

10562

Original

Diag. Cht. No. 1257-3.

Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
Type of Survey <u>Shoreline</u>
Field No. <u>Ph-171</u> Office No. <u>T-10562</u>
LOCALITY
State <u>Florida</u>
General locality <u>Tampa Bay</u>
Locality <u>Little Manatee River</u>
<u>1958</u>
CHIEF OF PARTY
<u>A. L. Wardwell, Tampa Photo Office</u>
LIBRARY & ARCHIVES
DATE <u>MAY 25 1960</u>

COMM-DC 61300

10562

DESCRIPTIVE REPORT - DATA RECORD

T - 10562

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

Field Office (II): **Tampa, Florida**

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

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 1958**

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

12 Feb 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N.A. 1927**

Vertical Datum (III): **MHW**

~~NOT RELEVANT~~ 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): **TH 9 (USE) 1957**

Lat.: **27°44'39.316" (1210.2m)**

Long.: **82°28'48.023" (1315.3m)**

~~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

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

Date: **October, 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, Oct. 1957**

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

Date: **12 June 1957**

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

Date: **12 June 1957**

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

Date: **5 August 1957**

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

Date: **5 August 1957**

Radial Plot of ~~SECTION~~

Date: **7 August 1957**

~~SECTION~~ by (III): **R. R. Wagner**
R. J. Pate

Planimetry

Date:

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

Contours

Date:

Manuscript delineated by (III): **R. Dossett**

Date: **Sept. 1957**

Photogrammetric Office Review by (III): **W. H. Shearouse**

Date: **December 1957**

Elevations on Manuscript

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS 9-lens and Wild Aviogon

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55905	7 Apr. 1957	09:50	1:10,000	+ 0.4
55906	"	09:51	"	"
55907	"	09:51	"	"
55911	"	09:52	"	"
55912	"	09:54	"	"
55913	"	09:58	"	"
57-L-1545	16 Apr. 1957	09:53	"	+0.7
1546	"	09:54	"	"
1547	"	09:54	"	"
USGS 116	10 Dec. 1954			
USGS 118	"			
USGS 120	"			

Predicted Tide (III)

Reference Station: Tampa Bay

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):

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

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 11

Shoreline (More than 200 meters to opposite shore) (III): 23

~~STATION LOCATIONS AND COORDINATES:~~

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 7*

Recovered: 4

Identified: 4

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 5

Number of Temporary Photo Hydro Stations established (III): 23

Remarks: 1 triangulation station established and identified.

* Stations RUSKIN, 1934, DC 118 (FGS) 1939, DC115 (FGS) 1939, and SUN CITY POWER CO. SILVER WATER TANK, 1934 are outside the project limits. They were recovered and identified for use in the radial plot.

5

SUMMARY
TO ACCOMPANY SHORELINE MANUSCRIPTS
T-10560, T-10561, T-10562

These three surveys are part of shoreline project PH-171 (27380), which covers the shoreline and adjacent land area of Tampa Bay in Florida. Subject surveys specifically cover the southern tip of Pinellas Peninsula and the east shore of the Bay in the vicinity of Little Manatee River near the town of Ruskin.

Graphically compiled from September 1957 to February 1958 at the Tampa District Office, they are based on nine-lens photography of April 1957 and field inspection of August-September 1957. Advance shoreline information was made available in support of hydrographic surveys.

T-10560 to and incl. T-10562 were scribed at the Tampa District Office and are adequate 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.

November 1959

FIELD INSPECTION REPORT
SUBMITTED WITH T-10558

COMPILATION REPORT
T-10562

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10558

31. DELINEATION

The graphic method was used.

The photographs were of reasonably good scale with the exception of 55913 which showed considerable tilt. Field inspection was adequate.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

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

Contours inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All buildings and other alongshore details indicated by the field inspector have been delineated accordingly. Apparent and fast shoreline were indicated by the field inspector and have been so drafted. Shallow and shoal areas were delineated as indicated by the field inspector.

No low-water line was shown,

36. OFFSHORE DETAILS

All offshore details noted by field inspection have been delineated.

37. LANDMARKS AND AIDS

In addition to charted Daybeacons Nos. 1, 2, and 3, twenty-one (21) private daybeacons - pointers on piles - were located by the field inspector. They are being submitted on Form 567. There were no landmarks. *2: May 1958 u.a.a.*

38. CONTROL FOR FUTURE SURVEYS

Five (5) topographic stations are being submitted on Form 524. Twenty-three (23) photo-hydro stations were established. These stations with descriptions for the latter have been listed under Item No. 49. In addition three (3) hydro stations were located by planetable and are shown on planetable sheet TFU -F -57.

39. JUNCTIONS

A satisfactory junction has been secured with T-10555 on the north, T-10561 on the west, and U.S.G.S. Survey, RUSKIN compilation 780009 (1) on the south and east. Details of the junction with the RUSKIN compilation are discussed under Items 41 and 46.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. U.S.G.S. RUSKIN COMPILATION 780009 (2).

In order to make junction with U.S.G.S. RUSKIN compilation of the Little Manatee River to the south, it was necessary to make shoreline changes at the point of junction ($27^{\circ}41'15''$). A slight shift of the shoreline southwesterly rectified the small discrepancy found. Our nine-lens photographic coverage was sufficient to control the area for approximately one minute southwardly. Generally, the shoreline was correct in azimuth. There was discrepancy however, relative to width of tributaries and indentations of shoreline. These were corrected in red ink by holding the delineated detail projected from 1954 U.S.G.S. Single-lens photographs. It was necessary, due to the poor scale of the photographs, to use the projector. It is believed that these corrections are sufficient to enable the hydrographer to survey to the limits of the charted area on Chart No. 1257.

Also, U.S.G.S. compilation 780,009, sheet 1, was corrected (in red ink) to agree with 9-lens photography taken in 1957, for the RUSKIN INLET area that falls east of project limits at Latitude $27^{\circ}43.1'$. This was necessary to cover limits of hydrography (eastward to U.S. Highway 41 bridge).

944

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.C. & G.S. Planimetric Map T-5840, compiled from aerial photographs dated Dec. 8, 1938 and Nov. 12, 1942 and by other surveys to Oct. 1941.

Considerable new shoreline construction of piers, wharves, slips and fills were noted, particularly in the RUSKIN INLET; also along the shoreline of the west river bank south of U.S. 41 Highway bridge. New filling and dredging are in process in the vicinity of Shell Point. Except for Shell Point, at the mouth of Little Manatee River, little difference was noted along the shoreline of Tampa Bay. Comparison with the 1:10,000 scale, 1955 U.S.G.S. RUSKIN compilation 780009 (1) found details in reasonably good agreement. Shoreline changes are evident in the RUSKIN INLET area due to dredging and filling. However, by utilizing the more recent information on this manuscript and taking inland detail from the USGS compilation, it is believed that the desired data for the nautical chart may readily be obtained.

47. COMPARISON WITH NAUTICAL CHARTS

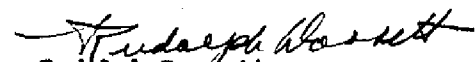
Comparison was made with C&GS Nautical Charts Nos. 586, scale 1:40,000, 5th Ed. Revised to 12/9/57; and No. 1257, scale 1:80,000, 6th Ed. Revised to 8/26/57. The same differences noted under Item 46 apply here.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

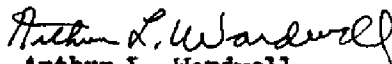
None

ITEMS TO BE CARRIED FORWARD

None


Rudolph Dossett
Cartographic Survey Aid

Approved and Forwarded:


Arthur L. Wardwell
Chief of Party

T-10562.Geographic Names.Atlantic Coast Line

(other name not listed in Railway Guide)

Banana CreekBird KeyCabbage CreekCrab CreekDevils ElbowDouble Bayou PassFlorida

(title)

Goat IslandGulf Coast

(title)

Hunter PassLittle Cockroach BayLittle Manatee RiverMangrove PointMill BayouPelican CoveRuskinRuskin InletSand IslandSand PointShell PointSnake IslandTampa BayTropical IslandWhiskey KeyU.S. 41

Names approved 11-5-58

W. Heck

49. NOTES FOR THE HYDROGRAPHER

Five (5) Topographic Stations were established:

HAG (1941) 1957

JET (1941) 1957

LEG (1941) 1957

SAND 1957

PALM 1957

Twenty-three (23) photo-hydro stations were established:

- ✓ 62-01 - Center of round mangrove tree (15 feet high) at HWL, on sand beach. White cloth strip - stake - cut limbs. 55912
- ✓ 62-02 - Lone palm at HWL on sand beach. Palm has "Posted" sign and broken sign board beneath. 55912
- 62-03 - Center of southerly of four mangrove clumps. Stake - white cloth strip - blaze on mangrove. 55912
- 62-04 - White gable lone house - (Permalite with white crushed marble roof). 55912
- 62-05 - End small pier - east side of Island. 55912.
- 62-06 - North gable. Orange concrete block house (center of 5 houses) 55912
- 62-07 - Northeast corner small, lone pink house. 55912
- 62-08 - West end brush line (mangrove) on Shell Point. 55906
- 62-09 - Southeast corner of westerly of two piers. 55906
- 62-10 - Southeast corner T pier. 55906
- 62-11 - Tip mangrove point. 55906
- 62-12 - Northwest gable of southeasterly building of 3 large low buildings. 55906
- 62-13 - North tip overhanging mangrove limb on north side rounding point. White - cloth strip - cut limbs and blazed mangrove.
- 62-14 - North tip overhanging mangrove limb at western entrance to small bayou just west of dead mangrove. Cut limbs - white cloth strip. 55906
- ✓ 62-15 - Center mangrove clump approximately 50 feet off tree line at mouth of river. Cut limbs - stake - white cloth strip. 55912

- / 62-16 - Tip of overhanging mangrove limb on east side small island at mouth of river. Cut limbs - white cloth strip. 55912
- / 62-17 - North tip overhanging mangrove limb on small island north of mouth of river. Cut limbs - white cloth strip. 55912
- / 62-18 - Tip overhanging mangrove limb approximately 1,000 feet northeast of dredged slip. Cut limbs - white cloth strip - just southwest of small cove. 55912
- / 62-19 - Tip small mangrove bush (4 feet high) approximately 700 feet south of sand spit. Cut limbs - white cloth. 55912
- / 62-20 - North tip overhanging mangrove limb at shore end and north side sand spit. White cloth strip - cut limbs. 55912.
- 62-21 - Center overhanging mangrove tree (4 feet above water) extending northwest off point at mouth of inlet. White cloth - cut limbs. 55913
- / 62-22 - North tip mangrove clump on south side entrance of inlet. White cloth - cut limbs. 55913
- 62-23 - Southwest (offshore) tip of overhanging mangrove (on water line) 1100 feet southeast TH9. White cloth - cut limbs. 55913

In addition, three (3) hydro stations were located by planetable and appear on Planetable Sheet TPU-R-57.

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 10562

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

1a. Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) WHS 7. Photo hydro stations WHS 8. Bench marks XX 9. Plotting of sextant fixes WHS 10. Photogrammetric plot report MMS 11. Detail points WHS

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads WHS 28. Buildings WHS 29. Railroads WHS 30. Other cultural features WHS

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report WHS 38. Field inspection photographs WHS 39. Forms WHS 40. William H. Shearouse William A. Rasure

William H. Shearouse

Supervisor, Review Section or Unit Wm 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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Photo 57-L-1546

PROJECT NO. Ph-171 T-10562

Time and date of exposure 0954 4-16-57

Reference station

TAMPA BAY

Mean range

1.8

Date of field inspection

Subordinate station

TAMPA, HILLSBORO BAY

Ratio of ranges

H.W. = +0.4
L.W. = 0.0

	Time		Height feet	Height x Ratio of ranges
	h.	m.		
High tide	14	21	1.8 +0.4	2.2
Low tide	8	06	0.4	0.4
Duration of rise or fall	6	15		1.8

	Time	
	h.	m.
High tide at Ref. Sta.	14	21
Time difference	+	15
Corrected time at Subordinate station	14	36

	Time	
	h.	m.
Low tide at Ref. Sta.	08	06
Time difference	+	15
Corrected time at Subordinate station	8	21

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	08	21	Ht. H. T. or L. T.	0.4	Feature bares		
Required time	0954		Tabular correction	+ 0.3	Stage of tide above MLW		
Interval	1	33	Stage of tide above MLW	0.7	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		

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. 171 T-10562

Time and date of exposure 0951 7 Apr 1957

Reference station Tampa Bay

Subordinate station Tampa, Hillsboro Bay

Mean range 1.8

Date of field inspection August 1957

Subordinate station Tampa, Hillsboro Bay

Ratio of ranges

	Time	
	h.	m.
High tide	18	43
Low tide	2	02
Duration of rise or fall	16	41

	Height	Height x Ratio of ranges
	feet	
High tide	1.5	1.9
Low tide	-0.8	-0.8
Range of tide		2.7

	Time	
	h.	m.
High tide at Ref. Sta.	18	28
Time difference	+0	15
Corrected time at Subordinate station	18	43

	Time	
	h.	m.
Low tide at Ref. Sta.	1	47
Time difference	+0	15
Corrected time at Subordinate station	2	02

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	2	02	Ht. H. T. or L. T.	-0.8	Feature bares		
Required time	9	51	Tabular correction	-1.2	Stage of tide above MLW		
Interval	7	49	Stage of tide above MLW	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		

COMM-DC-57848

Computed by R. Russell
Checked by 115

14

REVIEW REPORT OF
SHORELINE MANUSCRIPTS T-10560, T-10561, T-10562
November 1959

62. Comparison with Registered Topographic Surveys

T-1301a	1:20,000	1873
T-1316a	1:20,000	1873
T-1408b	1:20,000	1875
T-1411a	1:20,000	1876
T-4203	1:10,000	1926
T-4199	1:20,000	1926
T-4200	1:20,000	1926
T-4201	1:10,000 and	1926
	1:20,000	
T-5832	1:10,000	1926
T-5840	1:10,000	1939
T-5841	1:10,000	1939
T-8390	1:10,000	1939
T-8391	1:20,000	1942
T-8392	1:20,000	1942
	1:20,000	1942

Extensive dredging and filling operations have changed subject area considerably since the last topographic survey of 1942. These three 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

PASS-A-GRIFFLE BEACH, FLA., 1:24,000, 1956, U.S. Geological Survey
COCKROACH BAY, FLA., 1:24,000, 1956, U.S. Geological Survey
RUSKIN, FLA., 1:24,000, 1956, U.S. Geological Survey

There is evidence of additional changes throughout since the date of 1956, although those changes are of relative minor nature.

64. Comparison with Contemporary Hydrographic Surveys

H-7970, 1:10,000, 1952
Blueprint 57519, 1:10,000, 1958
Blueprint 57249, 1:10,000, 1958
Blueprint 57517, 1:20,000, 1958
Field Examination Sheet 3, 1:10,000, 1954

15

Field examination sheet No. 3 of 1954 is a supplement of H-7970. The Sunshine Skyway was under construction during 1952 and F. E. No. 3 of 1954 indicates the corrected shoreline of the causeways. Advance shoreline information of subject surveys was furnished for the listed blue-prints and there is good agreement for all common detailing.

65. Comparison with Nautical Charts

586, 1:40,000, Revised to 6/15/59
1257, 1:80,000, Revised to 3/2/59

With only two exceptions there is good agreement between these surveys. The two exceptions are not critical and represent recent changes. They occur at Shell Point at the entrance of Little Manatee River and less than a mile northwest of this point, south of the mouth of Cabbage Creek.

66. Adequacy of Results and Future Surveys

T-10560, 10561, and 10562 have been compiled in accordance with instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by

Josef J. Streifler
Josef J. Streifler

Approved

L. C. Lande
Chief, Review Section
Photogrammetry Division

May B. Pettis
Chief, Nautical Chart Branch
Chart Division

L. W. Curran
Chief, Photogrammetry
Division

J. Bowie
Chief, Coastal Surveys

18 May 60