11083

Diag. Cht. No. 1256.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-100(52) *Office No.* T-11083

LOCALITY

State Florida

General locality Sarasota Bay

Locality Sister Keys to Buttonwood Harbor

19~~4~~52-53

CHIEF OF PARTY

J.E.Waugh, Field Unit and Tampa Photo. Office

LIBRARY & ARCHIVES

DATE July 11, 1958

8-1870-1 (1)

11083

DATA RECORD

T - 11083

Project No. (II): Ph-100(52) Quadrangle Name (IV):

Field Office (II): Sarasota, Florida Chief of Party: J. E. Waugh

Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: J. E. Waugh

Instructions dated (III): 1 December 1952
Suppl. #1 5 May 1953

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): SEP 21 1955 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 4/8/58

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): TOM, 1878

Lat.: 27° 25' 07".723 (237.7 m.) Long.: 82° 39' 20".646 (567.1 m.) Adjusted

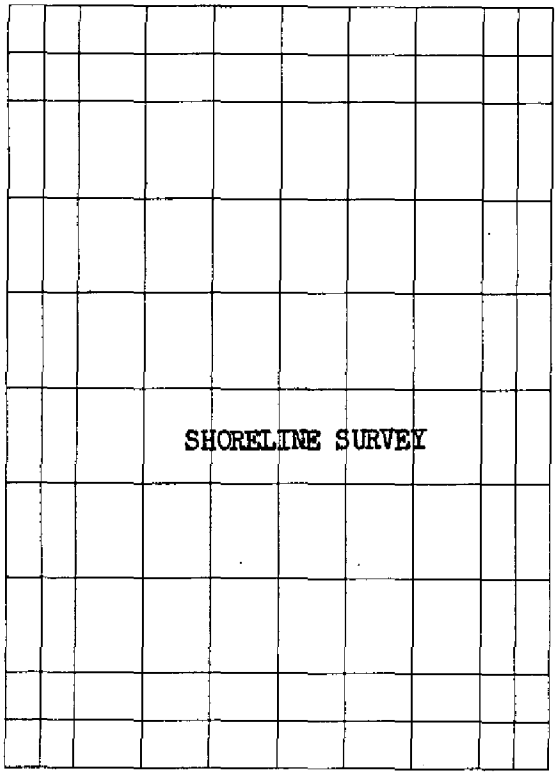
Plane Coordinates (IV): State: Zone:

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.

M-2618-12(4)



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

DATA RECORD

Field Inspection by (II): W. H. Shearouse Date: March 1953

Planetable contouring by (II): Inapplicable Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):
April 1953 - Air Photo Compilation
Supplemented by Photographs flown December 1954

Projection and Grids ruled by (IV): Jack Allen (W. O.) Date: 12 Dec. 1952

Projection and Grids checked by (IV): H. D. Wolfe (W.O,) Date: 12 Dec. 1952

Control plotted by (III): I. I. Saperstein - R. R. Wagner Date: 23 April 1953

Control checked by (III): R. J. Pate - R. Dossett Date: 23 April 1953

Radial Plot [redacted] by (III): M. M. Slavney Date: 4 May 1953

Stereoscopic Instrument compilation (III): Planimetry Inapplicable Date:

Contours Date:

Manuscript delineated by (III): W. W. Dawsey Date: 24 Sept. 1953

Photogrammetric Office Review by (III): I. I. Saperstein Date: 9 October 1953

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

Camera (kind or source) (III): USC&GS Nine-lens Camera, 8:25" focal length
Fairchild Cartographic 6" Metrogon lens, Camera "O"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide: Gulf of Mexico	Stage of Tide: Sarasota Bay
52-0-330	11 Feb. 1952	1511	1:10,000	0.4	0.6
52-0-331-336 incl.	"	1512	"	"	"
52-0-337-338 incl.	"	1513		"	"
34891-93 incl.	"	1501	"	"	"
42787-42789	1 Dec. 1953	1212	"	0.8	

Tide (III) (Predicted)

		Ratio of Ranges	Mean Range	Spring Range
Reference Station:	TAMPA BAY, FLA.	-	1.5	2.0
Subordinate Station:	CORTEZ, FLA. *	0.9	1.3	
Subordinate Station:	ANNA MARIA	0.9	1.4	1.9

Washington Office Review by (IV): Date:

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): 18
Shoreline (Less than 200 meters to opposite shore) (III): 2
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 10** Recovered: 7 Identified: 6
Number of BMs searched for (II): 5 Recovered: 2 Identified: 2
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): 59

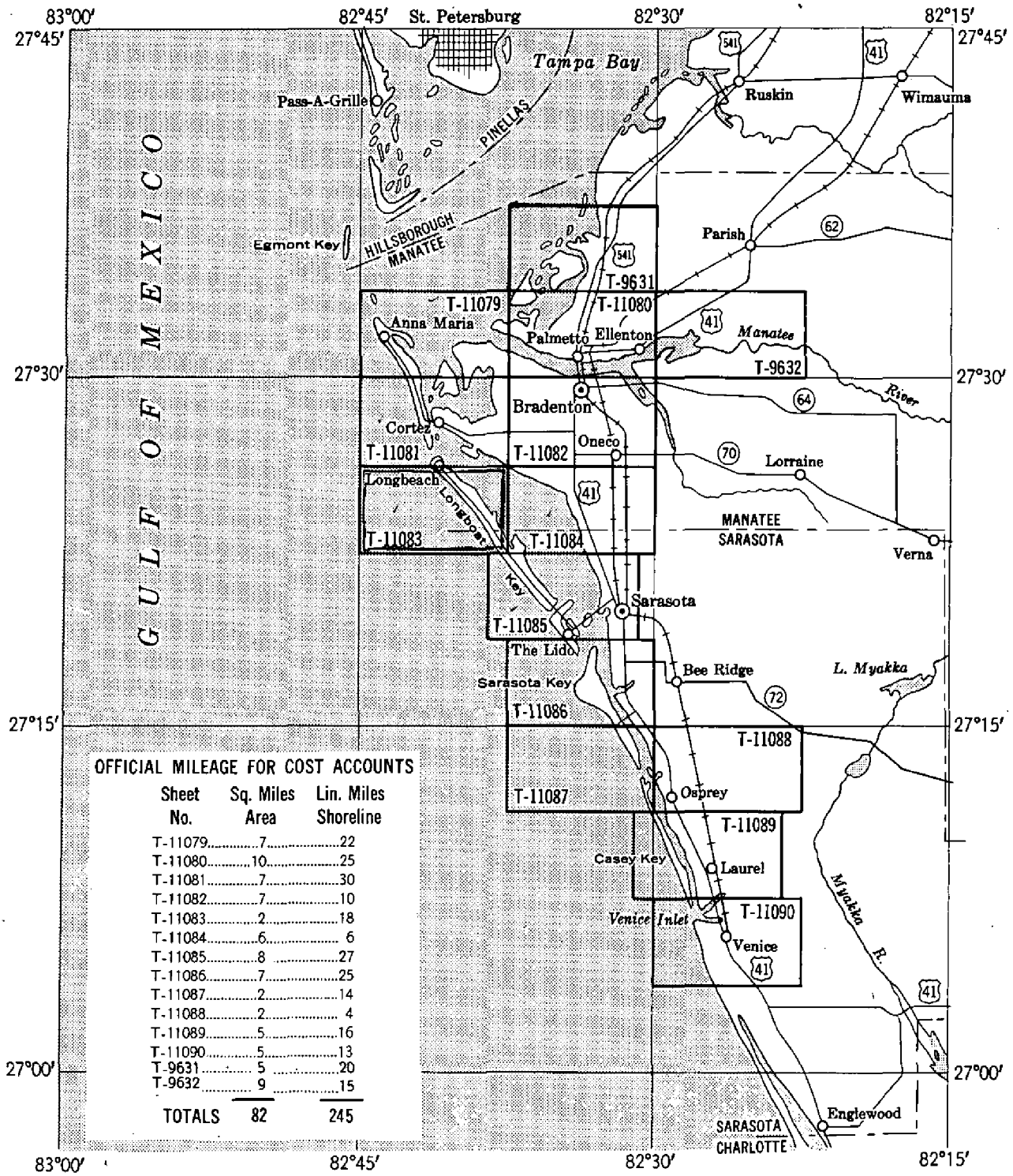
Remarks:

* Tide computations have been based on tidal differences and constants furnished by the Ship SOSEE August 1953.

** In addition, ten (10) triangulation intersection stations were established and are listed under Item 3.

SHORELINE MAPPING PROJECT ~~PH-100~~ 27/20

FLORIDA – GULF COAST, Manatee River to Venice Inlet



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Lin. Miles Shoreline
T-11079	7	22
T-11080	10	25
T-11081	7	30
T-11082	7	10
T-11083	2	18
T-11084	6	6
T-11085	8	27
T-11086	7	25
T-11087	2	14
T-11088	2	4
T-11089	5	16
T-11090	5	13
T-9631	5	20
T-9632	9	15
TOTALS	82	245

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-11083

Instructions were written for Project Ph-100 1 December 1952. The purpose was to furnish shoreline and hydrographic control for a basic hydrographic survey to be made by the SOSBEE. The combined surveys would furnish data for the revision of Chart 586 and 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 18 December 1952 instructions were issued for CS-353, West Coast of Florida, Tampa Bay to Caloosachatchie River, the Ship SOSBEE to survey the shoreward portions of the area, and to assist the Photogrammetric Office in field work as necessary to locate additional control.

A ~~cloth-backed lithographic~~ CLOROX 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 is bound with T-11081.

COMPILATION REPORT T-11083

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-11081.

31. DELINEATION.

The graphic method of compilation was used.

The photographs used in the compilation were clear and generally of good scale. The field inspection was good. No difficulties were encountered.

32. CONTROL.

Sufficient control was identified. Density and placement were of such quality that no difficulties were encountered in the establishment of detail points.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

The drainage was shown as indicated by the field inspection and as interpreted from the photographs.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was good. Alongshore details have been delineated according to the field inspection notes.

36. OFFSHORE DETAILS.

No difficulties were encountered in the delineation of offshore details.

37. LANDMARKS AND AIDS.

Landmarks will be reported on by the hydrographic party.

Form 567 for Nonfloating Aids was forwarded to the Washington Office on 10 August 1953.

38. CONTROL FOR FUTURE SURVEYS.

Two (2) recoverable topographic stations of use to the hydrographer were relocated on this survey and are being submitted with this report. They are listed under Item 49. All positions determined on this survey supersede previous positions.

No temporary photo-hydro stations are listed under Item 49 as they were furnished directly to the hydrographic party. (In sketch books, - fm. 27#)

39. JUNCTIONS.

T-11081 - to the north - in good agreement.
T-11084 - to the east - in good agreement.
T-11085 - to the south - in good agreement.
No contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Corps of Engineers topographic quadrangle BRADENTON BEACH, FLORIDA, scale 1:31,680, edition of 1944. Changes in the topography that have taken place are shown on the map manuscript.

Comparison was also made with USC&GS Planimetric Maps T-5847 and T-5848, scale 1:10,000, edition of 1944. Minor cultural changes have taken place.

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 under Item 46 are the source of most of the topography on this chart and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

W. W. Dawsey
W. W. Dawsey
Carto Photo Aid

APPROVED AND FORWARDED:

William A. Rasure
for J. E. Waugh, Chief of Party

48. GEOGRAPHIC NAME LIST.

Only Base Map names have been shown.

BUTTONWOOD HARBOR

CRANES BAYOU

FLORIDA

GULF OF MEXICO

LONGBOAT KEY

SARASOTA BAY
SISTER KEYS

WHALE KEY
WHITE KEY
WHITNEY BEACH

49. NOTES FOR THE HYDROGRAPHER.

The following topographic stations will be of use to the hydrographic party:

Q 92, 1942 (1943) 1953

P 92, 1942 (1943) 1953

file in Descr Rept T-11079, Dup. [illegible] D.R. T-11083 T-11085 78

Tampa Photogrammetric Office
P O Box 1689 Tampa Florida

original sent to 83

19 August 1953

To: Chief, Photogrammetry Division
U. S. Coast & Geodetic Survey
Washington 25, D. C.

Subject: Fixed Aids to Navigation - - Project Ph-100
Sarasota Bay and Sarasota Pass

Your attention is invited to the tabulation below. The published values are from the "COMPLETE LIST OF LIGHTS AND OTHER MARINE AIDS", Volumes I - VI as corrected to 1 January 1953. Forms 567 for these aids were forwarded on 10 August 1953.

Range Name	Survey No.	Distance and Direction From Front Light To Rear Light			
		From 1953 Light List		Value from Survey	
		Distance Yards	Direction °	Distance Yards	Direction °
North Range	T-11079	300	145	345	146
South Range	T-11079	400	029	400	028
South Turn Range	T-11083	1,400	130	1,700	130
Barge Channel	T-11085	700	251	690	252
		Distance and Direction From Front Daybeacon To Rear Daybeacon			
South Entrance Range	T-11083	350	265	855	265

/s/ J. E. Waugh

J. E. Waugh
CDR, USC&GS
Officer in Charge

cc. CO SOSBEE

TIDE COMPUTATION

PROJECT NO. Ph-100 T-11083

Time and date of exposure 1512 2/11/52 Reference station TAMPA BAY Mean range 1.3

Date of field inspection Subordinate station CORTEZ, FLORIDA Ratio of ranges 0.9

	Time h.	Time m.
High tide	14	07
Low tide	18	59
Duration of rise or fall	4	52

	Height feet	Height x Ratio of ranges
High tide	0.7	0.6
Low tide	0.0	0.0
Range of tide		0.6

	Time h.	Time m.
High tide at Ref. Sta.	15	27
Time difference	-1	20
Corrected time at Subordinate station	14	07

	Time h.	Time m.
Low tide at Ref. Sta.	20	19
Time difference	-1	20
Corrected time at Subordinate station	18	59

	h. m.		feet		feet	Photo. No.
Time H. T. ~~xxxx~~ Required time Interval	14 07 15 12 1 05	Ht. H. T. ~~xxxx~~ Tabular correction Stage of tide above MLW	0.6 0.0 0.6	Feature bares Stage of tide above MLW Feature above MLW		52-0-332
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		

M-2617-12

Computed by W. W. Dawsey Checked by I.I.Saperstein

TIDE COMPUTATION

PROJECT NO. Ph100 T- 11083

Time and date of exposure 1512 2/11/52 Reference station TAMPA BAY Mean range 1.4

Date of field inspection ______ Subordinate station ANNA MARIA Ratio of ranges 0.9

	Time h.	Time m.
High tide	13	07
Low tide	17	59
Duration of rise or fall	4	52

	Height feet	Height x Ratio of ranges
High tide	0.7	0.6
Low tide	0.0	0.0
Range of tide		0.6

	Time h.	Time m.
High tide at Ref. Sta.	15	27
Time difference	- 2	20
Corrected time at Subordinate station	13	07

	Time h.	Time m.
Low tide at Ref. Sta.	20	19
Time difference	- 2	20
Corrected time at Subordinate station	17	59

	h.	m.		feet		feet	Photo. No.
Time H. T. ~~or L. T.~~	13	07	Ht. H. T. ~~or L. T.~~	0.6	Feature bares		52-0-332
Required time	15	12	Tabular correction	0.2	Stage of tide above MLW		
Interval	2	05	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		
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		

M-2617-12

Computed by W. W. Dawsey Checked by I. I. Saperstein

Form T-2

50. PHOTOGRAMMETRIC OFFICE REVIEW

T. 11083

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

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) IIS 7. Photo hydro stations IIS 8. Bench marks IIS 9. Plotting of sextant fixes XXX 10. Photogrammetric plot report IIS 11. Detail points IIS

ALONGSHORE AREAS

(Nautical Chart Data)

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

CULTURAL FEATURES

27. Roads IIS 28. Buildings IIS 29. Railroads XX 30. Other cultural features XX

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names IIS 34. Junctions IIS 35. Legibility of the manuscript IIS 36. Discrepancy overlay XX 37. Descriptive Report IIS 38. Field inspection photographs IIS 39. Forms IIS

40. I. J. Saperstein — Reviewer; Jesse A. Giles — 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:

M-2623-12

Review Report T-11083
Shoreline Map
9 November 1956

61. General

This is a revision survey which included a newly-delineated total shoreline, but only such interior features as will amend the 1944 surveys (T-5847, T-5848).

62. Comparison with Registered Surveys

T-5847 1:10,000 1944
T-5848 1:10,000 1944

The shoreline on T-11083 supersedes and the interior detail supplements that on the older surveys for charting.

63. Comparison with Maps of Other Agencies

USE Bradenton Beach 1:25,000 1948

T-11083 supersedes the quadrangle for charting

64. Comparison with Contemporary Hydrographic Surveys

H-8035 1:10,000 1953 - Tampa Bay, Sarasota Bay

The shoreline is that of T-11083 (Longboat Key) except that a file was added to the manuscript just north of hydro-station 8317 (BEN); and a slip was added and the shoreline changed just south of hydro-station 8311 (COD).

65. Comparison with Nautical Charts

1256 1:80,000 Ed March 1943 Revision January 1955

Numerous cultural changes have occurred on Longboat Key since the chart was compiled.

66. Accuracy

The manuscript complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED BY:

L C Lande
Chief, Review Section
Photogrammetry Division

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

Chief, Photogrammetry Division

7 July 1958

Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
July 6'	857	Nichols	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.