

10559

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-10559
LOCALITY	
State	FLORIDA
General locality	TAMPA BAY
Locality	LIZAS FORK TO JACKSON BRANCH
<u>19 58</u>	
CHIEF OF PARTY	
Arthur L. Wardwell, Tampa Photo. Office	
LIBRARY & ARCHIVES	
MAY 25 1960	
DATE	

COMM-DC 61300

10559

DESCRIPTIVE REPORT - DATA RECORD

T - 10559

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

Field Office (II): **Tampa District Office**

Chief of Party: **Arthur L. Wardwell**

Photogrammetric Office (III): **Tampa, Fla.**

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): **OCT 7 1958**

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **10 Feb 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): **ROUGH, 1957**

Lat.: **27° 46' 15.470" (476.2 m.)** Long.: **82° 25' 42.647" (1167.7 m.)**

~~Adjusted~~
~~Standard~~
unadjusted
RRW.

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.

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

			INAPPLICABLE								

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

DESCRIPTIVE REPORT - DATA RECORD

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

Date: **Aug. 1957** ✓

Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II): **Inapplicable**

Date:

Mean High Water Location (III) (State date and method of location): **August 1957**

Air photo compilation ✓

*May 1958 - Spoil areas east side of ship channel located
by planetable*

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

Date: **26 June 1957** ✓

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

Date: **26 June 1957** ✓

Control plotted by (III): **R. J. Pate**

Date: **1 Aug. 1957** ✓

Control checked by (III): **R. R. Wagner**

Date: **5 Aug. 1957** ✓

Radial Plot ~~on Stereoscopic~~ **R. J. Pate**

Date: **12 Aug. 1957** ✓

~~Control checked~~ by (III): **R. R. Wagner**

Planimetry

Date:

Stereoscopic Instrument compilation (III): **Inapplicable** ✓

Contours

Date:

Manuscript delineated by (III): **I. I. Saperstein** ✓

Date: **Jan. 1958**

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

Date: **Mar. 1958**

Elevations on Manuscript

Date:

checked by (✓) (III): **Inapplicable** ✓

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **Nine-lens and Wild Aviogon**

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PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55873	7 Apr. 1957	0925	1:10,000	+0.2
55874	"	0926	"	"
55875	"	0926	"	"
55881	"	0934	"	"
55882	"	0934	"	"
55883	"	0935	"	"
55902	"	0948	"	"
55903	"	0949	"	"
55904	"	0949	"	"
57-L-1548	16 Apr. 1957	0954	"	+0.7
57-L-1549	"	0955	"	"
57-L-1550	"	0955	"	"
57-L-1551	"	0955	"	"
57-L-1552	"	0956	"	"

Tide (III)

Predicted

Ratio of Ranges	Mean Range	Spring Range
-	1.4	1.6

Reference Station: **TAMPA BAY (St. Petersburg)**

Subordinate Station: "

Subordinate Station: "

Washington Office Review by (IV):

W. Streifler

Date: *Oct. 1959*

Final Drafting by (IV):

Tampa District Office

Date: *Jan. 1958*

Drafting verified for reproduction by (IV):

W. Streifler

Date: *Oct. 1959*

Proof-Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **12**

Shoreline (More than 200 meters to opposite shore) (III): **10.8**

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

Control Leveling - Miles (II): **Inapplicable**

Number of Triangulation Stations searched for (II): **1** Recovered: **0** Identified: **2**

Number of BMs searched for (II): **0** Recovered: **0** Identified: **0**

Number of Recoverable Photo Stations established (III): **4**

Number of Temporary Photo Hydro Stations established (III): **Located by planetable. Not shown on map manuscript.**

Remarks:

Four triangulation stations established.

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**SUMMARY
TO ACCOMPANY SHORELINE MANUSCRIPTS
T-10558 and T-10559**

Subject surveys are two of shoreline mapping Project FH-171 (27380). The project covers the Tampa Bay, Florida area. It was designed to support hydrographic surveys for subsequent revision of existing nautical charts. T-10558 covers that portion of St. Petersburg directly on Tampa Bay and T-10559 the opposite shore in the vicinity of Big Bend.

These two shoreline manuscripts were compiled graphically and according to instructions of May 1957 at the Tampa District Office in Nov. 57 and Jan. 58. They are based on nine-lens and Wild Aviogon photography of April 1957 and field inspection of Aug. 1957. The submitted manuscripts are the result of adequately scribed sheets and after limited additions and corrections during Washington Office Review ready 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 BOUND WITH T-10558

COMPILATION REPORT T-10559

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558.

31. DELINEATION

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

32. CONTROL

Reference Photogrammetric Plot Report. *See T10558*

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate and the shoreline was delineated according to the field inspector's notes. *Spoil areas along east side of ship channel located by plane table May 1958.*

The shallow areas were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

All offshore piling and dolphins have been shown.

37. LANDMARKS AND AIDS

There are no landmarks.

A number of fixed aids to navigation are shown including two ranges. The aids have been listed on form 567 and forwarded under separate cover. *May 1958. w.a.R.*

38. CONTROL FOR FUTURE SURVEYS

Form 524 has been submitted for all recoverable topographic stations and they have been listed under Item 49.

Hydro stations were cut in by planetable on sheets TPU-U-57 and TPU-E-57.

39. JUNCTIONS

Junctions have been made with the following:

- T-10556 - to the northwest
- T-10557 - to the northeast
- T-10562 - to the south

There are no contemporary surveys to the east and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. GIBSONTON, FLORIDA quadrangle, scale 1:24,000, edition of 1956. Only minor differences were noted.

Comparison has been made with U.S.G.S. stereocompilation sheet GADSDEN POINT, FLORIDA 320109, scale 1:10,000, dated 1955. The U.S.G.S. quadrangle listed above has evidently been made from this stereocompilation. Differences were of a minor nature.

Comparison has been made with C. & G.S. planimetric maps T-5839 and T-5840, scale 1:10,000, dated 1942. Differences were trivial.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C. & G.S. Chart 587, scale 1:40,000, edition of 14 August 1943, revised 16 September 1957. The maps listed under Item 46 are probably the source of topography for the chart. The same differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

I. I. Saperstein
I. I. Saperstein
Carto Photo Aid

APPROVED AND FORWARDED

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

T-10559.

Geographic Names.

Big Bend

Florida

(title)

Gulf Coast

(title)

Hillsborough BayOut

(1958 BGN decision approved long form of this name and charts, Light List will be gradually brought into agreement)

Jackson B_anch

Lizas Fork

Newman Branch

Sims Branch

Tampa Bay

Wolf Branch

Names approved 11-5-58

L. HECK

49. NOTES FOR THE HYDROGRAPHER

~~Photo~~-Hydro stations have not been shown on the map manuscript and consequently are not listed here. They were located on plane-table sheets TFU-U-57 and TFU-E-57, the signals being built at the time of the hydrographic survey.

The following are recoverable topographic stations for which Form 524 has been submitted:

BEND, 1957

DOC (1941), 1957

ALL (1941), 1957

GIG (1941), 1957

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10559

- 1. Projection and grids JG 2. Title JB 3. Manuscript numbers JG 4. Manuscript size JG

Unclassified

CONTROL STATIONS

4a. 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) JG 7. Photo hydro stations JG 8. Bench marks XX
- 9. Plotting of sextant fixes XX 10. Photogrammetric plot report JG 11. Detail points JG

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

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

MISCELLANEOUS

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

40. Jesse A. Giles Reviewer
William A. Rasure Supervisor, Review Section or Unit
 Jesse A. Giles 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:

TIDE COMPUTATION

PROJECT NO. Ph- 171 T - 10559

Time and date of exposure 0255-16 Apr. 1957 Reference station Tampa Bay (St. Petersburg) Mean range 1.4

Date of field inspection Aug. 1957 Subordinate station Tampa Bay (St. Petersburg) Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Time	
	h.	m.			h.	m.
High tide	14	21	1.8	1.8	14	21
Low tide	8	06	0.4	0.4		
Duration of rise or fall	6	15		1.4	14	21

	Time h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	H. m.	Time h. m.	Photo. No.
Time H. T. or L. T.								
Required time	08 06					0.4		
Interval	09 55					0.3		574 1551
	1 49					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								

Computed by 115 Checked by VR

TIDE COMPUTATION

PROJECT NO. Ph. 171 T-10559

Time and date of exposure 09.34 7 Apr 1957 Reference station Tampa Bay (St. Petersburg) Mean range 1.4

Date of field inspection Aug. 1957 Subordinate station Tampa Bay (St. Petersburg) Ratio of ranges

High tide	Time		Height feet	Height x Ratio of ranges	High tide	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	Time difference	Time	
	h.	m.				h.	m.					h.	m.
18 28	18	28	1.5	1.5	18 28	18	28	18 28				18	28
1 47	1	47	-0.8	-0.8	1 47	1	47	1 47				1	47
Duration of rise or fall	16	41		2.3	Range of tide								

Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges	Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	Height feet	Height x Ratio of ranges					
Time H. T. or L. T. Required time Interval	01 47	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	1.5	1.5	Time H. T. or L. T. Required time Interval	09 34	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	-0.8	1.5	Time H. T. or L. T. Required time Interval	07 47	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	1.0	1.5	Time H. T. or L. T. Required time Interval	18 28	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	-0.8	1.5	Time H. T. or L. T. Required time Interval	18 28	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	1.0	1.5	Time H. T. or L. T. Required time Interval	18 28	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.2	1.5	Time H. T. or L. T. Required time Interval	18 28	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.2	1.5	Time H. T. or L. T. Required time Interval	18 28	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.2	1.5	Time H. T. or L. T. Required time Interval	18 28	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.2	1.5

Computed by 115 Checked by R.D.

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REVIEW REPORT OF
SHORELINE MANUSCRIPTS T-10558 and T-10559
October 1959

62. Comparison with Registered Topographic Surveys

T-1408a	1:20,000	1875
T-1411a	1:20,000	1876
T-4199	1:20,000	1926
T-4201	1:10,000 and 1:20,000	1926
H-4575a	1:3,000	1927 (containing topography)
T-5830	1:10,000	1939
T-5839	1:10,000	1939
T-8385	1:20,000	1942
T-8386	1:20,000	1942
T-8387	1:20,000	1942

The area covered by subject surveys changes constantly, particularly the shoreline in the vicinity of St. Petersburg. Subject surveys are to supersede above-listed registered surveys of common area and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

ST. PETERSBURG, FLA., 1:24,000, 1956, U.S. Geological Survey
PORT TAMPA, FLA., 1:24,000, 1956, U.S. Geological Survey
GIBSONTON, FLA., 1:24,000, 1956, U.S. Geological Survey

Only minor shoreline differences were noted in this comparison.

64. Comparison with Contemporary Hydrographic Surveys

Blueprint 57519, 1:10,000 (with St. Petersburg Harbor Inset
at 1:5,000), 1958
H-8411, 1:10,000, 1957

Advance information of subject surveys was made available for these hydrographic surveys and there is good agreement.

65. Comparison with Nautical Charts

587, 1:40,000, (with Inset of St. Petersburg Harbor at 1:10,000), Ed. of 1958, Revised to 7/6/59
1257, 1:80,000, Edition of 1943, Revised to 3/2/59

With two exceptions there is good agreement with subject surveys and the two listed nautical charts. The two exceptions are:

1.) At the entrance of the Central Yacht Basin of St. Petersburg Harbor the shoreline and position of one light differ considerably. This represents a recent change and this information was made available to the Nautical Chart Branch after T-10558 had been compiled.

2.) The two listed nautical charts fail to show islands south of Hillsboro Channel Range Front Lights (Cuts "A" and "C"). These islands appear on T-10559 and hydrographic survey 8411.

66. Adequacy of Results and Future Surveys

T-10558 and T-10559 meet the requirement of adequacy and accuracy. Though adequate and accurate as of 1957, there are sufficient indications of the need of more frequent surveys in the future, than of those intervals evidenced by previous surveys.

Approved

L. C. Lande
Chief, Review Section
Photogrammetry Division

L. W. Swanson
Chief, Photogrammetry
Division

18 May 60

Reviewed by

Josef J. Strelflier
Josef J. Strelflier

Max Shucklett
Chief, Nautical Chart Branch
Chart Division

J. Bowie
Chief, Coastal Surveys