

11410

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-11410
LOCALITY	
State	FLORIDA
General locality	PINE ISLAND SOUND
Locality	CHINO ISLAND TO REDFISH PASS
1953-1958	
CHIEF OF PARTY	
Arthur L. Wardwell, Tampa Photo. Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

Map 1 Shoreline from photography and field inspection
 Map 2 Shoreline updated from field edit
 See Addendum (1st page)

ADDENDUM
REVIEW REPORT

T-11400, 11404, 11407, 11410, 11411, 11413, & 11414
April 1975

The Hydrographic Survey Branch found during their review of the contemporary hydrographic survey that copies of the manuscripts marked Advanced (field edit applied) existed for the maps listed in the heading of this addendum. The records show that the maps were registered in 1965. The Descriptive Reports make no mention of a field edit, nor do they reflect the additions and corrections shown on the Advanced Manuscript copies.

In order to assure the proper utilization of these maps, both will be registered. The maps are numbered Map 1 and Map 2. Map 1 will show the shoreline and signals as they were compiled from the photography and field inspection. Map 2 will reflect field edit showing shoreline changes and new hydrographic signals in red ink. The field edited map (Map 2) was not reviewed because the data is not available.

Donald M. Brant
Quality Control and Review Group

DESCRIPTIVE REPORT - DATA RECORD

T - 11410

Project No. (II): Ph-146

Quadrangle Name (IV):

Field Office (II): Punta Gorda, Fla.

Chief of Party: H. C. Applequist

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: Arthur L. Wardwell

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

Amendment No. 1, 9 November 1954

Supplement No. 1, 17 December 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):

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): MUNSON 1934

Lat.: $26^{\circ}31'30.790''$ (947.6 m.) Long.: $82^{\circ}11'33.625''$ (930.9 m.)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

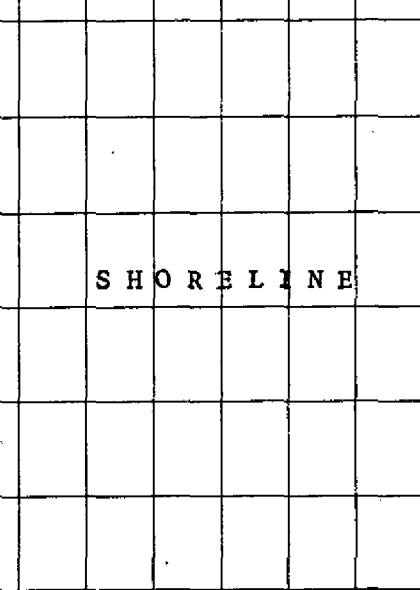
Y=

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



SHORELINE

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

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

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

Date: **Oct. 1956**

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

Date:

Completion Surveys by (II): **Inapplicable**

Date:

Mean High Water Location (III) (State date and method of location): **21 October 1958**

Air Photo Compilation (Refer to Item 35)

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

Date: **27 Jan. 1955**

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

Date: **27 Jan. 1955**

Control plotted by (III): **R. B. Smith, Jr.**

Date: **13 Aug. 1956**

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

Date: **14 Aug. 1956**

Radial Plot ~~or Stereoscopic~~
Control-extension by (III): **M. M. Slavney**

Date: **14 Sept. 1956**

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Inapplicable

Date:

Date:

Manuscript delineated by (III): **W. H. Shearouse**
R. J. Pate

Date: **6 Jan. 1959**

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

Date: **19 Jan. 1959**

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

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
42834	1 Dec. 1953	12:49	1:10,000	+0.7
42835	"	12:50	"	"
42836	"	12:51	"	"
42842	"	12:57	"	"
42843	"	12:58	"	"
42844	"	12:59	"	"
58-S-1471A	21 Oct. 1958	12:15 <i>Ratioed to</i>	"	+0.2
58-S-1472A	"	12:16 "	"	"
58-S-1473A	"	12:16 "	"	"
58-S-1474A	"	12:16 "	"	"
58-S-1475A	"	12:17 "	"	"
58-S-1476A	"	12:17 "	"	"
58-S-1490A	"	12:24 "	"	"

Tide (III)

Predicted

Reference Station: TAMPA, FLA
Subordinate Station: PORT BOCA GRANDE
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	1.0	1.3
0.7	0.7	0.9

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): -1

Shoreline (More than 200 meters to opposite shore) (III): 12

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

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 4

Recovered: 4

Identified: 4

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 6*

Number of Temporary Photo Hydro Stations established (III): 41

Remarks:

*HIGH 1956, a natural object is a non-monumented topographic station for which Form 524 is not required.

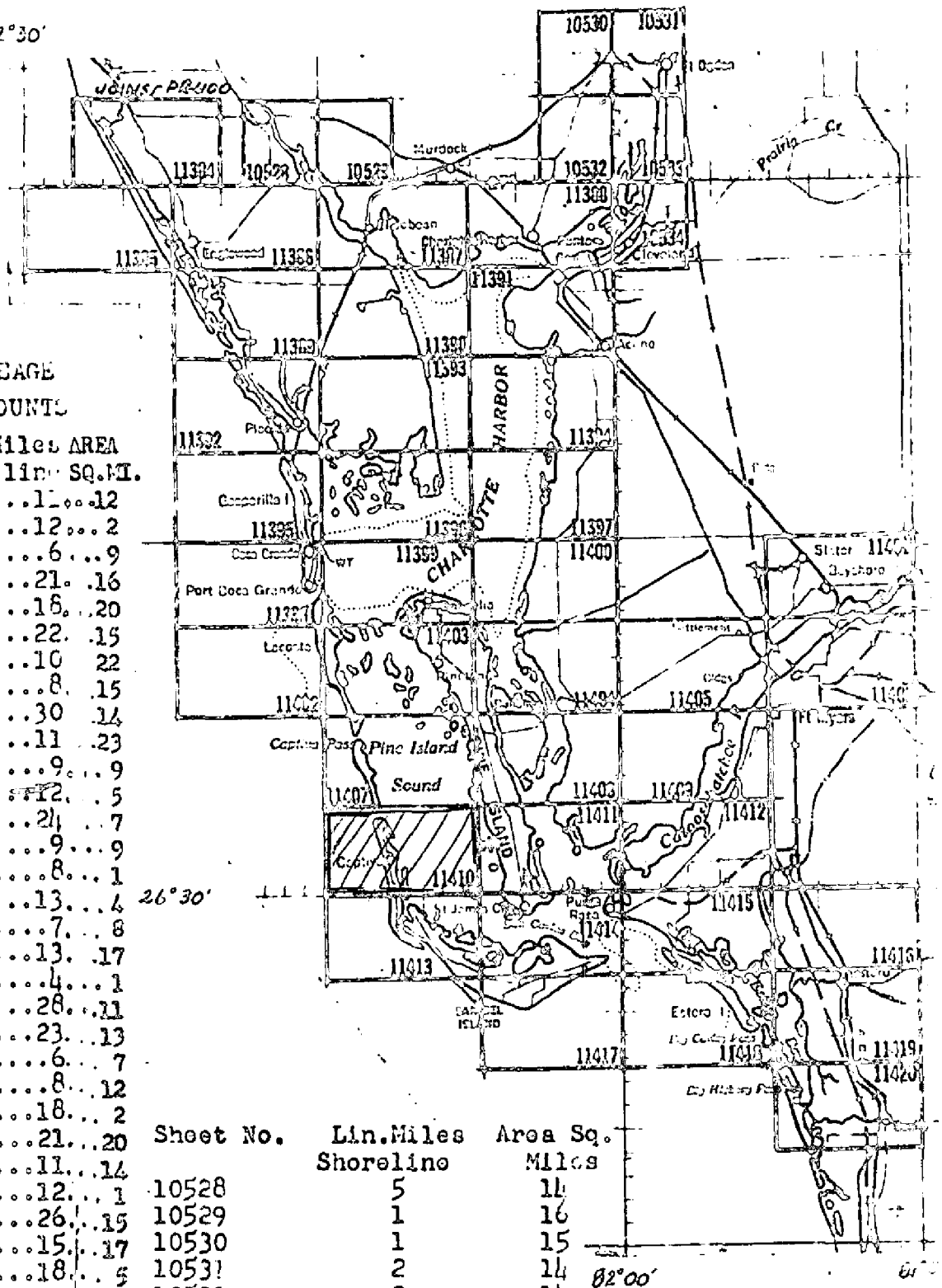
D

62°30'



Sheet	Lin. Miles	AREA
No.	Shoreline	SQ. MI.

Sheet No.	Lin.Miles Shoreline	Area Sq. Miles
10528	5	14
10529	1	16
10530	1	15
10531	2	14
10532	2	11
10533	6	12
10534	5	13
Totals	22 540	98 393
Grand Totals	562	191



THE FIELD INSPECTION REPORT

IS SUBMITTED WITH T-11404

COMPILATION REPORT T-11410

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11411

31. DELINEATION

Graphic method was used.

The photographs were of good scale and adequate for compilation. Field inspection was satisfactory.

The map manuscript was compared with single-lens photographs, 58-S-1471 through 1476 and 1490 taken 21 October 1958. A few changes were noted and corrections made accordingly.

32. CONTROL

See Photogrammetric Plot Report and Item 3, Field Inspection Report. Two non-monumented traverses, not discussed in the field inspection report, were run, - one to assist the photogrammetric plot, and the other to locate MO-6, a point used in locating the aids to navigation. These traverses and the triangulation to locate the aids to navigation satisfied our requirements. They did not meet third-order standards, see the informal field reports attached to the field data, and consequently the field notes and computations are noted "Not for Geodesy".

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage has been shown as indicated by field inspection and through photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

Field inspection was adequate for delineation of mean high-water line, shallow areas and alongshore structures such as piers, buildings, etc. The low-water line was not inspected.

The single-lens photographs taken 21 October 1958 were used, without benefit of field inspection, to revise the shoreline.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

There are no landmarks.

Form 567 for the aids to navigation was submitted 24 November 1958.

38. CONTROL FOR FUTURE SURVEYS

Five (5) recoverable topographic stations are submitted on Form 524. Station HIGH 1956 was not described on Form 524 since it is a "natural" object (gable of a house). A list of recoverable topographic stations and forty-one (41) photo-hydro stations, with descriptions of the latter, has been included under Item 49.

Shoreline revision from 1958 photography puts some photo-hydro stations in water and are obviously destroyed. However they are still shown on map manuscript to keep the records intact.

39. JUNCTIONS

On the south - joins survey T-11413
On the east - no contemporary survey
On the west - joins survey T-11411
On the north - joins survey T-11407

All junctions are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with Coast and Geodetic Survey Maps T-5863 and T-5865. These maps were compiled from aerial photographs taken 14 December 1939 and 10 November 1942, and supplemented by other surveys to March 1943. No differences were noted except in the shoreline of Redfish Pass.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart no. 1255, scale 1:80,000, published in March 1948 and revised to 9 September 1957. The maps mentioned in Item 46 appear to be the source of topography and the same differences exist.

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

BREYNERD BAYOU
BUCK KEY
BUCK KEY CHANNEL
BUNCH ROCK

CAPTIVA
CAPTIVA ISLAND
CHADWICK BAYOU
CHADWICK LAKE
CHINO ISLAND

FLORIDA

GULF OF MEXICO

LONG ROCK

PINE ISLAND SOUND

REDFISH PASS
ROOSEVELT CHANNEL

SOUTH BANKS
STATE HIGHWAY 867

WULFERT FLATS

Names checked & approved.

A. J. Wraight
3-25-65

49. NOTES FOR THE HYDROGRAPHER

Forty-one (41) photo-hydro stations are listed below:

NOTE A: Driven at the point identified is a 1x2-inch stake, 3 feet long with the top portion painted white with "U.S.GOV'T" stenciled thereon in black. Nearby is a 1x1-inch stake 5 feet long with a small white flag attached.

NOTE B: Tied on or nearby is a 2-foot white cloth streamer.

- 1001 - The southwest end of the mangrove on the small mangrove island. Note B - photo 42871.
- 1002 - Station marked with an eight-foot flagged pole 225 feet east of the MHWL at the north end of a break in the Australian pines. Note A - approx. pos. photo 42834
- 1003 - A mangrove tree 12 feet east of the MHWL approx. 125 feet northwest of a coconut palm. Stakes described in Note A are nailed to the tree about 10 feet above water. Photo 42834.
- 1004 - The center of a small mangrove bush 18 feet east of the MHWL. This bush is about 15 feet south of a larger mangrove bush that has been flagged. Bush is just north of some tall coconut trees and about 200 feet west of a small house, part of which is pink. Note A, photo 42834.
- 1005 - The middle of a large clump of roots of 4 fallen trees at the MHWL. The clump of roots are of 2 palms and two Australian pines. Note A & B, photo 42834.
- 1006 - The south end of an overhanging mangrove bush at the south end of a dense growth of mangrove. Bush is at the north end of a small sand beach that is covered with dead mangrove snags. Note A & B, photo 42834.
- 1007 - The stump of a cut mangrove tree at the MHWL. Stump is about 80 feet north of a corner of mangrove on a sand beach. Stakes as described in Note A are nailed to a snag that leads off the stump. Photo 42835.
- 1008 - The stump end of a fallen Australian pine, the limbs of which lie towards the mainland. There is a partly dead pine about 20 feet north of the stump. Stump is at MHWL. Note A & B, photo 42835.

- 1009 - The north gable of a white house with a white roof. This is the most northerly house of a group and also the nearest to the shore. Station is not marked.
- 1010 - The north gable of a green roofed house that has a short brick chimney near its center. There is a flat low roof just north of this gable. Station is not marked. Photo 42835.
- 1011 - The south southeast end of a low trimmed growth of pine. There is a growth of Australian pine northwest of the station and nearer the shore and there are some very large pine east of the station by the road. Note A - photo 42835.
- 1012 - The center of a spanish bayonet 30 feet east of the MHWL and 30 feet northwest of R.E.A. power pole #B200. Note a - photo 42835.
- 1013 - The center of a small shed 30 feet east of the MHWL that is covered with palm limbs. There is a path that leads from this shed to a two story house and the next house north of this one is red with a white top. Note A, photo 42836.
- 1014 - The southwest corner of a rectangular shaped beach shed that is supported by six posts and the roof is covered with palm limbs. Shed is 96 feet east of the MHWL. There is a small motor court across the road from the shed that has 3 concrete cabins. Note A, photo 42836.
- 1015 - The center of a small Australian pine that is about 35 feet tall and is 75 feet east of the MHWL. The tree is directly west of a new one-story house with gray weather boarding. Note A - photo 42836
- 1016 - The center of the most northeasterly mangrove bush that grows just west of a sharp bend in a small sand and shell island. Note A&B, photo 42834.
- 1017 - The center of a mangrove bush that grows in shallow water west of a long narrow island about 280 feet south of the north end of the island and about 100 feet west of the MHWL on the east side of the island. Note A&B, photo 42834.
- 1018 - The center of a small Australian pine that is at the south edge of a low round growth of brush. There is a small clump of pines about 40 feet northwest of the station and a small group of pines about 50 feet southeast of the station. Stakes described in Note A are nailed to the pine about 6 feet above ground. Note B, photo 42834.

- TT-83JFS-1 - A 4-inch square concrete post projecting about 6 inches
There is a forked pole driven in the ground by the station.
- 1019 - The northeast corner of the T-end of a wooden pier that leads
offshore from the South Seas Plantation. Station is not
marked - photo 42834.
- 1020 - The southeast corner of a large point of mangrove that ex-
tends about 30 feet beyond the shoreline. Point is the most
prominent one in near area. Note A&B - photo 42834.
- 1021 - A spot of sand among some grass in about 6 inches of water
at low tide. The spot is about 160 feet offshore from the
mangrove and is 163.5 feet from ORE, 1943. Station marked
with a 10-foot mangrove pole driven about 3 feet into the
sand. Note A - photo 42834.
- 1022 - A point of mangrove about 500 feet north of where the shore-
line turns to the west. Point is low overhanging mangrove
and is the sharpest point in near area. Note A&B - photo
42834.
- 1023 - The center of a small oyster bed that is bare at low water.
Note A - photo 42835.
- 1024 - The east edge of a partly dead mangrove tree at the waters
edge. Note A&B - photo 42835.
- 1025 - The northwest end of a strip of sand that leads out from the
mangrove and is about two feet below low water. Marked with
a flagged mangrove pole and Note A. Photo 42835.
- 1026 - The east gable of a white store with a tin roof that sits
at the end of a pier. Station not marked - photo 42835.
- 1027 - The southeast corner of a wooden pier that is very much
weatherbeaten. There is a pier ruins just south of the
station. Station not marked - photo 42836.
- 1028 - The northeast corner of a wooden pier that has a small
shed on its offshore end that is covered with palm limbs.
Station not marked - photo 42836.
- 1029 - The southeast corner of a wooden pier - the first pier south
of an L-shaped pier that has a piling north and south of it.
Station not marked - photo 42836.
- 1030 - The northeast corner of a small T-pier, the first pier north
of a net rack. Station not marked - photo 42836.

- 1031 - The center of the offshore end of a small new pier. Station not marked - photo 42836.
- 1032 - A point of mangrove that is about 350 feet southeast of where the shoreline turns to the northwest into a small cove. It is the sharpest point in the near area. Note A&B - photo 42836.
- 1032A - A sharp point of oysters on the southwest side of an oyster bed. Note A - photo 42836.
- 1033A - A point of mangrove about 180 feet north of where the shoreline turns west into a small cove. Note A&B - photo 42836.
- 1034 - A sharp point of mangrove about 120 feet north of where the shoreline turns to the southwest into a small cove. Point is the sharpest one in near area. Note A&B - photo 42836.
- 1035 - A point of mangrove at the north edge of a small indentation in which there are some dead snags. Note A&B - photo 42836.
- 1036 - The offshore end of a small pier that leads out from a house. Station not marked - photo 42836.
- 1037 - A small point of mangrove on the extreme western side of a larger point of mangrove where the shoreline makes a small bend. Note A&B - photo 42836.
- 1038 - A point of mangrove at the extreme northwest end of Chino Island. Point of mangrove is where the shoreline makes a small sharp turn. Note A&B - photo 42873.
- 1039 - The offshore end of a blunt point of mangrove. Point is about 300 feet southeast of a sizeable indentation in the mangrove. Note A&B - photo 42873.

Recoverable topographic stations:

BILL 1956
ORE (1943) 1956
MICK 1956
NEE (1943) 1956
MUNSON AS. MARK (1934) 1956
HIGH 1956 (northwest gable of white house on tall piling)

TIDE COMPUTATION

PROJECT NO. Ph. 146 T. 11A10

Time and date of exposure 12:17 10/21/58 Reference station TAMPA BAY (St. Petersburg) Mean range 1.0
 Date of field inspection 10/21/58 Subordinate station Port Boca Grande, Charlotte Harbor Ratio of ranges 0.71

	Time		Height feet	Height x Ratio of ranges	Time h. m.	Time h. m.
	h.	m.				
High tide	7	44	1.4	1.0	08	56
Low tide	14	09	0.1	0.1	-	12
Duration of rise or fall	6	25	Range of tide		07	44
			0.9c		Corrected time at Subordinate station	Corrected time at Subordinate station
					High tide at Ref. Sta.	Low tide at Ref. Sta.
					Time difference	Time difference
					Corrected time at Subordinate station	Corrected time at Subordinate station

	h.	m.	feet	Photo. No.
Time H. T. or L. T.	14	09	0.1	58-5-1475
Required time	12	17	+	
Interval	1	54	0.2	
Time H. T. or L. T.				
Required time				
Interval				
Time H. T. or L. T.				
Required time				
Interval				
Time H. T. or L. T.				
Required time				
Interval				
Time H. T. or L. T.				
Required time				
Interval				

Computed by WHS Checked by R. Rasmussen M-2617-12

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-146 T-11910

Time and date of exposure 150 Dec 11, 1957

Reference station

TAMPA BAY

Mean range

5.9 range 1.3

Date of field inspection

Subordinate station Port Boca Grande, Charlotte Harbor

Ratio of ranges 0.7

	Time	
	h.	m.
High tide	10	06 ✓
Low tide	14	13 ✓
Duration of rise or fall	4	07 ✓

	Height feet	Height x Ratio of ranges
High tide	1.0 ✓	0.7
Low tide	0.8 ✓	0.6
Range of tide		0.1

	Time	
	h.	m.
High tide at Ref. Sta.	11	41 ✓
Time difference	-1	35 ✓
Corrected time at Subordinate station	10	06 ✓

	Time	
	h.	m.
Low tide at Ref. Sta.	15	48 ✓
Time difference	-1	35 ✓
Corrected time at Subordinate station	14	13 ✓

	h.	m.		feet	Photo. No.
Time H. T. or L. T.	14	13 ✓	H. T. or L. T.		
Required time	12	56 ✓	Tabular correction	0.6 ✓	
Interval	1	23	Stage of tide above MLW	0.4 ✓	42835
Time H. T. or L. T.			Stage of tide above MLW	0.7 ✓	
Required time			Feature bares		
Interval			Stage of tide above MLW		
Time H. T. or L. T.			Feature bares		
Required time			Stage of tide above MLW		
Interval			Feature bares		
Time H. T. or L. T.			Stage of tide above MLW		
Required time			Feature bares		
Interval			Stage of tide above MLW		
Time H. T. or L. T.			Feature bares		
Required time			Stage of tide above MLW		
Interval			Feature bares		
Time H. T. or L. T.			Stage of tide above MLW		
Required time			Feature bares		
Interval			Stage of tide above MLW		

Computed by R. D. Smith

Checked by W. H. S.

50

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11410

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

Unclassified

5a. Classification label

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 WHS 8. Bench marks X
9. Plotting of sextant fixes WHS 10. Photogrammetric plot report MMS 11. Detail points WHS

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline WHS 13. Low-water line X 14. Rocks, shoals, etc. WHS 15. Bridges X 16. Aids to navigation WHS 17. Landmarks X 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 X 23. Stereoscopic instrument contours X 24. Contours in general X 25. Spot elevations X 26. Other physical features X

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines X 32. Public land lines X

MISCELLANEOUS

33. Geographic names RRW 34. Junctions RRW 35. Legibility of the manuscript RRW 36. Discrepancy overlay X 37. Descriptive Report WHS 38. Field inspection photographs RRW 39. Forms WHS

40. William H. Shearouse Milton M. Slavney
Reviewer Supervisor, Review Section or Unit
William H. Shearouse Milton M. Slavney

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:

Review Report

Shoreline Maps

T-11407 through T-11412

May 1963

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 National Chart revisions.

62. Comparison with Registered Hydrographic Surveys

T-5863	1:10,000	1943
T-5864	1:10,000	1943
T-5865	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-5871	1:10,000	1943
T-5872	1:10,000	1943
T-5873	1:10,000	1943

Cultural and shoreline changes have been continuing with extensive cultural changes in the urban areas. These maps are to supersede the above surveys for common areas for nautical charting.

63. Comparison with Maps of Other Agencies

Captiva	1:24,000	1958
Pine Island Center	1:24,000	1958
Port Myers SM	1:24,000	1957

Due to new construction there are cultural and shoreline differences.

64. Comparison with Contemporary Hydrographic Surveys

H-8362	1:10,000	1960
H-8555	1:10,000	1960
H-8556	1:10,000	1961

64. continued

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

65. Comparison with National Charts

2255 8-58 24

1:39:000
1:40:000

1962 revised to 1969
1964

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

66. Adequacy of Family and Future Savings

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

Reviewed by:

He Handy



Approved by:

Charles H. ...
 [Signature]

Office, Political Staff Division

Jewell 8/17/65
 Chief, Photographic Division

