

# 10564

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-10564**

## LOCALITY

State **FLORIDA**General locality **TAMPA BAY**Locality **SUNSHINE SKYWAY**19 58

## CHIEF OF PARTY

**Arthur L. Wardwell, Tampa Photo. Office**

LIBRARY &amp; ARCHIVES

DATE **MAY 25 1960**

COMM-DC 61300

# 10564

DESCRIPTIVE REPORT - DATA RECORD

T -10564

Project No. (II): **Ph-171**

Quadrangle Name (IV):

Field Office (II): **Tampa, Fla.**

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):

**16 Feb 1960**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

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

~~Mean High 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): **BUNK 1954**

Lat.: **27°39'41.443" (1275.6 m.)**

Long.: **82°40'38.667" (1059.8 m.)**

Adjusted

~~Uncorrected~~

Plane Coordinates (IV):

State:

Zone:

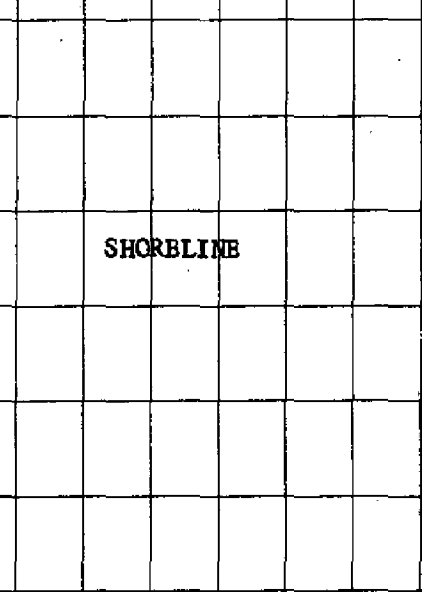
Y=

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.

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY



SHORBLINE

COMM-DC-57842

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: **6 Dec. 1957**

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

Date: **6 Dec. 1957**

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

Date: **16 Dec. 1957**

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

Date: **16 Dec. 1957**

Radial Plot or Stereoscopic  
Control Extension by (III): **R. R. Wagner**

Date: **15 Apr. 1958**

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

Date:

Date:

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

Date: **16 Apr. 1958**

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

Date: **23 Apr. 1958**

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

Date:

# DESCRIPTIVE REPORT - DATA RECORD

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

Number	Date	PHOTOGRAPHS (III)			Stage of Tide
		Time	Scale		
56060	16 Apr. 1957	0858	1:10,000		+ 1.0
56062	"	0858	"		+ 1.0
56063	"	0857	"		+ 1.0
56051	"	0849	"		+ 1.0
56052	"	0849	"		+ 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
0.93	1.3	1.6

Washington Office Review by (IV): *W. Streifer*

Final Drafting by (IV): *Tampa District Office*

Drafting verified for reproduction by (IV): *W. Streifer*

Proof Edit by (IV):

Date: *Jan. 1960*  
Date: *April 1958*  
Date: *Jan. 1960*  
Date:

Land Area (Sq. Statute Miles) (III): **1**  
Shoreline (More than 200 meters to opposite shore) (III): **6**  
~~Shoreline (Less than 200 meters to opposite shore) (III):~~  
Control Leveling - Miles (II): **Inapplicable**  
Number of Triangulation Stations searched for (II): **5**  
Number of BMs searched for (II): **0**  
Number of Recoverable Photo Stations established (III): **0**  
Number of Temporary Photo Hydro Stations established (III): **18**

Recovered: **2** Identified: **2**  
Recovered: **0** Identified: **0**

Remarks:

**Only tidal bench marks were searched for.**

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SUMMARY  
TO ACCOMPANY SHORELINE MANUSCRIPTS  
T-10563 and T-10564

Subject surveys are two of Shoreline Project PH-171 (27380). The project consists of 27 sheets, which cover the land area surrounding Tampa Bay in Florida. T-10563 and T-10564 are located south of St. Petersburg Beach and St. Petersburg and north of the entrance to Tampa Bay.

With instructions of May 1957 the 27 sheets were assigned to the Tampa District Office for completion. These shoreline maps were designed to furnish the necessary information for the revision of existing nautical charts and shoreline and horizontal control data for immediate use of hydrography. Field inspection and recovery of control was accomplished during 1957, the radial plot and compilation in 1958 from nine-lens photography of April 1957.

The submitted manuscripts are the result of adequately scribed sheets, subject only to minor corrections and additions during Washington Office Review. They will be reproduced directly to obtain permanent file copies.

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

**FIELD INSPECTION REPORT**

**SUBMITTED WITH T-10558**

COMPILATION REPORT T-10564

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-10558.

31. DELINEATION.

Delineated by the graphic method.

The photographs were clear but of poor scale.

The field inspection was adequate.

32. CONTROL.

See photogrammetric plot report.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

No drainage. (Causeway)

35. SHORELINE AND ALONGSHORE DETAILS.

The only alongshore detail was a pier noted on field print 56060. This has been applied to the manuscript. Concrete seawalls and breakwaters have been delineated according to field inspection notes. Low-water lines were furnished by the field party. There are no shoals indicated. The shallow areas were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS.

Two piling located by sextant fixes have been shown.



37. LANDMARKS AND AIDS.

There are no landmarks. Twenty-one (21) fixed aids to navigation (Daybeacons) have been located and submitted on Form 567 to the Washington Office 1 May 1958.

38. CONTROL FOR FUTURE SURVEYS.

Seventeen (17) photo-hydro stations, located by radial plot and sextant fix, have been delineated and have been listed under item 49.

39. JUNCTIONS.

A satisfactory junction has been secured with T-10560 on the north, T-10563 on the west and T-10568 on the south. There is no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

There was no map available with which this comparatively new causeway and bridge could be compared.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with nautical chart No. 586, scale 1:40,000, published Jan. 12, 1944, 5th edition and revised to 12/9/57. No discrepancies were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

9th

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-10564

Geographic Names

Florida

Sunshine Skyway

Tarpon Key

U.S. 19

Names approved 8-17-59

L. Heck

49. NOTES FOR THE HYDROGRAPHER.

The following is a list of seventeen photo-hydro stations for the use of the hydrographer:

- ✓6401 - East end of grass covered mound. Stake with flag driven in point.
- ✓6402 - Stake with flag driven on west side causeway, near lone Australian pine tree. Located by 3-point fix.
- ✓6403 - Small Australian pine bush on west side causeway. Stake with flag driven beside bush.
- ✓6405 - Stake with flag driven at easterly end of white billboard. First billboard north of main bridge. Located by 3-point fix.
- ✓6406 - Northerly gable of most southerly large building at park. There are 3 larger buildings and numerous smaller sheds.
- ✓6407 - Northerly gable of center one of three larger buildings at park. There are three larger buildings and numerous small sheds.
- ✓6408 - Square, white, slatted structure 75 feet offshore from MHWL and near center one of three larger buildings. See sextant fix.
- ✓6409 - Northerly gable of most northerly of three larger buildings at park. There are three larger buildings and numerous small sheds.
- ✓6410 - Stake with flag driven on east side causeway. Just north of picnic sheds. Located by sextant fix.
- ✓6411 - Stake with flag driven on east side causeway, north of middle bridge. Located by sextant fix.
- ✓6412 - Stake with flag driven on east side causeway on shoulder of shell pile. Located by sextant fix.
- ✓6413 - Small Australian pine bush on east side causeway. Stake with flag driven beside bush.
- ✓6414 - Red and white target on west side causeway. Located by sextant fix.
- ✓6415 - Center of grass covered mound. Stake with flag driven in point.

6416 - Southerly tip of oyster bar. Stake with flag driven in point.

6417 - Northeasterly end of clump of bushes. Stake with flag driven in point. Streamers tied to limbs.

✓ 6404A- Gable of westerly picnic shed. (5th <sup>from</sup> ~~pole~~ north in group.)  
About 15 feet southwest of telephone pole and power pole  
No. 1A3917OR.

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T. 10564

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

1a. Classification label Unclassified

CONTROL STATIONS

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 X  
9. Plotting of sextant fixes JG 10. Photogrammetric plot report JG 11. Detail points JG

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

20. Water features JG 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 JG

CULTURAL FEATURES

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

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  
Jesse A. Giles Reviewer

William A. Rasure  
Supervisor, Review Section or Unit  
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-171 T. 10564

Time and date of exposure 0858 16 Apr 1957

Reference station

Tampa Bay

Mean range

1.3

Date of field inspection

Dec 19 57

Subordinate station

Mullet Key Channel (skyway)

Ratio of ranges

0.93

sp

	Time	
	h.	m.
High tide	12	11
Low tide	5	56
Duration of rise or fall	6	15

	Height feet	Height x Ratio of ranges
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.	Height feet	Height x Ratio of ranges	Time	Photo. No.
Time H. T. or L. T.	5 56	Ht. H. T. or L. T.	Ht. H. T. or L. T.	Feature bares	56062
Required time Interval	8 58	Tabular correction	Tabular correction	Stage of tide above MLW	
	3 02	Stage of tide above MLW	Stage of tide above MLW	Feature above MLW	
Time H. T. or L. T.		Ht. H. T. or L. T.	Ht. H. T. or L. T.	Feature bares	
Required time Interval		Tabular correction	Tabular correction	Stage of tide above MLW	
		Stage of tide above MLW	Stage of tide above MLW	Feature above MLW	
Time H. T. or L. T.		Ht. H. T. or L. T.	Ht. H. T. or L. T.	Feature bares	
Required time Interval		Tabular correction	Tabular correction	Stage of tide above MLW	
		Stage of tide above MLW	Stage of tide above MLW	Feature above MLW	
Time H. T. or L. T.		Ht. H. T. or L. T.	Ht. H. T. or L. T.	Feature bares	
Required time Interval		Tabular correction	Tabular correction	Stage of tide above MLW	
		Stage of tide above MLW	Stage of tide above MLW	Feature above MLW	
Time H. T. or L. T.		Ht. H. T. or L. T.	Ht. H. T. or L. T.	Feature bares	
Required time Interval		Tabular correction	Tabular correction	Stage of tide above MLW	
		Stage of tide above MLW	Stage of tide above MLW	Feature above MLW	

M-2617-12

Computed by R. Dossert

Checked by

NS

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REVIEW REPORT OF  
SHORELINE MANUSCRIPTS T-10563 and T-10564  
January 1960

62. Comparison with Registered Topographic Surveys

T-1316a	1:20,000	1873
T-1316b	1:20,000	1873
T-4203	1:10,000	1926
T-4210	1:20,000	1925-26
T-4212	1:20,000	1926
T-5831	1:10,000	1939
T-5832	1:10,000	1939
T-5833	1:10,000	1939
T-8390	1:20,000	1942

Differences in shoreline and culture exist between these surveys. The construction of SUNSHINE SKYWAY since the latest survey of 1942 (part of which appears on T-10564) has altered above-listed surveys considerably. Subject surveys are to supersede previous surveys of identical area and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

PASS-A-GRIFF BEACH, FLA., 1:24,000, 1956, U.S. Geological Survey

The shorelines of SHELL KEY (south of Pass-a-Grille Beach) and of the northwest tip of MULLET KEY have changed notably since 1956. As for other coverage, there appears to be good agreement.

64. Comparison with Contemporary Hydrographic Surveys

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

These advance hydrographic surveys compare favorably with subject surveys.

65. Comparison with Nautical Charts

586, 1:40,000, Edition of 1944 Revised to 6/15/59  
1257, 1:80,000, Edition of 1944 Revised to 3/2/59



Visual comparison discloses two considerable shoreline changes not applied to chart 586. They are 1.) SHELL KEY (directly south of the southernmost tip of Pass-a-Grille Beach), and 2.) the northwest portion of MULLET KEY. No other noteworthy disagreements are indicated.

66. Adequacy of Results and Future Surveys

T-10563 and T-10564 have been compiled according to project instructions. They are within the requirements of adequacy and accuracy. Periodic shoreline and continuous cultural changes may be anticipated for future surveys.

Reviewed by

*Josef J. Streifler*  
Josef J. Streifler

Approved

*L.C. Lande*  
Chief, Review Section  
Photogrammetry Division

*Max E. Little*  
Chief, Nautical Chart Branch  
Chart Division

*Lee Swanson*  
Chief, Photogrammetry  
Division

*J. Bowie*  
Chief, Coastal Surveys

17 May 60