

10544 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-10544
LOCALITY	
State	FLORIDA
General locality	OLD TAMPA BAY
Locality	ROCKY POINT TO CABBAGEHEAD BAYOU
19 58	
CHIEF OF PARTY	
Arthur L. Wardwell, Tampa Photo Office	
LIBRARY & ARCHIVES	
MAY 25 1960	
DATE	

USCOMM-DC 5087

10544

DESCRIPTIVE REPORT - DATA RECORD

T- 10544

Project No. (II): Ph 171

Quadrangle Name (IV):

Field Office (II): Tampa District Office

Chief of Party: Arthur L. Wardwell

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): 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): ROCKY POINT 1875

Lat.: 27°57'47."202(1453.0 m) Long.: 82°34'19."316(528.0m)

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

Shoreline
Survey

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II):

George E. Varnadoe
W. M. Reynolds

Date: October 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 October 1957 ✓

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

Date: 3 June 1957 ✓

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

Date: 3 June 1957 ✓

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

Date: 4 November 1957 ✓

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

Date: 4 November 1957 ✓

Radial Plot or Stereoscopic

Date: 27 November 1957 ✓

Control extension by (III): R. R. Wagner

Stereoscopic Instrument compilation (III):

Planimetry

Inapplicable ✓

Date:

Contours

Date:

Manuscript delineated by (III): R. R. Wagner

Date: March 1958 ✓

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

Date: March 1958 ✓

Elevations on Manuscript

checked by (II) (III): Inapplicable ✓

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): 9 lens & Wild Aviogon

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
55928	7 April 1957	10:08	1:10,000	+ 0.2
55929	"	10:09	"	"
55930	"	10:10	"	"
56007	16 April 1957	08:18	"	+ 0.7
56008	"	08:18	"	"
L 1597	"	10:38	"	+ 0.5
L 1598	"	10:39	"	"
L 1599	"	10:39	"	"
L 1600	"	10:40	"	"

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: *Aug. 1959*
Date: *March 1958*
Date: *Aug. 1959*
Date:

Land Area (Sq. Statute Miles) (III): 5
Shoreline (More than 200 meters to opposite shore) (III): 12
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): * 9 Recovered: 4 Identified: 4
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): 50

Remarks: * 4 stations are north of manuscript limits. Only tidal bench marks were searched for.

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

These two surveys are part of Project PH-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

THE FIELD INSPECTION REPORT

IS SUBMITTED WITH T-10558

COMPILATION REPORT - T-10544PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558

31. DELINEATION

The graphic method was used.

The photographs were of fair scale.

The field inspection was good.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

No statement.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was good. The approximate low-water and shoal lines were, for the most part, office interpretation of the photographs.

36. OFFSHORE DETAIL

No statement.

37. LANDMARKS AND AIDS

There are no aids or landmarks.

38. CONTROL FOR FUTURE SURVEYS

A list of photo hydro stations has been furnished the hydro-graphic party. This list is itemized under Item 49. There are no topographic stations.

39. JUNCTIONS

Junctions have been made with T-10543 to the west, T-10545 to the east and T-10550 to the south. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS Planimetric Maps T-5822 and T-5834, scale 1:10,000 dated 1941. They are in fair agreement. Comparison was also made with USGS map Gandy Bridge Florida sheet 322009 (1) scale 1:10,000, dated 1955. They are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Nautical Chart Tampa Bay Northern Part 587, scale 1:40,000 dated 9/16/57 corrected to 11/16/57. They are in fair agreement. The C&GS maps listed in Item 46 appear to be the source of topography and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. R. Wagner
R. R. Wagner

Cartographer (Photo)

Approved and Forwarded:

A. L. Wardwell
A. L. Wardwell
Chief of Party

T-10544.

Geographic Names.

Cabbagehead Bayou
Courtney Campbell Parkway

Dick Creek
Double Bayou

Florida (title)

Gulf Coast (title)

Old Tampa Bay

Rocky Creek
Rocky Point

Sweetwater Creek

Tampa Bay (title: not Old Tampa Bay)
The Pond

State 60

State 580

Names approved 11-3-58

L. Heck

Woods Creek

49. NOTES FOR THE HYDROGRAPHER

The following photo-hydro stations were submitted by the field inspector and located on the manuscript:

- 4401 - Center of south side of bridge. (Falls on T-10545 to the east.)
- 4402 - Center of north side of bridge. (Falls on T-10545 to the east.)
- 4403 - Center of end of pier ruins.
- 4404 - Northwest end of Studebaker billboard.
- 4405 - Westerly palm of 10 along north side causeway stake with flag on shore opposite palm.
- 4406 - Easterly of 5 palms along north side causeway. Stake with flag on shore opposite palm.
- 4407 - Center mangrove clump on apparent shoreline north of causeway. Stake with flag beside clump.
- 4408 - Westerly of 3 palms along north side causeway. Stake with flag on shore opposite palm.
- 4409 - Center of mangrove clump along apparent shoreline, north of causeway. Stake with flag beside clump.
- 4410 - Westerly of 2 palms along north side causeway. Stake with flag on shore opposite palm.
- 4411 - Lone palm along north side causeway. Stake with flag on shore opposite palm.
- 4412 - Westerly palm in south row of 3. Palms are along north side of causeway. Picnic table between rows.
- 4413 - Tip of grass in water, just south of a mangrove point and between two oyster bars. Stake with flag at tip.
- 4414 - Southeast corner green and yellow building on beach.
- 4415 - Center of end of pier.
- 4416 - Center of end of pier.
- 4417 - Westerly of 4 palms along south side causeway. Stake with flag at base.
- 4418 - Westerly and highest of 2 palms along south side of causeway. Stake with flag at base.
- 4419 - South gable picnic shed on south side causeway, most easterly shed.

- //
- '4420 - South gable picnic shed on south side causeway, second shed from east.
 - '4421 - Lone palm bush on west side filled in area.
 - '4422 - Center small marsh spot in front of mangrove. Stake with flag driven in center.
 - '4423 - Center of small marsh spot surrounded by a small mud area just west of a small stream. Stake with flag driven in spot.
 - '4424 - Southwest corner of net rack just east of short pier.
 - '4425 - Short mangrove point near center of marsh islet. Stake with flag driven in point.
 - '4426 - Corner concrete bulkhead.
 - '4427 - State Road Dept. observing stand.
 - '4428 - North gable picnic shed on north side causeway. First shed east of bridge.
 - '4429 - South gable picnic shed on south side of causeway. First shed on south side, east of bridge.
 - '4430 - South gable picnic shed on south side of causeway. Larger shed with E-W gables is just east of the above one.
 - '4431 - Seaward end grass point in front of mangrove. Stake with flag driven in point.
 - '4432 - Bush of shrubbery between 2 Australian pine clumps. Stake with flag beside bush.
 - '4433 - South gable picnic shed along south side causeway. Shed is just east of a clump of Australian pine.
 - '4434 - Mangrove bush in grass along north side causeway. Stake with flag driven beside bush.
 - '4435 - South gable picnic shed along south side of causeway.
 - *
'4437 - Grass spot along edge of mangrove, along north side of causeway. Stake with flag driven in grass spot.
 - '4438 - South gable picnic shed along south side causeway.
 - '4439 - Grass spot along edge of mangrove, along north side of causeway. Stake with flag driven in spot.
 - '4440 - South gable picnic shed along south side of causeway.
 - *'4436 - South gable picnic shed along south side causeway.

- 4441 - Grass spot along edge of mangrove along north side of causeway. Stake with flag driven in spot.
- 4442 - South gable picnic shed along south side causeway.
- 4443 - Grass spot on south side of mangrove island. Stake with flag driven in spot.
- 4444 - Tip of mangrove point at SE side of indentation of shoreline. Stake with flag driven in point, streamers on limbs.
- 4445 - Tip of mangrove at SE side of mouth of creek. Stake with flag driven in point. Streamers in limbs.
- 4446 - Tip of grass at SE side of mouth of creek. Stake with flag driven in point.
- 4447 - Center of square grass spot along edge of mangrove. Most northwesterly of several spots. Stake with flag driven in spot.
- 4448 - Northwest end of grass spot along edge of mangrove. Stake with flag driven in spot.
- 4449 - Lone, detached mangrove bush SE of creek mouth. Stake with flag and streamers tied in bush.
- 4450 - Overhanging mangrove limb. Stake with flag driven in point. Streamers tied on limb.
- 4451 - Small mangrove bush on oyster bar. Stake with flag driven in bedside bush. Streamers tied in limbs.
- 4301 - Center of bridge tender's house, red tile roof.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10544

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 M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 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 J.G. 16. Aids to navigation XX 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 J.G. 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 Jesse A. Giles William A. Basore
Reviewer 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. 10544

Time and date of exposure
1009 20 Apr 1957

Reference station

Tampa Bay

Mean range

1.29

Date of field inspection

Subordinate station

Safety Harbor, Old Tampa Bay

Ratio of ranges L.W. = 0.5
L.W. = 0.0

	Time	
	h.	m.
High tide	20	13
Low tide	3	32
Duration of rise or fall	1641	

	Height		Height x Ratio of ranges
	feet		
High tide	1.5	10.5	2.0
Low tide	-0.8	0.0	-0.8
Range of tide			2.8

	Time	
	h.	m.
High tide at Ref. Sta.	18	28
Time difference	+1 45	
Corrected time at Subordinate station	20	13

	Time	
	h.	m.
Low tide at Ref. Sta.	1	47
Time difference	+1 45	
Corrected time at Subordinate station	3	32

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	3	32	Ht. H. T. 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		
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		

TIDE COMPUTATION

PROJECT NO. Ph- 171 T- 10544

Time and date of exposure 10.39 16 Apr.

Reference station

Tampa Bay

Mean range

1.9

Date of field inspection

Subordinate station

Safety Harbor, Old Tampa Bay

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Time		Time h. m.
	h.	m.			h.	m.	
High tide	16	06	1.8 10.5	2.3	14	21	8 45
Low tide	9	51	0.4	0.4	11	45	11 45
Duration of rise or fall	6 15		1.9		16 06		9 51
					High tide at Ref. Sta.		Low tide at Ref. Sta.
					Time difference		Time difference
					Corrected time at Subordinate station		Corrected time at Subordinate station

	h. m.	feet	Photo. No.
Time H. T. or L. T.	9 51		
Required time	10 39		
Interval	48		
Time H. T. or L. T.			
Required time			
Interval			
Time H. T. or L. T.			
Required time			
Interval			
Time H. T. or L. T.			
Required time			
Interval			
Time H. T. or L. T.			
Required time			
Interval			

M-2617-12

Computed by

P.W.

Checked by

1/5

TIDE COMPUTATION

PROJECT NO. Ph- 171 T- 10544

Time and date of exposure 0818 14 Apr 57

Reference station Tampa Bay

Mean range 1.9

Date of field inspection

Subordinate station Safety Harbor, Old Tampa Bay

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Time		Time h. m.
	h.	m.			h.	m.	
High tide	5	44	0.7 + 0.5	1.2	High tide at Ref. Sta.	3	59
Low tide	9	57	0.4	0.4	Time difference	4	15
Duration of rise or fall	4	07		0.8	Corrected time at Subordinate station	5	44
					Low tide at Ref. Sta.	8	06
					Time difference	4	15
					Corrected time at Subordinate station	9	51

	h. m.	feet		feet	Photo. No.
Time H. T. or L. T.	9 51	0.4	Feature bares		56008
Required time	8 18	0.3	Stage of tide above MLW		
Interval	7 33	0.7	Feature above MLW		
Time H. T. or L. T.			Feature bares		
Required time			Stage of tide above MLW		
Interval			Feature above MLW		
Time H. T. or L. T.			Feature bares		
Required time			Stage of tide above MLW		
Interval			Feature above MLW		
Time H. T. or L. T.			Feature bares		
Required time			Stage of tide above MLW		
Interval			Feature above MLW		
Time H. T. or L. T.			Feature bares		
Required time			Stage of tide above MLW		
Interval			Feature above MLW		
Time H. T. or L. T.			Feature bares		
Required time			Stage of tide above MLW		
Interval			Feature above MLW		

Computed by P. W. Checked by 113

14

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
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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

Josef J. Streifler
Josef J. Streifler

Approved by

L. C. Landy
Chief, Review Section
Photogrammetry Division

May S. Little
Chief, Nautical Chart Branch
Chart Division

Will Swenson
Chief, Photogrammetry
Division

J. Bowie
Chief, Coastal Surveys
Division

18 May 60