
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

MAY 25 1960

DATE
FORM 181
4-23-54

DESCRIPTIVE REPORT - DATA RECORD

T-1051d

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  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.

Datum Exception: Elevation shown as (2) refer to mean high water
Elevation shown as (1) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): JORDAN, 1934
Lat.: 27°55' 12.034" (370.40m)  Long.: 82°41' 35.293" (965.0m)  Adjusted

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)

(i) (iii)
George E. Varnadoe

Field Inspection by (II): W. M. Reynolds

Planetary contouring by (II): Inapplicable

Completion Surveys by (II): Inapplicable

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

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

Control plotted by (III): R. R. Wagner
R. E. Smith

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

Radial Plot of

Stereoscopic Instrument compilation (III): Inapplicable

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

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

Elevations on Manuscript checked by (III): Inapplicable

Date: November 1957

Date: 4 June 1957

Date: 4 June 1957

Date: 4 November 1957
15 January 1958

Date: 4 November 1957
15 January 1958

Date: 20 Nov 1957

Date: May 1958

Date: June 1958
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): 9 Lens and Wild Avisgon

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>56084</td>
<td>16 April 1957</td>
<td>09:16</td>
<td>1:10,000</td>
<td></td>
</tr>
<tr>
<td>56085</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>56071</td>
<td></td>
<td>09:02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56072</td>
<td></td>
<td>09:03</td>
<td></td>
<td></td>
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<td>56073</td>
<td></td>
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<td></td>
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<tr>
<td>57L-1613</td>
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<td>10:54</td>
<td></td>
<td></td>
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<tr>
<td>57L-1641</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>57L-1645</td>
<td></td>
<td>10:55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>57L-1616</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Predicted Tide (III)

Reference Station: Tampa Bay
Subordinate Station: Safety Harbor, Old Tampa Bay
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): 14
Shoreline (More than 200 meters to opposite shore) (III): 2.5
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 5
Number of BMs searched for (II): 0
Number of Recoverable Photo Stations established (II): 0
Number of Temporary Photo Hydro Stations established (III): 0

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-10520 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 1:140,000, 9th edition, 1\1 August 1943 and revised to 8/20/57. The same discrepancies noted under Item 16 exist.

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

None.

**ITEMS TO BE CARRIED FORWARD**

None.

Approved and Forwarded:

Arthur L. Wardwell
Chief of Party
T-19548. 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.

h801 - Tip of mangrove on bar offshore. Stake with flag at point.
h802 - Center of circular grass patch. Stake with flag driven in point.
h803 - Small detached mangrove bush on oyster bar, largest of h. Stake with flag driven beside bush.
h804 - Overhanging mangrove limbs. Stake with flag driven by limb.
h805 - Detached mangrove bush near NE end of bulkhead. Stake with flag driven by bush.
h806 - SW end of cement block bulkhead.
h807 - Easterly of 2 bushes on oyster bar. Stake with flag driven by bush.
h808 - Detached mangrove bush. Stake with flag driven by bush.
h809 - Center of south end of rectangular grass spot. Stake with flag driven at point.
h810 - S. tip of grass spot. Stake with flag at point.
h811 - Tip of mangrove point. Stake with flag driven at point.
h812 - Detached mangrove bush. Stake with flag and streamers tied around bush.
h813 - Isolated mangrove bush on oyster bar. Stake with flag and streamers on bush.
h814 - Seaward end of billboard.
h815 - Center of easterly end of detached mangrove clump. Stake with flag at point.
h816 - NE corner of grass spot. Stake with flag driven at point.
h817 - Point of grass patch. Stake with flag driven at point.
h818 - Small detached bush on oyster bar. Stake with flag driven by point and streamers. Falls on T-105h9.

There are no recoverable topographic stations.
PHOTOGRAFMETRIC OFFICE REVIEW


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines XX  32. Public land lines XX

MISCELLANEOUS

___________________________
Jesse A. Giles
Reviewer

___________________________
William A. Rasure
Supervisor

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 COMPARISON

**Reference Station:** TAMPA BAY

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

### Time and Date
- **Time and date of exposure:** 0914, Apr. 14, 1952
- **Date of field inspection:** Nov. 1952

### Tide Data

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of Ranges</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tide</td>
<td>1.8 feet</td>
<td>2.3</td>
<td>High Tide at Ref. Sta.</td>
</tr>
<tr>
<td>Low Tide</td>
<td>0.4 feet</td>
<td>0.4</td>
<td>Time Difference</td>
</tr>
</tbody>
</table>

### Corrected Time
- **Corrected time at Subordinate station:** 16 06

### Mean Range
- **Mean range:** 1.9
- **Ratio of ranges:** 2.5

### Feature Bases

<table>
<thead>
<tr>
<th>Time</th>
<th>Ht.</th>
<th>Tabular Correction</th>
<th>Stage of Tide above MLW</th>
<th>Photo No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 51</td>
<td>0.4</td>
<td>Feature bases</td>
<td>Stage of tide above MLW</td>
<td>56085</td>
</tr>
</tbody>
</table>

**Computed by:** [Signature]

**Checked by:** [Signature]
62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-1409a</td>
<td>1:20,000</td>
<td>1875</td>
</tr>
<tr>
<td>T-1409b</td>
<td>1:20,000</td>
<td>1875</td>
</tr>
<tr>
<td>T-4185</td>
<td>1:20,000</td>
<td>1926</td>
</tr>
<tr>
<td>T-5825</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-5828</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-8380</td>
<td>1:20,000</td>
<td>1942</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>56931</td>
<td>1:20,000</td>
<td>1958 (Blueprint)</td>
</tr>
</tbody>
</table>

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

65. Comparison with Nautical Charts

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

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.
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

[Signature]
Joseph J. Streifler

Approved by

[Signature]
E. C. Lande
Chief, Review Section
Photogrammetry Division

[Signature]
Chief, Nautical Chart Branch
Chart Division

[Signature]
W. S. Schwend
Chief, Photogrammetry
Division

[Signature]
Chief, Coastal Surveys Division

[Signature]
J. Bowie

19 May