

# 10542

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-10542
LOCALITY	
State	FLORIDA
General locality	OLD TAMPA BAY
Locality	ALLEN CREEK ENTRANCE
	TO SAFETY HARBOR
1958	
CHIEF OF PARTY	
Arthur L. Wardwell, Tampa Photo. Office	
LIBRARY & ARCHIVES	
MAY 25 1960	
DATE	

USCOMM-DC 5087

# 10542

DESCRIPTIVE REPORT - DATA RECORD

T - 10542

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): SAFETY HARBOR SILVER MUNICIPAL TANK 1926

Lat.: 27°59' 30.462" (937.7m.) Long.: 82°41' 46.200" (1262.4m.)

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

Field Inspection by (II):

*George E. Varnadoe*  
W. M. Reynolds

Date: November 1957

Planetable contouring by (II):

Inapplicable

Date: /

Completion Surveys by (II):

Inapplicable

Date: /

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

November 1957

Air Photo Compilation

Projection and Grids ruled by (IV):

J. B. Phillips

Date: 1 June 1957

Projection and Grids checked by (IV):

J. B. Phillips

Date: 1 June 1957

Control plotted by (III):

R. J. Pate

Date: 1 Nov. 1957

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

W. W. Dawsey

Date: 4 Nov. 1957

Radial Plot ~~or Stereoscopic~~

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

Date: 20 Nov. 1957

Stereoscopic Instrument compilation (III):

Planimetry

Inapplicable

Contours

Date:

Date:

Manuscript delineated by (III):

W. W. Dawsey

Date: Feb. 1958

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

Date: May 1958

Elevations on Manuscript

checked by (II) (III): Inapplicable

Date:

## DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): USC&amp;GS Nine-lens

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
56082	16 April 1957	0915		1:10,000	+0.4 ✓
56083	"	0916		"	+0.4 ✓

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:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 12  
Shoreline (More than 200 meters to opposite shore) (III): 11

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

Control Leveling - Miles (II): Inapplicable ✓

Number of Triangulation Stations searched for (II): 12

Recovered: 5

Identified: 5

Number of BMs searched for (II): 7

Recovered: 6

Identified: 2

Number of Recoverable Photo Stations established (III): 4

Number of Temporary Photo Hydro Stations established (III): 15

Remarks:

Only tidal bench marks were searched for

SUMMARY  
TO ACCOMPANY SHORELINE MANUSCRIPTS  
T-10542 and T-10543

Subject surveys are two of Shoreline Project PH-171 (27380). The project consists of 27 sheets, which cover the shorelines of Tampa Bay, Old Tampa Bay and Hillsborough Bay in Florida. T-10542 and T-10543 are in the northwest corner of the project, in the vicinity of Safety Harbor.

The project was assigned to the Tampa District Office with instructions of May 1957 for the purpose of providing shoreline maps for the revision of existing nautical charts and shoreline and horizontal control data for immediate use of hydrography. Field inspection and recovery of control was accomplished during 1957, the radial plot and compilation in 1958 from nine-lens photography of April 1957.

The submitted manuscripts are the result of adequately scribed sheets, subject to only minor corrections during Washington Office Review. They will be reproduced directly to obtain permanent file copies.

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

August 1959

FIELD INSPECTION REPORT

• SUBMITTED WITH T-10558



COMPILATION REPORT T-10542 ✓

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 ✓

None.

34. CONTOURS AND DRAINAGE ✓

Contours are inapplicable.

The drainage has been delineated according to the field inspection and photographic interpretation. ✓

35. SHORELINE AND ALONGSHORE DETAILS ✓

The shoreline inspection was adequate.

Alongshore details were delineated according to field inspection. No low-water or shoal lines have been shown; shallow areas have been delineated from photographic interpretation. ✓

36. OFFSHORE DETAILS ✓

No statement.



37. LANDMARKS AND AIDS

One landmark submitted on Form 567 under separate cover 1 May 1958.

38. CONTROL FOR FUTURE SURVEYS

Four (4) topographic stations have been established and Form 524 submitted for each. (listed under Item 49) ✓

A list of fifteen (15) photo-hydro stations with descriptions for each has been prepared and included under Item 49. ✓

39. JUNCTIONS

T-10543 to the east - satisfactory ✓  
T-10548 to the south - satisfactory ✓  
No contemporary survey to the north and west. ✓

40. HORIZONTAL AND VERTICAL ACCURACY

No statement. ✓

46. COMPARISON WITH EXISTING MAPS ✓

Comparison was made with a film positive of U.S.G.S. quadrangle SAFETY HARBOR FLORIDA 79009, sheet No. 1, stereocompilation, scale 1:10,000, edge joined, 26 Sept. 1955. No differences worthy of note exist.

Comparison was made with C&GS planimetric map No. T-5825, compiled from air photographs taken December 7 and 12, 1939 and supplemented by other surveys to August 1941. The changes noted were those caused by the passage of time, dredging and filling along the shoreline. There were no major differences.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Nautical Chart No. 587, scale 1:40,000, 9th edition, bearing a print date 14 August 1943 and revised to 20 April 1957. ✓

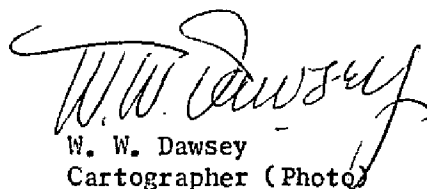
The same minor differences noted under Item 46 exist. ✓

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY ✓


None.

ITEMS TO BE CARRIED FORWARD ✓

None.

  
W. W. Dawsey  
Cartographer (Photo)

APPROVED AND FORWARDED ✓

  
Arthur L. Wardwell  
Chief of Party

T-10542.Geographic Names.Allen CreekBayviewClearwaterCooper BayouCooper PointCourtney Campbell ParkwayFlorida (title)Gulf Coast (title)Gulf to Bay BoulevardOld Tampa BaySafety Harbor (town)Tampa Bay (title)U.S. 19State 60

Names approved 11-3-58.

L. Heck

49. NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations:

- 4201 - Mangrove bush on small point in front of pond. Stake with flag beside bush. 0
- 4202 - Westerly and smallest mangrove bush. Stake with flag beside bush.
- 4203 - Northerly end of half-moon shaped grass spot. Stake with flag driven in point.
- 4204 - Westerly and smallest of two detached mangrove bushes. Stake with flag driven beside bush.
- 4205 - Detached mangrove bush. Stake with flag beside bush.
- 4206 - Concrete block at edge grass spot. Old anchor block for guy cable to radio tower.
- 4207 - Center of end of pier.
- 4208 - Center of end of westerly of two piers.
- 4209 - Southwesterly of two detached mangrove bushes. Stake with flag beside bush.
- 4210 - Center of isolated grass spot offshore. Stake with flag driven in point.
- 4211 - Palmetto bush at northerly side of indentation in shoreline. Stake with flag beside bush.
- 4212 - Center of small mangrove tip on south side ditch and surrounded by grass. Stake with flag driven in point.
- 4213 - Point of detached grass spot. Stake with flag driven in point.
- 4214 - Center of small detached mangrove bush. Stake with flag beside bush.
- 4215 - Tip of mangrove at small indentation in apparent shoreline. Stake with flag driven at tip.

There are 4 Topographic Stations.

FAR (1941) 1957    TIDAL BM 5 (1937) 1957    TIDAL BM 1 (1926) 1957

HAP (1941) 1957

50.

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 10542

1. Projection and grids JG 2. Title JG 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 JG 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 XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation JG 17. Landmarks JG 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 XX 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 XX 37. Descriptive Report JG 38. Field inspection photographs JG 39. Forms JG

40. Jesse A. Giles  
Reviewer  
Jesse A. Giles

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.

Complier

Supervisor

43. Remarks:

# TIDE COMPUTATION

PROJECT NO. Ph. 171 T-10542

Time and date of exposure 09 15 16 Apr. 1957

Reference station TAMPA BAY, FLORIDA

TAMPA BAY, FLORIDA

Mean range 1.9

Date of field inspection Nov. 1957

Subordinate station SAFETY HARBOR, OLD TAMPA BAY

Ratio of ranges Spring 2.5

Time		Height feet	Height x Ratio of ranges	Time	
h.	m.			h.	m.
High tide	16 06	1.8 + 0.5	2.3	High tide at Ref. Sta.	14 21
Low tide	9 51	0.4 0.0	0.4	Time difference	+ 1 45
Duration of rise or fall	6 15		1.9	Corrected time at Subordinate station	16 06
				Low tide at Ref. Sta.	8 06
				Time difference	+ 1 45
				Corrected time at Subordinate station	9 51

Time H. T. or L. T.		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.
Required time	Interval						
Time H. T. or L. T.		9 51		0.4		0.4	56083
Required time		9 15		0.0			
Interval		0 36		0.4			
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 WJH Checked by J. M. Miles

REVIEW REPORT  
SHORELINE MANUSCRIPTS T-10542 and T-10543  
August 1959

62. Comparison with Registered Topographic Surveys

T-1409b	1:20,000	1875
T-4184	1:20,000	1926
T-4185	1:20,000	1926
T-5822	1:10,000	1939
T-5825	1:10,000	1939
T-8380	1:20,000	1942

Minor differences in shoreline and culture exist between the 1942 survey and subject surveys. The surveys of older dates indicate proportionate larger differences. T-10542 and T-10543 are to supersede above-listed registered surveys of identical areas and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

SAFETY HARBOR, FLA., 1:24,000, 1956, U. S. Geological Survey. This topographic quadrangle compares favorably with subject surveys.

64. Comparison with Contemporary Hydrographic Surveys

H-7878	1:10,000	1950
56931	1:20,000	1958 (Blueprint)

There are only a few minor differences in shoreline - not in excess of a seven years time expectation in reference to H-7878. Print 56931 is in good agreement with the southern portions of subject surveys.

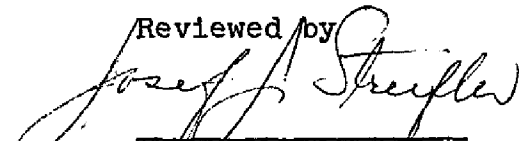
65. Comparison with Nautical Charts

587	1:40,000	Edition of 1958	Revised to 7/6/59
1257	1:80,000	Edition of 1943	Revised to 3/2/59

There is good agreement between these two nautical charts and subject surveys.

66. Adequacy of Results and Future Surveys

Subject surveys have been compiled according to project instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by  
  
Josef J. Streifler



Approved

L. C. Lande  
Chief, Review Section  
Photogrammetry Division

Max Skelton  
Chief, Nautical Chart Branch  
Chart Division

P. W. Swanson Chief, Photogrammetry Division  
18 May 60

J. Bowie Chief, Coastal Surveys Division