

# 10555

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.	Office No. T-10555
LOCALITY	
State	FLORIDA
General locality	TAMPA BAY
Locality	PORT TAMPA
19 58	
CHIEF OF PARTY	
Arthur L. Wardwell, Tampa Photo. Office	
LIBRARY & ARCHIVES	
MAY 25 1960	
DATE	

COMM-DC 61300

# 10555

DESCRIPTIVE REPORT - DATA RECORD

T - 10555

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

Quadrangle Name (IV):

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

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

Photogrammetric Office (III): **Tampa, Florida**

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): **OCT 7 1958**

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **14 Jan 1960**

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): **PICNIC ISLAND, 1908**

Lat.: **27° 51' 02.728" (84.0 m.)** Long.: **82° 32' 49.861" (1364.2 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

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Field Inspection by (II):

*George E. Varnadoe*  
**W. M. Reynolds**  
**I. I. Saperstein**

Date: **Sept. 1957** ✓

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

Date:

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

Date:

Mean High Water Location (III) (State date and method of location):

**Sept. 1957**  
**Air photo compilation** ✓

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

Date: **4 June 1957** ✓

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

Date: **4 June 1957** ✓

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

Date: **5 Sept. 1957** ✓

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

Date: **5 Sept. 1957** ✓

Radial Plot ~~on Stereoscopic~~ **R. R. Wagner**

Date: **23 Sept. 1957** ✓

~~Control extension~~ by (III): **R. J. Pate**

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

Date:

Date:

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

Date: **Sept. 1957**

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

Date: **Jan. 1958**

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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Camera (kind or source) (III): **Nine-lens and Wild Aviogon**

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
56017	16 Apr. 1957	0826	1:110,000	+ 0.4
56018	"	0826	"	"
56019	"	0827	"	"
56020	"	0827	"	"
57-L-1588	"	1032	"	+ 0.8
57-L-1583	"	1027	"	"
57-L-1584	"	1027	"	"

Predicted

Tide (III)

Reference Station: **TAMPA BAY (St. Petersburg)**

Subordinate Station: "

Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Ratio of Ranges	Mean Range	Spring Range
-	1.4	1.6

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): **7**

Shoreline (More than 200 meters to opposite shore) (III): **7.6**

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

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

Number of Triangulation Stations searched for (II): **20**

Recovered: **6**

Identified: **2**

Number of BMs searched for (II): **0**

Recovered: **0**

Identified: **0**

Number of Recoverable Photo Stations established (III): **0-4 (Natural objects)**

Number of Temporary Photo Hydro Stations established (III): **21**

Remarks:

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SUMMARY  
TO ACCOMPANY SHORELINE MANUSCRIPTS  
T-10554 and T-10555

Subject surveys are two of Shoreline Project FH-171 (27380). The project covers the Tampa Bay, Old Tampa Bay and Hillsborough Bay and adjoining land areas of the State of Florida. T-10554 and T-10555 cover that portion of Old Tampa Bay directly south of Gandy Bridge.

The project was assigned to and completed by the Tampa District Office according to instructions of May 1957. It was designed to furnish shoreline manuscripts for the purpose of subsequent hydrographic surveys and their use in revising existing nautical charts.

Field inspection and recovery of control was accomplished during 1957, as well as the radial plot and graphic compilation. The final manuscripts, as submitted, to be used directly for the reproduction of permanent file copy are the result of adequate scribing.

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

October 1959

**FIELD INSPECTION REPORT SUBMITTED**

**WITH T-10558**



COMPILATION REPORT T-10555 ✓

PHOTOGRAMMETRIC PLOT REPORT ✓

Submitted with T-10558. ✓

31. DELINEATION. ✓

Compiled by graphic method. ✓

The scale of the photographs was reasonably good. Photographic visibility was good and little difficulty was encountered in its interpretation. ✓

Field inspection was adequate. ✓

32. CONTROL.

Reference photogrammetric plot report. ✓

33. SUPPLEMENTAL DATA.

None. ✓

34. CONTOURS AND DRAINAGE.

The drainage was delineated as shown on the photographs or according to field inspection recommendation. Contours are inapplicable. ✓

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate. The low-water line was drafted from field inspection notes. The delineation of the shallow area was arrived at by photographic interpretation. There were no shoals mapped. ✓

36. OFFSHORE DETAILS.

No details other than piling, dolphins and shoals were noted. ✓



37. LANDMARKS AND AIDS.

These are being submitted on form 567 under separate cover. <sup>1 May 1958 w.e.R.</sup>  
~~The landmarks were located by radial plot.~~ Nonfloating aids to navigation were located from sextant fixes using points which were located by triangulation and the radial plot.

38. CONTROL FOR FUTURE SURVEYS.

There are no recoverable topographic stations. Twenty-one (21) ✓  
 photo-hydro stations were radially located for use by the hydrographer. These have been listed and included under Item 49.

39. JUNCTIONS.

Satisfactory junctions were made with T-10551 on the north and T-10556 on the east. There are no contemporaneous surveys ✓  
 to the south and west.

40. HORIZONTAL AND VERTICAL ACCURACY. ✓

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with C&GS Planimetric Map T-5836, scale 1:10,000, compiled from aerial photographs taken Dec. 8, 1939 ✓  
 and supplemented by other surveys to 1941. No outstanding discrepancies were noted.

Comparison was also made with U.S.G.S. Map Manuscript PORT TAMPA 739009, Sheet 1, scale 1:10,000, dated 1955. No discrepancies were found.

47. COMPARISON WITH NAUTICAL CHARTS.


Comparison was made with Nautical Chart No. 587, scale 1:40,000, 9th edition, revised to 7 Dec. 1957. The planimetric map listed under 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.

  
Rudolph Dossett  
Carto Photo Aid

APPROVED AND FORWARDED

  
Arthur L. Wardwell  
Chief of Party

T-10555.

Geographic Names.

Atlantic Coast Line  
Broad Creek  
Coon Hammock Creek

Florida (title)

Gulf Coast (title)

Interbay Peninsula

MacDill Air Force Base (suggest MacDill A F B in title)

Old Tampa Bay

Picnic Island  
Picnic Island Creek

Port Tampa (corporate name, approved by BGN decision)  
Port Tampa Dock (BGN decision)

Tampa Bay (title)  
 also

Names approved 11-5-58  
 L. Heck

49. NOTES FOR THE HYDROGRAPHER

Following is a list of topographic stations useful to the hydrographer:

Topographic Stations:

Center of small building, 1957

W. Gable Building, 1957

W. Gable Elevator, 1957

E. Gable Elevator, 1957

Hydro-Signals:

- 5501 West gable of large sheet metal building, the most northerly of two attached buildings. Both buildings have vents on roof.
- 5502 Center of lone mangrove bush in water.
- 5503 West gable of two-story American Legion Building.
- 5504 The west side of the "Atlantic Coast Line Port Tampa Terminal" sign.
- 5505 The southerly vent atop white asbestos siding two-story building.
- 5506 Southwest tip of detached mangrove island.
- 5507 South tip of detached mangrove bush, the southeasterly of two bushes.
- 5508 East end of 20' slab of concrete awash at MHW.
- 5509 South tip of mangrove point, flag and cut limbs.
- 5510 Detached mangrove clump, flag and cut limbs.
- 5511 East gable red-roofed building on east side of canal.
- 5512 East gable small building inside fence around air field.
- 5513 Detached mangrove clump, flag, stake and cut limbs.
- 5514 South tip of mangrove point, flag, stake and cut limbs.
- 5515 South tip of mangrove point, stake with flag and cut limbs.
- 5516 Detached clump of mangrove, stake with flag and cut limbs.

- 5517 Detached clump of mangrove, stake with flag and cut limbs.
- 5518 South tip of mangrove point, stake with flag and cut limbs.
- 5519 South tip detached clump of mangrove, stake with flag and cut limbs.
- 5520 South tip detached clump of mangrove, stake with flag and cut limbs.
- 5521 Detached clump of mangrove, stake with flag and cut limbs.

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PHOTOGRAMMETRIC OFFICE REVIEW

T- 10555

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

4a Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 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 WHS 10. Photogrammetric plot report J.A.G. 11. Detail points WHS

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline WHS 13. Low-water line WHS 14. Rocks, shoals, etc. WHS 15. Bridges XX 16. Aids to navigation WHS 17. Landmarks WHS 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 WHS 29. Railroads WHS 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 IG 38. Field inspection photographs WHS 39. Forms WHS

40. Jesse A. Giles William A. Rasure  
Reviewer 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

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. T-10353

Time and date of exposure 1032-16 Apr 1957

Reference station

Tampa Bay (St Petersburg)

Mean range

1.4

Date of field inspection Sept 1957

Subordinate station

Ratio of ranges

	Time	
	h.	m.
High tide	14	21
Low tide	8	06
Duration of rise or fall	6	15

	Height		Height x Ratio of ranges
	feet		
High tide	1.8	1	1.8
Low tide	0.4	1	0.4
Range of tide			1.4

	Time	
	h.	m.
High tide at Ref. Sta.	14	21
Time difference	0	00
Corrected time at Subordinate station	14	21

	Time	
	h.	m.
Low tide at Ref. Sta.	8	06
Time difference	0	00
Corrected time at Subordinate station	8	06

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	8	06	Ht. H. T. or L. T.	0.4	Feature bares		5165/10 lens
Required time	10	32	Tabular correction	0.4	Stage of tide above MLW		572-1 588
Interval	2	26	Stage of tide above MLW	0.8	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		

Computed by R. D. Smith

Checked by 115



## TIDE COMPUTATION

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. T 10-5555

Time and date of exposure 0824 16 Apr 1957

Reference station Tampa Bay (St. Petersburg)

Mean range 1.4

Date of field inspection Sept 1957

Subordinate station

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Time		Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time	
	h.	m.			h.	m.		h.	m.
High tide	8	06	1.8	2.52	12	21		8	06
Low tide	12	27	0.4	0.56	00	00		00	00
Duration of rise or fall	6	15		1.4		14-21		8	06

	h.	m.	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h.	m.	Time H. T. or L. T. Required time Interval	feet	Photo. No.
Time H. T. or L. T. Required time Interval	8	06	1.8	2.52	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0	04	Feature bares Stage of tide above MLW Feature above MLW		56018 56019
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		
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		

COMM-DC-57848

Computed by R. D. Bassett Checked by W. H. S.

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REVIEW REPORT OF  
SHORELINE MANUSCRIPTS T-10554 and T-10555  
October 1959

62. Comparison with Registered Topographic Surveys

T-1408a	1:20,000	1875
T-1409a	1:20,000	1875
T-4185	1:20,000	1926
T-4199	1:20,000	1926
T-5828	1:10,000	1939
T-5830	1:10,000	1939
T-5836	1:10,000	1939
T-8386	1:20,000	1942
T-8387	1:20,000	1942

This comparison proves only, that subject area changes constantly. T-10554 and T-10555 supersede above-stated registered surveys for nautical charting purposes of common area and detailing.

63. Comparison with Maps of Other Agencies

ST. PETERSBURG, FLA., 1:24,000, 1956, U. S.  
Geological Survey

PORT TAMPA, FLA., 1:24,000, 1956, U. S.  
Geological Survey

There are minor shoreline changes in that small portion of T-10554, that falls on the St. Petersburg quadrangle. Additional disagreements were noted between subject surveys and the Port Tampa quadrangle. Two extensive shoreline changes were found at Weedon Island (new construction by Florida Power Co.) and at MacDill Air Force Base.

64. Comparison with Contemporary Hydrographic Surveys

Blueprint 56932, 1:10,000, 1958

The shoreline for this hydrographic survey was furnished by subject surveys. There is good agreement with but one exception: On the east shore of the new fill by the Florida Power Co. construction at Weedon Island a passage has been opened since the time of the photography and subsequent field inspection. This passage appears on T-10554 and was detailed from blueprints of Weedon Island, Fla. Power Co. Plant, which were submitted to the Chart Division by the Tampa District Office 2 September 1958.

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65. Comparison with Nautical Charts

587, 1:40,000, Edition of 1958, Revised to 7/6/59  
1257, 1:80,000, Edition of 1943, Revised to 3/2/59

Only one discrepancy was found in this comparison. T-10554 indicates a slip on the north shore of a new fill at Weedon Island (Florida Power Co. construction), which is not shown on the nautical charts.

66. Adequacy of Results and Future Surveys

Subject surveys have been compiled according to project instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by

*Josef J. Streifler*  
Josef J. Streifler

Approved

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

*Max B. Kellett*  
Chief, Nautical Chart Branch  
Chart Division

*W. W. Swanson*  
Chief, Photogrammetry  
Division

*J. Bowie*  
Chief, Coastal Surveys  
Division

17 May 68