**Form 504**

**U. S. DEPARTMENT OF COMMERCE**

**COAST AND GEODETIC SURVEY**

## DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th><strong>Type of Survey</strong></th>
<th>SHORELINE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field No.</strong></td>
<td>T-10542</td>
</tr>
<tr>
<td><strong>Office No.</strong></td>
<td>T-10542</td>
</tr>
</tbody>
</table>

## LOCALITY

- **State**: FLORIDA
- **General locality**: OLD TAMPA BAY
- **Locality**: ALLEN CREEK ENTRANCE TO SAFETY HARBOR

## CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo. Office

## LIBRARY & ARCHIVES

**DATE**: MAY 25, 1960
DESCRITIVE REPORT - DATA RECORD

T - 10542

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): 19 SEP 1958

Date reported to Nautical Chart Branch (IV): 12 Jan 1959

Applied to Chart No. Date: Date registered (IV): 12 Jan 1959

Publication Scale (IV):

Publication date (IV): 12 Jan 1959

Geographic Datum (III): N. A. 1927

Vertical Datum (III): Mean Sea Level except as follows:

Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): SAFETY HARBOR SILVER MUNICIPAL TANK 1926

Lat.: 27°59' 30.462" (937.7 m.) Long.: 82°41' 46.200" (1262.4 m.)

Adjusted

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
Field Inspection by (II): W. M. Reynolds  Date: November 1957

Planetable contouring by (II): Inapplicable

Completion Surveys by (II): Inapplicable

Mean High Water Location (III) (State date and method of location): November 1957
Air Photo Compilation

Projection and Grids ruled by (IV): J. B. Phillips  Date: 1 June 1957

Projection and Grids checked by (IV): J. B. Phillips  Date: 1 June 1957

Control plotted by (III): R. J. Pate  Date: 1 Nov. 1957

Control checked by (III): W. H. Shearouse
W. W. Dawsey  Date: 4 Nov. 1957

Radial Plot—Stereoscopic
Control extension by (III): R. R. Wagner  Date: 20 Nov. 1957

Stereoscopic Instrument compilation (III): Inapplicable
Contours

Manuscript delineated by (III): W. W. Dawsey  Date: Feb. 1958

Photogrammetric Office Review by (III): J. A. Giles  Date: May 1958

Elevations on Manuscript
checked by (III): Inapplicable
### Descriptive Report - Data Record

**Camera (kind or source) (III):** USCGS Nine-lens

<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>56082</td>
<td>16 April 1957</td>
<td>0915</td>
<td>1:10,000</td>
<td>+0.4</td>
</tr>
<tr>
<td>56083</td>
<td></td>
<td>0916</td>
<td></td>
<td>-0.4</td>
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**Predicted Tide (III):**

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>TAMPA BAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subordinate Station:</td>
<td>SAFETY HARBOR, OLD TAMPA BAY</td>
</tr>
</tbody>
</table>

**Washington Office Review by (IV):**

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
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<tbody>
<tr>
<td>Aug. 1957</td>
<td>Review</td>
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**Final Drafting by (IV):**

<table>
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<th>Action</th>
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<tbody>
<tr>
<td>Feb. 1958</td>
<td>Drafting</td>
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**Drafting verified for reproduction by (IV):**

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 1959</td>
<td>Verification</td>
</tr>
</tbody>
</table>

**Proof Edit by (IV):**

- **Land Area (Sq. Statute Miles) (III):** 12
- **Shoreline (More than 200 meters to opposite shore) (III):** 11
- **Shoreline (less than 200 meters to opposite shore) (III):**
- **Control Leveling: Miles (II):** Inapplicable
- **Number of Triangulation Stations searched for (II):** 12
- **Number of BMs searched for (II):** 7
- **Number of Recoverable Photo Stations established (II):** 4
- **Number of Temporary Photo Hydro Stations established (III):** 15

**Remarks:**

Only tidal bench marks were searched for
SUMMARY
TO ACCOMPANY SHORELINE MANUSCRIPTS
T-10542 and T-10543

Subject surveys are two of Shoreline Project PH-171 (27380). The project consists of 27 sheets, which cover the shorelines of Tampa Bay, Old Tampa Bay and Hillsborough Bay in Florida. T-10542 and T-10543 are in the northwest corner of the project, in the vicinity of Safety Harbor.

The project was assigned to the Tampa District Office with instructions of May 1957 for the purpose of providing shoreline maps for the revision of existing nautical charts and shoreline and horizontal control data for immediate use of hydrography. Field inspection and recovery of control was accomplished during 1957, the radial plot and compilation in 1958 from nine-lens photography of April 1957.

The submitted manuscripts are the result of adequately scribed sheets, subject to only minor corrections during Washington Office Review. They will be reproduced directly to obtain permanent file copies.

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

August 1959
FIELD INSPECTION REPORT

SUBMITTED WITH T-10558
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

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

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

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

Alongshore details were delineated according to field inspection. No low-water or shoal lines have been shown; shallow areas have been delineated from photographic interpretation.

36. OFFSHORE DETAILS

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

One landmark submitted on Form 567 under separate cover 1 May 1958.

38. **CONTROL FOR FUTURE SURVEYS**

Four (4) topographic stations have been established and Form 524 submitted for each. (listed under Item 49)

A list of fifteen (15) photo-hydro stations with descriptions for each has been prepared and included under Item 49.

39. **JUNCTIONS**

- T-10543 to the east - satisfactory
- T-10548 to the south - satisfactory

No contemporary survey to the north and west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with a film positive of U.S.G.S. quadrangle SAFETY HARBOR FLORIDA 79009, sheet No. 1, stereocompilation, scale 1:10,000, edge joined, 26 Sept. 1955. No differences worthy of note exist.

Comparison was made with C&GS planimetric map No. T-5825, compiled from air photographs taken December 7 and 12, 1939 and supplemented by other surveys to August 1941. The changes noted were those caused by the passage of time, dredging and filling along the shoreline. There were no major differences.
47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Nautical Chart No. 587, scale 1:40,000, 9th edition, bearing a print date 14 August 1943 and revised to 20 April 1957.

The same minor differences noted under Item 46 exist:

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

[Signature]
W. W. Dawsey
Cartographer (Photo)

APPROVED AND FORWARDED

[Signature]
Arthur L. Wardwell
Chief of Party
T-10542. Geographic Names.

Allen Creek
Bayview
Clearwater
Cooper Bayou
Cooper Point
Courtney Campbell Parkway
Florida (title)
Gulf Coast (title)
Gulf to Bay Boulevard
Old Tampa Bay
Safety Harbor (town)
Tampa Bay (title)
U.S. 19
State 60

Names approved 11-3-58.
L. Heck
NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations:

4201 - Mangrove bush on small point in front of pond. Stake with flag beside bush.

4202 - Westerly and smallest mangrove bush. Stake with flag beside bush.

4203 - Northerly end of half-moon shaped grass spot. Stake with flag driven in point.

4204 - Westerly and smallest of two detached mangrove bushes. Stake with flag driven beside bush.

4205 - Detached mangrove bush. Stake with flag beside bush.

4206 - Concrete block at edge grass spot. Old anchor block for guy cable to radio tower.

4207 - Center of end of pier.

4208 - Center of end of westerly of two piers.

4209 - Southwesterly of two detached mangrove bushes. Stake with flag driven in point.

4210 - Center of isolated grass spot offshore. Stake with flag driven in point.

4211 - Palmetto bush at northerly side of indentation in shoreline. Stake with flag beside bush.

4212 - Center of small mangrove tip on south side ditch and surrounded by grass. Stake with flag driven in point.

4213 - Point of detached grass spot. Stake with flag driven in point.

4214 - Center of small detached mangrove bush. Stake with flag beside bush.

4215 - Tip of mangrove at small indentation in apparent shoreline. Stake with flag driven at tip.

There are 4 Topographic Stations.

FAR (1941) 1957  TIDAL BM 5 (1937) 1957  TIDAL BM 1 (1926) 1957

HAP (1941) 1957
PHOTOGRAMMETRIC OFFICE REVIEW

T. 10542


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JG  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. Jesse A. Giles
   Reviewer

William A. Rasure
   Supervisor, Review Section or Unit

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-10542**

**Time and date of exposure:** 09 15 18 Apr 1957  
**Reference station:** TAMPA BAY, FLORIDA  
**Mean range:** 1.9'  
**Spring tide:** 2.5'  

**Date of field inspection:** NOV 1957  
**Subordinate station:** SAFETY HARBOR, OLD TAMPA BAY  
**Ratio of ranges:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High tide</td>
<td>1.8 + 0.5</td>
<td>2.3'</td>
<td>High tide at Ref. Sta.</td>
<td>14 21'</td>
<td></td>
</tr>
<tr>
<td>Low tide</td>
<td>04 0.0</td>
<td>0.4'</td>
<td>Time difference</td>
<td>+1 35'</td>
<td></td>
</tr>
<tr>
<td>Range of tide</td>
<td>1.9</td>
<td></td>
<td>Corrected time at Subordinate station</td>
<td>16 06'</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>h. m.</th>
<th>feet</th>
<th>Feature bares</th>
<th>Photo No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>04 0.0</td>
<td>0.4'</td>
<td>Stage of tide above MLW</td>
<td>56083'</td>
</tr>
</tbody>
</table>

**Computed by:** [Signature]

**Checked by:** [Signature]
REVIEW REPORT
SHORELINE MANUSCRIPTS T-10542 and T-10543
August 1959

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>T-1409b</td>
<td>1:20,000</td>
<td>1875</td>
</tr>
<tr>
<td>T-4184</td>
<td>1:20,000</td>
<td>1926</td>
</tr>
<tr>
<td>T-4185</td>
<td>1:20,000</td>
<td>1926</td>
</tr>
<tr>
<td>T-5822</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-5825</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>

Minor differences in shoreline and culture exist between the 1942 survey and subject surveys. The surveys of older dates indicate proportionate larger differences. T-10542 and T-10543 are to supersede above-listed registered surveys of identical areas and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

SAFETY HARBOR, FLA., 1:24,000, 1956, U. S. Geological Survey. This topographic quadrangle compares favorably with subject surveys.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
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<tbody>
<tr>
<td>H-7878</td>
<td>1:10,000</td>
<td>1950</td>
</tr>
<tr>
<td>56931</td>
<td>1:20,000</td>
<td>1958 (Blueprint)</td>
</tr>
</tbody>
</table>

There are only a few minor differences in shoreline - not in excess of a seven years time expectation in reference to H-7878. Print 56931 is in good agreement with the southern portions of subject surveys.

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Edition</th>
<th>Revised To</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 is good agreement between these two nautical charts and subject surveys.

66. Adequacy of Results and Future Surveys

Subject surveys have been compiled according to project instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by

Josef J. Streifler
Approved

L. C. Lande
Chief, Review Section
Photogrammetry Division

Chief, Nautical Chart Branch
Chart Division

Chief, Photogrammetry Division
Chief, Coastal Surveys Division

18 May 1980