# 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

**DATE**
- **MAY 25 1960**
DESCRIPTIVE REPORT - DATA RECORD

T - 10555

Project No. (II): Pb-171

Field Office (II): Tampa, Fla.

Photogrammetric Office (III): Tampa, Florida

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

Chief of Party: Arthur L. Wardwell

Officer-in-Charge: Arthur L. Wardwell

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

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date: Date registered (IV): 14 Jan 1960

Publication Scale (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 (2) refer to sounding datum
    i.e., mean low water or mean lower low water

Reference Station (III): PICNIC ISLAND, 1908

Lat.: 27° 51' 02.72"W (84.0 ft.) Long.: 82° 32' 49.36"W (1364.2 ft.)

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. W. Reynolds, I. I. Saperstein  
Date: Sept. 1957

Planetable contouring by (II): Inapplicable

Completion Surveys by (II): Inapplicable

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

Contour extension by (III): R. J. Pate

Stereoscopic Instrument compilation (III): Inapplicable

Planimetry

Contours

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 (f) (III): Inapplicable

Date:
DESCRIPTIVE REPORT - DATA RECORD

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
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<td>16 Apr. 1957</td>
<td>0826</td>
<td>1:110,000</td>
<td>+ 0.4</td>
</tr>
<tr>
<td>56018'</td>
<td></td>
<td>0826</td>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>56019'</td>
<td></td>
<td>0827</td>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>56020'</td>
<td></td>
<td>0827</td>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>57-L-1588/</td>
<td></td>
<td>1032</td>
<td>=</td>
<td>+ 0.8</td>
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<tr>
<td>57-L-1583</td>
<td></td>
<td>1027</td>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>57-L-1584</td>
<td></td>
<td>1027</td>
<td>=</td>
<td>=</td>
</tr>
</tbody>
</table>

Predicted Tide (III)

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

Washington Office Review by (IV): W. Streifler
Final Drafting by (IV): Tampa District Office
Drafting verified for reproduction by (IV): W. Streifler

Proof Edit by (IV):

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

Remarks:

COMM. DC: 57842
SUMMARY
TO ACCOMPANY SHORELINE MANSU CRIPTS
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-10535

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10538.

31. DEFORMATION.

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. 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. Meek
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.
PHOTOGRAMMETRIC OFFICE REVIEW

T. 10555

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

5. Horizontal control stations of third-order or higher accuracy WHS
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 Q
11. Detail points WHS

CONTROL STATIONS

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 alongshore cultural features WHS

PHYSICAL FEATURES

20. Water features WHS
21. Natural ground cover WHS
22. Planetary 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. [Signature]

Jesse A. Giles

Reviewer

William A. Raure

Supervisor, Review Section or Unit

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-10557**

**Time and Date of Exposure:** 1032, 16 Apr 1937

**Reference Station:** Tampa Bay (St. Petersburg)

**Subordinate Station:**

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<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of Ranges</th>
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<tbody>
<tr>
<td>High tide</td>
<td>14 21</td>
<td>1.5</td>
</tr>
<tr>
<td>Low tide</td>
<td>8 06</td>
<td>0.4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Duration of Rise or Fall</th>
<th>Range of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 15</td>
<td>1.4</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>h. m.</th>
<th>Feature bares</th>
<th>Stage of Tide above MLW</th>
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</thead>
<tbody>
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<td>0 47</td>
<td>Feature bares</td>
<td>Stage of Tide above MLW</td>
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<td>10 32</td>
<td>0 47</td>
<td>Feature above MLW</td>
<td>Feature above MLW</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>h. m.</th>
<th>Feature bares</th>
<th>Stage of Tide above MLW</th>
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</thead>
<tbody>
<tr>
<td>2 26</td>
<td>0 41</td>
<td>Feature bares</td>
<td>Stage of Tide above MLW</td>
</tr>
<tr>
<td>0 00</td>
<td>0 41</td>
<td>Feature above MLW</td>
<td>Feature above MLW</td>
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**Computed by:**

**Checked by:** 112
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<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
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<tr>
<td>High tide</td>
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<td>High tide at Ref. Sta.</td>
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<tr>
<td>Low tide</td>
<td>0.4</td>
<td></td>
<td>Time difference</td>
<td>00:00</td>
<td></td>
</tr>
<tr>
<td>Range of tide</td>
<td>1:4</td>
<td></td>
<td>Corrected time at Subordinate station</td>
<td>14:21</td>
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<table>
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<th>Time H.T. or L.T.</th>
<th>Required time</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
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<tbody>
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<td>8:06</td>
<td>00:20</td>
<td>0.4</td>
<td>Feature bares 0.4 Stage of tide above MLW Feature above MLW</td>
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Computed by: P.C. 30-Sol.8.5. Checked by: W.H.S.
62. Comparison with Registered Topographic Surveys

<table>
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<tr>
<th>Survey</th>
<th>Scale</th>
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<tbody>
<tr>
<td>T-1403a</td>
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<td>1875</td>
</tr>
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<td>T-1409a</td>
<td>1:20,000</td>
<td>1875</td>
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<td>T-4185</td>
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<td>T-4199</td>
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<td>T-5828</td>
<td>1:10,000</td>
<td>1939</td>
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<td>T-5830</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-5836</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-8386</td>
<td>1:20,000</td>
<td>1942</td>
</tr>
<tr>
<td>T-8387</td>
<td>1:20,000</td>
<td>1942</td>
</tr>
</tbody>
</table>

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.
65. Comparison with Nautical Charts

587, 1:40,000, Edition of 1938, 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

[Signature]

Josef J. Streifler

Approved

[Signature]

C. Lande

Chief, Review Section
Photogrammetry Division

May 1968

[Signature]

Chief, Photogrammetry Division

[Signature]

Chief, Coastal Surveys Division