

11087

ORIGINAL

Diag. Cht. No. 1256.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINEField No. Ph-100(52) Office No. T-11087

LOCALITY

State FLORIDAGeneral locality WEST COASTLocality CASEY KEY TO POINT O'ROCKS19

CHIEF OF PARTY

Ira R. Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

JUL 24 1900

DATE

COMM-DC 61300

11087

DATA RECORD

T - 11087

Project No. (II): Ph-100

Quadrangle Name (IV):

Field Office (II): Sarasota, Florida

Chief of Party: Ira R. Rubottom

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: Ira R. Rubottom

Instructions dated (II) (III): 1 December 1952

Copy filed in Division of

Supplement #1, dated 5 May 1953

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):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 5/11/58

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): Rocks 2,1935

Lat.: $27^{\circ}14'30''$ 696 (944.8m.)

Long.: $82^{\circ}31'59''$ 450 (1635.6m.)

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.

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. H. Shearouse

Date: June 1953

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II):

Date:

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

Air Photo Compilation
June 1954 3

Projection and Grids ruled by (IV): Jack Allen (W.O.)

Date: 17 Dec. 1952

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

Date: 17 Dec. 1952

Control plotted by (III): R. E. Smith

Date: 23 June 1953

Control checked by (III): R. J. Pate

Date: 24 June 1953

Radial Plot ~~XXXXXXXXXX~~

Date: 2 Aug. 1954

~~XXXXXXXXXX~~ by (III): M. M. Slavney

Planimetry
Stereoscopic Instrument compilation (III): Inapplicable
Contours

Date:

Date:

Manuscript delineated by (III): R. A. Reece

Date: 15 Sept. 1954

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

Date: 29 Sept. 1954

Elevations on Manuscript
checked by (II) (III): Inapplicable

Date:

Camera (kind or source) (III): USC&GS Nine-lens 8-1/4" focal length
Fairchild Cartographic Camera "C" 6" Metrogon lens

Number	Date	Time	Scale	Stage of Tide
52-0-350	11 Feb. 1952	15:16	1:10,000	0.4
52-0-351	"	15:16	"	"
52-0-352	"	15:16	"	"
34885-34887, incl.	"	1449 - 1450	"	0.5
42796-42798, incl.	1 Dec. 1953	1216 - 1218	"	0.8

Tide (III)

From predicted tides

Reference Station: TAMPA BAY, FLORIDA
Subordinate Station: SARASOTA POINT, FLORIDA
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	1.5	2.0
0.9	1.3	1.7

Washington Office Review by (IV):

Lena T. Stevenson

Date: 30 Nov. 1952

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 2

Shoreline (More than 200 meters to opposite shore) (III): 14

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

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 11

Recovered: 7

Identified: 5

Number of BMs searched for (II): None

Recovered: -

Identified: -

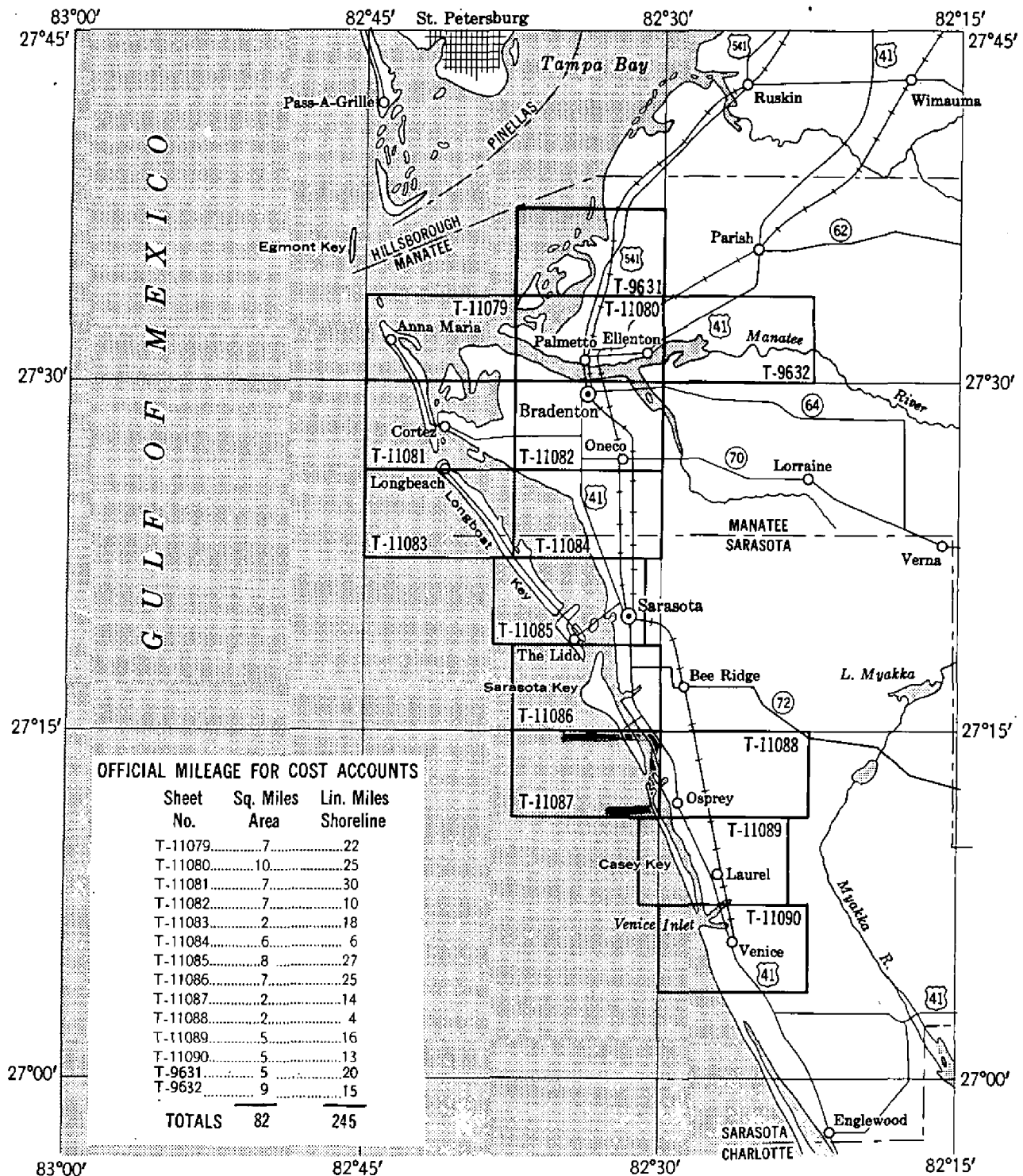
Number of Recoverable Photo Stations established (III): 1 recovered

Number of Temporary Photo Hydro Stations established (III): 66

Remarks:

SHORELINE MAPPING PROJECT ~~PH-100~~ 27120

FLORIDA-GULF COAST, Manatee River to Venice Inlet



Compiled at scale of 1:10,000 from nine-lens photographs taken February 1952
(Refer to Air-Photo Index 129-A)

Summary to Accompany
T-11087

Instructions for project Ph-100 were issued December 1, 1952. The purpose was to permit shoreline and hydrographic control for a basic hydrographic survey to be made by the Ship SOSBEE. The combined surveys would furnish data for a new 1:40,000 chart for Sarasota Bay.

Both field inspection and compilation of the manuscripts were assigned to the personnel of the Tampa Photogrammetric Office.

On December 18, 1952 instructions were issued for CS-353, West Coast of Florida, Tampa Bay to Caloosahatchie River, the Ship SOSBEE to survey the shoreward portion of the area and to assist the Photogrammetric Office in field work as necessary to locate additional control.

A cloth-backed lithographic print of each map at manuscript scale, together with the descriptive report, will be registered and permanently filed in the Bureau Archives.

THE FIELD INSPECTION REPORT FOR THE NORTHERN
PART WAS SUBMITTED WITH T-11081 AND THE SOUTHERN
PART WITH T-11089

COMPILATION REPORT T-11087

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-11081.

31. DELINEATION.

The graphic method was used.

Photographs were clear and of fair scale.

Shoreline inspection was good.

32. CONTROL.

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

Drainage has been shown according to photo interpretation or field inspector's notes.

35. SHORELINE AND ALONGSHORE DETAILS.

It is believed that the shoreline inspection was adequate, and the details alongshore have been delineated according to the field inspector's notes.

Numerous changes due to erosion and currents have taken place. See Item 7, Field Inspection Report. Some changes due to dredging and filling have been made. These changes have been noted on and delineated from new photographs 42796, 42797 and 42798. These changes have been made in red acetate ink.

36. OFFSHORE DETAILS.

No unusual problems were encountered in compiling details offshore from the high-water line.

37. LANDMARKS AND AIDS.

Form 567 for nonfloating aids north of latitude $27^{\circ} 12' 30''$ was submitted to the Washington Office 10 August 1953.

Daybeacons for Little Sarasota Bay, Numbers 51, 53, 54, 55, 57 and 59 have new positions due to new photography with better control. Reference Photogrammetric Plot Report. Their new positions were submitted separately 5 November 1954.

The hydrographic party is responsible for submitting landmarks.

38. CONTROL FOR FUTURE SURVEYS.

One (1) recoverable topographic station is being submitted with this report and is listed under Item 49.

Sixty-six (66) temporary photo-hydro stations were located. They are not listed under Item 49 as they were furnished directly to the hydrographic party.

39. JUNCTIONS.

Surveys No. T-11086 to the north, T-11088 to the east and T-11089 to the south make satisfactory junction.

There is no contemporaneous survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with C of E BIRDS KEYS (Topographic) quadrangle, scale 1:31,680, edition of 1944. The greatest change that has taken place is in the shoreline at MIDNIGHT PASS, Latitude $27^{\circ} 12.4'$, Longitude $82^{\circ} 30.6'$. This area is subject to continual

change. Shoreline changes in LITTLE SARASOTA BAY, due to dredging and filling operations, are considerable.

Comparison was also made with Planimetric Maps No. T-5851 and T-5852, scale 1:10,000, 1944 edition. The same differences as listed in the preceding paragraph were noted.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 1256, scale 1:80,000, published in March 1943 (3rd edition), corrected to 3 October 1952.

Maps listed in Item 46 are probably the source of most of the topography on this chart and the same differences exist between the chart and manuscript.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.



Richard A. Reece
Carto. Photo. Aid

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party

48. GEOGRAPHIC NAME LIST.

All names shown are Base Map names.

BIRD KEYS

CASEY KEY

FLORIDA

GULF OF MEXICO

LITTLE SARASOTA BAY

MIDNIGHT PASS

POINT O' ROCKS

SARASOTA KEY

VAMO

WHITE BEACH

49. NOTES FOR THE HYDROGRAPHER.

The following topographic station will be of use to the hydrographer:

PAP. (1943) 1953

Sixty-six (66) temporary photo-hydro stations are not listed because they were furnished directly to the hydrographic party.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11087

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

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) 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. JG 15. Bridges JG 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 XX 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.

Complier

Supervisor

43. Remarks:

TIDE COMPUTATION

PROJECT NO. Ph-100 T. 11087

Time and date of exposure 14:50 11 Feb 52 Reference station

14:50 11 Feb 52

Time and date of exposure 14:50

Mean range

13

Date of field inspection

Subordinate station

01/05/2017 16:07 114

Ratio of ranges

	Time		Height	Height x Ratio of ranges
	h.	m.	feet	
High tide	15	27	0.7	0.6
Low tide	20	19	0.0	0.0
Duration of rise or fall	4	52	Range of tide	0.6

	Time	
	h.	m.
High tide at Ref. Sta.	15	27
Time difference	-2	15
Corrected time at Subordinate station	13	12

	Time	
	h.	m.
Low tide at Ref. Sta.	20	19
Time difference	-2	15
Corrected time at Subordinate station	18	04

	h.	m.	
Time H. T. or L. T. Required time Interval	13	12 14 50 + 1 38	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW

feet		feet	Photo. No.
0.61 -0.1- 0.51	Feature bares Stage of tide above MLW Feature above MLW		34887
	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		
	Feature bares Stage of tide above MLW Feature above MLW		
	Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by W. H. H. H. H. Checked by W. H. H. H. H.

TIDE COMPUTATION

PROJECT NO. Ph-100 T-11087

Time and date of exposure 12.16.1 Dec 1953 Reference station Tampa Bay, Fla Mean range 1.3
 Date of field inspection ----- Subordinate station Sarasota Point, Fla Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges	Time		Photo. No.
	h.	m.			h.	m.	
High tide	11	41	1.0	0.9	High tide at Ref. Sta.	15	48
Low tide	15	48	0.8	0.7	Time difference	2	15
Duration of rise or fall	4	07		0.2	Corrected time at Subordinate station	13	33

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T.	13	33	0.7	Feature bares	42796
Required time	12	16	0.0	Stage of tide above MLW	
Interval	1	17	0.7	Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	

Computed by Ref Smith Checked by RA Reese M.2617-12

Review Report T-11087
Shoreline Map
30 November 1956

61. General

This is a revision survey which includes a newly delineated total shoreline, but only such interior features as will amend the 1943-4 surveys T-5851, T-5852.

62. Comparison with Registered Maps

T-5851 1:10,000 1943 Sarasota Key
T-5852 1:10,000 1944 Osprey

The shoreline on T-11087 supersedes and the interior detail supplements that of the older surveys for charting.

63. Comparison with Maps of Other Agencies

U.S.E. Bird Keys 1:25,000 ed. 1951

T-11087 supersedes the quadrangle for charting

64. Comparison with Contemporary Hydrographic Surveys

H-8089 1:10,000 1953

The shoreline was changed on T-11087 at $27^{\circ} 14\frac{1}{4}'$ $82^{\circ} 30\frac{1}{2}'$ to conform to the stage of development shown on photograph 42797 (1 Dec. 1953).

H-8054 1:10,000 1954

The shoreline at Midnight Pass is delineated as an approximate position. H-8054 made drastic changes, but because this is an unstable area no attempt was made to correct the shoreline on T-11087.

Islands east of the channel in the vicinity of Vamo have been re-delineated on T-11087 and some islets added.

65. Comparison with Nautical Charts

1256 1:80,000 March 1943 corr. Jan. 1955

The shoreline of T-11087 supersedes that of the chart and the interior detail supplements or amends that on the chart in their comparable area.

66. Accuracy

This map complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

Approved by:

L. C. Landy
Chief, Review & Drafting Sec.
Photogrammetry Div.

Wallace A. Bruder
for Chief, Nautical Chart Br.
Charts Division

for J. B. [Signature]
Chief, Photogrammetry Div.

[Signature]
Chief, Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO.

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.