

10557

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. Ph-171 Office No. T-10557

LOCALITY

State FLORIDA

General locality HILLSBORO BAY

Locality THE KITCHEN TO ALAFIA RIVER

19 58

CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo Office

LIBRARY & ARCHIVES

DATE

MAY 25 1960

USCOMM-DC 5087

10557

DESCRIPTIVE REPORT - DATA RECORD

T - 10557

Project No. (II): Ph 171

Quadrangle Name (IV):

Field Office (II): Tampa District Office

Chief of Party: A. L. Wardwell

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: A. 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 1958

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 14 Jan 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

~~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): STUMP 1957

Lat.: $27^{\circ}48'51''$.200(1576.0 m)

Long.: $82^{\circ}24'08''$.346(228.4m)

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.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

SHORELINE
SURVEY

COMM-DC-57842

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): George E. Varnadoe

Date: July 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
Spoil areas along east side of July 1957
ship channel located by plane-
table May 1958

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): W. H. Shearouse

Date: 5 Sept. 1957

Control checked by (III): W. W. Dawsey

Date: 5 Sept. 1957

Radial Plot or Stereoscopic

Date: 13 Aug. 1957

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

Stereoscopic Instrument compilation (III):
Planimetry Inapplicable
Contours

Date:

Date:

Manuscript delineated by (III): R. Dossett

Date: Feb. 1958

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

Date: Feb. 1958

Elevations on Manuscript

checked by (II) (III): Inapplicable

Date:

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY **A**

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

Number	Date	Time	Scale	Stage of Tide
55870	7 April 1957	09:24	1:10,000	+ 0.5
55871	"	09:25	"	"
55872	"	09:25	"	"
571576	16 April 1957	10:02	"	+ 0.7
" 1577	"	10:02	"	"
" 1578	"	10:02	"	"

Predicted Tide (III)

Reference Station: Tampa Bay (St. Petersburg)
Subordinate Station: Tampa (Hillsboro Bay)
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
--	1.4	1.6
--	1.8	2.4

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date: Oct. 1959
Date: Febr. 1958
Date: Oct. 1959
Date:

Land Area (Sq. Statute Miles) (III): 5

Shoreline (More than 200 meters to opposite shore) (III): 4

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

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II): 5

Recovered: 3

Identified: 4

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): Planetable location only

Remarks: Three triangulation stations established.

5

SUMMARY
TO ACCOMPANY SHORELINE MANUSCRIPTS
T-10556 and T-10557

These are two of twenty-seven T-sheets representing Project PH-171 (27380). It is located in the State of Florida and covers the Tampa Bay area. Subject surveys extend from MacDill Air Force Base eastward to the town of Gibsonton on the Alafia River.

T-10556 and T-10557 were compiled graphically in 1957 and 1958 at the Tampa District Office, based on nine-lens photography of April 1957 and Field Inspection of July-August 1957. Advanced shoreline information and control was made available in support of hydrographic surveys.

The manuscripts in final form are the result of adequate scribing and suitable for direct reproduction of permanent file copy.

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

October 1959

THE FIELD INSPECTION REPORT IS SUBMITTED WITH

T-10558

COMPILATION REPORT T-10557

PHOTOGRAMMETRIC PLOT REPORT

Being submitted with T-10558

31. DELINEATION

Compiled graphically.

The details were compiled from the nine lens photographs, but the 57L series of infra-red single lens photographs were used for reference and supplemental disclosure of some details not clear or visible on the nine lens.

The scale of the photographs was excellent.

Field inspection was adequate.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

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

35. SHORELINE AND ALONGSHORE DETAILS

All alongshore structures visible or noted by the field inspector have been delineated. Only those buildings designated by the field inspector as landmark buildings have been shown. No recommendations were made by the field inspector relative to mean low-water^{or} shoal lines; however outstanding shallow or shoal areas visible on the photographs have been delineated from office interpretation. Spoil areas along east side of ship channel located by planetable may 1958.

36. OFFSHORE DETAILS

Dolphins and piling at Hillsboro Bay Cut A Channel Range Rear Light were located by plane table and were transferred from plane table sheet TPU -E-57 to the manuscript.

37. LANDMARKS AND AIDS

Daybeacons along the channel from the mouth of Alafia River to Tampa Bay channel were located by plane table. They have been transferred from plane table sheet TFU-B-57 to this map manuscript. They have been listed on form 567 and are being submitted under separate cover. Forwarded 1 May 1958. w.a.p.

38. CONTROL FOR FUTURE SURVEYS

One (1) topographic station is being submitted on form 524 and is listed under Item 49.

~~Photo~~-Hydro stations were located by plane table on sheets TFU-B and TFU-E and are not delineated on the map manuscript or listed under Item 49. The signals were built at the time of the plane table survey.

39. JUNCTIONS

A satisfactory junction has been obtained with T-10553 on the north, T-10556 on the west, T-10559 on the south and U.S.G.S. Gadsen Point - 124000 on the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement required.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the following maps:

C&GS PLANIMETRIC MAP No. T-5838, scale 1:10,000, compiled from photographs taken Nov. 1938, Dec. 1939 and Nov. 1942, and supplemented by other surveys to Oct. 1944.

USGS Stereocompilation "GADSEN POINT FLA.", scale 1:10,000 drafting scale 1:20,000, map 320109, sheet #1, compiled in 1955.

Except for a new US 41 Highway bridge over Alafia River and new construction of fills in the vicinity of Gardenville Beach, little discrepancy was noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS Nautical Chart No. 587, scale 1:40,000, published at Washington D. C. Aug. 14, 1943, 9th edition and revised to 16 Sept. 1957. It appears that the maps listed above are the source of topography and the same discrepancies exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Rudolph Dossett
Rudolph Dossett

Approved and Forwarded:

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

T-10557.

Geographic Names.

Adamsville

Alafia River

Alafia River Channel

Atlantic Coast Line

(Tampa Southern not listed in 1958 Rail-
way Guide)

Bird Island

(not Key: to agree with USGS quadrangle)

Bullfrog Creek

(not named on chart 587)

Dug Creek

East Tampa

East Tampa U.S. Phosphoric Company

Florida

(title)

Gardenville Beach

Gibsonston

Green Key

Gulf Coast

(title)

Hillsborough Bay

Hog and Hominy Cove

(1958 BFN decision approved long form of
this name, which will be gradually
applied on charts and in Light List)

South Channel

Tampa Bay

(feature and title)

The Kitchen

Whiskey Stump Key

U.S. 41

Names approved 11-5-58

A. Heck

49. NOTES FOR THE HYDROGRAPHER

The following information will be of use
to the hydrographer:

~~Photo~~-Hydro stations have not been shown on the
map manuscript and consequently not listed here. They
were located by planetable on sheets TFU -B and TFU-E;
the signals being built at the time of the planetable
survey.

TOPOGRAPHIC STATIONS:

FROG 1957

PHOTOGRAMMETRIC OFFICE REVIEW

T.

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

UNCLASSIFIED

CONTROL STATIONS 4a Classification label -----

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 XX 14. Rocks, shoals, etc. J.G. 15. Bridges J.G. 16. Aids to navigation J.G. 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 XX 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 J.G. 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 William A. Rasure
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:

1. 8

1. 9

Ratio of ranges

	Time	
	h.	m.
Low tide at Ref. Sta.	1	47
Time difference	46	15
Corrected time at Subordinate station	2	02

[illegible]

Checked by LLS

TIDE COMPUTATION

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph- T-10567

Time and date of exposure 1002 16 Apr 1957 ✓ Reference station Tampa Bay (St. Petersburg)

Date of field inspection July 1957 Subordinate station Tampa, Hillsboro Bay

Mean range 1.8
SPRING 2.4

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Range of tide
	h.	m.			
High tide	14	30	1.8 + 0.4	2.2	1.8
Low tide	8	21	0.4	0.4	
Duration of rise or fall	6	15			

	Time		High tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
High tide	14	41			
Low tide	4	0			
Corrected time at Subordinate station	14	36			

	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
Low tide	8	06			
Time difference	4	0			
Corrected time at Subordinate station	8	21			

	h.	m.	feet	Photo. No.
Time H. T. or L. T. Required time Interval	18	21	0.4	57L1578
	10	02	0.3	
	1	41	0.7	
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				
Time H. T. or L. T. Required time Interval				
Time H. T. or L. T. Required time Interval				

COMM-DC-57848

Computed by R. B. Smith Checked by W. H. S.

REVIEW REPORT OF
SHORELINE MANUSCRIPTS T-10556 and T-10557
October 1959

62. Comparison with Registered Topographic Surveys

T-1408a	1:20,000	1875
T-1411a	1:20,000	1876
T-4201	1:10,000 &	
	1:20,000	1926
T-4202	1:20,000	1926
T-5836	1:10,000	1939
T-5838	1:10,000	1939
T-8385	1:20,000	1942

Subject area has undergone many changes over these many years and is likely to be subject to further changes in the future. These two shoreline manuscripts are to supersede above-listed registered surveys of common area and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

GIBSONTON, FLA., 1:24,000, 1956, U. S. Geological Survey. There are minor changes throughout. The most prominent difference is the presence of a chain of islands on the later surveys, which extends from Hooker Point in a southerly direction. These islands appear to be the result of deposits from dredging operations of the Hillsborough Channel.

*Applicant to
10556
hw 8*

64. Comparison with Contemporary Hydrographic Surveys

H-8380	1:10,000	1957
H-8411	1:10,000	1957-58

Shoreline and control for these hydrographic surveys was furnished from subject shoreline manuscripts and no changes were applied.

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

65. Comparison with Nautical Charts continued

A chain of islands east of Hillsborough Channel (as described in Item #63) represents a recent change and does not appear on above-listed nautical charts. This and minor shoreline changes may be obtained from hydrographic surveys listed under Item #64.

66. Adequacy of Results and Future Surveys

Subject map manuscripts have been completed according to project instructions and meet the requirements of adequacy and accuracy.

Reviewed by

Josef J. Streifler
Josef J. Streifler

Approved by

L. C. Sande
Chief, Review Section
Photogrammetry Division

W. W. Wauson
Chief, Photogrammetry
Division

18 May 60

Max B. Little
Chief, Nautical Chart Branch
Chart Division

J. Bowie
Chief, Coastal Surveys
Division