

11417

Original

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-11417
LOCALITY	
State	FLORIDA
General locality	SANIBEL ISLAND
Locality	YBEL
1953 - 1958	
CHIEF OF PARTY	
Arthur L. Wardwell, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

11417

DESCRIPTIVE REPORT - DATA RECORD

T -11417

Project No. (II): Ph-146

Quadrangle Name (IV):

Field Office (II): Matlacha, Fla.

Chief of Party: H. C. Applequist

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: A. L. Wardwell

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

Copy filed in Division of
Photogrammetry (IV)

Amendment 1 9 Nov. 1957

Supplement 1 17 Dec. 1956

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 17 1960

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): MBW

~~Mean Low Water~~ 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): GLASS 1955

Lat.: 26°26'09.829" (302.5 m)

Long.: 82°07'26.359" (730.3 m)

Adjusted

~~Mean Low Water~~

Plane Coordinates (IV):

State:

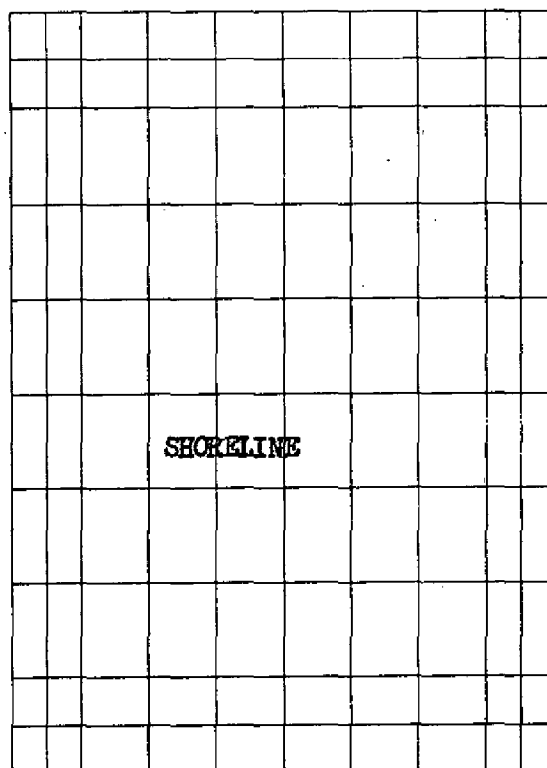
Zone:

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.



Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

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

Date: **Oct. 1956**

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**
Date of photography: 21 Oct. 1958

Projection and Grids ruled by (IV): **A.R. (W.O.)**

Date: **Jan. 1955**

Projection and Grids checked by (IV): **A. R. (W.O.)**

Date: " "

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

Date: **Aug. 1958**

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

Date: " "

Radial Plot ~~or Stereoscopic~~

Date: **Oct. 1958**

~~Control checked~~ by (III): **R. R. Wagner**

Planimetry

Date:

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

Contours

Date:

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

Date: **Oct. 1959**

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

Date: **Nov. 1959**
Jan. 1960

Elevations on Manuscript

checked by (II) (III): **Inapplicable**

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **USC&GS 9-lens**
Wild Single-lens "S"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
42885	1 Dec. 1953	13:35	1:10,000	0.9
42876	"	13:32	"	"
58-SL483A	21 Oct. 1958	12:22	"	0.6
58-SL588A	"	13:22	"	0.5

Predicted Tide (III)

Reference Station: **St. Marks River Entrance**
Subordinate Station: **Point Ybel San Carlos River Entr. (9-lens)**
Subordinate Station: " " " " " " (single ")

Ratio of Ranges	Mean Range	Spring Range
-	2.4	3.1
0.8	1.8	2.4
0.75	1.8	2.4

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): **3**
Shoreline (More than 200 meters to opposite shore) (III): **6**

~~Shoreline (More than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II): **inapplicable**

Number of Triangulation Stations searched for (II): **3**

Recovered: **3**

Identified: **1**

Number of BMs searched for (II): **None**

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): **2**

Number of Temporary Photo Hydro Stations established (III): **16**

Remarks:

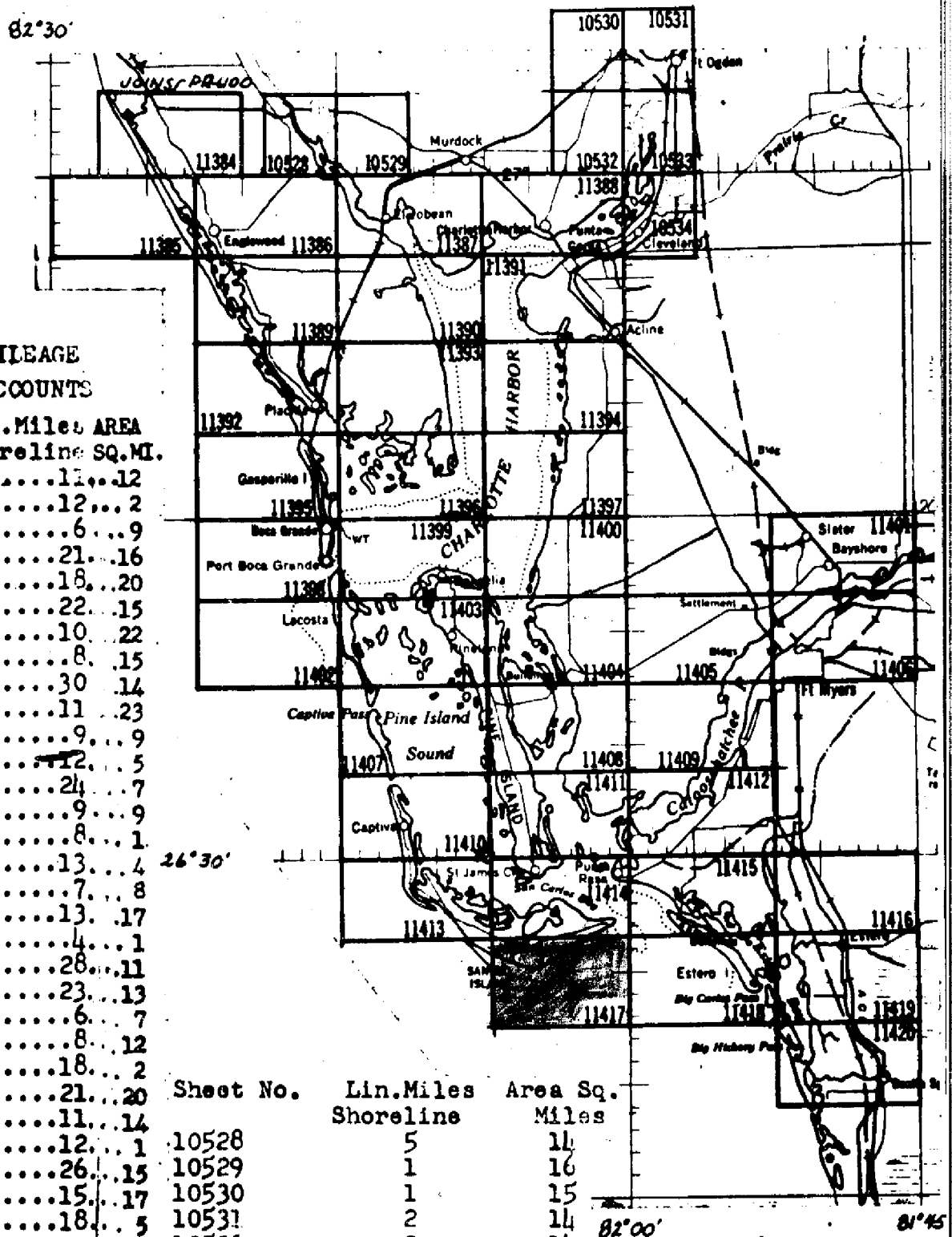
Charlotte Harbor, FLORIDA

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

T-11384	11	12
T-11385	12	2
T-11386	6	9
T-11387	21	16
T-11388	18	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	14
10532	2	11
10533	6	12
10534	5	13

Totals	22	96
	540	393
Grand Totals	562	491



THE FIELD INSPECTION REPORT
IS SUBMITTED WITH T-11404

COMPILATION REPORTT-11417PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11411

31. DELINEATION

The graphic method was used.

The vegetation portrayal has been somewhat generalized. This was done to conform with growth changes evident on the 1958 photographs that was not noted during the 1956 inspection on the 1953 photographs.

The field inspection was adequate.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

New drainage taken from the single-lens photographs flown in 1958 has been applied to the map manuscript.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline is fast in its entirety. No mean low-water line was shown. Shoreline structures have been delineated as indicated by the field inspection. The shoreline was later revised from the 1958 single-lens photographs without benefit of field inspection.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks or aids.

38. CONTROL FOR FUTURE SURVEYS

Seventeen

Two (2) topographic stations and ~~sixteen~~ (17) photo-hydro stations were established and are listed under Item 49.

39. JUNCTIONS

A satisfactory junction has been secured with T-11414 on the north, T-11418 on the east and T-11413 to the northwest. There is no contemporary survey on the west or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USC&GS map T-5866, scale 1:10,000 compiled from photographs taken Dec. 1939 and Nov. 1940, supplemented by other surveys to 1942 and with USGS topographic quadrangle "SANIBEL FLA." scale 1:24,000, culture and drainage from aerial photographs taken 1951; topography by planetable surveys 1958. No outstanding shore-line changes were noted in either. Culture and drainage are undergoing considerable changes as indicated on this manuscript. Vegetation symbolization show small differences. The USGS quadrangle has generalized interior areas as marsh whereas T-5866 symbolized these areas as palmetto and brush. Field inspection for this map manuscript indicates these areas as marsh, mangrove, sand ridges and trees, and has been so delineated.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Nautical Chart No. 1255, scale 1:80,000, 5th edition Mar. 29, 1948 revised to Apr. 13, 1959, also nautical chart no. 473, scale 1:40,000, 5th edition, revised to Feb. 23, 1959. No outstanding discrepancy was noted.


11.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.


Rudolph Dossett
Carto-photo Aid

Approved and Forwarded:


Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST

FLORIDA

GULF OF MEXICO

SANIBEL ISLAND

YBEL

Names approved
A. J. Wrought
3-25-65

49. NOTES FOR THE HYDROGRAPHER

Following is a list of seventeen (17) photo-hydro stations with their descriptions; and two (2) topographic stations:

Note-"A": Driven at the point identified is a 1x2 inch stake, 3 ft. long with the top portion painted white, with "US GOVT" stenciled thereon in black. Nearby is a 1x1 inch stake 5 ft. long, with a small white flag attached.

Note-"B": Tied on or nearby is 2 ft. white cloth streamer.

1701 The center of the top of small Australian Pine 105 feet NE of the MHWL. This tree is the second one SE of a dirt road that leads to the beach. Stakes described in Note A are nailed to the tree about 10 feet above ground. Photo 42840

1702 The SW edge of a sea grape bush that forms a point 100 feet NE of the MHWL. There is a shell walk that leads from back of this bush to a house. This bush grows in a very small cleared area. Note A Photo 42840

GENE, 1956 At a point of vegetation, 110 feet NE of the MHWL at the east edge of a shell trail that leads to the beach, 60 feet SE of the nearer of two Australian Pines. Photo 42840

1703 The center of an Australian pine that is 85 feet NE of the MHWL and about 250 feet NW of a dim trail that leads to the beach. It is the first pine SE of a group of pines that grow near the MHWL. Stakes described in Note A are nailed to the tree about 10 feet above ground. Note B Photo 42840

1704 The center of a Australian pine that is about 4 feet above HW and 30 feet N of the MHWL. There is a white house with a white roof about 250 feet inshore from station. Stakes described in Note A are nailed to tree about 6 feet above ground. Photo 42876

1705 A point of sea grape and Spanish Bayonet that is about 4 ft. above HW, 25 feet N of the MHWL and it is the first point just west of a shell road that leads to the beach. Note A Photo 42876

1706 The south, highest gable of a white shingled house with a brown shingle roof. There is a weather vane at this gable. Station not marked. Photo 42876 Compiler gable shows best on 42875

1707 The center of a small Australian pine that is about 4 feet above HW and 30 ft. NE of the MHWL. There is a small area enclosed with barb wire just west of station. Stakes described in Note A are nailed to tree about 8 feet above ground. Photo 42876

1708 The center of the SE pine of a group of 3 Australian pines. Two of these pines are on the S side of a shuffle board slide. Note A Photo 42876

1709 The center of a lone bushy Australian pine that is about 40 feet south of a road along the beach and almost directly across the road from a driveway, and 90 ft. NE of the MHWL. The short stake described in Note A is nailed to the tree about 8 ft. above ground. Photo 42876

1710 The SW corner of a large blunt point of Sea grape at the N edge of the road about 150 feet SW of a white house with a dark shingle roof, and 54 feet N of the MHWL. Note A Photo 42876

1711 A corner of Sea Grape, 60 ft. N of the MHWL at the N edge of a shell road at the point where the road leaves the beach. Note A Photo 42876

1712 A point of low mg, 10 ft. N of the MHWL and 90 ft. east of the mouth of a small slough, the mouth of which is blocked with sand. Note A Photo 42876

1713 The center of an isolated Sea Grape bush that is about 25 feet in diameter. The bush is about midway between two large points of Sea Grapes and there are some Palm trees just N of the bush. Bush is 40 ft. N of the MHWL. Note A Photo 42885

1714 The center of a small bush, 58 ft. N of the MHWL at the east end of some tall Australian pines. Note A Photo 42885

1715 The center of a Australian pine, 105 feet NW of the MHWL about 300 ft. north of a break in the pines. The short stake described in Note A is nailed to the tree about 6 ft. above ground. Photo 42885

1716 The S end of a point of low grass on the east side of a small wash, 95 ft. NW of the MHWL. Note A Photo 42885

HEL, 1927 A bronze hydrographic disk set in the top of a 6 inch terra cotta pipe that projects 2 inches above ground, 66 ft. NE of the centerline road and 100 ft. SSW of the SW corner of a 2 story house. Note A Approx. Pos. photo 42885 (This is a triangulation station)

1717 The center of an Australian pine, 110 ft. NW of the MHWL about 50 ft. E of the end of a road. Stakes described in Note A are nailed to tree about 7 ft. above ground. Photo 42885

TOPOGRAPHIC STATIONS:

INN (1943) 1956

GENE 1956

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

50.

T- 11117

Classification label unclassified

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy WHS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) WHS 7. Photo hydro stations WHS 8. Bench marks XX 9. Plotting of sextant fixes XX 10. Photogrammetric plot report RRW 11. Detail points WHS

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline WHS 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 WHS 19. Other along-shore cultural features WHS

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 XX 29. Railroads XX 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 WHS 39. Forms WHS

40. William H. Shearouse
Reviewer

Milton M. Slavney
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. T 11417

Time and date of exposure 1333 Dec 11 1953

Reference station St Marks River Entrance

Subordinate station Point Isabel San Carlos Bay Est.

Mean range 1.8

Date of field inspection Oct 22 1956

Ratio of ranges 0.8

	Time	
	h.	m.
High tide	19	57
Low tide	15	07
Duration of rise or fall	5	10

	Height feet	Height x Ratio of ranges
High tide	1.8	1.74 ✓
Low tide	0.9	0.72 ✓
Range of tide		0.72 ✓

	Time	
	h.	m.
High tide at Ref. Sta.	11	37
Time difference	-1	40
Corrected time at Subordinate station	9	57

	Time	
	h.	m.
Low tide at Ref. Sta.	16	47
Time difference	-1	40
Corrected time at Subordinate station	15	07

	h. m.	Height feet	Height x Ratio of ranges	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.
Time H. T. or L. T. Required time Interval	15 07 13 33 1 34			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.7 0.2 0.9	Feature bares Stage of tide above MLW Feature above MLW		42883 42876
Time H. T. or L. T. Required time Interval				Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval				Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval				Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval				Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval				Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

Computed by RA

Checked by RPW

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. T-11417

Time and date of exposure Oct 22, 1956

Reference station ST. MARRS RIVER ENTRANCE

Subordinate station Point Isabel San Carlos Bay ent.

Mean range 1.8

Date of field inspection Oct 22, 1956

Ratio of ranges 0.75

	Time	
	h.	m.
High tide	7	34
Low tide	14	39
Duration of rise or fall	7	05

	Height feet	Height x Ratio of ranges
High tide	2.2	1.65
Low tide	0.4	0.3
Range of tide		1.3

	Time	
	h.	m.
High tide at Ref. Sta.	9	17
Time difference	-1	43
Corrected time at Subordinate station	7	34

	Time	
	h.	m.
Low tide at Ref. Sta.	16	18
Time difference	-1	39
Corrected time at Subordinate station	14	39

	h.	m.	Ht. H. T. or L. T.	feet	feet	Photo. No.
Time H. T. or L. T.	14	39	Ht. H. T. or L. T.	0.3		1483 A
Required time	12	22	Tabular correction	0.3		1485 A
Interval		02:17	Stage of tide above MLW	0.6		
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 STB

Checked by W

Review Report
Shoreline Maps
T-11413 through T-11420
June 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-5865	1:10,000	1943
T-5866	1:10,000	1943
T-5867	1:10,000	1943
T-5868	1:10,000	1943
T-5869	1:10,000	1943
T-5870	1:10,000	1943
T-4389	1:20,000	1927

There are cultural and shoreline changes due to the differences in the time interval. T-11413 through T-11420 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

Fort Myers SW	1:24,000	1958
Fort Myers Beach	1:24,000	1958
Wulfert	1:24,000	1958
Sanibel	1:24,000	1958
Estero	1:24,000	1958
Bonita Springs	1:24,000	1958

Due to new construction there are cultural and shoreline differences.

64. Comparison with Contemporary Hydrographic Surveys

H-8598	1:10,000	1961
H-8363	1:20,000	1961
H-8632	1:10,000	1961

Shoreline and control was furnished prior to the hydrographic surveys.

65. Comparison with Nautical Charts

856 SC	1:40,000	1964
1255	1:80,000	1962 revised to 1963

65. Comparison with Nautical Charts (CONTINUED)

Differences exist. However there are not 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 Shuman
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Waugh 9/15/65
Chief, Photogrammetry Division

