

10552 Original

Diag. Ght. No. 1257-3.

Form 604

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Ph-171 Office No. T-10552

LOCALITY

State FLORIDA

General locality HILLSBORO BAY

Locality SPARKMAN CHANNEL TO BALLAST POINT

19 58

CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo Office

LIBRARY & ARCHIVES

DATE **MAY 25 1960**

COMM-DC 61300

10552

DESCRIPTIVE REPORT - DATA RECORD

T - 10552

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: **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**

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 low water~~ 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): **KNIGHT 1946**

Lat.: **27°54'42.257" (1300.7 m)**

Long.: **82°26'56.239" (1537.9)**

Adjusted

~~Horizontal~~

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

**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: **Sept. 1957**

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

Date:

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

Date:

Mean High Water Location (III) (State date and method of location): **Sept. 1957 Air Photo Compilation**  
**Spoil areas along east side of ship**  
**channel located by planetable**  
**May 1958.**

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

Date: **7 Apr. 1957**

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

Date: **17 Apr. 1957**

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

Date: **19 May. 1957**

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

Date: **19 May. 1957**

Radial Plot ~~on Stereoscopic~~

Date: **30 June 1957**

~~Radial Plot~~ by (III): **M. M. Slavney**

Stereoscopic Instrument compilation (III):  
Planimetry  
Contours **Inapplicable**

Date:

Date:

Manuscript delineated by (III): **R. J. Pate**

Date: **15 Apr. 1958**

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

Date: **28 Apr. 1958**

Elevations on Manuscript

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

Date:

## DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **C&GS Nine-lens**

## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55897	Apr. 7 1957	09:46	1:10,000	4 0.4
55898	" " "	09:46	"	"
55899	" " "	09:47	"	"
55919	" " "	10:01	"	"
55920	" " "	10:02	"	"

**Predicted**  
Tide (ft)

Reference Station: Tampa Fla.  
Subordinate Station: Tampa, Hillsboro Bay  
Subordinate Station:

	Ratio of Ranges	Mean Range	Spring Range
H:W: $\sqrt{3}$	8:4	1.4	1.6
L:W: $\sqrt{2}$	8:6	1.8	2.4

Washington Office Review by (IV):

Date: Sept. 1957

**Final Drafting by (IV):**

Date: April 1958

Drafting verified for reproduction by (IV):

Date: Sept. 14

**Proof Edit by. (IV):**

Date:

**Land Area (Sq. Statute Miles) (III): 6**

**Shoreline (More than 200 meters to opposite shore) (III): 14.2 miles**

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

Number of Triangulation Stations searched for (II): 27

Recovered: 10

Identified: 2

**Number of BMs searched for (II):**

Recovered: 12

Identified: 3

Number of Recoverable Photo Stations established (III): 5

Number of Temporary Photo Hydro Stations established (III): Planetable sheets TPU-A-57 TPU-C-57  
TPU-D-57

Remarks: Eight triangulation stations were established and one was identified.  
Only tidal bench marks were searched for.

5

SUMMARY  
TO ACCOMPANY SHORELINE MANUSCRIPTS  
T-10552 and T-10553

These surveys are part of shoreline Project PH-171 (27380). The project covers the Tampa Bay, Florida area and was designed to aid in hydrographic surveys for the purpose of revising existing nautical charts. Subject surveys cover the northern portion of Hillsborough Bay and the adjoining land area.

The field work -- field inspection and recovery of control -- was accomplished during 1957; the radial plot and compilation from nine-lens photography of April 1957 and scribing of reproduction copy during 1957-58 by the Tampa District Office. Advanced shoreline information and control was utilized during hydrographic surveys of 1957 and no disagreements were noted in the comparison of these surveys.

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-10552

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558

31. DELINEATION

Compiled by graphic method. Scale of photographs was generally poor with exception of 55898 which was excellent. Therefore practically all of the northeastern portion of the sheet was delineated from it.

Field inspection was adequate.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

About one quarter mile <sup>of</sup> shoreline at the southern tip of Hooker Point was located by planetable by the field party on TFU-A-57. Several single pile were applied to the manuscript from planetable sheet TFU-C-57.

34. CONTOURS AND DRAINAGE

None.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was good. All shoreline features were shown according to field inspection notes.

The low-water line was delineated according to field inspection. Spoil areas along the east side of ship channel were located by planetable May 1958.

36. OFFSHORE DETAILS

All offshore detail have been shown.



### 37. LANDMARKS AND AIDS

All landmarks and aids to navigation have been shown. Form 567 was submitted separately on 1 May 1958.

### 38. CONTROL FOR FUTURE SURVEYS

Eight (8) topographic stations have been recovered and forms 524 submitted for each.

Fifty-seven (57) ~~hydro~~-hydro stations were established by plane-table methods on sheets TFU-A-57, TFU-C-57 and TFU-D-57.

All of the topographic stations have been listed under Item 49.

### 39. JUNCTIONS

Satisfactory junctions have been made as follows:

T-10546 to the north, T-10551 to the west (detail is not mapped to neatline), T-10553 to the east and T-10556 to the south.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

### 46. COMPARISON WITH EXISTING MAPS

Comparison was made with a film positive of U.S.G.S. stereo-compilation TAMPA quadrangle 890709, sheet 2, scale 1:10,000, dated 7 October 1955. There were no differences worthy of note.

Comparison was made with C&GS planimetric maps T-5835 and T-5837, scale 1:10,000, edition of 1941. The comparison is generally good with the exception of the southern tip of Davis Islands where the sand fill protecting the boat basin has undergone considerable erosion and the southern end of Hooker Point has been built up with spoil from channel dredging.

Comparison was also made with the Army Map Service TAMPA FLORIDA quadrangle, scale 1:25,000, edition of 1947. Approximately the same changes as aforementioned were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 587, scale 1:40,000 published 14 August 1943 and revised 7 January 1957.

It appears the planimetric maps listed in paragraph 46 are the source of most of the topography on the nautical chart and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*R. J. Pate*  
R. J. Pate  
Carto Photo Aid

Approved and Forwarded:

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

T-10552.Geographic Names.Ballast Point  
Bayshore BoulevardDavis Island Yacht Club  
Davis IslandsFlorida (title)Gulf Coast (title)Hillsborough Bay (1958 BGN decision for long form of name. Will  
Hooker Point eventually be changed on charts and Light List)Interbay Peninsula  
Majorie Park  
Peter O. Knight AirportSeaplane Basin  
Seddon Channel  
Seddon Island  
Sparkman ChannelTampa  
Tampa Bay (title: not Hillsboro or Hillsborough Bay)  
Tampa Yacht and Country ClubNames approved 11-3-58  
L. Heck

49. NOTES FOR THE HYDROGRAPHER

The temporary hydro stations were established by planetable on sheets TFU-A-57, TFU-C-57 and TFU-D-57. The signals were built at the time of the survey.

The following five (5) recoverable photo stations are:

ARM (1941) 1957

B. M. 5 U.S.E.D. (1935) 1957

B. M. U.S.E.D. AIRPORT (1941) 1957

SON (1941) 1957

VIS (1941) 1957

12-14

50.

# PHOTOGRAMMETRIC OFFICE REVIEW

T-10552

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 R.R.W. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations J.G. 8. Bench marks J.G.  
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 J.G. 17. Landmarks J.G. 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 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. Rasura  
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-10552

Time and date of exposure 0947 2 Apr 1957 Reference station Tampa Bay

Mean range 1.8

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

Ratio of ranges L.W. + 0.4  
L.W. 0.0

	Time		Height feet	Height x Ratio of ranges	Range of tide
	h.	m.			
High tide	18	43	1.5	1.9	-0.8
Low tide	2	02	-0.8	-0.8	
Duration of rise or fall	16	41		2.7	

	Time		High tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
High tide at Ref. Sta.	18	28			
Time difference				15	
Corrected time at Subordinate station	18	43			

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

	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.
	h.	m.					
Time <del>H. T.</del> or L. T.	2	02		-0.8	Feature bares		55899
Required time	9	47		1.2	Stage of tide above MLW		
Interval	7	45		0.4	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		

REVIEW REPORT OF  
SHORELINE MANUSCRIPTS T-10552 and T-10553

September 1959

62. Comparison with Registered Topographic Surveys

T-1411a	1:20,000	1876
T-1411b	1:20,000	1875
T-4201	1:10,000 and	
	1:20,000	1926
T-4202	1:20,000	1926
T-5835	1:10,000	1939
T-5837	1:10,000	1939
T-5838	1:10,000	1939
T-8382	1:20,000	1942

This area has been subjected to continuous changes since the first survey of 1875. Since 1942 further changes --some extensive-- have made these surveys obsolete for nautical charting purposes. Subject surveys supersede above-listed surveys for these charting purposes of common area and detailing.

63. Comparison with Maps of Other Agencies

TAMPA, FLA., 1:24,000, 1956, U.S. Geological Survey. There are considerable disagreements in the eastern portion of Hillsborough Bay. The southern tip of Hooker Point has changed noticeably and there is now a chain of islands in a generally southern direction from said Hooker Point. They consist of spoil and are directly east of Hillsborough Channel, apparently the result of dredging operations of said channel. Further disagreements exist at Port Sutton (Black Point) and along the shoreline directly south of this.

64. Comparison with Contemporary Hydrographic Surveys

H-8379	1:10,000	1957
H-8380	1:10,000	1957

Shoreline and control was furnished for these hydrographic surveys from subject project and there is complete agreement.

65. Comparison with Nautical Charts

587, 1:40,000, Edition of 1958, Revised to 7/6/59  
 (with inset of Davis Islands and Vicinity at  
 1:10,000)  
 1257, 1:80,000, Edition of 1943, Revised to 3/2/59  
 Disagreements listed under Item #63 were found in this  
 comparison also. It is suggested that these changes  
 (made available by hydrographic surveys 8379 and 8380)  
 be applied to affected charts.

66. Adequacy of Results and Future Surveys

Subject surveys comply with project instructions.  
 They were found to be within the requirements for ad-  
 equacy and accuracy for this type of survey.

Reviewed by

*Josef J. Streifler*  
Josef J. Streifler

Approved

*R. C. Lande*  
Chief, Review Section  
 Photogrammetry Division

*Max Whitliff*  
Chief, Nautical Chart Branch  
 Chart Division

*L. W. Swanson*  
Chief, Photogrammetry Division  
 17 May '60

*J. Bowie*  
Chief, Coastal Surveys Division