

12297

0117

Diag. Cht. No. 1237.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Ph-6217
Office No.	T-12297
LOCALITY	
State	SOUTH CAROLINA
General locality	CAPE FEAR, NC TO WINYAH BAY SC
Locality	OCEAN FOREST
19 <sup>2</sup> <del>65</del> - 1964	
CHIEF OF PARTY	
Joseph K. Wilson, Chief, Photo Party 6420	
J.C. Bull, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	December 1967

USCOMM-DC 5087

12297

DESCRIPTIVE REPORT - DATA RECORD  
T-12297

PROJECT NO. (II):

Job PH-6217

FIELD OFFICE (II):

Myrtle Beach, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J.C. Bull, Director, Atlantic Marine  
Center

INSTRUCTIONS DATED (II) (III):

11 September 1963    Field  
14 October 1963    Office  
10 January 1964    Office amendment #1

METHOD OF COMPILATION (III):

Kelsh

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:20,000

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):

~~MEAN SEA LEVEL~~ EXCEPT AS FOLLOWS: MHW  
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):

CANEPATCH, 1934

LAT.:

33° 44' 57."322(1766.1m)

LONG.:

78° 50' 12."012(309.2m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 279,667.60 ft.

X = 2,657,590.71 ft.

South Carolina

North

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): Matthew A. Stewart Harvey G. Lucas		DATE: Feb. 1964 Nov. 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo compilation - Date of photographs Sept. 1, 1962 Aug. 24, 1962		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE Dec. 3, 1963
PROJECTION AND GRIDS CHECKED BY (IV): P. Silverman		DATE Dec. 3, 1963
CONTROL PLOTTED BY (III): I.I.Saperstein		DATE March 12, 1964
CONTROL CHECKED BY (III): R. R. Wagner		DATE March 12, 1964
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. B. Kelly		DATE Dec. 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. J. Pate	DATE March 31, 1964
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): J. Honick		DATE March 31, 1964
SCRIBING BY (III): A. Santillan		DATE March 30, 1965
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith R. R. Wagner		DATE July 21, 1965 February 1966
REMARKS: FIELD EDIT R.S. TIBBETTS June 1964 (Refer to pages 15 and 20)		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"S" Camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62 S 1068 A	Sept. 1, 1962	0804	1:30,000	5.1 above MLW
1069 A	"	"	"	"
1070 A	"	0805	"	"
860 A				
62 S 860-A	Aug. 24, 1962	0833	"	0.1 above MLW

## TIDE (III)

Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: <u>CHARLESTON, SOUTH CAROLINA</u>		5.1	6.0
SUBORDINATE STATION: <u>MYRTLE BEACH, SOUTH CAROLINA</u>		5.1	6.0
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

*Leo F. Boegner, Atlantic Marine Center*

DATE:

*June, 1966*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

7

RECOVERED:

6

IDENTIFIED:

1

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

None

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

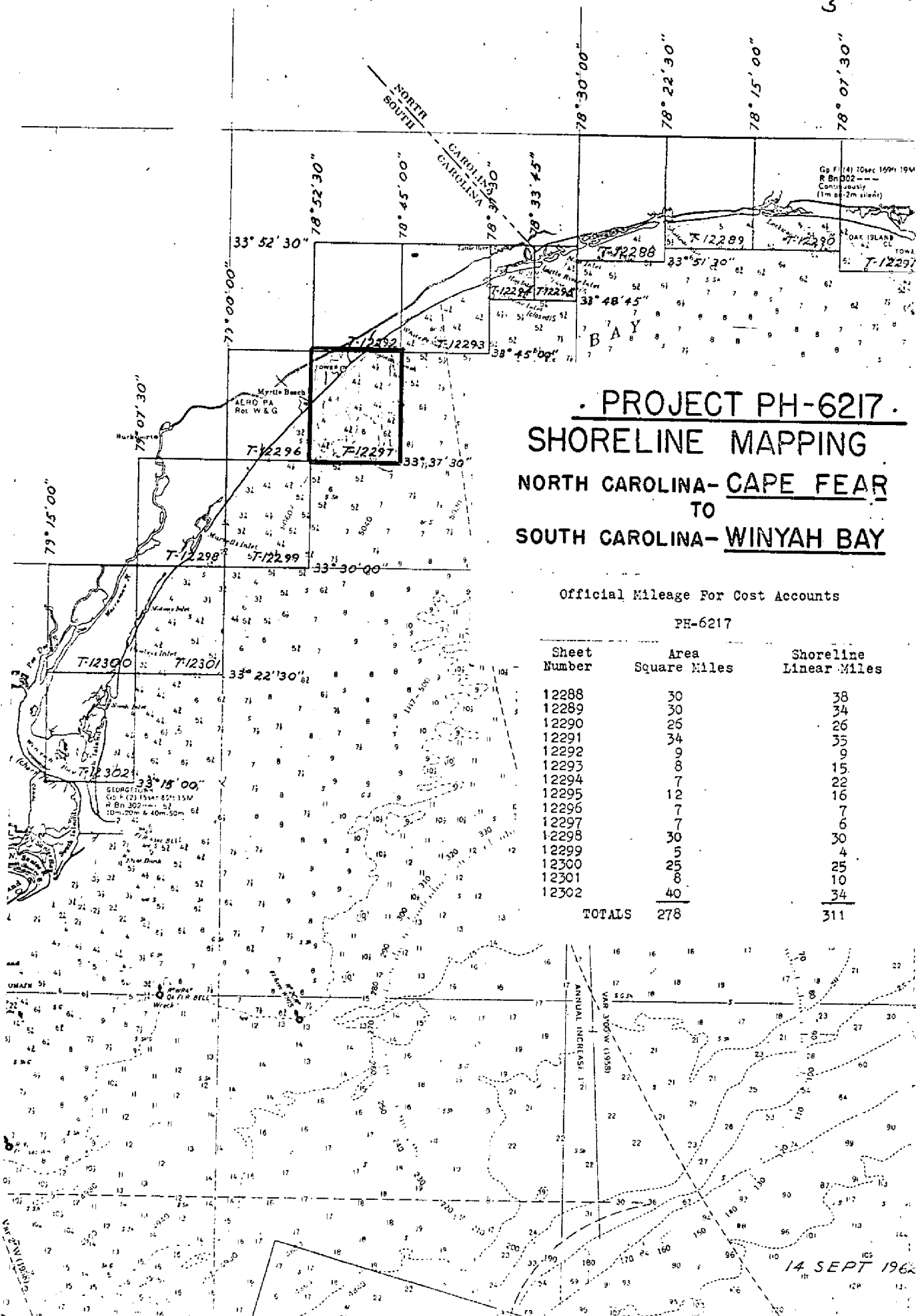


COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation Complete pending field edit	Feb. 1965	superseded
Compilation Complete	July 1965	



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12297

Shoreline survey T-12297 is one of fifteen similar maps in this project and covers a part of the coast of South Carolina in the vicinity of Myrtle Beach.

The primary purpose of the project is to provide modern shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be made in the same area.

Field operations preceding compilation, by Kelsh instrument methods, included recovery and identification of horizontal control, field inspection, location of fixed aids to navigation and report on landmarks.

Compilation was at 1:20,000 scale using the panchromatic photography of September 1, 1962 and August 24, 1962.

A cronaflex copy of the manuscript showing shoreline, alongshore detail and pass points was furnished for preparation of the boat sheet. Specially prepared 1:20,000 scale ratio photographs were provided for locating hydrographic signals by photogrammetric methods.

One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT  
South Carolina  
Project 21059

For data pertaining to this Map see field inspection report filed  
under Map T-12296.

2 March 1964  
Submitted by:

*Joseph K. Wilson*  
Joseph K. Wilson  
Chief, Photo Party 6420



PROJECT NO. PH-21059

SCALE OF MAP.....1:20,000.

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER  
COMPUTED BY:

STI

DATE:

Mar. 10, 1964

CHECKED BY:

PRW

DATE \_\_\_\_\_

Mar. 11, 1964

COMM-DC-57843

# AEROTRIANGULATION REPORT

Project No. 21059

Cape Fear to North Carolina

Winyah Bay to South Carolina

## 21. Area Covered

This report covers aerotriangulation bridging of the Atlantic Coast from Myrtle Beach, South Carolina to Cape Fear, North Carolina (T-Sheets T-12288 thru T-12295 and T-12297).

## 22. Method

Three strips were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. All stations held within National Map Accuracy Standards, with the exceptions of Corncake RM #1, 1962 (Strip #3) and Goat, 1934, SS"A". All tie points were averaged. Plotting coordinates are furnished at 1:10,000 scale.

## 23. Adequacy of Control

Horizontal control provided was adequate in quality and coverage, with the exception of Corncake RM # 1, 1962, which could not be held in strip #3. It is believed that the RM #1 has been disturbed (see Form 526 Recovery Note). Another station should be identified in the area to complete T-Sheet No. T-12291, Goat 1934, SSA could not be clearly identified in strip #1 and was eliminated from the bridge.

## 24. Supplemental Data

None

## 25. Photography

Photography was adequate as to coverage, overlap, and definition.

Submitted by:

*W. Heinbaugh*  
W. Heinbaugh

Approved by:

*John D. Perrow, Jr.*  
John D. Perrow, Jr.

COMPILATION REPORT  
T-12297

PHOTOGRAMMETRIC PLOT REPORT

Submitted with this report

31. DELINEATION

Compilation done by Kelsh plotter.

Field Inspection was adequate.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated as inspected or from office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

No low water line shown.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of Form 567, for Aids to Navigation and Landmarks were forwarded to Washington Office under date Feb. 21, 1966.

38. CONTROL FOR FUTURE SURVEY

None

39. JUNCTIONS

Junctions are in agreement with T-12296 to the west and T-12292 to the north. Atlantic Ocean is to the south and east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle MYRTLE BEACH, S.C. scale 1:62,500 dated 1937.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison made with chart No. 1237 scale 1:80,000 revised November 5, 1962.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

*a. Santillan*A. Santillan  
Cartographic Aid

Approved and Forwarded

*J. C. Bull*

J. C. Bull

Director, Atlantic Marine Center

GEOGRAPHIC NAMES  
Ph 21059  
(Cape Fear, N.C. - Winyah Bay, S.C.)

T-12297

Atlantic Ocean  
Canepatch Swash  
\* Deephead Swash  
Ocean Forest  
Withers Swamp

*A. J. Wraight*  
A. J. Wraight  
Chief, Geographic Branch

*\* Not used on this survey*

T-12297

49. NOTES TO THE HYDROGRAPHER

None



## PHOTOGRAMMETRIC OFFICE REVIEW

-T-10363 T-12297

1. PROJECTION AND GRIDS RRW		2. TITLE RRW		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) XX		7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O.)		11. DETAIL POINTS Kelsh	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE RRW		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. XX		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 XX				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 RRW		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		35. LEGIBILITY OF THE MANUSCRIPT RRW	
36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT RES		38. FIELD INSPECTION PHOTOGRAPHS RRW		39. FORMS RRW	
40. REVIEWER R.R. Wagner R.E. Smith R.E. Smith				SUPERVISOR, REVIEW SECTION OR UNIT A. C. Rauck 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 R.E. Smith				SUPERVISOR A. C. Rauck Albert C. Rauck Jr.			
43. REMARKS							

FIELD EDIT REPORT  
T-12297

No formal field edit report was received. Field edit data received on the discrepancy print indicates that the manuscript was field edited in June 1964.

NOTE : No changes in the map resulted from field edit. The subject Discrepancy Print was destroyed.      sdb

16

REVIEW REPORT T-12297  
SHORELINE  
June 30, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey T-5245, 1:20,000 scale. The mean high water line has receded no more than would be expected by the passage of time. The interior of the map has undergone major changes with the development of the area.

Manuscript T-12297 supersedes the prior survey and should be used for future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle MYRTLE BEACH, S. C., 1:62,500 scale edition of 1940.

Deephead Swash near latitude 33°43.5' longitude 78°50.5' is no longer distinguishable and is not shown on manuscript T-12297.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Contemporary hydrographic surveys had not been made in the area of this manuscript at the time of final review.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 1237, 1:80,000 scale 3rd edition June 21, 1965. The chart and manuscript T-12297 are in good agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Leo F. Beugnet  
Leo F. Beugnet

Approved by:

J. Bull  
J. Bull, CAPT  
Director, Atlantic Marine Center

Approved by:

Charles Hanner  
Chief, Cartographic Branch JAB

John A. Boyer  
Chief, Photogrammetry Division  
Marine Chart

Ralph Sobieralski  
Chief, Chart Division  
Photogrammetry 12-06-67

Chief, Operations Division

U. S. COAST AND GEODETIC SURVEY

~~TO BE DELETED~~  
TO BE CHARTED

Atlantic Marine Center

February 18, 1966

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

R. E. Smith

J. Bull, Director AtlantChief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. 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.

~~TO BE DELETED~~

**STRIKE OUT ONE**

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center

Feb. 18, 1966

I recommend that the following objects which have ~~(been)~~ 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

R. E. Smith

J. Bull, Director, Atlantic Marine	Chief of Party
Center	

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. 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.



T-12297

20

NOTES TO VERIFIER

Hydrographic surveys had not been started in the area of this manuscript at the time of final review.

The following photographs were used in the manner indicated below.

Control Identification - 62-S-1067A

Field Inspection - 62-S-860A, 1069A, 1070A

Field Edit - None

Final Review - 62-S-1067A thru 1070A

NOTE: A COMPARISON PRINT WAS SUBMITTED BY THE FINAL REVIEWER ; IT WAS DESTROYED, HOWEVER, SINCE IT CONTAINED NO INFORMATION NOT ACCOUNTED FOR IN THE REPORT.

SEB



