
Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-171</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-10562</td>
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<table>
<thead>
<tr>
<th>LOCALITY</th>
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<tbody>
<tr>
<td>State</td>
</tr>
<tr>
<td>General locality</td>
</tr>
<tr>
<td>Locality</td>
</tr>
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</table>

| 1938 |
| CHIEF OF PARTY |
| A. L. Wardwell, Tampa Photo Office |

| LIBRARY & ARCHIVES |
| DATE              |
| MAY 25 1960       |
DESCRIPTIVE REPORT - DATA RECORD

T - 10562

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

Field Office (II): Tampa, Florida
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): Oct 7, 1958
Date reported to Nautical Chart Branch (IV):

Applied to Chart No.
Date: Date registered (IV): 12 Feb 1960

Publication Scale (IV):
Publication date (IV):

Geographic Datum (III): N.A. 1927
Vertical Datum (III): MHW
topographic 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): TH 9 (USE) 1957

Lat. 27°41'39.316" (1210.2m) Long. 82°28'14.023" (1315.3m)

Plane Coordinates (IV):

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)
Field Inspection by (II): G. E. Varnadore
Date: October, 1957

Planetary 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, Oct. 1957

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. J. Pate
Date: 5 August 1957

Control checked by (III): R. R. Wagner
Date: 5 August 1957

Radial Plot confirmed by (III): R. R. Wagner
Date: 7 August 1957

R. J. Pate

Planimetry

Stereoscopic Instrument compilation (III): Inapplicable
Date:

Contours

Manuscript delineated by (III): R. Dossett
Date: Sept. 1957

Photogrammetric Office Review by (III): W. H. Shearouse
Date: December 1957

Elevations on Manuscript checked by (II) (III): Inapplicable
Date:
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS 9-lens and Wild Aviogon

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<thead>
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<th>Scale</th>
<th>Stage of Tide</th>
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<td>1:10,000</td>
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<td>55913</td>
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<td>09:58</td>
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</table>

Predicted Tide (III)

Reference Station: Tampa Bay
Subordinate Station: Tampa, Hillsboro Bay
Subordinate Station:

Washington Office Review by (IV): [Signature]
Final Drafting by (IV): Tampa District Office
Drafting verified for reproduction by (IV): [Signature]

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 23

Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 7*
Number of BMS searched for (II): None
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): 23

Remarks: 1 triangulation station established and identified.

* Stations RUSKIN, 1934, DC 118 (FGS) 1934, D0115 (FGS) 1939, and SUN CITY POWER CO, SILVER WATER TANK, 1934 are outside the project limits. They were recovered and identified for use in the radial plot.
SUMMARY
TO ACCOMPANY SHORELINE MANUSCRIPTS
T-10560, T-10561, T-10562

These three surveys are part of shoreline project PH-171 (27380), which covers the shoreline and adjacent land area of Tampa Bay in Florida. Subject surveys specifically cover the southern tip of Pinellas Peninsula and the east shore of the Bay in the vicinity of Little Manatee River near the town of Ruskin.

Graphically compiled from September 1957 to February 1958 at the Tampa District Office, they are based on nine-lens photography of April 1957 and field inspection of August-September 1957. Advance shoreline information was made available in support of hydrographic surveys.

T-10560 to and incl. T-10562 were scribed at the Tampa District Office and are adequate 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.

November 1959
PHOTOGAMMETRIC PLOT REPORT

Submitted with T-10558

31. Delineation

The graphic method was used.

The photographs were of reasonably good scale with the exception of 55913 which showed considerable tilt. Field inspection was adequate.

32. Control

See photogrammetric plot report.

33. Supplemental Data

None.

34. Contours and Drainage

The drainage has been delineated according to photographic interpretation and field inspection notes.

Contours inapplicable.

35. Shoreline and Alongshore Details

All buildings and other alongshore details indicated by the field inspector have been delineated accordingly. Apparent and fast shore-line were indicated by the field inspector and have been so drafted. Shallow and shoal areas were delineated as indicated by the field inspector.

No low-water line was shown.

36. Offshore Details

All offshore details noted by field inspection have been delineated.
37. **LANDMARKS AND AIDS**

In addition to charted Daybeacons Nos. 1, 2, and 3, twenty-one (21) private daybeacons - pointers on piles - were located by the field inspector. They are being submitted on Form 567. There were no landmarks.

2-1 May 1938 A.R.

38. **CONTROL FOR FUTURE SURVEYS**

Five (5) topographic stations are being submitted on Form 524. Twenty-three (23) photo-hydro stations were established. These stations with descriptions for the latter have been listed under Item No. 49. In addition, three (3) hydro stations were located by plan table and are shown on plan table sheet TFU-F-57.

39. **JUNCTIONS**

A satisfactory junction has been secured with T-10555 on the north, T-10561 on the west, and U.S.G.S. Survey, RUSKIN compilation 780009 (1) on the south and east. Details of the junction with the RUSKIN compilation are discussed under Items 41 and 46.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

41. **U.S.G.S. RUSKIN COMPILATION 780009 (2).**

In order to make junction with U.S.G.S. RUSKIN compilation of the Little Manatee River to the south, it was necessary to make shoreline changes at the point of junction (27°41'15''). A slight shift of the shoreline southwesterly rectified the small discrepancy found. Our nine-lens photographic coverage was sufficient to control the area for approximately one minute southwardly. Generally, the shoreline was correct in azimuth. There was discrepancy however, relative to width of tributaries and indentations of shoreline. These were corrected in red ink by holding the delineated detail projected from 1954 U.S.G.S. single-lens photographs. It was necessary, due to the poor scale of the photographs, to use the projector. It is believed that these corrections are sufficient to enable the hydrographer to survey to the limits of the charted area on Chart No. 1257.

Also, U.S.G.S. compilation 780,009, sheet 1, was corrected (in red ink) to agree with 9-lens photography taken in 1957, for the RUSKIN INLET area that falls east of project limits at Latitude 27° 43.1'. This was necessary to cover limits of hydrography (eastward to U.S. Highway 441 bridge).
46. **COMPARISON WITH EXISTING MAPS**

A comparison was made with U.S.C.& G.S. Planimetric Map T-5840, compiled from aerial photographs dated Dec. 8, 1938 and Nov. 12, 1942 and by other surveys to Oct. 1941.

Considerable new shoreline construction of piers, wharves, slips and fills were noted, particularly in the RUSKIN INLET; also along the shoreline of the west river bank south of U.S. 41 Highway bridge. New filling and dredging are in process in the vicinity of Shell Point. Except for Shell Point, at the mouth of Little Manatee River, little difference was noted along the shoreline of Tampa Bay. Comparison with the 1:10,000 scale, 1955 U.S.G.S. RUSKIN compilation 760009 (1) found details in reasonably good agreement. Shoreline changes are evident in the RUSKIN INLET area due to dredging and filling. However, by utilising the more recent information on this manuscript and taking inland detail from the USGS compilation, it is believed that the desired data for the nautical chart may readily be obtained.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with C&GS Nautical Charts Nos. 586, scale 1:40,000, 5th Ed. Revised to 12/9/57; and No.1257, scale 1:80,000, 6th Ed. Revised to 8/26/57. The same differences noted under Item 46 apply here.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None

**ITEMS TO BE CARRIED FORWARD**

None

[Signature]
Rudolph Dossett
Cartographic Survey Aid

Approved and Forwarded:

[Signature]
Arthur L. Wardwell
Chief of Party
T-10562.

Atlantic Coast Line

Geographic Names.

Banana Creek
Bird Key

Cabbage Creek
Crab Creek

Devils Elbow
Double Bayou Pass

Florida

Goat Island
Gulf Coast

Hunter Pass

Little Cockroach Bay
Little Manatee River

Mangrove Point
Mill Bayou

Pelican Cove

Ruskin
Ruskin Inlet

Sand Island
Sand Point
Shell Point
Snake Island

Tampa Bay
Tropical Island

Whiskey Key

U.S. 41

Names approved 11-5-58

H. Heck
49. **NOTES FOR THE HYDROGRAPHER**

Five (5) Topographic Stations were established:
- HAG (1941) 1957
- JET (1941) 1957
- LEG (1941) 1957
- SAND 1957
- PALM 1957

Twenty-three (23) photo-hydro stations were established:

/62-01 - Center of round mangrove tree (15 feet high) at HNL, on sand beach. White cloth strip - stake - cut limbs. 55912

/62-02 - Lone palm at HNL on sand beach. Palm has "Posted" sign and broken sign board beneath. 55912

62-03 - Center of southerly of four mangrove clumps. Stake - white cloth strip - blaze on mangrove. 55912

62-04 - White gable lone house - (Permastone with white crushed marble roof). 55912

62-05 - End small pier - east side of Island. 55912.

62-06 - North gable. Orange concrete block house (center of 5 houses) 55912

62-07 - Northeast corner small, lone pink house. 55912

62-08 - West end brush line (mangrove) on Shell Point. 55906

62-09 - Southeast corner of westerly of two piers. 55906

62-10 - Southeast corner T pier. 55906

62-11 - Tip mangrove point. 55906

62-12 - Northwest gable of southeasterly building of 3 large low buildings. 55906

62-13 - North tip overhanging mangrove limb on north side rounding point. White cloth strip - cut limbs and blazed mangrove.

62-14 - North tip overhanging mangrove limb at western entrance to small bayou just west of dead mangrove. Cut limbs - white cloth strip. 55906

/62-15 - Center mangrove clump approximately 50 feet off tree line at mouth of river. Cut limbs - stake - white cloth strip. 55912
62-16 - Tip of overhanging mangrove limb on east side small island at mouth of river. Cut limbs - white cloth strip. 55912

62-17 - North tip overhanging mangrove limb on small island north of mouth of river. Cut limbs - white cloth strip. 55912

62-18 - Tip overhanging mangrove limb approximately 1,000 feet northeast of dredged slip. Cut limbs - white cloth strip - just southwest of small cove. 55912

62-19 - Tip small mangrove bush (4 feet high) approximately 700 feet south of sand spit. Cut limbs - white cloth. 55912

62-20 - North tip overhanging mangrove limb at shore end and north side sand spit. White cloth strip - cut limbs. 55912.

62-21 - Center overhanging mangrove tree (4 feet above water) extending northwest off point at mouth of inlet. White cloth - cut limbs. 55913

62-22 - North tip mangrove clump on south side entrance of inlet. White cloth - cut limbs. 55913

62-23 - Southwest (offshore) tip of overhanging mangrove (on water line) 1100 feet southeast THP. White cloth - cut limbs. 55913

In addition, three (3) hydro stations were located by planetable and appear on Planetable Sheet TFU-R-57.
PHOTOGRAMMETRIC OFFICE REVIEW

T. 10562

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

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

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

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

William H. Shearer
Supervisor, Review Section or Unit

40. 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 - 10542**

**Time and date of exposure**: 0934 4-16-57  
**Reference station**: TAMPA BAY  
**Subordinate station**: TAMPA, HILLSBORO BAY  
**Mean range**: 1.8

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<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
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<tbody>
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<td>High tide</td>
<td>14 21'</td>
<td>1.8 2.2'</td>
</tr>
<tr>
<td>Low tide</td>
<td>8 06'</td>
<td>0.4 0.4'</td>
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<tr>
<td>Duration of rise or fall</td>
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<table>
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<th>Time</th>
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<td>08 21'</td>
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<td>13 33'</td>
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<tr>
<td>14 21'</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td>14 36'</td>
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<th>Time</th>
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<td>14 21'</td>
<td>+ 15</td>
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<td>08 21'</td>
<td>+ 15</td>
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**Computed by**: [Name]  
**Checked by**: [Name]
## TIDE COMPUTATION

**PROJECT NO. Ph.171**  
**T - 10562**

- **Time and date of exposure:** 04:51, July 1957  
- **Reference station:** Tampa Bay  
- **Date of field inspection:** August 1957  
- **Subordinate station:** Hillsboro Bay  
- **Mean range:** 1.8

### Tide Table

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<tr>
<td>High tide</td>
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<td>1.9</td>
<td>High tide</td>
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### Interval Table

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<td>Feature above MLW</td>
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**Computed by:** R. DeSalle  
**Checked by:** 115
62. Comparison with Registered Topographic Surveys

| T-1301a | 1:20,000 | 1673 |
| T-1316a | 1:20,000 | 1873 |
| T-1408b | 1:20,000 | 1875 |
| T-1411a | 1:20,000 | 1876 |
| T-4203  | 1:10,000 | 1926 |
| T-4199  | 1:20,000 | 1926 |
| T-4200  | 1:20,000 | 1926 |
| T-4201  | 1:10,000 and 1:20,000 | 1926 |
| T-5832  | 1:10,000 | 1939 |
| T-5840  | 1:10,000 | 1939 |
| T-5641  | 1:10,000 | 1939 |
| T-8390  | 1:20,000 | 1942 |
| T-8391  | 1:20,000 | 1942 |
| T-8392  | 1:20,000 | 1942 |

Extensive dredging and filling operations have changed subject area considerably since the last topographic survey of 1942. These three shoreline manuscripts are to supersede above-listed registered surveys of common area and detailing for navigational charting purposes.

63. Comparison with Maps of Other Agencies

COCKROACH BAY, FLA., 1:24,000, 1956, U.S. Geological Survey
RUSKIN, FLA., 1:24,000, 1956, U.S. Geological Survey

There is evidence of additional changes throughout since the date of 1956, although those changes are of relative minor nature.

64. Comparison with Contemporary Hydrographic Surveys

H-7970, 1:10,000, 1952
Blueprint 57519, 1:10,000, 1958
Blueprint 57249, 1:10,000, 1958
Blueprint 57517, 1:20,000, 1958
Field Examination Sheet 3, 1:10,000, 1954
Field examination sheet No. 3 of 1954 is a supplement of H-7970. The Sunshine Skyway was under construction during 1952 and F. E. No. 3 of 1954 indicates the corrected shoreline of the causeways. Advance shoreline information of subject surveys was furnished for the listed blueprints and there is good agreement for all common detailing.

65. Comparison with Nautical Charts

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

With only two exceptions there is good agreement between these surveys. The two exceptions are not critical and represent recent changes. They occur at Shell Point at the entrance of Little Manatee River and less than a mile northwest of this point, south of the mouth of Cabbage Creek.

66. Adequacy of Results and Future Surveys

T-10560, 10561, and 10562 have been compiled in accordance with instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by

Josef J. Streifler

Approved

Le Lande
Chief, Review Section
Photogrammetry Division

Malcolm McKeage
Chief, Nautical Chart Branch
Chart Division

Chief, Photogrammetry Division

18 May 60

Chief, Coastal Surveys