**DESCRIPTIVE REPORT**

**Type of Survey**
SHORELINE

**Field No.**
Office No. T-10549

**LOCALITY**

<table>
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<tr>
<th>State</th>
<th>FLORIDA</th>
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<tbody>
<tr>
<td>General locality</td>
<td>OLD TAMPA BAY</td>
</tr>
<tr>
<td>Locality</td>
<td>BIG ISLAND</td>
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</table>

1958

**CHIEF OF PARTY**

Arthur L. Wardwell, Tampa Photo. Office

**LIBRARY & ARCHIVES**

**DATE**
MAY 25, 1960
DESCRIPTIVE REPORT - DATA RECORD

T - 10549°

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

Field Office (II): Tampa District Office ✓ Chief of Party: J. E. Waugh
Photogrammetric Office (III): Tampa 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 reported to Nautical Chart Branch (IV):

Date received in Washington Office (IV): OCT 1958 Date registered (IV): 12 Jun 1960

Applied to Chart No. Date: Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927 Vertical Datum (III): Mean

Reference Station (III): DOG, 1908

Lat.: 27° 54' 227135 (681.4 m) Long.: 82° 38' 267440 (723.1 m)

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) (II) (III)
FIELD INSPECTION BY (II): W. M. Reynolds

PLANETABLE CONTOURING BY (II): Inapplicable

COMPLETION SURVEYS BY (II):

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

PROJECTION AND GRIDS RULED BY (IV): J. B. Phillips (W.O.)

PROJECTION AND GRIDS CHECKED BY (IV): 

CONTROL PLOTTED BY (III): R. R. Wagner

CONTROL CHECKED BY (III): R. J. Pate

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

STEREOSCOPIC INSTRUMENT COMPILATION (III):

PLANIMETRY Inapplicable

CONTOURS

MANUSCRIPT DELINEATED BY (III): I. I. Saperstein

PHOTOGRAMMETRIC OFFICE REVIEW BY (III): J. A. Giles

ELEVATIONS ON MANUSCRIPT 

CHECKED BY (II) (III): Inapplicable
### PHOTOGRAPHS (III)

<table>
<thead>
<tr>
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<td>1031</td>
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<tr>
<td>56071</td>
<td>16 April 1957</td>
<td>0902</td>
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<td>+ 0.5</td>
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<tr>
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<td>&quot;</td>
<td>1055</td>
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**Predicted Tide (III)**

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<tr>
<th>Ratio of Ranges</th>
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<th>Spring Range</th>
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<tr>
<td></td>
<td>- 1.4</td>
<td>1.6</td>
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</table>

**Dates:**
- Sept. 1959
- May 1958
- Sept. 1959

**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
PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10549.

31. **DELINEATION:**

The graphic method was used. The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs.

Two sets of photographs were used in the delineation, nine-lens and single-lens infra-red ratio prints. The scales of both sets of photographs were fair but clouds obscured much of the detail on some of the single-lens prints.

32. **CONTROL:**

See 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.

34. **CONTOURS AND DRAINAGE:**

Contours inapplicable. Drainage has been drafted according to photographic interpretation.

35. **SHORELINE AND ALONGSHORE DETAILS:**

The shoreline inspection was adequate, although in some cases it did not agree with the infra-red photography. The shoreline was delineated in some instances, using the infra-red prints because of their clarity of detail.

The shallow areas were delineated by office interpretation of the photographs. The oyster bars were indicated by the field inspector. There are no shoals. The only low-water lines shown are around the oyster bars.
37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

No recoverable topographic stations were recovered or established.

Thirty-one (31) photo-hydro stations were established and are included in Item 49 with a description for each.

39. JUNCTIONS:

T-10543 to the north: — water area.
T-10548 to the west: — in agreement.
T-10550 to the east: — in agreement
T-10554 to the south: — shoreline turns to east before reaching southern neat line.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with U.S.G.S. stereocompilation "SAFETY HARBOR FLORIDA 797009" (3), scale 1:10,000, dated 1955. Both manuscripts compare favorably.

Comparison has been made with C&GS planimetric maps T-5825 and T-5828, scale 1:10,000, dated 1941. Only minor differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with C&GS Chart 587, scale 1:40,000, edition of March 1928, revised 16 Sept. 1957.

The planimetric maps listed under Item 46 were probably the source of topography on the nautical charts and the same minor differences exist.
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

I. I. Saperstein
Cartographer (Photo)

APPROVED AND FORWARDED

Arthur L. Wardwell
Arthur L. Wardwell
T-10549. Geographic Names.

Big Island
Big Island Pass
Bunker Hill Island

Cabbage Patch Point
Cedar Point

Florida (title)

Grassy Creek
Grassy Point
Gulf Front Coast (title)

Old Tampa Bay

Tampa Bay (title)

4th Street Extension
9th Street Extension
Ulmerton Road Extension

Names approved 11-3-58

Heck
49. NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations:

`4818 - Small detached bush on oyster bar. Stake with flag driven by point and streamers.

`4901 - Detached bush on oyster bar. Stake with flag driven by point.

`4902 - Detached bush. Stake with flag and streamers by bush.

`4903 - Center of end oyster bar. Stake with flag on point.

`4904 - Mangrove bush on bank. Stake with flag in front of bush, strips of cloth tied on limbs.

`4905 - Detached mangrove bush. Stake with flag driven beside bush. Strips of cloth tied in limbs.

`4906 - Detached mangrove bush. Stake with flag driven beside bush. Strips of cloth tied in limbs.

`4907 - Overhanging mangrove limbs. Stake with flag beneath limbs. Strips of cloth tied in limbs.

`4908 - Point of grass, offshore from mangrove and about 100 ft. behind 2 oyster bars. Stake with flag driven in point.

`4909 - Lone mangrove bush on oyster bar. Stake with flag driven beside bush. Streamers tied on limbs.

`4910 - Mangrove bush on oyster bar. Stake with flag driven beside bush. Streamers tied on limbs.

`4911 - Mangrove bush on oyster bar. Stake with flag driven beside bush. Streamers tied on limbs.

`4912 - Lone mangrove bush on oyster bar. Stake with flag beside bush. Streamers tied on limbs.

`4913 - Mangrove bush on oyster bar. Stake with flag driven beside bush. Streamers tied on limbs.

`4914 - Northwesterly end of grass spot. Offshore from edge of mangrove. Stake with flag driven in point.

`4915 - Center of grass spot on inshore edge of oyster bar. Stake with flag driven in point.

`4916 - Corner of oyster bar, just offshore from edge of mangrove. Stake with flag driven in point.

`4917 - Southerly gable on cabin.
l918 - End of U shaped sand spot between two oyster bars. Stake with flag driven in point.

l919 - End of grass spot on inshore side of oyster bar. Stake with flag driven in point.

l920 - Tip of mangrove point. Stake with flag driven beside point. Streamers tied to limbs.

l921 - Tip of mangrove point. Stake with flag driven in point. Streamers tied to limbs.

l922 - Overhanging mangrove limbs at point. Stake with flag driven beneath limbs. Streamers tied to limbs.

l923 - Mangrove bush on oyster bar. Stake with flag beside bush. Streamers tied to limbs.

l924 - Detached mangrove bush. Stake with flag beside bush. Streamers tied to limbs.

l925 - Northerly end of grass spot. Stake with flag driven in point.

l926 - Mangrove bush stake with flag driven beside bush. Streamers tied to limbs.

l927 - Mangrove bush larger of 2. Stake with flag driven beside bush. Streamers tied to limbs.

l928 - Tip of mangrove. Stake with flag driven in point. Streamers tied to limbs.

l929 - Center of end of grass spot. Stake with flag driven in point.

l930 - End of grass point. Stake with flag driven in point.

l931 - Mangrove bush. Stake with flag driven beside bush. Streamers tied to limbs. Falls on T-10550.

A State Highway Department tower has been plotted east of Big Island from a position furnished by the State Highway Department. The position of the tower has not been verified.
PHOTOGRAMMETRIC OFFICE REVIEW

T-10549


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy RRW 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations JG 8. Bench marks JG

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

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

MISCELLANEOUS

40. J. A. Giles Reviewer

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. 171 T-10579**

**Mean range** 1.8

**Time and date of exposure** 1030 7 Apr 1957

**Reference station** Tampa Bay

**Date of field inspection** Nov 1957

**Subordinate station** Safety Harbor, Old Tampa Bay

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### Time and Height

<table>
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<th>Height x Ratio of ranges</th>
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</tr>
<tr>
<td>Low tide</td>
<td>-0.8</td>
<td>-0.8</td>
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</table>

### Duration of rise or fall

| Range of tide | 2.8   |

---

### Time Difference

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<th>h. m.</th>
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<tr>
<td>Time difference</td>
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| Corrected time at Subordinate station | 20 13 |

### Time

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<td>Low tide at Ref. Sta.</td>
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<td>Time difference</td>
<td>+1 45</td>
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| Corrected time at Subordinate station | 20 13 |

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<td></td>
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**Computed by** U.S.  **Checked by**  

---

**Photo. No.** 56972
## TIDE COMPUTATION

**PROJECT NO. Ph. 171 T-10549**

**Time and date of exposure:** 1957 Apr 16
**Reference station:** Tampa Bay
**Date of field inspection:** Nov 1957
**Subordinate station:** Safety Harbor, Old Tampa Bay

### Tide Table

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<th>Stage of tide above MLW</th>
<th>Feature bares</th>
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Computation by: [Signature] Checked by: [Signature]
**TIDE COMPARISON**

Project No. Ph. 171 T-10579

Time and date of exposure: 0923, 16 Apr 1957
Reference station: Tampa Bay

Date of field inspection: Nov. 1957
Subordinate station: Safety Harbor, Old Tampa Bay

Mean range: 1.8 ft
H.W. = +0.5 ft
Ratio of ranges: L.W. = 8.0

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<td>High tide</td>
<td>16 06</td>
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<td>14 21</td>
<td>+1 45</td>
</tr>
<tr>
<td>Low tide</td>
<td>9 51</td>
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<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of rise or fall</td>
<td>6 15</td>
<td>Range of tide</td>
<td>5 9</td>
<td>16 06</td>
<td>9 51</td>
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Computed by: 115
Checked by: FS

Photo. No.: 56072
To:  
  Chief, Photogrammetry Division  
  Coast and Geodetic Survey  
  Washington, D. C.  

Subject:  Nautical Chart Correction - Tampa Bay Florida

When Air Photo Mission 702 was recently in this area, we requested they photograph the east and west approaches of the third Bay Bridge across Tampa Bay. The bridge is scheduled to be opened about the middle of December.

Upon receipt of the photographs we corrected our file ozalid copies of surveys T-10545 and T-10549 which are being forwarded to you along with the photographs under separate cover.

Please furnish this office an ozalid print of each survey. If it is decided to correct the registered copy of the manuscripts, we prefer an ozalid print of the corrected copy.

Your attention is called to the discrepancy in alignment as shown on T-10549.

Arthur L. Wardwell  
CIR, C&GS  
Tampa District Officer

WAR/0
62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-1403a</td>
<td>1:20,000</td>
<td>1875</td>
</tr>
<tr>
<td>T-1403b</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-5925</td>
<td>1:10,000</td>
<td>1939</td>
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<td>T-5926</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-8380</td>
<td>1:20,000</td>
<td>1942</td>
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</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</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

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.
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

F. E. Lande
Chief, Review Section
Photogrammetry Division

Chief, Photogrammetry Division

18 May 60

Max W. Ketch
Chief, Nautical Chart Branch
Chart Division

Chief, Coastal Surveys Division