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

DESCRIPTIVE REPORT

Type of Survey

SHORELINE

Field No. Office No. T-10550

LOCALITY

State FLORIDA

General locality TAMPA BAY

Locality GANDY BRIDGE

1958

CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE MAY 25, 1960
DESCRIPTIVE REPORT - DATA RECORD

T - 10550

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

Field Office (II): Tampa, Florida  Chief of Party: J. E. Waugh
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):  Date reported to Nautical Chart Branch (IV):

Applied to Chart No.  Date:  Date registered (IV): 14 Jan 1940

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): NAV

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): PETE, 1908

Lat.: 27°52'51.489" (1584.9 m.)  Long.: 82°37'01.664" (45.5 m.)

Adjusted  Unadjusted

Plane Coordinates (IV):

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)
Field Inspection by (II): E. T. Ogilby

Date: July 1957

Planetary contouring by (II): Inapplicable

Date:

Completion Surveys by (II): Inapplicable

Date:

Mean High Water Location (III) (State date and method of location): July 1957

Air Photo Compilation

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

Date: 4 June 1957

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

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

Date: Sept. 1957

Stereoscopic Instrument compilation (III): Inapplicable

Date:

Contours

Manuscript delineated by (III): R. R. Wagner

Date: May 1958

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

Date: June 1958

Elevations on Manuscript checked by (IV) (III): Inapplicable

Date:
DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>55931</td>
<td>7 April 1957</td>
<td>1010</td>
<td>1:10,000</td>
<td>+0.4</td>
</tr>
<tr>
<td>55932</td>
<td>7 April 1957</td>
<td>1010</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>56004</td>
<td>16 April 1957</td>
<td>0816</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>56005</td>
<td>16 April 1957</td>
<td>0817</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

PREDICTED TIDE (III)

Reference Station: TAMPA BAY
Subordinate Station: None
Subordinate Station:

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

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 1
Shoreline (More than 200 meters to opposite shore) (III): 2
Shoreline (Less than 200 meters to opposite shore) (IV):
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 1
  Recovered: 1
  Identified: 1
Number of BMs searched for (II): 2
  Recovered: 1
  Identified: 0
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): 5

Remarks:

Only tidal bench marks were searched for.
SUMMARY
TO ACCOMPANY SHORELINE MANUSCRIPTS
T-10550 and T-10551

Subject surveys are two of twenty-seven shoreline manuscripts representing Project PH-171 (27380). The project covers nearly all of Tampa Bay and Old Tampa Bay, the entire Hillsborough Bay and all adjoining land areas. The specific area covered by subject surveys (2) is directly north and northwest of Gandy Bridge.

The project was assigned to the Tampa District Office with instructions of May 1957. It was initiated to assist in hydrographic surveys of 1958 and the subsequent revision of nautical charts. Under the direction of the Tampa District Office the field inspection and recovery of control was accomplished during 1957, the radial plot and compilation - based on nine-lens photography of April 1957 - during 1958.

The manuscripts submitted for final Washington Office Review and subsequent reproduction of registration copies are the result of adequately scribed sheets, subject to minor corrections and additions during Review.

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

September 1959
THE FIELD INSPECTION REPORT

SUBMITTED WITH T-10558
PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558.

31. DELINEATION

The graphic method was used. The photographs were satisfactory and the map manuscript is believed to be complete.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

Florida State Road Department furnished two (2) plans for the fill and bridge (now under construction) which will cross Old Tampa Bay. The plans were used and forwarded to the Washington Office, Nautical Chart Branch on 17 June 1958.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. The drainage was shown from photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

All wharves, piers, retaining walls, buildings and other structures adjacent to the shore have been shown as indicated by the field inspector. The inspection is adequate. The only low-water lines shown were around oyster bars which were indicated by the field inspector.

36. OFFSHORE DETAILS

No statement required.
37. **LANDMARKS AND AIDS**

These were forwarded to the Washington Office 1 May 1958.

38. **CONTROL FOR FUTURE SURVEYS**

One recoverable topographic station has been submitted on Form 529. There are five (5) photo-hydro stations. All of these stations have been listed under Item 49.

39. **JUNCTIONS**

Junction was made with T-10544 on the north, T-10554 on the south, T-10549 on the west, and T-10551 on the east.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with C&GS Planimetric Maps T-5835 and T-5828, 1:10,000 scale, compiled from air photographs taken in 1939 and supplemented by other surveys to August 1941. Comparison was also made with a copy of U.S.G.S. stereocompilation GANDY BRIDGE 322009, Sheet No. 2, scale 1:10,000. Any differences noted were trivial.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with C&GS Nautical Chart 587, 1:40,000 scale, 9th edition, revised to 16 September 1957. It appears that the topography came from the maps listed in Item 46 and the same differences exist.

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

None.
ITEMS TO BE CARRIED FORWARD

None.

R. R. Wagner
Cartographer (Photo)

APPROVED AND forwarded

Arthur L. Wardwell
Chief of Party
Geographic Names.

Florida

Gandy Boulevard
Gandy Bridge
Gulf Coast
Old Tampa Bay

South Gandy Channel

Tampa Bay

U.S. 92

Names approved 11-3-58

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

**TOPOGRAPHIC STATION:**

BMG5 RESET (1952) 1957

**PHOTO-HYDRO STATIONS:**

49-31 - Mangrove bush. Stake with flag driven beside bush. Streamers tied to limbs.

50-01 - Center of mangrove bush on oyster bar. Note (1A)

50-02 - Southwest corner of a pile of old abandoned concrete sections of seawall. Marked with keel.

50-03 - North end of seawall on west end of Gandy Bridge. Marked with yellow keel.

50-04 - South end of seawall on west end of bridge. Marked with yellow keel.

**General Note** - (1A) - White stake with flag

(2A) - Marked by white flag
PHOTOGRAMMETRIC OFFICE REVIEW

T-10550


CONTROL STATIONS


ALONGSHORE AREAS
(Nautical Chart Date)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines XX 32. Public land lines

MISCELLANEOUS


40. 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.

43. Remarks:

Compiler

Supervisor

COMM DC 34529
# Tide Computation

**PROJECT NO. Ph. 171 T. 10550**

**Time and date of exposure**: 10/10 7 Apr 1967  
**Reference station**: Tampa Bay

**Date of field inspection**: July 1967  
**Subordinate station**:

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
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<td>18 28</td>
<td>1.5</td>
</tr>
<tr>
<td>Low tide</td>
<td>1 47</td>
<td>-0.8</td>
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</table>

<table>
<thead>
<tr>
<th>Duration of rise or fall</th>
<th>Range of tide</th>
</tr>
</thead>
<tbody>
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<table>
<thead>
<tr>
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<th>h. m.</th>
<th>Feature bares</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feature above MLW</td>
</tr>
</tbody>
</table>

**Time**  
**Mean range**: 1.4 ft  
**Ratio of ranges**: 1.6

**Time at Ref. Sta.**  
**Time difference**: 18 28

**Corrected time at Subordinate station**: 18 28

---

**Time**  
**Low tide at Ref. Sta.**: 14 47  
**Time difference**: 14 47

**Corrected time at Subordinate station**: 14 47

---

**Computed by**:  
**Checked by**:
## TIDE COMPUTATION

**PROJECT NO. Ph: 171 T: 10550**

**Time and date of exposure:** 08/16 16 April 1957  
**Reference station:** Tampa Bay  
**Mean range:** 4.4

**Date of field inspection:** July 1957  
**Subordinate station:**

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<td>1.8</td>
<td>High tide</td>
<td>14 21</td>
<td>1.8</td>
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<td>08 06</td>
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<td>Time difference</td>
<td>08 06</td>
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<th>Interval</th>
<th>H.T. or L.T.</th>
<th>Tabular correction</th>
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<th>Feature bares</th>
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<td></td>
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</table>

**Photo No.:** 54004

**Computed by:**  
**Checked by:**
62. **Comparison with Registered Topographic Surveys**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
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<tbody>
<tr>
<td>T-1409a</td>
<td>1:20,000</td>
<td>1875</td>
</tr>
<tr>
<td>T-4185</td>
<td>1:20,000</td>
<td>1926</td>
</tr>
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<td>T-5828</td>
<td>1:10,000</td>
<td>1939</td>
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<td>T-5835</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-8381</td>
<td>1:20,000</td>
<td>1942</td>
</tr>
</tbody>
</table>

There are considerable differences between these surveys. Changes in shoreline and culture have been extensive even after the 1942 survey. Subject surveys are to supersede above-listed topographic surveys for nautical charting purposes of common area and detailing.

63. **Comparison with Maps of Other Agencies**

**GANDY BRIDGE, FIA., 1:24,000, 1956, U.S. Geological Survey.** Some differences exist between these surveys along the east shore of Old Tampa Bay. Dredging and filling operations have altered the shoreline noticeably.

64. **Comparison with Contemporary Hydrographic Surveys**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
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</tr>
</thead>
<tbody>
<tr>
<td>56931</td>
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<td>1958 (Blueprint)</td>
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</tbody>
</table>

Subject surveys preceded this hydrographic survey. Shoreline and control as furnished does not indicate any changes.

65. **Comparison with Nautical Charts**

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale</th>
<th>Edition</th>
<th>Revisions</th>
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<tbody>
<tr>
<td>587</td>
<td>1:40,000</td>
<td>1958</td>
<td>Revised 7/6/59</td>
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<tr>
<td>1257</td>
<td>1:80,000</td>
<td>1943</td>
<td>Revised 3/2/59</td>
</tr>
</tbody>
</table>

Recent shoreline changes directly north and south of the east end of Gandy Bridge - as shown on subject surveys - have not been applied to these nautical charts and early consideration of this application is recommended.
66. Adequacy of Results and Future Surveys

T-10550 and T-10551 have been compiled according to project instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by
Jospeh J. Streitler

Approved by
R.C. Lande
Chief, Review Section
Photogrammetry Division

May Streckel
Chief, Nautical Chart Branch
Chart Division

H. W. Swanner
Chief, Photogrammetry
Division

J. Bowin
Chief, Coastal Surveys
Division

18 May 1960