

10548 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-10548 |
| LOCALITY | |
| State | FLORIDA |
| General locality | OLD TAMPA BAY |
| Locality | ALLEN CREEK TO |
| CROSS BAYOU CANAL | |
| 1958 | |
| CHIEF OF PARTY | |
| Arthur L. Wardwell, Tampa Photo Office | |
| LIBRARY & ARCHIVES | |
| MAY 25 1960 | |
| DATE | |

USCOMM-DC 5087

10548

DESCRIPTIVE REPORT - DATA RECORD

T-10548

Project No. (II): Ph-171

Quadrangle Name (IV):

Field Office (II): Tampa District Office

Chief of Party: J. E. Waugh

Photogrammetric Office (III): Tampa District Office

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): 12 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): JORDAN, 1934

Lat.: 27°55'12.034" (370.4m)

Long.: 82°41'35.293" (965.0m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (I) Field Party, (II) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

A grid of graph paper with the text "SHORELINE" written in the center. The text is in a bold, sans-serif font. The grid consists of 10 columns and 10 rows of squares. The text "SHORELINE" is centered horizontally and vertically within the grid.

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

DESCRIPTIVE REPORT - DATA RECORD

3

George E. Varnadoe
Field Inspection by (II): W. M. Reynolds

Date: November 1957

Planetable 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
November 1957

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
R. E. Smith

Date: 4 November 1957
15 January 1958

Control checked by (III): R. J. Pate
I. I. Saperstein

Date: 4 November 1957
15 January 1958

Radial Plot of ~~Xenographic~~

~~Contouring~~ by (III): R. R. Wagner

Date: 20 Nov. 1957

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Inapplicable

Date:

Date:

Manuscript delineated by (III): R. E. Smith

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): 9 Lens and Wild Aviogon

4

| Number | Date | Time | Scale | Stage of Tide |
|----------|---------------|-------|----------|---------------|
| 56084 | 16 April 1957 | 09:16 | 1:10,000 | 0.4 |
| 56085 | " | " | " | " |
| 56071 | " | 09:02 | " | " |
| 56072 | " | 09:03 | " | " |
| 56073 | " | " | " | " |
| 57L-1613 | " | 10:54 | " | 0.5 |
| 57L-1614 | " | " | " | " |
| 57L-1615 | " | 10:55 | " | " |
| 57L-1616 | " | " | " | " |

Predicted
Tide (III)

Reference Station: Tampa Bay
Subordinate Station: Safety Harbor, Old Tampa Bay
Subordinate Station:

| Ratio of Ranges | Mean Range | Spring Range |
|--------------------|---------------|-----------------|
| --- | 1.4 | 1.6 |
| --- | 1.9 | 2.5 |
| | | |

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): 14

Shoreline (More than 200 meters to opposite shore) (III): 2.5

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

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 5

Recovered: 4

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): 17

Remarks: Only tidal bench marks were searched for,

SUMMARY
TO ACCOMPANY SHORELINE MANUSCRIPTS
T-10548 and T-10549

These are two surveys of shoreline mapping Project PH-171 (27380). The project consists of 27 manuscripts and covers the Tampa Bay area of Florida. T-10548 and T-10549 cover the southwest portion of Old Tampa Bay and adjacent land areas.

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

T-10549 was revised in the Washington Office from photography of August 1959 and corrected Ozalid print (as submitted by Tampa District Office 5 October 1959) to indicate changes in shoreline and approaches of the new causeway under construction.

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.

FIELD INSPECTION REPORT

Submitted with T-10558

COMPILATION REPORT T-10548

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558

31. DELINEATION

The graphic method was used.

The scale of the photographs was satisfactory and the field inspection was adequate.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

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

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. Piers, boat houses and other shoreline structures have been delineated according to field inspection notes. Alongshore oyster bars and low-water lines have been delineated as indicated by the field inspector.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

One Aero Aid was recommended by the field inspector. It has been listed on Form 567 and submitted 1 May 1957.

38. CONTROL FOR FUTURE SURVEYS ✓

17 photo-hydro stations have been established by the field inspector and are listed under Item 49.

There are no recoverable topographic stations.

39. JUNCTIONS ✓

A satisfactory junction has been made with T-10542 on the north and T-10549 on the east. There is no contemporary survey on the south and west.

40. HORIZONTAL AND VERTICAL ACCURACY ✓

No statement.

46. COMPARISON WITH EXISTING MAPS ✓

A comparison has been made with C&GS Planimetric map No. T-5825, compiled from air photographs taken Dec 7 and 12, 1939, and supplemented by other surveys to August 1941. Considerable changes in the shoreline due to new construction, excavation and filling have occurred. Comparison was also made with a 1:10,000 scale film positive of sheet 2 of the map manuscript of the U.S. Geological Survey Safety Harbor 797009(2) which was compiled in 1955. Junction of streets and roads appears to be satisfactory. Some shoreline changes were noted.

47. COMPARISON WITH NAUTICAL CHARTS ✓

A comparison was made with nautical chart No. 587, scale 1:40,000, 9th edition, 14 August 1943 and revised to 4/20/57. The same discrepancies noted under Item 46 exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY ✓

None.

ITEMS TO BE CARRIED FORWARD ✓

None.

Rexford E. Smith Jr.
Rexford E. Smith Jr.
Carto-Photographic Aid

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

T-10548.

Geographic Names.

Allen Creek

Cross Bayou

Cross Bayou Canal

Florida (title)

Gulf Coast (title)

High Point (small town)

Long Branch Creek

Old Tampa Bay

Pinellas County International Airport

Tampa Bay (title)

U.S. 19

Names approved 11-3-58

L. Heck

49. NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations.

- 4801 - Tip of mangrove on bar offshore. Stake with flag at point.
- 4802 - Center of circular grass patch. Stake with flag driven in point.
- 4803 - Small detached mangrove bush on oyster bar, largest of 4. Stake with flag driven beside bush.
- 4804 - Overhanging mangrove limbs. Stake with flag driven by limb.
- 4805 - Detached mangrove bush near NE end of bulkhead. Stake with flag driven by bush.
- 4806 - SW end of cement black bulkhead.
- 4807 - Easterly of 2 bushes on oyster bar. Stake with flag driven by bush.
- 4808 - Detached mangrove bush. Stake with flag driven by bush.
- 4809 - Center of south end of rectangular grass spot. Stake with flag driven at point.
- 4810 - S. tip of grass spot. Stake with flag at point.
- 4811 - Tip of mangrove point. Stake with flag driven at point.
- 4812 - Detached mangrove bush. Stake with flag and streamers tied around bush.
- 4813 - Isolated mangrove bush on oyster bar. Stake with flag and streamers on bush.
- 4814 - Seaward end of billboard.
- 4815 - Center of easterly end of detached mangrove clump. Stake with flag at point.
- 4816 - NE corner of grass spot. Stake with flag driven at point.
- 4817 - Point of grass patch. Stake with flag driven at point.
- 4818 - Small detached bush on oyster bar. Stake with flag driven by point and streamers. Falls on T-10549.

There are no recoverable topographic stations.

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T-10548

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

4a Classification label Unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. J.G. 15. Bridges XX 16. Aids to navigation J.G. 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings XX 29. Railroads XX 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

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

40. Jesse A. Giles Reviewer William A. Rasure Supervisor, Review Section or Unit
Jesse A. Giles Reviewer 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 COMPENSATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-171 T-10548

Time and date of exposure 0916 Apr 16, 1957Reference station TAMPA BAYSubordinate station Safety Harbor, Old Tampa BayDate of field inspection Nov. 1957Mean range 1.9Spring 2.5

Ratio of ranges

| | Time | | Height feet | Height x Ratio of ranges | Range of tide |
|-----------------------------|------|----|----------------|-----------------------------|---------------|
| | h. | m. | | | |
| High tide | 16 | 06 | 1.8 + 0.5 | 2.3 | 1.9 |
| Low tide | 9 | 51 | 0.4 - 0.6 | 0.4 | |
| Duration of rise or fall | 6 | 15 | | | |

| | Time | | High tide at Ref. Sta. | Time difference | Corrected time at Subordinate station |
|--|------|----|------------------------|-----------------|--|
| | h. | m. | | | |
| High tide at Ref. Sta. | 14 | 21 | | | |
| Time difference | 1 | 45 | | | |
| Corrected time at Subordinate station | 16 | 06 | | | |

| | Time | | Low tide at Ref. Sta. | Time difference | Corrected time at Subordinate station |
|--|------|----|-----------------------|-----------------|--|
| | h. | m. | | | |
| Low tide at Ref. Sta. | 8 | 06 | | | |
| Time difference | 1 | 45 | | | |
| Corrected time at Subordinate station | 9 | 51 | | | |

| | h. | m. | Height feet | Height x Ratio of ranges | Range of tide | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | feet | Photo. No. |
|---------------------------|----|----|----------------|-----------------------------|---------------|---|------|------------|
| Time H. T. or L. T. | 9 | 51 | | | | Ht. MLW L. T. | | |
| Required time Interval | 9 | 16 | | | | Tabular correction | 0.4 | 56085 |
| | 0 | 35 | | | | Stage of tide above MLW | | |
| Time H. T. or L. T. | | | | | | Ht. H. T. or L. T. | | |
| Required time Interval | | | | | | Tabular correction | | |
| | | | | | | Stage of tide above MLW | | |
| Time H. T. or L. T. | | | | | | Ht. H. T. or L. T. | | |
| Required time Interval | | | | | | Tabular correction | | |
| | | | | | | Stage of tide above MLW | | |
| Time H. T. or L. T. | | | | | | Ht. H. T. or L. T. | | |
| Required time Interval | | | | | | Tabular correction | | |
| | | | | | | Stage of tide above MLW | | |
| Time H. T. or L. T. | | | | | | Ht. H. T. or L. T. | | |
| Required time Interval | | | | | | Tabular correction | | |
| | | | | | | Stage of tide above MLW | | |
| Time H. T. or L. T. | | | | | | Ht. H. T. or L. T. | | |
| Required time Interval | | | | | | Tabular correction | | |
| | | | | | | Stage of tide above MLW | | |

COMM-DC-57848

Computed by



Checked by

115

REVIEW REPORT OF
SHORELINE MANUSCRIPTS T-10548 and T-10549
September 1959

62. Comparison with Registered Topographic Surveys

| | | |
|---------|----------|------|
| T-1409a | 1:20,000 | 1875 |
| T-1409b | 1:20,000 | 1875 |
| T-4185 | 1:20,000 | 1926 |
| T-5825 | 1:10,000 | 1939 |
| T-5828 | 1:10,000 | 1939 |
| T-8380 | 1:20,000 | 1942 |

Changes in shoreline and culture in this area have been continuous over the years as evidenced by above-listed surveys. Additional changes have come about since the survey of 1942, though not extensively. Subject surveys are to supersede above-listed topographic surveys of common area and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

SAFETY HARBOR, FLA., 1:24,000, 1956 U.S. Geological Survey. Differences exist in shoreline at the entrances of Allen Creek and Cross Bayou. There is good agreement between these surveys otherwise.

64. Comparison with Contemporary Hydrographic Surveys

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

Shoreline and control was furnished for this hydrographic survey by subject surveys and no effective changes were noted.

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 |

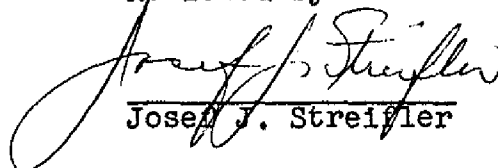
There are minor changes in shoreline at entrances of Allen Creek and Cross Bayou, that have not been applied to the nautical charts. No other disagreements were noted.

- 2 -

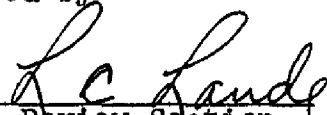
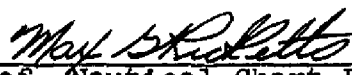

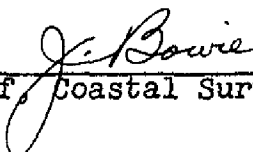
66. Adequacy of Results and Future Surveys

Subject surveys were found to be within the requirements of adequacy and accuracy for this type of survey.

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

19 May 60