

T-11689

T-11689

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-11689
CLASS TL	
LOCALITY	
State	VIRGINIA
General locality	NORTHAMPTON COUNTY
Locality	FOWLING POINT TO
BUCKHORN POINT	
19.59-61	
CHIEF OF PARTY	
Elgan T. Jenkins, Field Party	
V. Ralph Sobieralski, Tampa District Office	
<del>Alfred C. Holmes, Director, AMC</del>	
LIBRARY & ARCHIVES	
DATE	JUL 1975

## DESCRIPTIVE REPORT - DATA RECORD

T -11689

PROJECT NO. (II):

PH-5907 (21021)

FIELD OFFICE (II):

Accomac, Virginia

CHIEF OF PARTY

E. T. Jenkins

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Florida

OFFICER-IN-CHARGE

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Field: October 20, 1959  
Field Amendment 1: April 26, 1960  
Office: December 28, 1960  
Office Amendment 1: August 10, 1961  
Office Amendment 2: September 29, 1961

METHOD OF COMPILATION (III):

Graphic

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

Inapplicable

DATE RECEIVED IN WASHINGTON OFFICE (IV):

OCT 9 1963

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 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 (II):

WEST POINT 2, 1910

LAT.:

37°23'55.609" (1714.4 m.)

LONG.:

75°51'36.486" (897.4 m.)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 398,630.89 FT.

X = 2,766,758.73 Ft.

STATE

Virginia

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.

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): <b>E. T. Jenkins</b>		DATE: <b>April 1961</b>
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): <b>Air photo compilation</b> <b>Date of photographs: Oct. 13, 1959</b>		
PROJECTION AND GRIDS RULED BY (IV): <b>A. Riley</b>		DATE <b>Nov. 1961</b>
PROJECTION AND GRIDS CHECKED BY (IV): <b>E. T. Jenkins</b>		DATE <b>Nov. 1961</b>
CONTROL PLOTTED BY (III): <b>W. W. Dawsey</b>		DATE <b>Dec. 1961</b>
CONTROL CHECKED BY (III): <b>R. R. Wagner</b>		DATE <b>Dec. 1961</b>
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): <b>R. R. Wagner</b>		DATE <b>Jan. 1962</b>
STEREOSCOPIC INSTRUMENT COMPILATION (III): <b>Inapplicable</b>	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): <b>R. Dossett</b> " <b>Reviewed by: W. H. Shearouse</b>		DATE <b>Feb. 1962</b> <b>Feb. 1962</b>
SCRIBING BY (III): <b>R. Dossett</b> " <b>Reviewed by: R. R. Wagner</b>		DATE <b>Mar. 1963</b> <b>Mar. 1963</b>
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): <b>W. H. Shearouse</b>		DATE <b>May 1963</b>
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):

C&amp;GS Nine-lens

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60581	10-13-59	1147	1:10,000	0.0 ft. at MLW
60582	10-13-59	1147	1:10,000	0.0 " " "
60583	10-13-59	1148	1:10,000	0.0 " " "
60563	10-13-59	1135	1:10,000	0.0 " " "

Predicted

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sandy Hook		4.6	5.6
SUBORDINATE STATION: Great Machipongo Inlet (Inside)	H.W. -0.7 L.W. 0.0	3.9	4.7
SUBORDINATE STATION:			

Atlantic Marine Center

REVIEW BY (IV):

C. H. Bishop

DATE:

Nov. 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

3

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

0

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

2

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:



COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript complete pending field edit	February 1962	Superseded
Final review	November 1973	

\* This map was not field edited

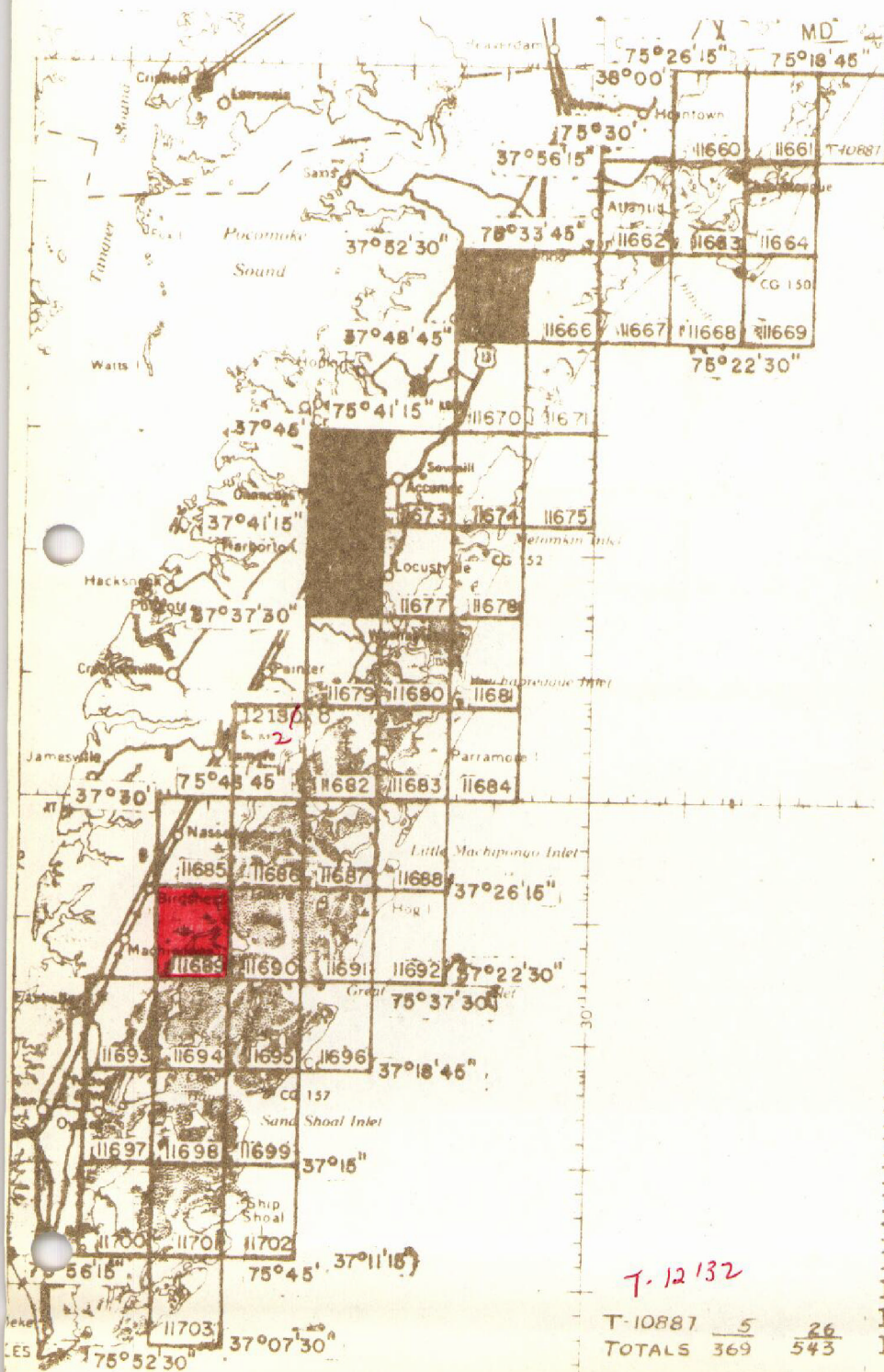


PH-5907

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## CAPE CHARLES TO ASSATEAGUE, VA

Planimetric Mapping Scale 1:10,000

OFFICIAL MILEAGE  
FOR COST ACCOUNTS

Sheet No.	Area Sq. Mi.	Lin. Mi. Shoreline
11660	6	10
11661	6	15
11662	13	19
11663	7	23
11664	8	16
<del>11665</del>	<del>17</del>	<del>0</del>
11666	16	8
11667	7	8
11668	1	1
11669	1	4
11670	16	1
11671	8	15
<del>11672</del>	<del>17</del>	<del>0</del>
11673	16	5
11674	8	16
11675	1	4
<del>11676</del>	<del>16</del>	<del>0</del>
11677	13	10
11678	8	16
11679	16	8
11680	11	32
11681	4	10
11682	8	15
11683	11	15
11684	2	3
11685	16	4
11686	4	15
11687	6	20
11688	6	15
11689	13	11
11690	4	11
11691	4	16
11692	2	3
11693	11	11
11694	6	16
11695	4	19
11696	4	9
11697	11	20
11698	6	16
11699	4	13
11700	8	16
11701	8	14
11702	4	11
11703	6	23
T-10887 5		
TOTALS 369 543		

11-9-61

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11689

This 1:10,000 scale shoreline manuscript is one of 43 maps that comprise Project PH-5907, Cape Charles to Assateague, VA. The project diagram on page 5 indicates the location of this map in the project.

Field inspection prior to compilation was done in April, 1961.

Compilation was from 9-lens photographs taken in October, 1959. Control was based on a radial plot using the 9-lens photographs. The Photogrammetric Plot Report was not available at the time of final review.

No field edit of this map was done.

Final review was done at the Atlantic Marine Center in November, 1973.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

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FIELD INSPECTION REPORT  
Maps 11689 through 11695  
PROJECT PH-5907, VIRGINIA

2. Areal Field Inspection

The mainland was inspected by riding out all roads and labelling all details, where believed necessary, that are to be mapped. All Current Instructions were followed during inspection and no phases of the work were purposely omitted for the compilers or a field editor to resolve. Not every patch of trees has been labeled nor every foot of shoreline delineated, but it is believed that sufficient work has been done to serve as a criterion for the compilers.

The quality of the photography was good and it is believed that sufficient photographic tones have been labelled to clarify any questions.

3. Horizontal Control

Hog Island Lighthouse, 1911, 1932 and Hog Island Lighthouse Old Tower 1911 have been destroyed by the erosion along the outer shore of Hog Island. One of these stations was desired to be identified for control. No new station was established in the area as there is an abandoned Coast Guard Tower that is about 1/4 miles southwest of the Old Station site. Enough theodolite cuts were taken on this tower to furnish a position of sufficient accuracy to control the radial plot.

Station GOULD, 1910 is lost and station "Shack at Rowes Hole, North East Gable, 1934" has been destroyed.

4. Vertical Control

No bench marks of third-order or higher were searched for or recovered. One tidal bench mark was recovered and identified near the southwest end of Hog Island.

5. Contours and Drainage

Contours are inapplicable

The drainage has been delineated, where deemed necessary, on the photographs.

2

## 6. Woodland Cover

Most all areas of woodland cover were inspected and it is believed that a sufficient number of areas have been labelled to serve as a criterion for the compiler.

## 7. Shoreline and Alongshore Features

Practically all of the shoreline is apparent and in some areas the horizontal position of this line is controlled by the seasonal growth of sea oats. This tall grass will form the apparent shoreline for about 8 months of the year and its outer edges have been delineated as such.

The MHWL along the ocean was measured from several photo-identifiable objects and these measurements were scaled on the field photographs to identify some line or tone or the relative position of the MHWL to some line or tone on the photographs.

The foreshore in some areas amounts to large mud flats that are very soft and will not afford footing for any type of travel at low tide.

A submerged telephone cable leads from Hog Island to Cobb Island. Its point of entry into the water on Hog Island has been identified and its approximate position in the water has been delineated.

All docks and piers have been delineated or labelled on the field photographs.

## 8. Offshore Features

Offshore features are few and have been delineated on the photographs. The mean low water line was delineated in some areas and is quite apparent in other areas.

There is an area of shifting sand at the south end of Rogue Island, the size and shape of which is controlled by the current of Great Machipongo Inlet and the wind.

## 9. Landmarks and Aids

All landmarks and fixed aids to navigation are shown on Form 567. Nearly all of the lights and daybeacons in Gull Marsh Channel, Eckichy Channel and the channel joining the two had to be located by field survey methods. Most of the aids were located by sextant fix but some were located by theodolite fix.

9. Landmarks and Aids continued

The objects used to control these fixes are all identified on a copy of chart 1222 and this chart is enclosed with the folder containing other data for map 11694.

10. Boundaries, Monuments and Lines

The only political limits to be mapped are the corporate limits of Eastville, Virginia. A tracing is being submitted with explanatory notes thereon. This tracing had to be made within the Northampton Court House from the only available record of the corporate limits. There is an abandoned Coast Guard Station on the south end of Hog Island but no boundary limits were obtained for it.

11. Other Control

The following topographic stations were established and described on Form 524: DONE, 1961; CELL, 1961; COME, 1961; HUNT, 1961; WARP, 1961; GANG, 1961.

The following topographic station is reported lost on Form 524: WAR, 1942.

The following topographic stations were recovered and identified: GOU, 1942 and FIT, 1942.

12. Other Interior Features

All roads and buildings were classified according to current instructions.

There are no bridge or cables, over navigable waters, that need to be measured.

13. Geographic Names

No systematic investigation of geographic names was conducted and no errors were found.

14. Special Reports and Supplemental Data

One copy of Nautical Chart 1222 is being submitted. This is to aid in the location of aids to navigation.

One tracing showing the approximate location of the corporate limits of Eastville, Virginia is also being submitted.

Submitted October 10, 1961

*Elgan T. Jenkins*  
Elgan T. Jenkins  
Surveying Technician

MAP T-11689 PROJECT NO. 5907 SCALE OF MAP 1:10,000 SCALE FACTOR \_\_\_\_\_

[illegible]

COMPILATION REPORT T-11689

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11688.

31. DELINEATION

Compiled graphically.

The photographs were sufficiently clear, but were tilted.

The field inspection was adequate.

32. CONTROL

See photogrammetric plot report

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The entire manuscript is marsh with a highly congested natural drainage pattern. This has been delineated as shown photographically and according to the field inspection.

35. SHORELINE AND ALONGSHORE DETAIL

The entire shoreline is apparent. The few shoreline structures indicated by the field inspector have been delineated accordingly. Exposed mud flats have been shown with the low-water line symbolization. Channels where visible have been delineated with dashed lines. The shoal and low-water lines were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None noted by field inspection.



37. LANDMARKS AND AIDS

Form 567 for one aid to navigation was submitted to Washington under date of February 21, 1962.

38. CONTROL FOR FUTURE SURVEYS

Two forms 524 for topographic stations are being submitted. These are listed under item 49.

39. JUNCTIONS

A satisfactory junction has been made with T-11685 on the north, T-11690 on the east and T-11694 on the south. There is no contemporary survey on the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with AMS quadrangle NASSAWADOX, scale 1:25,000, compiled from aerial photographs in 1942. No outstanding discrepancies were noted.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with chart No. 1222, scale 1:80,000, 19th edition, corrected to January 1, 1962. No outstanding discrepancies were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*Rudolph Dossett by*  
Rudolph Dossett  
Carto Photo Aid *R. Wagner*

APPROVED AND FORWARDED - 4 OCT 1963

*V. Ralph Sobieralski*  
V. Ralph Sobieralski  
Tampa District Officer

June 22, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5907 (Virginia)

T-11688

Atlantic Ocean  
Hog Island  
North Inlet  
Parramore Island  
Quinby Inlet  
Revel Island  
Revel Island Cove  
Sandy Island Channel  
Stringaree Point  
Stringaree Point Cove  
The Swash  
Wreck Island

Approved:

*A. J. Wraight*

A. Joseph Wraight  
Chief Geographer

Prepared by

*Frank W. Pickett*

Frank W. Pickett  
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

Following is a list of topographic stations that may be of use to the hydrographer:

CELL 1961

COME 1961

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50.		T- 11689			
1. PROJECTION AND GRIDS WHS		2. TITLE WHS		3. MANUSCRIPT NUMBERS WHS	
		4. MANUSCRIPT SIZE WHS		5. Classification <u>Unclassified</u>	
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) WHS		
	7. PHOTO HYDRO STATIONS XX	8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT MMS	
	11. DETAIL POINTS WHS				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS		13. LOW-WATER LINE WHS		14. ROCKS, SHOALS, ETC. WHS
	15. BRIDGES XX				
	16. AIDS TO NAVIGATION WHS		17. LANDMARKS XX		18. OTHER ALONGSHORE PHYSICAL FEATURES WHS
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS				
PHYSICAL FEATURES	20. WATER FEATURES WHS		21. NATURAL GROUND COVER WHS		
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES WHS				
CULTURAL FEATURES	27. ROADS WHS		28. BUILDINGS XX		29. RAILROADS XX
	30. OTHER CULTURAL FEATURES WHS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCELLANEOUS	33. GEOGRAPHIC NAMES WHS			34. JUNCTIONS WHS	
	35. LEGIBILITY OF THE MANUSCRIPT WHS		36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT WHS
	38. FIELD INSPECTION PHOTOGRAPHS WHS		39. FORMS WHS		
	SIGNATURE OF REVIEWER <i>William H. Shearouse</i>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Milton M. Slavney</i>		
	40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT-Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.				
SIGNATURE OF COMPILER			SIGNATURE OF SUPERVISOR		

## NONFLOATING AIDS TO NAVIGATION FOR CHARTS

TO BE CHARTED  
~~NOT CHARTED~~  
~~TO BE CHARTED~~

STRIKE OUT TWO

Tampa Florida

February 21 19 62

I recommend that the following objects which have ~~been inspected~~ been inspected from seaward to determine their value as landmarks be charted on (~~charts~~) the charts indicated.

The positions given have been checked after listing by *Robert R. Wagner*

Robert R. Wagner

V. Ralph Sobieralski Chief of Party

STATE VIRGINIA				POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*		DATUM									
			° ' "	D.M. METERS	° ' "	D.P. METERS										
	VIRGINIA INSIDE PASSAGE															
	LITTLE MACHIPONGO CHANNEL TO GREAT MACHIPONGO CHANNEL															
LT. 2	GREAT MACHIPONGO CHANNEL		37 25	20.92 64.5	75 45	35.14 864	N.A. 1927			T-11690 Radial Plot	5/3/61	X			1221 1222	
DAYBN 1	" "		37 24	24.65 760	75 45	40.94 1007	"			"	4/9/61	X			"	
DAYBN	GREAT MACHIPONGO CHANNEL JUNCTION		37 23	50.73 1564	75 45	21.02 517	"			"	6/5/61	X			"	
LIGHT	THE DEEPS (The Deeps Black Beacon 1934)		37 23	52.069 1605.2	75 45	52.139 1282.5	"			Trian Radial Plot	8/25/61	X			"	
LIGHT	GULL MARSH JUNCTION GREAT MACHIPONGO CHANNEL TO SAND SHOAL CHANNEL	T11690 LA-41 3/30/62	37 22	48.00 1587 1607	75 45	48.00 1171	"				"	X			"	
DAYBN 1			37 22	32.18 992	75 45	46.17 1136	"			"	"	X			"	
DAYBN 3		11-27-62 1627 01	37 22	49.53 1527	75 46	12.03 296	"			"	"	X			"	
DAYBN 4			37 23	07.43 229	75 46	52.92 1302	"			"	"	X			"	
LT. 6			37 23	10.38 320	75 47	26.71 657	"			"	"	X			"	
	GREAT MACHIPONGO INLET															
LIGHT	RAMSHORN CHANNEL		37 23	25.04 772	75 51	17.64 434	"			Rad. Plot T-11689	Apr. 1961	X			1222	

\* Date of month not available

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. 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-11689

## SHORELINE

November 19, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, showing differences noted in Par. 62 and 63, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey T-8174, 1:20,000 scale, dated 1943. Significant differences were shown in blue on the comparison print.

T-11689 supersedes previous topographic surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with AMS SHEET 5858 IV NE, NASSAWADOX, VA, scale 1:25,000, dated 1947. This map is a copy of T-8174. Differences are the same and are shown on the comparison print with the same blue line.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic surveys were available for comparison.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 1222, scale 1:80,000, 36th edition, dated June 30, 1973. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The Photogrammetric Plot Report, which usually states the accuracy of control used for compilation, was not available for final review and no accuracy statement was made in the Compilation Report. However, there is no reason to believe that accuracy is substandard.

Reviewed by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer

Approved for forwarding:

*Jeff Carlen*

Jeffrey G. Carlen, CDR, NOAA  
Chief, Coastal Mapping Division, AMC

Approved:

*Alfred C. Holmes*

Alfred C. Holmes, RADM, NOAA  
Director, Atlantic Marine Center

Approved:

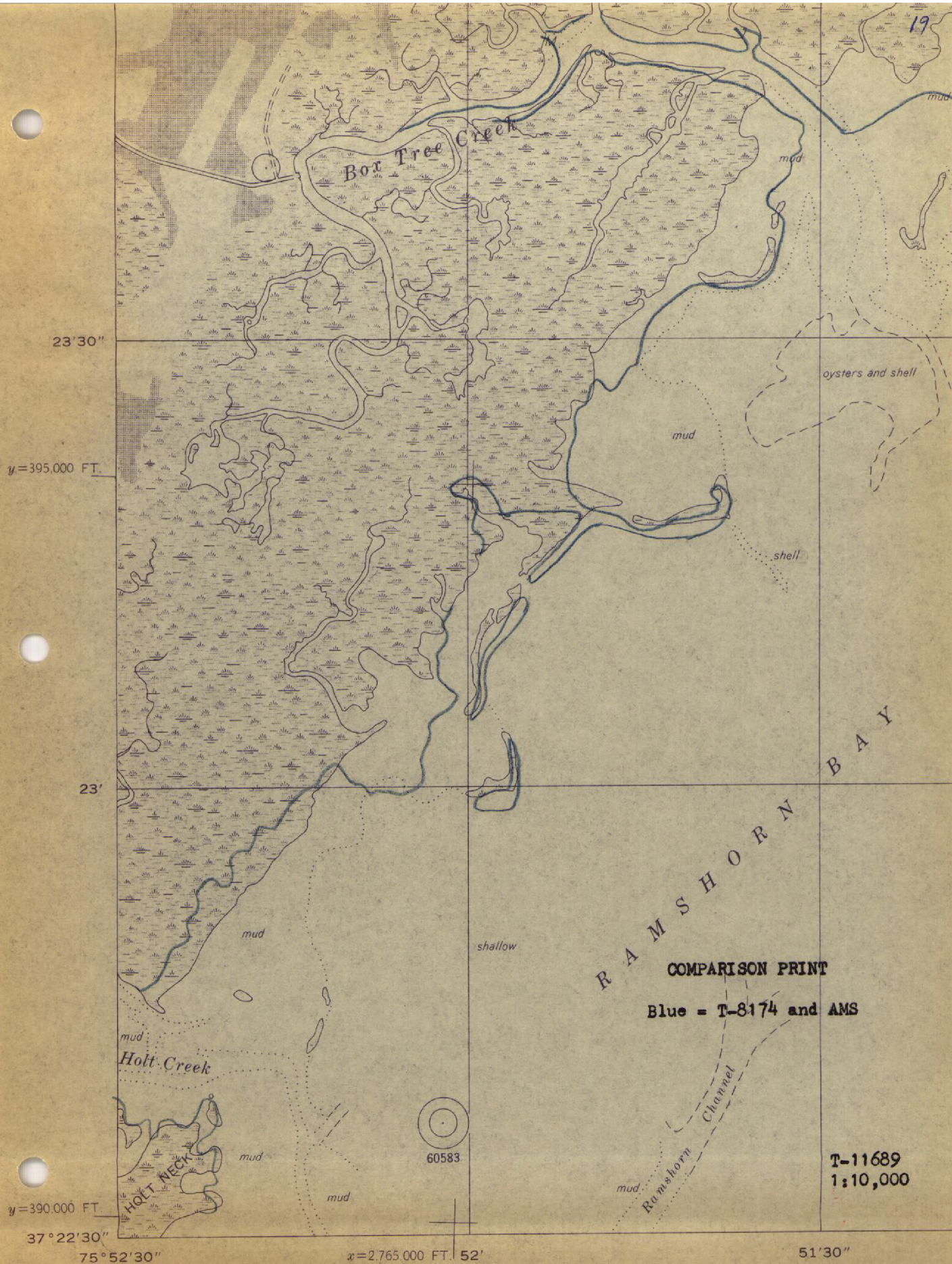
*D. H. Hargrove*

Chief, Photogrammetric Branch

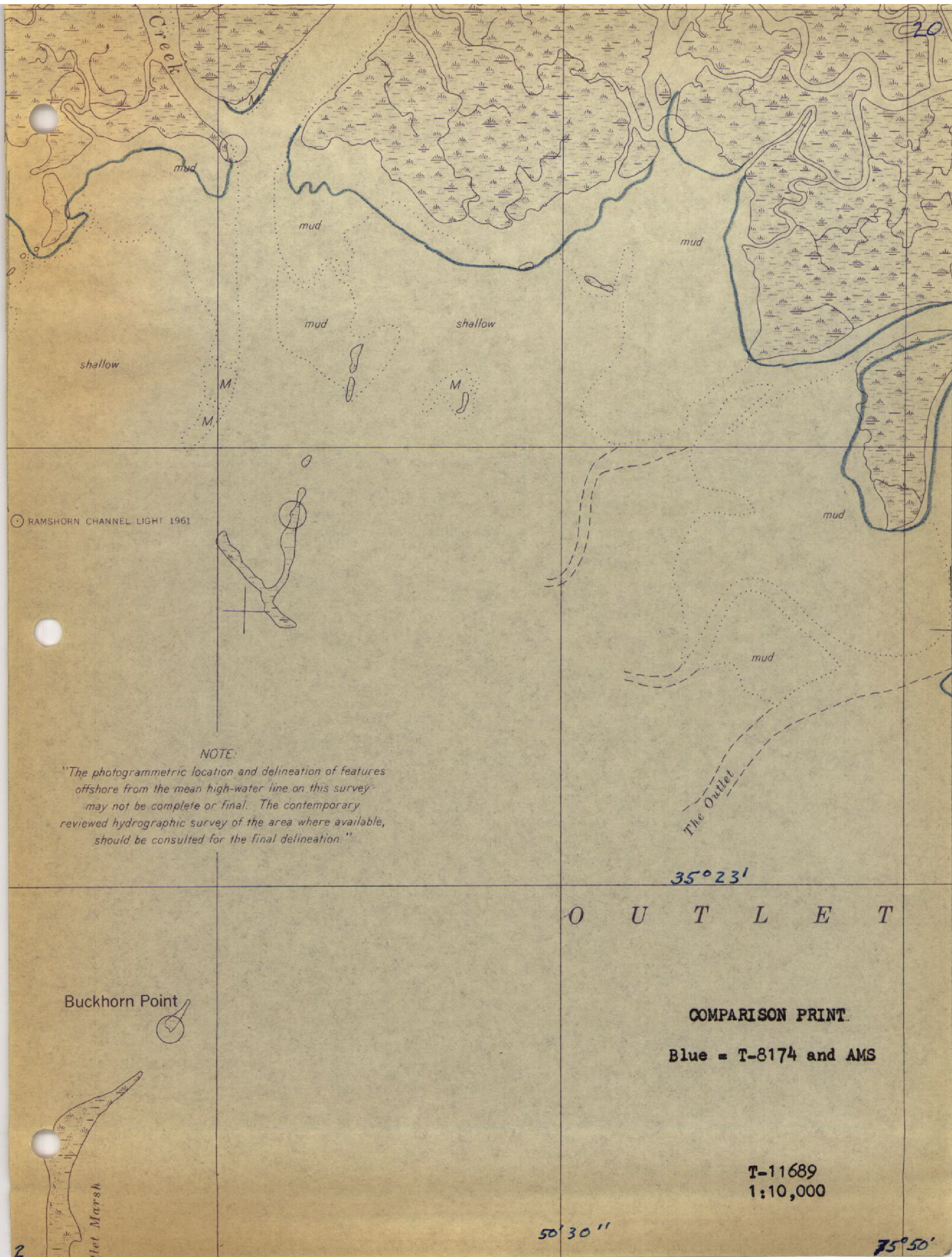
*James Allen*

Chief, Coastal Mapping Division













23'30"

y=395,000 FT.

60563

23'

B A Y

COMPARISON PRINT

Blue - T-8174 and AMS

T-11689  
1:10,000

37°22'30"

2,775,000 FT.

49'30"

49'

x=2,780,000 FT.

75°48'45"