

# 10568

ORIGINAL

Diag. Cht. Nq. 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-10568

### LOCALITY

State FLORIDA

General locality TAMPA BAY

Locality SUNSHINE SKYWAY

19 58

### CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo. Office

LIBRARY & ARCHIVES

**MAY 25 1960**

DATE

USCOMM-DC 5087

10568

DESCRIPTIVE REPORT - DATA RECORD

T - 10568

Project No. (II): Ph-171

Quadrangle Name (IV):

Field Office (II): Tampa District Office

Chief of Party: Arthur L. Wardwell

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: Arthur 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):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): M.H.W.

~~Elevations shown as (25) refer to mean high water~~ except as follows:

Elevations shown as (S) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): N.W. CORNER AIRCRAFT OBSTRUCTION LT., 1954

Lat.:  $27^{\circ}37'14.447''$  (444.7 m.) Long.:  $82^{\circ}39'34.280''$  (939.9 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

Field Inspection by (II): W. M. Reynolds✓

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): Dec. 1957  
Air Photo compilation✓

Projection and Grids ruled by (IV): J. B. Phillips

Date: 12 June 1957✓

Projection and Grids checked by (IV): J. B. Phillips

Date: 12 June 1957✓

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

Date: 22 Jan. 1958✓

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

Date: 22 Jan. 1958✓

Radial Plot of Stereoscopic

Date: 15 Apr. 1958✓

Control extension by (III): R. R. Wagner

Stereoscopic Instrument compilation (III):  
Planimetry  
Contours

Inapplicable✓

Date:

Date:

Manuscript delineated by (III): R. Dossett

Date: 16 Apr. 1958✓

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

Date: 18 Apr. 1958✓

Elevations on Manuscript

Date:

checked by (II) (III): Inapplicable

## DESCRIPTIVE REPORT - DATA RECORD

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Camera (kind or source) (III): C&amp;GS Nine-lens

Number	Date	Time	Scale	Stage of Tide
56053	16 Apr. 1958	0851	1:10,000	+1.0
56054	" 1957	0851	"	+1.0
56055	"	0853	"	+1.0
56103	"	0931	"	+1.0
56060	"	0858	"	+1.0

Tide (III)  
Predicted

Reference Station: TAMPA BAY  
Subordinate Station: MULLET KEY CHANNEL (SKYWAY)  
Subordinate Station:

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

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 1

Shoreline (More than 200 meters to opposite shore) (III): 0.5

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 5

Recovered: 5

Identified: 2

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): 2

## Remarks:

Only tidal bench marks were searched for.



**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 Reports will be registered and filed in the Bureau Archives.

January 1960

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FIELD INSPECTION REPORT

SUBMITTED WITH T-10558

COMPILATION REPORT T-10568

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-10558.

31. DELINEATION.

The graphic method was used.

The photographs were clear and of reasonably good scale. Field inspection was adequate.

32. CONTROL.

See photogrammetric plot report.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

None.

35. SHORELINE AND ALONGSHORE DETAILS.

Sunshine Causeway and bridge are the only details. No low-water or shoals shown.

36. OFFSHORE DETAILS.

None.

37. LANDMARKS AND AIDS.

There are no landmarks.

One nonfloating aid to navigation, two aeronautical aids and two obstruction lights are listed on Form 567 submitted to Washington Office 1 May 1958.



38. CONTROL FOR FUTURE SURVEYS.

Two photo-hydro stations were located and are listed under item 49. There are no topographic stations.

39. JUNCTIONS.

A satisfactory junction has been secured with T-10<sup>5</sup>64 on the north and T-10567 on the east. There are no contemporary surveys to the west and south (water).

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement required.

46. COMPARISON WITH EXISTING MAPS.

There was no available topographic or planimetric map to which this comparatively new bridge and causeway could be compared.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with nautical chart No. 586, scale 1:40,000, published Jan. 12, 1947, 5th edition, and revised to 12/9/57. No discrepancies were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

*Rudolph Dossett*  
Rudolph Dossett  
Carto Photo Aid

APPROVED AND FORWARDED

*Arthur L. Wardwell*  
Arthur L. Wardwell  
Chief of Party

T-10568

Geographic Names

Florida

Sunshine Skyway

Tampa Bay

U.S. 19

Names approved 8-17-59

L. Henck

49. NOTES FOR THE HYDROGRAPHER

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

3151 - East gable of bait house.

3152 - Southeast corner of main bridge,  
marked with keel.

There are no recoverable topographic stations.

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T. 10568

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

Unclassified

CONTROL STATIONS

(a. Classification label)

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads JG 28. Buildings XX 29. Railroads XX 30. Other cultural features XX

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

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

40. Jesse A. Giles Reviewer William A. Rasure Supervisor, Review Section or Unit  
Jesse A. Giles William A. 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. T. 10568

Time and date of exposure 0351 16 APR 1957

Reference station TAMPA BAY

Subordinate station Mullet Key Channel (Skyway)

Date of field inspection Dec 1957

Mean range 1.3

Ratio of ranges 0.93

	Time	
	h.	m.
High tide	12	11
Low tide	5	55
Duration of rise or fall	6	15

	Height		Height x Ratio of ranges
	feet		
High tide	1.8	✓	1.7 ✓
Low tide	0.4	✓	0.4 ✓
Range of tide			1.3 ✓

	Time	
	h.	m.
High tide at Ref. Sta.	14	21
Time difference	-2	10
Corrected time at Subordinate station	12	11

	Time	
	h.	m.
Low tide at Ref. Sta.	8	06
Time difference	-2	10
Corrected time at Subordinate station	5	56

	h.	m.
Time <del>H. T.</del> or L. T.	5	56
Required time interval	8	51
	2	55
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		

Ht. <del>H. T.</del> or L. T.	0.4 ✓
Tabular correction	0.6 ✓
Stage of tide above MLW	1.0 ✓
Ht. H. T. or L. T.	
Tabular correction	
Stage of tide above MLW	
Ht. H. T. or L. T.	
Tabular correction	
Stage of tide above MLW	
Ht. H. T. or L. T.	
Tabular correction	
Stage of tide above MLW	
Ht. H. T. or L. T.	
Tabular correction	
Stage of tide above MLW	

	feet	feet	Photo. No.
Feature bares			56054
Stage of tide above MLW			
Feature above MLW			
Feature bares			
Stage of tide above MLW			
Feature above MLW			
Feature bares			
Stage of tide above MLW			
Feature above MLW			
Feature bares			
Stage of tide above MLW			
Feature above MLW			
Feature bares			
Stage of tide above MLW			
Feature above MLW			

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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 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

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

Max H. Little  
Chief, Nautical Chart Branch  
Charts Division

L. W. Hansen  
Chief, Photogrammetry Division

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Chief, Coastal Surveys

19 May 68