

10550

Diag. Cht. No. 1257-3.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINEField No. \_\_\_\_\_ Office No. T-10550

LOCALITY

State FLORIDAGeneral locality TAMPA BAYLocality GANDY BRIDGE19 58

CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo. Office

LIBRARY &amp; ARCHIVES

DATE

**MAY 25 1960**

USCOMM-DC 5087

10550

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): 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): MHW

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" (1584.9m.) Long.: 82°37'01.664" (45.5m.)

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.

FORM 181a  
(4-23-54)

# DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

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SHORELINE

Areas contoured by various personnel  
(Show name within area)  
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

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

Date: July 1957 ✓

Planetable 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):  
Planimetry  
Contours

Inapplicable ✓

Date:

Date:

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 (I) (III): Inapplicable ✓

Date:

## DESCRIPTIVE REPORT - DATA RECORD

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

| Number | Date          | PHOTOGRAPHS (III) |      | Scale    | Stage of Tide |
|--------|---------------|-------------------|------|----------|---------------|
|        |               |                   | Time |          |               |
| 55931  | 7 April 1957  | 1010              | ✓    | 1:10,000 | +0.4 ✓        |
| 55932  | 7 April 1957  | 1010              | ✓    | "        | "             |
| 56004  | 16 April 1957 | 0816              | ✓    | "        | "             |
| 56005  | 16 April 1957 | 0817              | ✓    | "        | "             |

PREDICTED  
Tide (III)Reference Station: TAMPA BAY  
Subordinate Station: None ✓  
Subordinate Station:

| Ratio of Ranges | Mean Range | Spring Range |
|-----------------|------------|--------------|
| -               | 1.4        | 1.6          |
|                 |            |              |
|                 |            |              |

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date:

Date:

Date:

Date:

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) (III):~~

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

5

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

COMPILATION REPORT T-10550

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 524. 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*  
R. R. Wagner  
Cartographer (Photo)

APPROVED AND FORWARDED

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

T-10550.Geographic Names.Florida

(title)

Gandy BoulevardGandy BridgeGulf Coast

(title)

Old Tampa BaySouth Gandy ChannelTampa Bay

(title)

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 ✓

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10550✓

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

Unclassified✓

CONTROL STATIONS

4a. Classification label \_\_\_\_\_

5. Horizontal control stations of third-order or higher accuracy RRW 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JG 7. Photo hydro stations JG 8. Bench marks JG 9. Plotting of sextant fixes XX 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 JG 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 JG 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 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- 17/ T- 10550

Time and date of exposure 10 10 7 Apr 1957 Reference station Tampa Bay Mean range 1.8  
 Date of field inspection July 1957 Subordinate station Spring Ratio of ranges 1.6

|                             | Time |    | Height<br>feet | Height x Ratio<br>of ranges | Time                                     |     |
|-----------------------------|------|----|----------------|-----------------------------|--|-----|
|                             | h.   | m. |                |                             | h.                                       | m.  |
| High tide                   | 18   | 28 | 1.5            |                             | 18                                       | 28  |
| Low tide                    | 1    | 47 | -0.8           |                             |  |     |
| Duration of rise<br>or fall | 16   | 41 |                | 2.3                         | 18                                       | 28  |
|                             |      |    |                |                             | Corrected time at<br>Subordinate station | 147 |

|                     | h. | m. | feet | Photo. No. |
|---------------------|----|----|------|------------|
| Time H. T. or L. T. | 18 | 28 |      | 55931      |
| Required time       | 10 | 10 |      |            |
| Interval            | 8  | 18 |      |            |
| Time H. T. or L. T. |    |    |      |            |
| Required time       |    |    |      |            |
| Interval            |    |    |      |            |
| Time H. T. or L. T. |    |    |      |            |
| Required time       |    |    |      |            |
| Interval            |    |    |      |            |
| Time H. T. or L. T. |    |    |      |            |
| Required time       |    |    |      |            |
| Interval            |    |    |      |            |
| Time H. T. or L. T. |    |    |      |            |
| Required time       |    |    |      |            |
| Interval            |    |    |      |            |

# TIDE COMPUTATION

PROJECT NO. Ph- 171 T- 105570

Time and date of exposure 0816 16 April 1957 Reference station Tampa Bay Mean range 1.4

Date of field inspection July 1957 Subordinate station Ratio of ranges

|                             | Time |    | Height<br>feet | Height x Ratio<br>of ranges | Time<br>h. m.                            | Time<br>h. m.                            |
|-----------------------------|------|----|----------------|-----------------------------|--|--|
|                             | h.   | m. |                |                             |  |  |
| High tide                   | 14   | 21 | 1.8            |                             | 14                                       | 21                                       |
| Low tide                    | 08   | 06 | 0.4            |                             |  |  |
| Duration of rise<br>or fall | 6    | 15 |                | 1.4                         |  |  |
|                             |      |    |                |                             | High tide at Ref. Sta.                   | Low tide at Ref. Sta.                    |
|                             |      |    |                |                             | Time difference                          | Time difference                          |
|                             |      |    |                |                             | Corrected time at<br>Subordinate station | Corrected time at<br>Subordinate station |

|                               | h. m. |    | Ht. H. T. or L. T. | Tabular correction | Stage of tide above MLW | feet | Photo. No. |
|-------------------------------|-------|----|--------------------|--------------------|-------------------------|------|------------|
|                               | h.    | m. |                    |                    |                         |      |            |
| Time <del>High</del> or L. T. | 08    | 06 |                    |                    |                         |      |            |
| Required time                 | 08    | 16 |                    |                    |                         | 0.4  | 56004      |
| Interval                      |       | 10 |                    |                    |                         | 0.0  |            |
| Time H. T. or L. T.           |       |    |                    |                    |                         | 0.4  |            |
| Required time                 |       |    |                    |                    |                         |      |            |
| Interval                      |       |    |                    |                    |                         |      |            |
| Time H. T. or L. T.           |       |    |                    |                    |                         |      |            |
| Required time                 |       |    |                    |                    |                         |      |            |
| Interval                      |       |    |                    |                    |                         |      |            |
| Time H. T. or L. T.           |       |    |                    |                    |                         |      |            |
| Required time                 |       |    |                    |                    |                         |      |            |
| Interval                      |       |    |                    |                    |                         |      |            |
| Time H. T. or L. T.           |       |    |                    |                    |                         |      |            |
| Required time                 |       |    |                    |                    |                         |      |            |
| Interval                      |       |    |                    |                    |                         |      |            |
| Time H. T. or L. T.           |       |    |                    |                    |                         |      |            |
| Required time                 |       |    |                    |                    |                         |      |            |
| Interval                      |       |    |                    |                    |                         |      |            |

REVIEW REPORT OF  
SHORELINE MANUSCRIPTS T-10550 and T-10551  
September 1959

62. Comparison with Registered Topographic Surveys

|         |          |      |
|---------|----------|------|
| T-1409a | 1:20,000 | 1875 |
| T-4185  | 1:20,000 | 1926 |
| T-5828  | 1:10,000 | 1939 |
| T-5835  | 1:10,000 | 1939 |
| T-8381  | 1:20,000 | 1942 |

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, FLA., 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

|       |          |                  |
|-------|----------|------------------|
| 56931 | 1:20,000 | 1958 (Blueprint) |
|-------|----------|------------------|

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

65. Comparison with Nautical Charts

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

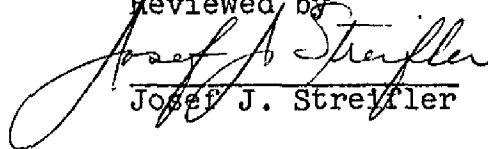
Recent shoreline changes directly north and south of the east end of Gandy Bridge - as shown on subject surveys - have not been applied to these nautical charts and early consideration of this application is recommended.



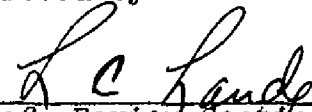
66. Adequacy of Results and Future Surveys

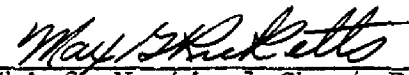
T-10550 and T-10551 have been compiled according to project instructions and no deficiencies in adequacy or accuracy are indicated.


Reviewed by


  
Josef J. Streifler

Approved by

  
Chief, Review Section  
Photogrammetry Division

  
Chief, Nautical Chart Branch  
Chart Division

  
Chief, Photogrammetry  
Division

  
Chief, Coastal Surveys  
Division

18 May 60