

10567 Original

Diag. Cht. No. 1257-3.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No. Ph-171	Office No. T-10567
LOCALITY	
State	FLORIDA
General locality	GULF COAST
Locality	MULLET KEY
19 58	
CHIEF OF PARTY	
A. L. Wardwell, Tampa Photo Office	
LIBRARY & ARCHIVES	
MAY 25 1960	
DATE	

USCOMM-DC 5087

10567

DESCRIPTIVE REPORT - DATA RECORD

T - 10567

Project No. (II): Ph 171 ✓ Quadrangle Name (IV):

Field Office (II): Tampa District Office ✓

Chief of Party: A. L. Wardwell ✓

Photogrammetric Office (III): Tampa, Florida ✓

Officer-in-Charge: A. L. Wardwell ✓

Instructions dated (II) (III): 8 May 1957 ✓

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): 16 Feb 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927 ✓

Vertical Datum (III): MHW ✓

~~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): ELMONT CHANNEL RANGE BEAR LT. 1957 ✓

Lat.: 27°36'55.849" (1719.6M) ✓

Long.: 82°44'33.322" (913.7M) ✓

~~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
SURVEY

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **W. M. Reynolds**
G. D. Bradford

Date: **Dec. 1957** ✓

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** ✓
December 1957

Projection and Grids ruled by (IV): **J. B. Phillips (W.O.)** ✓

Date: **13 June 1957** ✓

Projection and Grids checked by (IV): **J. B. Phillips (W.O.)** ✓

Date: **13 June 1957**

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

Date: **21 Jan. 1958** ✓

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

Date: **21 Jan. 1958** ✓

Radial Plot of ~~Contours~~

Date: **21 Feb. 1958** ✓

~~Contouring~~ by (III): **R. R. Wagner** ✓

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

Date:

Date:

Manuscript delineated by (III): **R. R. Wagner** ✓

Date: **Mar. 1958** ✓

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

Date: **Mar. 1958** ✓

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

9 - lens and Wild Camera

4

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55987	7 Apr. 1957	10:48	1:10,000	1.6
55988	No time on photo	--	"	--
56097	16 Apr. 1957	9:23	"	1.2
56101		9:28	"	"
L1638	16 Apr. 1957	11:10	"	1.6
L1639	"	"	"	"
L1643	"	11:13	"	"
L1644	"	"	"	"

Predicted
Tide (III)

Reference Station: Tampa Bay
Subordinate Station: Mullet Key Channel
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
--	1.4	1.6
.93	1.3	1.6

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date: Jan. 1960
Date: March 1958
Date: Jan. 1960
Date:

Land Area (Sq. Statute Miles) (III): 1
Shoreline (More than 200 meters to opposite shore) (III): 4

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

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 8

Recovered: 1*

Identified: 2

Number of BMs searched for (II): 1

Recovered: 1**

Identified: 1

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): 14

Remarks: * One station was established
** Only tidal bench marks were searched for.

5

SUMMARY
To Accompany Shoreline Manuscripts
T-10566, 10567 and 10568

Subject surveys are three of shoreline project PH-171 (27380). The project consists of twenty-seven T-sheets and covers the Tampa Bay area of Florida. T-10566 to 10568 represent the southernmost surveys of this project. They are located at the entrance of Tampa Bay from the Gulf of Mexico - in the vicinity of Egmont Key and eastward to the Sunshine Skyway.

These three shoreline manuscripts were compiled graphically in 1958 at the Tampa District Office and they are based on nine-lens photography of April 1957 and field inspection of December 1957. Advanced shoreline information and control was made available to support hydrographic surveys during 1958.

The submitted manuscripts are the result of adequately scribed sheets and suitable for direct reproduction of permanent file copy.

Cronar film positives at the compilation scale of 1:10,000 and the Descriptive Report will be registered and filed in the Bureau Archives.

January 1960

FIELD INSPECTION REPORT
SUBMITTED WITH T-10558

COMPILATION REPORT T-10567

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558

31. DELINEATION

The graphic method was used.
The photographs were of good scale and field inspection was good.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

No statement.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was good. The low-water line was based on field inspector's notes.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

All landmarks and aids have been shown and listed on Form 567. They were submitted separately 1 May 1958.

38. CONTROL FOR FUTURE SURVEYS

A list of photo-hydro stations has been furnished the hydro-graphic party. This list is itemized under Item 49. There are no topographic stations.

39. JUNCTIONS

Junctions have been made with T-10566 to the west, T-10563 to the north, T-10568 to the east. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS Planimetric Map T-5833 dated 1941. The two are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Chart 586, scale 1:40,000 dated April 1928 revised Dec. 9, 1957.


The map listed in Item 46 appears 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.


R. R. Wagney
Cartographer (Photo)

Approved and Forwarded:


Arthur L. Wardwell
Chief of Party

T-10567

Geographic Names

Egmont Channel

Florida

Fort De Soto (Ruins)

Mullet Key

Mullet Key Bayou

Soldiers Hole

SOUTHWEST CHANNEL

Tampa Bay

Names approved 8-17-59

L. Heck

Jun. 1960 GMB

49. NOTES FOR THE HYDROGRAPHER

Following is a list of photo-hydro stations for the use of the hydrographer:

- 6701 - Northerly end of clump of mangrove; stake with flag driven in point.
- 6702 - Lone palm tree; stake with flag driven beside tree.
- 6703 - White slatted daymark on beach.
- 6704 - Center of southwest end of concrete ruins of old fort.
- 6705 - Center of easterly end of clump of mangrove; stake with flag driven in point.
- 6706 - Isolated palm tree along beach; stake with flag driven beside tree.
- 6707 - Southwest corner building on pier.
- 6708 - Easterly end of mangrove clump; stake with flag driven in point.
- 6709 - Lone palmetto bush; stake with flag driven beside bush.
- 6710 - Easterly end of mangrove clump; stake with flag driven in point.
- 6711 - Southerly tip of mangrove bush; stake with flag driven in point.
- 6712 - Overhanging mangrove limbs; stake with flag driven beneath; streamers tied to limbs.
- 6713 - Overhanging mangrove limbs; stake with flag driven beneath; streamers tied to limbs.
- 6714 - Corner of L-shaped pier.
- 6715 - Center of southwesterly end of grass spot; stake with flag driven in point. (Falls on T-10363 to the north)

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10567

1. Projection and grids J.A.G. 2. Title J.A.G. 3. Manuscript numbers J.A.G. 4. Manuscript size J.A.G.

4a Classification label unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

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

40. Jesse A. Giles
Reviewer

William A. Basore
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-171 T-10567

Time and date of exposure 7 Apr 57

Reference station TAMPA BAY

Subordinate station MULLET KEY CHANNEL

Mean range 1.8

Date of field inspection 7 Apr 57

Ratio of ranges .93

Time		Height feet	Height x Ratio of ranges	Time		Low tide at Ref. Sta.	Time		
h.	m.			h.	m.		h.	m.	
High tide	16	18	1.5	1.4	18	28	1	47	
Low tide	23	37	-0.8	-0.7	-2	10	-2	10	
Duration of rise or fall		16	19	Corrected time at Subordinate station		Corrected time at Subordinate station		23	37

h.		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 H. T. or L. T.	16	18	2.1	Feature bares		55987
Required time	10	48	5	Stage of tide above MLW		
Interval	5	30	1.6	Feature above MLW		
Time H. T. or L. T.				Feature bares		
Required time				Stage of tide above MLW		
Interval				Feature above MLW		
Time H. T. or L. T.				Feature bares		
Required time				Stage of tide above MLW		
Interval				Feature above MLW		
Time H. T. or L. T.				Feature bares		
Required time				Stage of tide above MLW		
Interval				Feature above MLW		
Time H. T. or L. T.				Feature bares		
Required time				Stage of tide above MLW		
Interval				Feature above MLW		
Time H. T. or L. T.				Feature bares		
Required time				Stage of tide above MLW		
Interval				Feature above MLW		

COM-DC-57848

Computed by Philip P. [Signature] Checked by P. E. [Signature]

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-17/ T 10527

Time and date of exposure 16 Apr 57

Reference station

TAMPA BAY

Mean range

1.7

Date of field inspection

Subordinate station MULLET KEY CHANNEL

Ratio of ranges

.93

High tide	Low tide	Range of tide	Height feet	Height x Ratio of ranges	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	Time		Corrected time at Subordinate station
					h.	m.				h.	m.	
12 11	5 56	6 15	1.8	1.7	12	11	14 21	-2 10	12 11	14	21	12 11
			0.4	0.4								

Time H. T. or L. T. Required time Interval	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.
Time H. T. or L. T. Required time Interval	12 11 9 28 2 43	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	1.7 0.5 1.2	Feature bares Stage of tide above MLW Feature above MLW		56097
Time H. T. or L. T. Required time Interval	12 11 11 10 1 01	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	1.7 0.1 1.6	Feature bares Stage of tide above MLW Feature above MLW		2 1643
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 R. L. Williams Checked by R. L. Williams

REVIEW REPORT OF
SHORELINE MANUSCRIPTS T-10566, 10567 and 10568

62. Comparison with Registered Topographic Surveys

T-1316a	1:20,000	1873
T-1316b	1:20,000	1873
T-1346b	1:20,000	1874
T-4210	1:20,000	1925-26
T-5833	1:10,000	1939
T-8397	1:20,000	1942
T-8398	1:20,000	1942

There are minor shoreline changes between these surveys. T-10568 represents a portion of SUNSHINE SKYWAY, which has been constructed since the last survey of 1942. Subject surveys are to supersede above-listed surveys for nautical charting purposes of common area and detailing.

63. Comparison with Maps of Other Agencies:

EGMONT KEY, FLA., 1:25,000, 1948, Army Map Service
ANNA MARIA, FLA., 1:25,000, 1952, Army Map Service

Coast

Coast and Geodetic Survey's T-8397 and T-8398 (listed under item No. 62) are the basis of these two topographic quadrangles by A.M.S.

64. Comparison with Contemporary Hydrographic Surveys:

57247 (8427)	1:20,000, 1958, (Blueprint)
57248 (8428)	1:20,000, 1958, (Blueprint)

Shoreline and control for these hydrographic surveys was furnished from subject shoreline manuscripts and others of this project. No changes were applied.

65. Comparison with Nautical Charts:

586	1:40,000	Revised to 6/15/59
1257	1:80,000	Revised to 3/2/59

There is good agreement between these surveys.

66. Adequacy of Results and Future Surveys:

These shoreline manuscripts have been compiled in accordance with project instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by

Josef J. Streifler
Josef J. Streifler

R. C. Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

May E. Kittle
Chief, Nautical Chart Branch
Charts Division

W. L. Swanson
Chief, Photogrammetry Division

J. Bowie
Chief, Coastal Surveys

19 May 60