

**T-12274****T-12274****T-12274**

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12274
LOCALITY	
State	SOUTH CAROLINA
General locality	WINYAH BAY TO CHARLESTON HARBOR
Locality	WINYAH BAY ENTRANCE
1963 - 1964	
CHIEF OF PARTY	
J. K. Wilson, Chief of Field Party	
J. Bull, Norfolk Regional Office	
LIBRARY & ARCHIVES	
DATE	



FORM C&GS-181a  
(12-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

T - 12274

PROJECT NO. (II):

21058

FIELD OFFICE (III):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Norfolk, Virginia

Tampa, Florida

OFFICER-IN-CHARGE

J. Bull

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

October 8, 1962	Field
November 5, 1962	Office
February 20, 1963	Office Amendment I
April 26, 1963	Office Amendment II
October 10, 1963	Office Supplement I

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): MHW~~MEAN LOW WATER~~ 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):

GEORGETOWN LIGHTHOUSE, 1925

LAT.:

33° 13' 20."878 (643.2m)

LONG.:

79° 11' 07."013 (181.6m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 510,176.57

x = 2,554,951.68

STATE

South Carolina

ZONE

South

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.



FORM C&GS-181b (12-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT - DATA RECORD			
FIELD INSPECTION BY (II): M. A. Stewart H. G. Lucas		DATE: Jan. 1964	
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo. Compilation Date of Photography                      Sept. 1, 1962			
PROJECTION AND GRIDS RULED BY (IV):  A. R. (Washington Office)		DATE Feb. 1963	
PROJECTION AND GRIDS CHECKED BY (IV):  W. M. (Washington Office)		DATE Feb. 1963	
CONTROL PLOTTED BY (III):  V. P. Cackowski		DATE May 1963	
CONTROL CHECKED BY (III):  R. R. Wagner		DATE May 1963	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  Washington Office		DATE April 1963	
STEREOSCOPIC INSTRUMENT COMPILATION (III):  R. E. Smith, Jr.	PLANIMETRY Reviewed      R. E. Smith, Jr. R. J. Pate	DATE August 1963	
	CONTOURS Inapplicable	DATE August 1963	
MANUSCRIPT DELINEATED BY (III): "                      "      R. E. Smith, Jr. Reviewed by: R. R. Wagner		DATE August 1963 Sept. 1963	
SCRIBING BY (III):  H. J. Cordell		DATE Nov. 1964	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  R. R. Wagner		DATE March 1965	
REMARKS:			



FORM C&GS-181c  
(12-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Single Lens Camera "S"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-1108-A	1 Sept. 1963	08:34	Diapositives	+ 4.7
62-S-1109-A	"	08:34	1,30,000	+ 4.7
			"	

## Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: CHARLESTON		5.1	6.0
SUBORDINATE STATION: Winyah Bay Entrance (south jetty)	HW -0.5 LW 0.0	4.6	5.4
SUBORDINATE STATION:			

FINAL  
WASHINGTON OFFICE REVIEW BY (IV): M. M. Slavney, Norfolk Regional Office

DATE: 8/65

PROOF EDIT BY (IV): M. M. Slavney, Norfolk Regional Office

DATE: 11/65

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2\* RECOVERED: 1 IDENTIFIED: 1

NUMBER OF BM(S) SEARCHED FOR (II): (Tidal) 6 RECOVERED: 2 IDENTIFIED: 1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

## REMARKS:

\*Four range lights and one radio mast were located by intersection in January 1963 by Geodetic Party 601. All five of these stations were identified on the photographs.



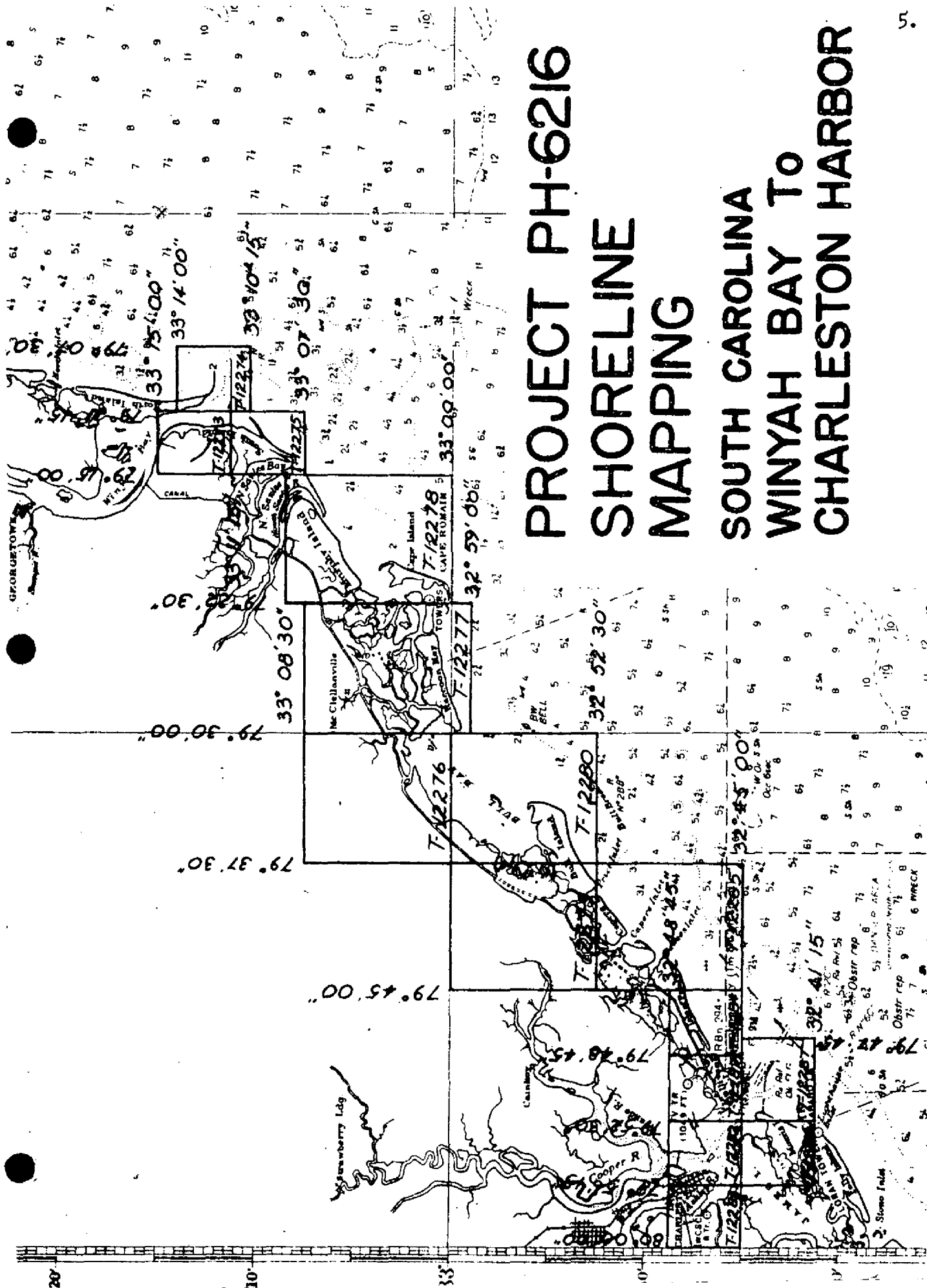
COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript complete pending field edit.	January 1964	Superceded
Compilation complete. Field Edit applied	November 1964	





# PROJECT PH-6216 SHORELINE MAPPING SOUTH CAROLINA WINYAH BAY TO CHARLESTON HARBOR



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12274

Shoreline manuscript T-12274 is one of nine 1:10,000 scale maps in Project 21058 (Winyah Bay to Charleston, South Carolina), which also contains six 1:20,000 manuscripts. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereoscopic instrument project in advance of hydrographic surveys of the area. 1:30,000 scale panchromatic photographs were taken with the S camera on September 1, 1962. The stereo bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. 1:10,000 scale ratio prints were processed and provided for photo hydro support.

The field operations preceding compilation included field inspection and identification of control to be used in the stereo bridge. The manuscripts were later field edited in conjunction with photo hydro support.

The compilation manuscript was a vinylite sheet 4.75 minutes in latitude and 3.75 minutes in longitude. The smooth manuscript was on cronaflex for review. One cronar positive and one cronar negative are furnished for registry and record after final review.



FIELD INSPECTION REPORT

Submitted with T-12277.



MAP T-12274 PROJECT NO. Ph-6x16 SCALE OF MAP 1:10,000 SCALE FACTOR

[illegible]

1 FT = 3048006 METER  
2157ED  
COMPUTED BY: J.

DATE 4-18-63

CHECKED BY: *PKW*

COMM-DC-57843

DATE \_\_\_\_\_




COMPILATION REPORT

The Photogrammetric Plot Report is submitted with T-12283.

Items 31 thru 47 submitted with T-12275.

Approved & Forwarded

  
J. Bull, Norfolk Regional Officer  
Russell J. Pate



T-12274

48. GEOGRAPHIC NAME LIST

Names were taken from U.S. Corps of Engineers Quadrangle, SANTEE POINT, S.C., scale 1:31,680 prepared by the Geographic Name Section, Washington Office.

ATLANTIC OCEAN

MURRELLS INLET AND WAVERLY MILLS NO. 7

NORTH ISLAND

SAND ISLAND

SOUTH CAROLINA

WINYAH BAY

WINYAH BAY ENTRANCE



GEOGRAPHIC NAMES

Ph 6216 (Winyah Bay - Charleston Harbor, S.C.)

T-12274 (Shoreline)

Atlantic Ocean

North Island

North Jetty

Sand Island

South Jetty

Winyah Bay

Winyah Bay Entrance

*A. J. Wraight*

A. J. Wraight  
Geographic Names



T-12274

49. NOTES FOR THE HYDROGRAPHER

On the east end of the south jetty, there appeared to be either a rock mound or a light. This was covered by only one photograph and no field inspection note. Please verify.



C&GS FORM 1002 (11-13-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T-10363 12274			
1. PROJECTION AND GRIDS  RRW	2. TITLE RRW 4a Classification label <u>unclass</u>	3. MANUSCRIPT NUMBERS  RRW	4. MANUSCRIPT SIZE  RRW
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY  RRW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)  RRW	7. PHOTO HYDRO STATIONS  XX	
8. BENCH MARKS  RRW	9. PLOTTING OF SEXTANT FIXES  XX	10. PHOTOGRAMMETRIC PLOT REPORT  W.O.	11. DETAIL POINTS  Kelsh Instrument
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE  RRW	13. LOW-WATER LINE  XX	14. ROCKS, SHOALS, ETC.  RRW	15. BRIDGES  XX
16. AIDS TO NAVIGATION  RRW	17. LANDMARKS  RRW	18. OTHER ALONGSHORE PHYSICAL FEATURES  RRW	19. OTHER ALONGSHORE CULTURAL FEATURES  RRW
PHYSICAL FEATURES			
20. WATER FEATURES  RRW	21. NATURAL GROUND COVER  RRW	22. PLANETABLE CONTOURS  XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS  XX	24. CONTOURS IN GENERAL  XX	25. SPOT ELEVATIONS  XX	26. OTHER PHYSICAL FEATURES  RRW
CULTURAL FEATURES			
27. ROADS  XX	28. BUILDINGS  RRW	29. RAILROADS  XX	30. OTHER CULTURAL FEATURES  RRW
BOUNDARIES			
31. BOUNDARY LINES  XX	32. PUBLIC LAND LINES  XX		
MISCELLANEOUS			
33. GEOGRAPHIC NAMES  RRW	34. JUNCTIONS  RRW AND ACR	35. LEGIBILITY OF THE MANUSCRIPT  RRW	
36. DISCREPANCY OVERLAY  XX	37. DESCRIPTIVE REPORT  ACR	38. FIELD INSPECTION PHOTOGRAPHS  RRW	39. FORMS  RRW
40. REVIEWER <i>R. R. Wagner by A. C. Rauck, Jr.</i> Robert R. Wagner		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
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 <i>Rexford E. Smith, Jr.</i> Rexford E. Smith, Jr.		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS			



51. FIELD EDIT REPORT

None submitted.

*Albert C. Rauck, Jr.*  
Albert C. Rauck, Jr.











# TIDE COMPUTATION

PROJECT NO. Ph. 6246 T. 122774

Time and date of exposure 0834 Sept. 1, 1962 Reference station

CHARLESTON

Mean range 2.6

Spring 5.4

Ratio of ranges

Subordinate station WINNHAWY ENTRANCE (South Jetty)

Date of field inspection Jan. 1963

Time		Height feet	Height x Ratio of ranges	Time	
h.	m.			h.	m.
High tide	08 44	5.2005	0.25 = 4.7	High tide at Ref. Sta.	09 09
Low tide	02 31	0.2	0.0 = 0.2	Time difference	-0 28
Duration of rise or fall	6 10		4.5	Corrected time at Subordinate station	8 41
				Low tide at Ref. Sta.	02 59
				Time difference	-0 28
				Corrected time at Subordinate station	2 31

Time		Height feet	Height x Ratio of ranges	Time		Photo. No.
h.	m.			h.	m.	
Time H. T. or L. T.	08 44	4.7		Feature bares		62-S-1108A
Required time	08 44	0.0		Stage of tide above MLW		
Interval	00 07	4.7		Feature above MLW		
Time H. T. or L. T.	00 07			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		

M-2617-12

Computed by R.E. Smith

Checked by R.D.P.



15.

REVIEW REPORT T-12274  
SHORELINE  
August, 1965

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8230 (Santee Point, S. C. )	1:20,000	1942
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An ozalid comparison print of T-12274 is submitted; the differences with T-8230 are noted in blue:

Sand Island has evolved from the sand bar shown in blue to its present state.

The Range Lights have been moved, though the ranges appear to retain their directions.

The east, or ocean, shoreline of North Island has moved 10 to 100 meters eastward along its entire length. The southwest tip of North Island has extended 300 meters southward.

This map supersedes the listed prior survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

SANTEE POINT, S. Carolina	C of E.	1:31,680	1942
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T-8230 (Item 62) was mapped by the Coast and Geodetic Survey for the Corps of Engineers, and the SANTEE POINT quadrangle is the 1:31,680 reproduction by Corps of Engineers.

The differences noted with T-8230 are, therefore, common with this quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEET	PE 10-1-64 A&B	1:10,000	No date
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The boat sheet shoreline was taken from the Advance Manuscript of T-12274. There were no changes by the field editor, and they are in agreement. No attempt was made to delineate the low water line on T-12274.



65. COMPARISON WITH NAUTICAL CHARTS

Chart 787 1:40,000 3rd edition of October 26,  
1964, corrected thru Notice to Mariners No. 50 of December 12, 1964.

The Comparison Print shows chart differences in red:

The east, or ocean, shoreline of North Island has moved eastward, and the ponds at the south end of the island are now mostly "marsh".

The Sand Island is narrower at the north end and the shoreline has moved eastward.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with the instructions and meets the National Standards of Map Accuracy.

No items are noted for future surveys.


Reviewed by

  
M. M. Slavney

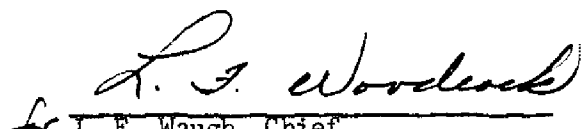
Approved by

  
J. Bill, Norfolk Regional Officer

Approved by

  
Charles Theurer, Chief  
Cartographic Branch  
Photogrammetric

Chief, Chart Division

  
J. E. Waugh, Chief  
Photogrammetry Division

Chief, Operations Division



NOTES TO VERIFIER  
T-12274 Project 21058 (Ph-6216)  
BOAT SHEET No. PE 10-1-64A&B

None.