheads along Punta Gorda waterfront. The field inspection was adequate for shoreline features. Low-water and shallow lines were delineated according to field inspection notes.

36. OFFSHORE DETAILS

Offshore details such as piles, dolphins, shoals, etc. were compiled in accordance with field inspection notes.

37. LANDMARKS AND AIDS

Form 567 for Landmarks was submitted to Washington under date of 3 August 1956. One new landmark was established in 1959. Form 567 is included with this report. Form 567 covering the non-floating aids to navigation was submitted 13 August 1956

38. CONTROL FOR FUTURE SURVEYS

There are no recoverable topographic stations.

Thirty-five (35) photo-hydro stations were established. Descriptions of these photo-hydro stations are included in paragraph 49.

39. JUNCTIONS

Junction is made with survey T-11388 on the north
T-11390 on the west
T-11394 to the south

This survey lies within U. S. Geological Survey quadrangle PUNTA GORDA. Details along the eastern limits of delineation are in good agreement with the G.S. quadrangle.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS Planimetric Map T-5876 scale 1:10,000, dated 1943 and with U.S. Geological Survey quadrangle PUNTA GORDA, FLA., scale 1:24,000 compiled from 1951 aerial photographs and published in 1958. Significant changes are man-made land developments and this new manuscript should supercede the older ones.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Nautical Chart No. 1255, scale 1:80,000, 5th edition dated March 1929 and revised to 20 Feb. 1956. The land details and topography apparently were taken from Map T-5876. Therefore the same differences exist as mentioned under paragraph 46.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

William H. Shearouse
William H. Shearouse
Cartographer (Photo)

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST

ALLIGATOR CREEK
ALLIGATOR CREEK (NORTH FORK)
AQUI ESTA
ATLANTIC COAST LINE

CHARLOTTE HARBOR

FLORIDA

MANGROVE POINT

PEACE RIVER
PUNTA GORDA
PUNTA GORDA (CITY)

A. J. Wright
Geog. Names Sec.

**TO BE CHARTED
UNRECORDED**

Tampa Photo Office

13 March, 1959

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the charts)~~ the charts indicated.

The positions given have been checked after listing by **B. Doesselt**

Arthur I. Hurd

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

49. NOTES FOR THE HYDROGRAPHER

The following is a list of nineteen (19) photo-hydro stations with pertinent data. Note "A" means a short 1" x 2" stake with top portion painted white with U. S. Govt. painted in black and there is a 1" x 1" taller stake nearby with a small white flag attached. Note "B" means on or nearby and higher is tied a 2-foot white cloth streamer:

- 9110 - The extreme west end of a small mangrove point that is located on the north side of the mouth of a small stream. Note A & B Photo 42951.
- 9111 - A flagged 2x2 driven 3 feet into the mud and sand about 20 feet west of the mangrove shoreline. Station is on line between a cross blazed palm tree and Mangrove Point Light, 1956. Distance from palm to station is 73 feet. Note A. Photo 42951.
- 9112 - A flagged 2x4 that is about 1 meter west of the mangrove shoreline near the center of a point of mangrove. Note A & B.
- 9113 - A flagged 2x2 driven into the mud and sand at the west tip of a point of mangrove that is about 1400 feet south of the southwest edge of the Punta Gorda Municipal Beach. Note A & B.
- Destroyed* 9114 - A lone mangrove tree with little foliage that grows on the north side of the mouth of a new ~~channel~~ *channel* for small boats. The mouth of this channel is at the southwest corner of the Punta Gorda Municipal Beach. Note A & B.
- 9115 - A flagged 2x2 driven into the mud and sand at the west edge of the mangrove. The station is near the center of a point of mangrove that is about 1100 feet north of the southwest corner of the Punta Gorda Municipal Beach. Note A & B.
- 9116 - The north, northwest end of a dead mangrove tree trunk that lies at the north northwest end of a small oyster bar. Station is marked with flagged 2x2 driven into the sand. Note A. Photo 42951.
- 9117 - A flagged 2x2 driven into the sand and mud at a point of mangrove that is at the northwest corner of a larger point of mangrove. Note A & B. Photo 42951.
- 9118 - A flagged 2x2 driven into the mud and sand at a corner of mangrove that is at the southwest corner of a larger point of mangrove. Note A & B. Photo 42951.

- 9119 - An 8-foot flagged pole driven into the mud and sand about one meter beyond the mangrove shoreline. Station is 196 feet west of Triangulation Station COOPER, 1909. Note A & B. Photo 42952.
- 9120 - A flagged 8-foot pole driven into the mud and sand just beyond the mangrove shoreline about 1200 feet east of Triangulation Station COOPER, 1909. Note A & B.
- 9121 - A flagged 7-foot pole driven into the water about 40 feet north of the mangrove shoreline and about 2400 feet east of Triangulation Station COOPER, 1909. The station is 40 feet north of the stern of a small wrecked boat. Note A & B.
- 9122 - A flagged 7-foot pole driven into the mud and sand, approximately 60 feet north of the mangrove shoreline, about 12 feet northwest of a small clump of grass in water, near the end of an old railroad fill. Note A.
- 9123 - A 7-foot flagged pole driven into the mud and sand on the west side of the mouth of a new cut ditch. There is a bridge across this ditch about 100 feet inshore from the station.
Note A. Photo 42952.
- 9124 - The center of a small mangrove bush that grows at the M.H.W.L. The bush is about 15 feet west of the shore end of a fence that leads out into the water. Note A & B. Photo 42952.
- 9125 - The northwest gable of a large tin covered building that sits on the northwest corner of a large wharf that is used partly by the Gulf Oil Co. Station is not marked in any way. Photo 42952.
- 9126 - The offshore end of a small pier that leads offshore from near the mouth of a large ditch. There is a green crab bait box on the offshore end of the pier. Station is not marked. Photo 42952.
- 9127 - The center of a concrete block that was once part of the foundation of a wharf. The block is in the second line of blocks from the southwest side and it is the third block inshore. Note A. Photo 42952.
- 9128 - The northwest corner of a wooden pier that leads out from a stone bulkhead. This pier is just east of a filled area that is used as a boat launching slip. The corner of the pier has a sign on it that advertises Evinrude outboard motors. Station is not marked. Photo 42952.

The following is a list of eight (8) fourth-order temporary traverse stations with pertinent data. This traverse was run offshore on a shoal and was used to locate hydro stations where well defined points did not appear on the photographs:

- SPG-0 - A 2x4 driven 3 feet into the sand shoal and extending about 4 feet above shoal, painted in black on the shore side of the 2x4 is SPG-0.
- SPG-1500 - A 2x4 driven in the sand shoal and projecting about 4 feet above the shoal, painted in black on the shore side of the 2x4 is SPG-1500.
- SPG-3000 - A 2x4 driven into and projecting about 4 feet above the sand shoal, painted in black on the shore side of the 2x4 is SPG-3000.
- SPG-4500 - A 2x4 driven into and projecting about 4 feet above the sand shoal, painted in black on the shore side of the 2x4 is SPG-4500.
- SPG-6000 - A 2x4 driven into and projecting about 4 feet above the sand shoal, painted on the shore side of the 2x4 is SPG-6000.
- SPG-7500 - A 2x4 driven into and projecting about 4 feet above the sand shoal, painted on the shore side of the 2x4 is SPG-7500.
- SPG-9000 - A 2x4 driven into and projecting about 4 feet above the sand shoal, painted on the shore side of the 2x4 is SPG-9000.
- SPG-10,200 - A 2x4 driven into and projecting about 8 feet above the water, painted on the shore side of the 2x4 is SPG-10,200.

The following is a list of nine (9) hydro stations located from above traverse with pertinent data:

- 9101 - A 2x4 driven 3 feet into the mud and sand and extending approximately 3 feet above water, located approximately 500 feet east of the channel into Alligator Creek at a point of mangrove. Note A & B.
- 9102 - A 2x4 driven 3 feet into the mud and sand at the edge of a mangrove point that is located approximately 500 feet northwest of the mouth of Alligator Creek. 2x4 extends approximately 3 feet above water. Note A & B.
- 9103 - A 2x4 driven 3 feet into the mud and sand and extending 3 feet above water, located on the south side of a mangrove island that sits on the west side of a mud and sand bar. This mangrove island is approximately 2000 feet west of the mouth of Alligator Creek. Note A & B.
- 9104 - A 2x4 driven 3 feet into the mud and extending 3 feet above water, located at the edge of a point of mangrove that lies approximately 800 feet west of the mouth of a small stream. Note A & B.

50

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11391

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS
4a Classification label Unclassified

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) WHS 7. Photo hydro stations JAG 8. Bench marks XX
9. Plotting of sextant fixes WHS 10. Photogrammetric plot report MMS 11. Detail points WHS

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report WHS 38. Field inspection photographs JAG 39. Forms WHS
40. William H. Shearouse M. M. Slavney
Reviewer 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

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. 146 T-11391

Time and date of exposure 1 Dec. 1953

Reference station

Tampa Bay

Mean range

1.4

Date of field inspection

Subordinate station

Punta Gorda, Charlotte Harbor

Ratio of ranges

0.9

	Time	
	h.	m.
High tide	12	01
Low tide	10	08
Duration of rise or fall	4 07	

	Height feet	Height x Ratio of ranges
High tide	1.0	0.9
Low tide	0.8	0.7
Range of tide	2	2

	Time	
	h.	m.
High tide at Ref. Sta.	11	41
Time difference	+20	
Corrected time at Subordinate station	12 01	

	Time	
	h.	m.
Low tide at Ref. Sta.	15	48
Time difference	+20	
Corrected time at Subordinate station	16 08	

	h.	m.	Height feet	Height x Ratio of ranges	Time h. m.	Photo. No.
Time H. T. or L. T.	16	08	Ht. H. T. or L. T.			
Required time	14	40	Tabular correction			
Interval	1	28	Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			

Computed by R. P. Williams Checked by James B. Giler

TIDE COMPUTATION

PROJECT NO. Ph- 146 T. 11391

Time and date of exposure 151 Oct 21, 1958 Reference station Tampa Bay Mean range 1.4
 Date of field inspection Dec. 1958 Subordinate station Punta Gorda, Charlotte Harbor Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	High tide Low tide Range of tide	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	09	27	1.7	1.4	High tide	08	52	High tide at Ref. Sta.	08	52	Low tide at Ref. Sta.
Low tide	16	16	0.1	0.1	Low tide	10	31	Time difference	10	31	Time difference
Duration of rise or fall	6	49		1.3	Range of tide			Corrected time at Subordinate station	09	27	Corrected time at Subordinate station

	h.	m.	feet	Photo. No.
Time H. T. or L. T. Required time Interval	9 27 11 54 2 27		Feature bares Stage of tide above MLW Feature above MLW	585 1430
Time H. T. or L. T. Required time Interval			Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval			Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval			Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval			Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval			Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval			Feature bares Stage of tide above MLW Feature above MLW	

Computed by R. D. Smith Checked by R. D. Smith M-2617-12

Review Report

Shoreline Maps

T-11389 thru T-11394

February 1965

61. General Statement

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

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-5856	1:10,000	1944
T-5857	1:10,000	1944
T-5858	1:10,000	1944
T-5859	1:10,000	1944
T-5860	1:10,000	1944
T-5875	1:10,000	1944
T-5876	1:10,000	1944

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

Englewood	1:24,000	1956
El Jobean	1:24,000	1957
Punta Gorda	1:24,000	1957
Punta Gorda SE	1:24,000	1956
Punta Gorda SW	1:24,000	1957
Placida	1:24,000	1957

There are cultural and shoreline changes but, in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8153	1:20,000	1955
H-8155	1:10,000	1955
H-8192	1:10,000	1956
H-8193	1:10,000	1956
H-8357	1:10,000	1957
H-8360	1:10,000	1959

64. Comparison with Contemporary Hydrographic Surveys(cont'd)

H-8469	1:10,000	1959
H-8470	1:10,000	1959

Shoreline and control was furnished prior to hydrography and no changes of importance exist.

65. Comparison with Nautical Charts

1255	1:80,000	1956
857 SC	1:40,000	1964

There are only minor differences that exist. However, there are no items to be applied immediately.

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 L. Lander
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

M. E. Mathis
Sov Chief, Photogrammetry Division

