

# 10545

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-10545
LOCALITY	
State	FLORIDA
General locality	TAMPA BAY
Locality	TAMPA BAY MARINA TO COURTNEY CAMPBELL PARKWAY
19.58	
CHIEF OF PARTY	
Arthur L. Wardwell, Tampa Photo Office	
LIBRARY & ARCHIVES	
MAY 25 1960	
DATE	

USCOMM-DC 5087

# 10545

DESCRIPTIVE REPORT - DATA RECORD

T - 10545

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):

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): 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): CYPRESS, 1934

Lat.: 27°57'07.188" (221.3m.)      Long.: 82°32'03.564" (97.4m.)

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.

## DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY


SHORELINE

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

DESCRIPTIVE REPORT - DATA RECORD

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

Date: Oct. 1957 ✓

Planetable contouring by (II): Inapplicable ✓

Date:

Completion Surveys by (II): Inapplicable ✓

Date:

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

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

Date: 3 June 1957 ✓

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

Date: 3 June 1957 ✓

Control plotted by (III): I. I. Saperstein

Date: 14 June 1957 ✓

Control checked by (III): M. M. Slavney

Date: 14 June 1957 ✓

Radial Plot ~~or Stereoscopic~~ R. R. Wagner  
Control ~~extension~~ by (III):

Date: 2 Oct. 1957 ✓

Planimetry  
Stereoscopic Instrument compilation (III): Inapplicable  
Contours

Date:

Date:

Manuscript delineated by (III): R. B. Smith ✓

Date: Dec. 1957

Photogrammetric Office Review by (III): R. R. Wagner ✓

Date: Jan. 1958 ✓

Elevations on Manuscript  
checked by (II) (III): Inapplicable ✓

Date:



DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Nine-lens - WILD CAMERA L

4

Number	Date	Time	Scale	Stage of Tide
56011	16 Apr. 1957	823	1:10,000	+0.7
56013	"	824	"	+0.7
56014	"	824	"	+0.7
55928	7 Apr. 1957	1009	"	+0.2
55929	"	1009	"	+0.2
55930	"	1010	"	+0.2

59W7741  
7742  
7743

19 Aug. 1959

approx. 1:7000

Predicted

Tide (III)

Reference Station: TAMPA BAY  
Subordinate Station: SAFETY HARBOR  
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): 13

Shoreline (More than 200 meters to opposite shore) (III): 5.5 miles

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

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 13

Recovered: 1

Identified: 1

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 25

Remarks:

Only tidal bench marks were searched for.

5

SUMMARY  
TO ACCOMPANY SHORELINE MANUSCRIPTS  
T-10544 and T-10545

These two surveys are part of Project FH-171 (27380), which covers the Tampa Bay, Florida area. T-10544 and T-10545 are along the north edge of the project and cover the east half of Courtney Campbell Parkway and vicinity.

The project was assigned to and completed by the Tampa District Office during 1957 and 1958 for the purpose of providing shoreline maps for the revision of nautical charts and shoreline and control for hydrographic surveys. Some of these hydrographic surveys as completed in 1958 were in blueprint stage for comparison during Washington Office Review.

Subject manuscripts submitted by the field office are the result of adequately scribed sheets. Only minor additions and corrections were required prior to reproduction of permanent file copy.

T-10545 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-10545

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

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

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. Piers, boathouses and other shoreline structures have been delineated according to field inspection notes. Alongshore oyster bars have been delineated as indicated by the field inspector. The approximate low-water line was identified by the field inspector and drafted accordingly.

36. OFFSHORE DETAILS

No statement.



37. LANDMARKS AND AIDS

The Field Inspector located several privately maintained day-beacons which were numbered along the Tampa Bay Marina Channel. Their positions were submitted on Form 567 to the Washington Office on 1 May 1958. Since that date, the numbers have been torn off and will not be replaced. After completion of the mid-bay bridge, it is probable this channel will be changed and may not be marked at all; therefore, it is recommended that these aids be shown as channel markers only.

Five (5) landmarks were located and submitted on Form 567 on 1 May 1958.

38. CONTROL FOR FUTURE SURVEYS

Twenty-seven (27) photo-hydro stations and one (1) topographic station were established by the field inspector and have been listed under Item 49.

39. JUNCTIONS

A satisfactory junction has been made with T-10544 on the west and T-10551 on the south. There is no contemporary survey on the north. T-10546 falls on the east but the prescribed limits of delineation prevent the detail from reaching the neatline.

40. HORIZONTAL AND VERTICAL ACCURACY ✓

No statement.

92

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with C&GS planimetric maps Nos. T-5834 and T-5835, scale 1:10,000, compiled from air photographs taken December 8, 1939 and December 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 1 of the map manuscript of the U. S. Geological Survey GANDY BRIDGE FLORIDA, No. 322009, which was compiled in 1955. Junction of streets and roads appears to be satisfactory. Some shoreline changes were noted, the most prominent being the new boat slips just north of Courtney Campbell Parkway.

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.

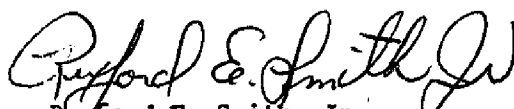
The same differences noted under Item 46 exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

  
Rexford E. Smith, Jr.  
Carto Photo Aid

APPROVED AND FORWARDED

  
Arthur L. Wardwell  
Chief of Party

T-10545.Geographic Names.Courtney Campbell ParkwayFish CreekFlorida

(title)

Frazier BeachGulf Coast

(title)

Memorial HighwayOld Tampa BaySweetwater CreekTampa Bay

(title)

Tampa Bay MarinaState 60

Names approved 11-3-58  
L. Heck

49. NOTES FOR THE HYDROGRAPHER

Photo-Hydro Stations:

- 4501 - Corner L-shaped pier - northerly of three. ✓
- 4502 - Corner L-shaped pier. ✓
- 4503 - Southwest corner small green building at shore end of pier. ✓
- 4504 - Northwest corner green house, white tile roof. ✓
- 4505 - Mangrove bush on MHWL. Stake with flag, also cloth on bush. ✓
- 4506 - Australian Pine bush on sand point. Stake with flag beside bush. ✓
- 4507 - Australian Pine bush on north side sand point. Stake with flag beside bush. ✓
- 4508 - Small mangrove bush just outside MHWL and south of a ditch. Stake with flag beside bush. ✓
- 4509 - Detached mangrove bush at small bight, behind grass in water. Stake with flag beside bush.
- 4510 - Detached mangrove clump near city dump. Stake with flag beside bush. ✓
- 4511 - Center of west side of Dump Tenders building. ✓
- 4512 - Small detached mangrove bush. Stake with flag beside bush. Bush surrounded by grass. ✓
- 4513 - Small detached mangrove bush in grass. Stake with flag beside bush. ✓
- 4514 - Center of westerly end of a small mangrove point. Stake with flag at end of point. ✓
- 4515 - Center of small detached mangrove clump surrounded by grass and smaller clumps. Stake with flag beside clump ✓
- 4516 - Detached mangrove clump in grass. Stake with flag beside clump. ✓
- 4517 - Detached mangrove clump, north of islet, at south side mouth small stream. Stake with flag beside clump. ✓



- 4518 - Tip of small mangrove point just south of causeway. Stake with flag at tip.✓
- 4519 - Westerly of two palms on causeway. Stake with flag at base of palm. "
- 4520 - Westerly of two palms on causeway. Stake with flag at base of palm. ✓
- 4521 - Southwest corner real estate office, painted pink and higher than rest of building. ✓
- 4522 - Tip of small mangrove point just west of mouth of small stream. Stake with flag at tip. ✓
- 4523 - State Road Dept. wooden observing stand. ✓
- 4401 - Center of south side of bridge. ✓
- 4402 - Center of north side of bridge. ✓
- 5135 - Shore end white cement block house. ✓
- 5136 - Corner L-shaped pier. ✓

TOPOGRAPHIC STATION:

CYPRESS AZIMUTH 1934 (1941) 1957 ✓

50.

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 10545

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

Unclassified

## CONTROL STATIONS

(a. Classification label)

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

## ALONGSHORE AREAS

(Nautical Chart Data)

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

## PHYSICAL FEATURES

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

## CULTURAL FEATURES

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

## BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

## MISCELLANEOUS

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

40. R. R. Wagner 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:

431-41  
438  
5

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
Tampa District Office  
P O Box 190 Tampa 1 Florida

T-10545

5 October 1959

To: Chief, Photogrammetry Division  
Coast and Geodetic Survey  
Washington, D. C.

Subject: Nautical Chart Correction - Tampa Bay Florida, PH-171

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*  
Arthur L. Wardwell  
CDR, C&GS  
Tampa District Officer

WAR/o



# TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-171 T 10545

Time and date of exposure 0824 Apr 16, 1957

Reference station Tampa Bay

Subordinate station Safety Harbor

Date of field inspection Oct. 1957

Mean range 1.9

Spring 11 2.5

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Range of tide	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.				h.	m.				h.	m.			
High tide	14	21	1.8	2.3	High tide	14	21	8-06			14	21	8-06		
Low tide	8	06	0.4	0.4	Low tide	8	06	+1	45		8	06	+1	45	
Duration of rise or fall	6	15		1.9											

	h.	m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
Time H. T. or L. T. Required time Interval	9:51	8:06	1.45	0.4 0.3 0.7	Feature bares Stage of tide above MLW Feature above MLW		52014
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		

COMM - DC - 57848

Computed by *P.E. Smith*

Checked by *A. Barrett*



PROJECT NO. PH-171 T 10543

Time and date of exposure 1009 Apr. 7, 1957

Reference station

Temp 13.1

Amor 13A1

Mean range

Mean range  
Spring 11  
--1.9--  
2.3--

Date of field inspection:

Oct. 1957

### Subordinate station

Safety Number

Ratio of ranges

	Time	
	h.	m.
High tide	18	28
Low tide	1	47
Duration of rise or fall	1 1/4 41	

	Height feet	Height x Ratio of ranges	Time	
			h.	m.
High tide	1.5 + 0.3	2.0	18	28
Low tide	- 0.8 00	- 0.8	1	45
Range of tide		2.8	20	13

	Low tide at Ref. Sta.	Time difference	Time	
			h.	m.
Corrected time at Subordinate station			18	47
			1	45
			18	32

	h. m.		feet		feet	Photo. No.
Time <del>H. T.</del> or L. T. ....	3 32	Ht. <del>H. T.</del> or L. T. ....	- 0.8	Feature bares		55929
Required time ....	10 09	Tabular correction ....	1.0	Stage of tide above MLW		
Interval ....	6 37	Stage of tide above MLW	0.2	Feature above MLW		
Time H. T. or L. T. ....		Ht. H. T. or L. T. ....		Feature bares		
Required time ....		Tabular correction ....		Stage of tide above MLW		
Interval ....		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T. ....		Ht. H. T. or L. T. ....		Feature bares		
Required time ....		Tabular correction ....		Stage of tide above MLW		
Interval ....		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T. ....		Ht. H. T. or L. T. ....		Feature bares		
Required time ....		Tabular correction ....		Stage of tide above MLW		
Interval ....		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T. ....		Ht. H. T. or L. T. ....		Feature bares		
Required time ....		Tabular correction ....		Stage of tide above MLW		
Interval ....		Stage of tide above MLW		Feature above MLW		

COMM-DC-57848

Computed by

Checked by \_\_\_\_\_

*[Signature]*

REVIEW REPORT OF  
SHORELINE MANUSCRIPTS T-10544 and T-10545  
September 1959

62. Comparison with Registered Topographic Surveys

T-1409a	1:20,000	1875
T-1409b	1:20,000	1875
T-4184	1:20,000	1926
T-4185	1:20,000	1926
T-5822	1:10,000	1926
T-5834	1:10,000	1926
T-5835	1:10,000	1926
T-8381	1:20,000	1942

There have been considerable changes of subject area over these many years. The latest survey (T-8381, 1942) compares favorably with subject surveys with only two exceptions: The shoreline at WOODS CREEK - north of COURTNEY CAMPBELL PARKWAY - and at ROCKY POINT - near the east end of said Parkway - indicate extensive changes. T-10544 and T-10545 are to supersede above-listed registered surveys of common area and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

GANDY BRIDGE, FLA., 1:24,000, 1956, U.S. Geological Survey. There is good agreement between these surveys.

64. Comparison with Contemporary Hydrographic Surveys

Blueprint 56931      1:20,000      1958  
There are no apparent differences between these surveys.

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

With only one exception, there is good agreement between subject surveys and the nautical charts. The one exception involves chart 587 and represents a difference in shoreline of ROCKY POINT - near the east end of COURTNEY CAMPBELL PARKWAY.

66. Adequacy of Results and Future Surveys

These surveys meet the requirements of adequacy and accuracy for this type of survey.

Reviewed by

*Joseph J. Streifler*  
Joseph J. Streifler

Approved by

*LC Landy*  
Chief, Review Section  
Photogrammetry Division

*Max H. Kett*  
Chief, Nautical Chart Branch  
Chart Division

*W. Swanson*  
Chief, Photogrammetry  
Division

*J. Bowie*  
Chief, Coastal Surveys  
Division

*18 May 68*

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS:

Tampa District Office  
P. O. Box 190 Tampa Florida

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

2 September 1958

To: Chief, Chart Division  
Coast and Geodetic Survey  
Washington, D. C.

Subject: Revision of Aids to Navigation - Tampa Bay- Florida

On 1 May 1958 this office submitted Form 567 for Aids in Tampa Bay. Aids for the channels at Tampa Bay Marina were listed on Pages 13, 14, and 15.

Since the above date the Aids marking the channels have deteriorated in that all pointers with numbers have been knocked off and will not be replaced. According to the owners of Tampa Bay Marina, the Aids will be maintained only as channel markers (not numbered Daybeacons) until the new Mid-Bay Bridge is completed. Then the channel will probably be re-aligned and widened.

It is our recommendation that other than the Entrance Light, all Aids for the channels be shown as channel markers. An aerial print of Surveys No. T-10545 and T-10551 showing the location of the Light and Channel markers is enclosed.

Arthur L. Wardwell  
CDR, USN  
Tampa District Officer

William A. Rasure  
By direction of the District Officer

Encl.  
cc: Chief, Photo Div.  
WAR/v