

T-12287**12287****12287**

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (Photo)
Field No.	Office No. T-12287
LOCALITY	
State	SOUTH CAROLINA
General locality	WINYAH BAY TO CHARLESTON HARBOR
Locality	CUMMINGS POINT
1963 1962-1964	
CHIEF OF PARTY	
W. M. Reynolds, 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 - 12287

PROJECT NO. (II):

21058

FIELD OFFICE (III):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Portsmouth, Virginia

OFFICER-IN-CHARGE

J. Bull

INSTRUCTIONS DATED (II) (III):

Field: October 8, 1962
 Office: November 5, 1962
 " Amendment 1: February 20, 1963
 " Amendment 2: April 26, 1963
 " Supplement 1: October 10, 1963

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):

CUMMINGS 1933

LAT.:

32° 44' 17.044" (525.0m)

LONG.:

79° 52' 24.287" (632.4m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 331,009.37 ft.

x = 2,346,414.76 ft.

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

T - 12287

FIELD INSPECTION BY (II): M. A. Stewart		DATE: March - May 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: September 1, 1962 and February 21, 1963		
PROJECTION AND GRIDS RULED BY (IV): Austin Riley		DATE February 1963
PROJECTION AND GRIDS CHECKED BY (IV): L. F. Beugnet		DATE February 1963
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE April 1963
CONTROL CHECKED BY (III): R. R. Wagner		DATE April 1963
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): J. L. Lisle		DATE April 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. D. Purvis R. E. Smith, Jr.	DATE August 1963 August 1963
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. D. Purvis		DATE
Reviewed: W. H. Shearouse		June 1963
SCRIBING BY (III): R. E. Smith, Jr.		DATE
Reviewed by: I. I. Saperstein		November 1964 November 1964
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): I. I. Saperstein		DATE November 1964
REMARKS: FIELD EDIT 1963-1964		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Single Lens "S" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-1205A	Sept. 1, 1962	9:52	1:30,000	- 0.1
63-W-3068A	Feb. 21, 1963	11:13	"	+ 1.8
63-W-3069A	Feb. 21, 1963	11:13	"	+ 1.8

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: <u>CHARLESTON</u>		5.1	6.0
SUBORDINATE STATION: <u>Sullivan's Island (Outer Coast)</u>	HW LW	+ 0.1 0.0	5.2 6.1
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): M. W. SLAVNEY, Atlantic Marine Center

DATE: Feb. 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 3

RECOVERED:

3

IDENTIFIED:

1

NUMBER OF BM(S) SEARCHED FOR (II): 0

RECOVERED:

0

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

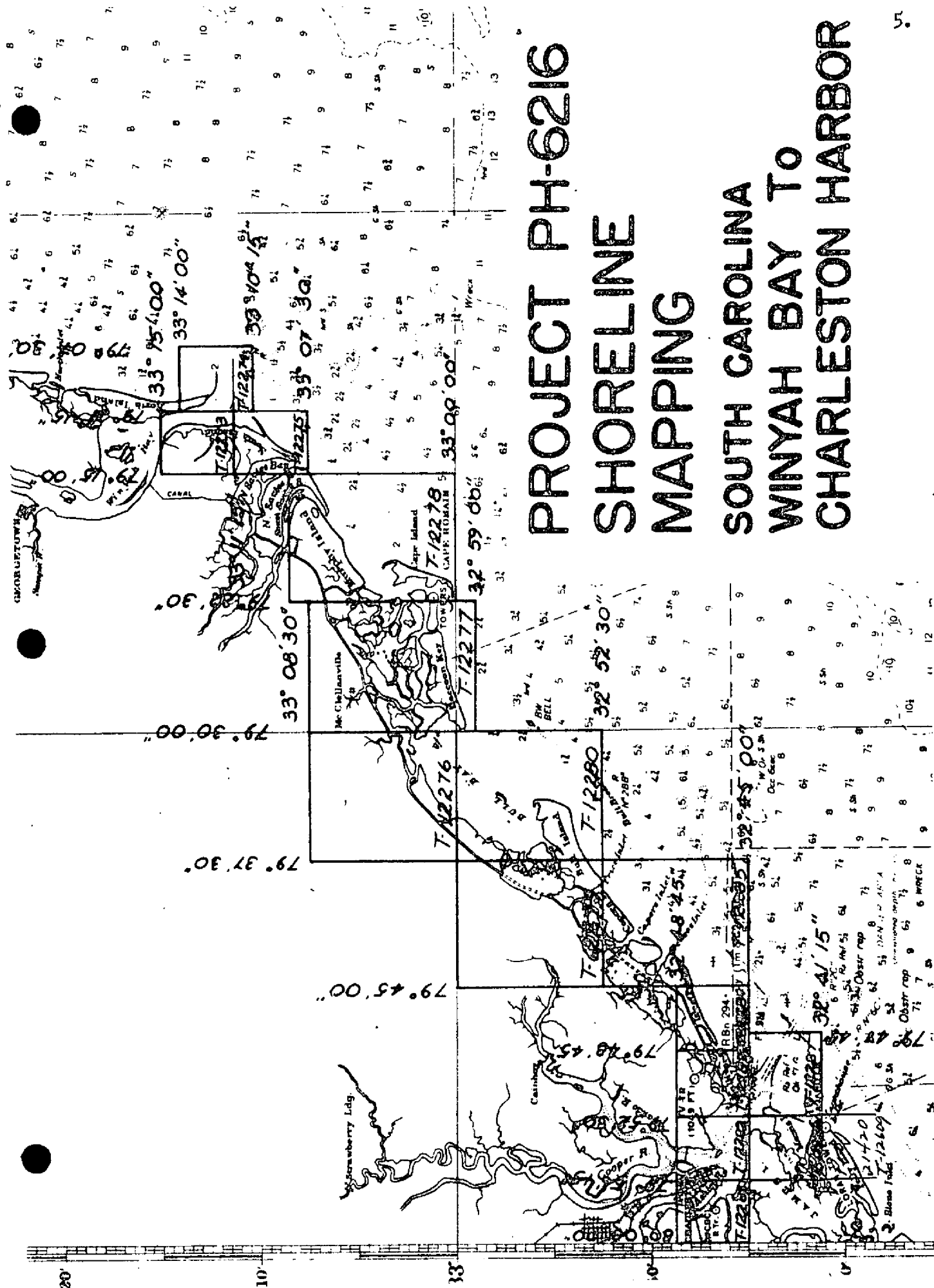
REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation complete to limits of photography	June 1963	
Alongshore area field edited	November 1963	No changes



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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12287

Shoreline manuscript T-12287 is one of nine 1:10,000 scale manuscripts in Project 21058 (Winyah Bay to Charleston, South Carolina), which also contains six 1:20,000 scale 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 and W cameras on Sept. 1, 1962 ("S") and Feb. 21, 1963 ("W"). 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 3 minutes 45 seconds in latitude and 4 minutes 45 seconds 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-12281.

SCALE FACTOR

1 FT. = .3048006 METER	COMPUTED BY: SD - 2000	DATE: 1/5/63	CHECKED BY: VPC	DATE: 6/5/63	COMM-DC-57043
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COMPILATION REPORT
T-12286 & T-12287

The Photogrammetric Bridge Report submitted with T-12281.

31. DELINEATION

The Kelsh plotter was used.

The jetties shown at the entrance to Charleston Harbor are compiled to the model limit. There is coverage available on a single photograph, however, there are insufficient control points available for graphic compilation. The precise location of the eastern end of the jetties has been referred to the hydrographer.

32. CONTROL

See Photogrammetric Bridge Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The low water line and shallow areas were delineated from office interpretation.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Forms 567 for landmarks and aids were submitted under the date of June 26, 1963.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions for T-12286 have been made with T-12282 to the north and T-12287 to the east.

Junctions for T-12287 have been made with T-12283 to the north and T-12286 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the following quadrangle:

USGS QUADRANGLE JAMES ISLAND, scale: 1:24,000 dated 1959 - comparison favorable.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 491, scale 1:20,000, the 1st edition, revised 11/12/62. Comparison was favorable.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded:

R. D. Purvis

R. D. Purvis

by Albert C. Rauch, Jr.

J. Bull

T - 12287

48. GEOGRAPHIC NAME LIST

Geographic names were furnished on the USGS James Island
Quadrangle, South Carolina by the Geographic Names Section.

ATLANTIC OCEAN

CUMMINGS POINT

SOUTH CAROLINA

GEOGRAPHIC NAMES

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

T-12286

and

T-12287

Atlantic Ocean

Bass Creek

Block Island Creek

Block Island

Charleston Harbor

Cummings Point

First Sister Creek

Fort Johnson Creek

Goat Island

Folly Creek

James Island

Kings Highway

Lighthouse Bay

Lighthouse Creek

Lighthouse Inlet

Long Island

Lighthouse Point

Morris Island

Oceanview

Oyster Point

Parrot Point

Parrot Point Creek

Rat Island

Rat Island Creek

Schooner Creek

Second Sister Creek

Seaside

Seaside Creek

Sessionville Creek

Sessionville

Three Trees

A. J. Wraight

A. J. Wraight
Chief, Geographic Names

T-12287

49. NOTES FOR THE HYDROGRAPHER:

The eastern end of the submerged jetty shown at approximate latitude $32^{\circ}43.9'$, longitude $79^{\circ}51.4'$ is an approximate position. The exact end of the structure could not be seen on the photograph. The precise location has been left for the hydrographer.

C&GS FORM 1002 (11-19-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
50.		T 12287 12287	
1. PROJECTION AND GRIDS IIS	2. TITLE IIS 4a Classification label <u>unclass.</u>	3. MANUSCRIPT NUMBERS IIS	4. MANUSCRIPT SIZE IIS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX	7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT W. O. Bridge	11. DETAIL POINTS Kelsh
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE IIS	13. LOW-WATER LINE XX	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 IIS
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES IIS
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 RRW	38. FIELD INSPECTION PHOTOGRAPHS IIS	39. FORMS IIS
40. REVIEWER I. I. Saperstein by <i>I. I. Saperstein</i>		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A. 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>R. D. Purvis</i> R. D. Purvis		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
43. REMARKS			

T - 12287

51. FIELD EDIT REPORT

~~*~~ No Field Edit or Report was submitted, neither were any discrepancies reported.

Albert C. Rauck, Jr.

* Refer to the "Summary", page 6, paragraph 3.
The manuscript was field edited.

TO BE CHARTED
TO BE REVISED
TO BE DELETED

Tampa District Office, Tampa, Fla. June 26 1963

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

PROBATION T.I.

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

REVIEW REPORT T-12286 & T-12287
SHORELINE
February 1966

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-12286

T-11307, 1:10,000 scale compiled in 1957 from 1955 photographs.

The ozalid Comparison Print notes,

"Piling on T-11307 at Lat. $32^{\circ} 41.04'$, Long. $79^{\circ} 52.62'$. None were noted by the field inspector, or the field editor", near this position; and none were visible on the photographs. See Item 65, Discrepancy number 2.

T-12287

T-11308, 1:10,000 scale, compiled in 1957 from 1955 photography.

The ozalid Comparison Print notes that the submerged jetty at Lat $32^{\circ} 43.9$, west from Long. $79^{\circ} 51.3'$, was not shown on T-11308.

There are changes in the Atlantic Ocean shoreline of up to 150 meters.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

T-12286 and T-12287

JAMES ISLAND, S.C., USGS, 1:24,000 1959

An island on T-12286, at Lat. $32^{\circ} 45'$, Long. $79^{\circ} 53.5$. is the most noticeable difference.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYST-12286

BOAT SHEET HFP 10-1-63, 1:10,000 No date
 " " PE 20-1-64B, 1:20,000 " "

The Comparison Print shows "piling" from PE 20-1-64B at Lat. $32^{\circ} 41.57'$, Long. $79^{\circ} 53.39'$ which covers an area about four times as large as the area shown on T-12286 as "Pier ruins". The area was covered by some May 1964 photography for PH-6407 to the south on which the size and position of the "piling" or "pier ruins" corroborate T-12286.

The shoreline of Rat Island at Lighthouse Inlet from Lat $32^{\circ} 41' 15''$ to $32^{\circ} 41' 22''$ was revised from the field edit for T-12609 of PH-6407. This was done to insure a junction with T-12609, which was field edited in Spring of 1965, about a year after the field edit for T-12286.

T-12287

HFP 10-1-63, 1:10,000 scale, no date
 PE 20-1-64B, 1:20,000 scale, no date

In agreement, the shoreline for these boat sheets was from the Advance Manuscripts.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 470, 1:20,000, 17th Edition Aug. 16, 1965
 " 491, " , 2nd " Feb. 15, 1965
 " 792, 1:40,000, 3rd " Feb. 24, 1964

T-12286

The Comparison Print shows three discrepancies with the charts:

- 1- The sand island at Lat. $32^{\circ} 45'$, Long. $79^{\circ} 53.4'$ is not shown on the charts.
- 2- The "Pile" at Lat. $32^{\circ} 44.04'$, Long. $79^{\circ} 52.62'$ on Charts 470 and 491 is not on this map. The pile is not visible on the photographs, and it was not noted by the field inspector or the field editor. It is noted that Boat Sheet HFP 10-1-63, which shows considerable development in this area, does not show a "pile" or "piling" here. Also refer to Item 62.

65. COMPARISON WITH NAUTICAL CHARTS (Cont.)

- 3- Chart 491 shows a parrallelogram of "Piling" at Lat. $32^{\circ} 41.6$, Long $79^{\circ} 53.4$, which is 4 or 5 times as large as the "pier ruins" visible on photographs 63 W 3066, or on photograph 64 S 1184, which was used for map T-12609 of Project 21420 to the south. No mention of these "pier ruins" was made by the field inspector or the field editor but the hydrographer shows "piling" in this area on Boat Sheet PE 20-1-64B, see Item 64 of this report.

T-12287

The Comparison Print shows one discrepancy with the charts:

The "pier ruins" on the map at Lat. $32^{\circ} 44.3'$, Long $79^{\circ} 52.45$, which end about 25 meters short of the H.W.L; is whown on the charts as a sound pier extending about 80 meters west from the H.W.L.. The "pier ruins" are noted on field photo 64 W 3068 by the field inspector; no change was noted by the field editor, or the hydrographic party, although Boat Sheet HEP 10-1-63 has a signal here, "ZOO" with the note "north end pier yel x bn".

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These surveys comply with the instructions and meet the National Standards for Map Accuracy.

Future surveys should verify the delineation of discrepancies No. 2 and No. 3 on T-12286 and the discrepancy on T-12287 discussed in Item 65.

Reviewed by:

M. M. Sharney
Approved by: *Y.*

J. Bull
Director, Atlantic Marine Center

Charles Hansen S6B
Chief, Cartographic Branch
Photogrammetric

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER

T-12287, Project 21058 (PH-6216)

BOAT SHEETS: HFP 10-1-63 and PE 20-1-64B

None

