10553

Diag. Cht. No. 1257-3.

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Ph-171 Office No. T-10553

LOCALITY

State____

FLORIDA

General locality ...

HILLSBORO BAY

Locality

ARCHIE CREEK

MC KAY BAY

19. 58

CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo, Office

LIBRARY & ARCHIVES

MAY 25 1960

DATE ..

COMM-DC 61300

DESCRIPTIVE REPORT - DATA RECORD

T = 10553

Project No. (II): PH-171 /

Quadrangle Name (IV):

Field Office (II): Tampa, Fla.

. 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) 707

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.

=Mearesea devaluexcept 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): BLACK, 1957

Lat.: 27° 54° 26°,260 (808.3 m.) Long.: 82° 25° 42°,249 (1155.3 m.)

Adiastec

Unadjusted

Plane Coordinates (IV):

State:

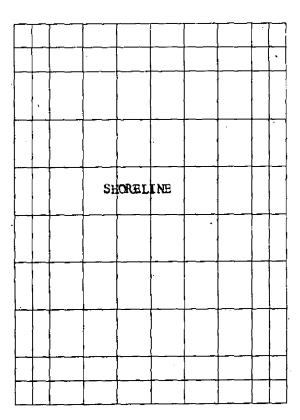
Zone:

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.



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

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): July 1957. Spoil areas along east

Air Photo Compilation

Side of ship channel tocated by planetable May, 1958

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

4-16-57 Date:

Projection and Grids checked by (IV): H. D. W.

4-13-57 Date:

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

6-10-57 Date:

Control checked by (III): M. M. Slavney

Date:

6-10-57

Radial Plot and analysis Register Santananiasta (III):

M. M. Slavney

Date:

6-30-57

Planimetry

Contours

Date:

Stereoscopic Instrument compilation (III):

Inapplicable "

Date:

Manuscript delineated by (III):

R. Dossett

Oct 1957 Date:

Photogrammetric Office Review by (III): I. I. Saperstein

Jan 1958 Date:

Elevations on Manuscript

checked by (M) (III):

none

Date:

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE

Camera (kind or source) (III):

9-lens and WILD Aviogon

		PHOTOGRAPHS (III)			
Number	Date	Time	Scale	Stage of Tide	
55886 [/]	4=7=57	0937	1:10,000	+ 0.2 ~	L
55887	•	0937	•	•	-
55888		0938	• v	H	
57 L 1559	4-16-57	1003	₩.	+ 0.7	
57 L 1560	**	1003	10	69 f	2
57 L 1561	•	1004	₩.	**	

Predicted Tide (III)

Reference Station:

TAMPA BAY (St. Petersburg)

Subordinate Station:

TAMPA, HILLSBORO BAY

Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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

Shoreline (More than 200 meters to opposite shore) (III): 8.5

Shoretime (Cess that 200 maters to opposite shore) (iii):

Control to vehing * Miles (In- Inapplicable

Number of Triangulation Stations searched for (II): *5

Number of BMs searched for (II): 0

Number of Recoverable Photo Stations established (III): 0 -

Number of Temporary Photo Hydro Stations established (III): 0

Ratio of Mean | Spring | Range Ranges Range 1,4 1.6

Date:

Date:

Identified:

14

0

Identified:

Remarks:

*Five additional triangulation stations were established and identified

Recovered: 1

Recovered: 0

COMM- DC- 57842

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 pertion 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.

Gronar 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-10553

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558.

31. DELINEATION

The graphic method was used.

The photographs were of reasonably good scale and sufficiently clear to insure satisfactory interpretation of details.

Field imspection was adequate.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage has been shown as it appears on the photographs.

35. SHORBLINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

Spoil areas along east side of ship ichannel ocated by plantable IMay, 1958

All alongshore structures have been delineated according to field inspector's notes.

The low-water line has been delineated as indicated by field inspection notes.

The poles of the overhead power cable crossing McKay Bay have been shown in their true positions.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Form 567 for all landmarks and aids, throughout the entire project, is being submitted under separate cover. $IMAY1958\omega_{ca}R_{c}$

38. CONTROL FOR FUTURE SURVEYS

Photo-Hydro stations were located by planetable. There are no descriptions of them as the signals were built at the time of the survey. Refer to planetable sheets TFU-A and TFU-B. No topographic stations were established.

39. JUNCTIONS

A satisfactory junction has been secured with T-10547 on the north, T-10552 on the west, T-10557 on the south and USGS Tampa, Fla., 1:24,000 on the east.

40. HORIZONTAL AND VERTICAL ACCURACY >

No statement required.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with C&GS planimetric map No. T-5837, scale 1:10,000, compiled from photographs taken Nov. 1938 and Dec. 1939, and supplemented by other surveys to Sept. 1941. The most outstanding change noted was at Black Point where considerable filling and new building structures are in process of construction. Generally the shoreline compared favorably.

Comparison was also made with USGS map, Tampa (No. 890709-Sheet 2), scale 1:10,000, compiled instrumentally in 1955. The same comparison as above holds true. The junction with it was favorable.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 587, 9th edition, published Aug. 14, 1943, scale 1:40,000, revised to 7 Dec. 1957. The same comparison as that of item 46 is applicable.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rudolph Dossett
Carto Photo Aid

APPROVED & FORWARDED

Arthur L. Wardwell Chief of Party T-10553.

Geographic Names.

Archie Creek

Atlantic Coast Line

(Tampa Southern not listed in Railway Guide)

Black Point

Delaney Creek

Florida

(title)

Gulf Coast

(title)

Hillsborough Bay (1958 BGN decision for long form of name)

McKay Bay

Port Sutton

Tampa Bay

(title)

Tampa Electric Power Plant

(Gannon Station)

Twentysecond Street Causeway, or 22nd Street Causeway

U.S. 41

Branch U.S. 41

(over 22nd Street Causeway)

Names approved 11-3-58 L. Heck

49. NOTES FOR THE HYDROGRAPHER

Photo-Hydro stations were located by planetable. There are no descriptions of them as the signals were built at the time of the survey. Refer to planetable sheets TFU-A and TFU-B.

No topographic stations were established.

FORM **182** (6-12-56)

50.

PHOTOGRAMMETRIC OFFICE REVIEW

Ţ. 10553

1. Projection and grids IIS 2. Title IIS 3. Manuscript numbers IIS 4. Manuscript size IIS
Unclassifie
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) 115 7. Photo hydro stations 115 8. Bench marks XX
9. Plotting of sextent fixes XX 10. Photogrammetric plot report 11S 11. Detail points 11S
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline IIS 13. Low-water line IIS 14. Rocks, shoels, etc. IIS 15. Bridges IIS 16. Aids
to navigation IIS 17. Landmarks IIS 18. Other alongshore physical features IIS 19. Other along-
shore cultural features IIS
PHYSICAL FEATURES
20. Water features IIS 21. Natural ground cover IIS 22. Planetable contours XX 23. Stereoscopic
Instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical
features IIS
Teatures
CULTURAL FEATURES
27. Roads 11S 28. Buildings 11S 29. Railroads 11S 30. Other cultural features 11S
BOUNDARIES
31. Boundary lines XX 32. Public land lines XX
31. Bodikary intes 32. Public land lines
MICCELLANGOUS
MISCELLANEOUS 33. Geographic names IIS 34. Junctions IIS 35. Legibility of the manuscript IIS 36. Discrepancy
vv m TTC TC
overlay A 37. Descriptive Report 38. Field inspection photographs 113 39. Forms 39.
40. June 1 Sanor Reviewer Supervisor, Review Section or Unit
I.I.Saperstein Jesse A. Giles
41. Remarks (see attached sheet)
EIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
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

TIDE COM TATION



Mean range / 8

Ratio of ranges

PROJECT NO. Ph. 171 T - 10 593

Time and date of exposure 0937_7475 1457 Reference station _ Topy par _ 132 4 _ 657_Peters buying_

Date of field inspection (4.14---19.27

Subordinate station Tampa - + Hills 5010 1304

Ė Time 0 Duration of rise or fall High tide Low tide

	Height	Height x Ratio
	feet	of ranges
High tide	4-0+_9-1	6.7
Low tide	-0.8-	-0.8-
Range of tide		27

		2		
	ė	E.		
High tide at Ref. Sta.	81	28		ر تر ا
Time difference	0 +	15		F
Corrected time at Subordinate station	8/	4		ပြတ်
			•	I

_		Ime	
		<u>ب</u>	Ė
	Low tide at Ref. Sta.	4	1
	Time difference	1.01	اگ
	Corrected time at Subordinate station	d	02

	ъ. m.		feet		feet	Photo. No.
Time HT. or L. T. Required time	2 02 7 9 37 7	Ht. 'HT: or L, T. Tabular correction Stage of tide above MLW	2.0.7	Feature bares Stage of tide above MLW Feature above MLW		55886
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht, H, T, or L, T, Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

Checked by ____ WALL Computed by

13

COMM. DC- 57848

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

PROJECT NO. Ph. 171 T-/ & 5 50

Mean range 122 Time and date of exposure/203 16 Apr. 1957 Reference station _ Tawapa Bay (St Pateus barg)

Subordinate station Idunpa, 141-168 hara 1804 Date of field inspection of Lee Ly 18-27

Ratio of ranges

e m Ę Time 4 Duration of rise High tide Low tide or fall

	Tel Bist	Height x Ratio		Time		_	Time
•	feet /	of ranges		h. m.		Ė	Ė
High tide 1.8 →	0.4	2.2	High tide at Ref. Sta.	14 211	Low tide at Ref. Sta.	20	000
Low tide	4	4.0	Time difference	+0/5/0	Time difference	0	10
Range of tide	·	8	Corrected time at Subordinate station	14361	Corrected time at Subordinate station	8	2/2

Tine Time	Low tide at Ref. Sta.	4	(4.36 Corrected time at 8.2.	feet Photo. No.	NIW /	MLW	MLW	MLW
= =	High tide at Ref. Sta. /4	Time difference + a	Corrected time at / 4 Subordinate station	feet	Co. 3 Stage of tide above MLW Feature above MLW	Feature bares Stage of tide above MLW Feature above MLW	Feature bares Stage of tide above MLW Feature above MLW	Feature bares Stage of tide above MLW Feature above MLW
Height x Ratio	2.2	4.0	8.7	-	MLW	f. Joon Bove MLW	r. bove MLW	don bove MLW
Height	1.8 + 0 . +	0.4-			Ht. H. T. or L. T Tabular correction Stage of tide above	Ht. H. T. or L. T Tabular correction Stage of tide above	Ht. H. T. or L. T. Tabular correction . Stage of tide above	Ht. H. T. or L. T Tabular correction . Stage of tide above
	High tide	ow tide	Range of tide	Ä.	82/2			

Interval

Required time

Time H.T. or L. T. ...

Required time

Time H. T. or L. T.

Interval

Required time

Interval

Time H. T. or L. T. ...

Required time

Time H. T. or L. T.

Interval

Checked by __ WAL

COMM. DC. 57848

Computed by A Was self

Feature above MLW..... Stage of tide above MLW......

Feature bares Stage of tide above MLW Feature above MLW

Tabular correction

Required time

Time H. T. or L. T.

Interval

Ht. H. T. or L. T.

Stage of tide above MLW

Tabular correction Stage of tide above MLW

Required time

Time H. T. or L. T. ...

Interval

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

September 1959

62. Comparison with Registered Topographic Surveys

T-1411a		1876
T-1411b	3:20,000	1875
T-4201		1926
T-4202	ं , क्लाक्षणा क्⊈ार्गर	1926
T-5835 T-5837	1:10,000	1939 : 1939 :
T-5838 T-8382	1:10,000 1:20,000	1939 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

Survey. There are considerable disagreements in the eastern portion of Hillsborough Pay. 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-8380 1:10.000 195	н-8379 н-8380	1:10,000	1957 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 effected charts.

66. Adequacy of Results and Future Surveys

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

Reviewed

Approved

Chief, Review Section Photogrammetry Division Chief, Nautical Chart Branch Chart Division

Photogrammetry Division Unier, Coastal Surveys Division

17 May les