

T-11690

T-11690

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-11690
CLASS II & III (refer to page 6)	
LOCALITY	
State	VIRGINIA
General locality	NORTHAMPTON COUNTY
Locality	GULL MARSH CHANNEL
1959-62	
CHIEF OF PARTY	
Elgan T. Jenkins, Field Party	
V. Ralph Sobieralski, Tampa District Office	
Alfred G. Holmes, Director, AMO	
LIBRARY & ARCHIVES	
DATE	JUL 1975

DESCRIPTIVE REPORT - DATA RECORD

T -11690

PROJECT NO. (II):

Ph-5907 (21021)

FIELD OFFICE (II):

Accomac, Virginia

CHIEF OF PARTY

Elgan T. Jenkins

PHOTOGRAMMETRIC OFFICE (III):

Tampa District Office

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 (III):

DEEP 1933

LAT.:

37°23'56.713" (1748.4m.)

LONG.:

75°47'52.164" (1283.0m.)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 399,254.57 Ft.

X = 2,784,849.32 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): E. T. Jenkins		DATE: April 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photographs: October 1959 and April 1962		
PROJECTION AND GRIDS RULED BY (IV): A. Riley		DATE Nov. 1961
PROJECTION AND GRIDS CHECKED BY (IV): E. T. Jenkins		DATE Nov. 1961
CONTROL PLOTTED BY (III): W. W. Dawsey		DATE Dec. 1961
CONTROL CHECKED BY (III): R. R. Wagner		DATE Dec. 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. R. Wagner		DATE Jan. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III): Inapplicable	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III) R. R. Wagner " Reviewed by: W. H. Shearouse		DATE Feb. 1962 Feb. 1962
SCRIBING BY (III): R. D. Purvis " Reviewed by: W. H. Shearouse		DATE Mar. 1963 Mar. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse		DATE May 1963
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&GS Nine -lens and Wild W Single-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60564	10-13-59	1136	1:10,000	0.0 ft. above MLW
60565	10-13-59	1136	"	0.0 " "
62-W-4025	4-28-62	1327	"	2.9 " "
62-W-4026	4-28-62	1328	"	2.9 " "

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
WASH DC REVIEW BY (IV):

C. H. Bishop

DATE:

Nov. 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

2

RECOVERED:

2

IDENTIFIED:

2

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

None

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

2

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation complete	Feb. 1962	Superseded
Shoreline revised from April 1962 photos. Manuscript complete pending field edit.	July 1962	Superseded
Final review	Nov. 1973	

* Class II (Not field edited)

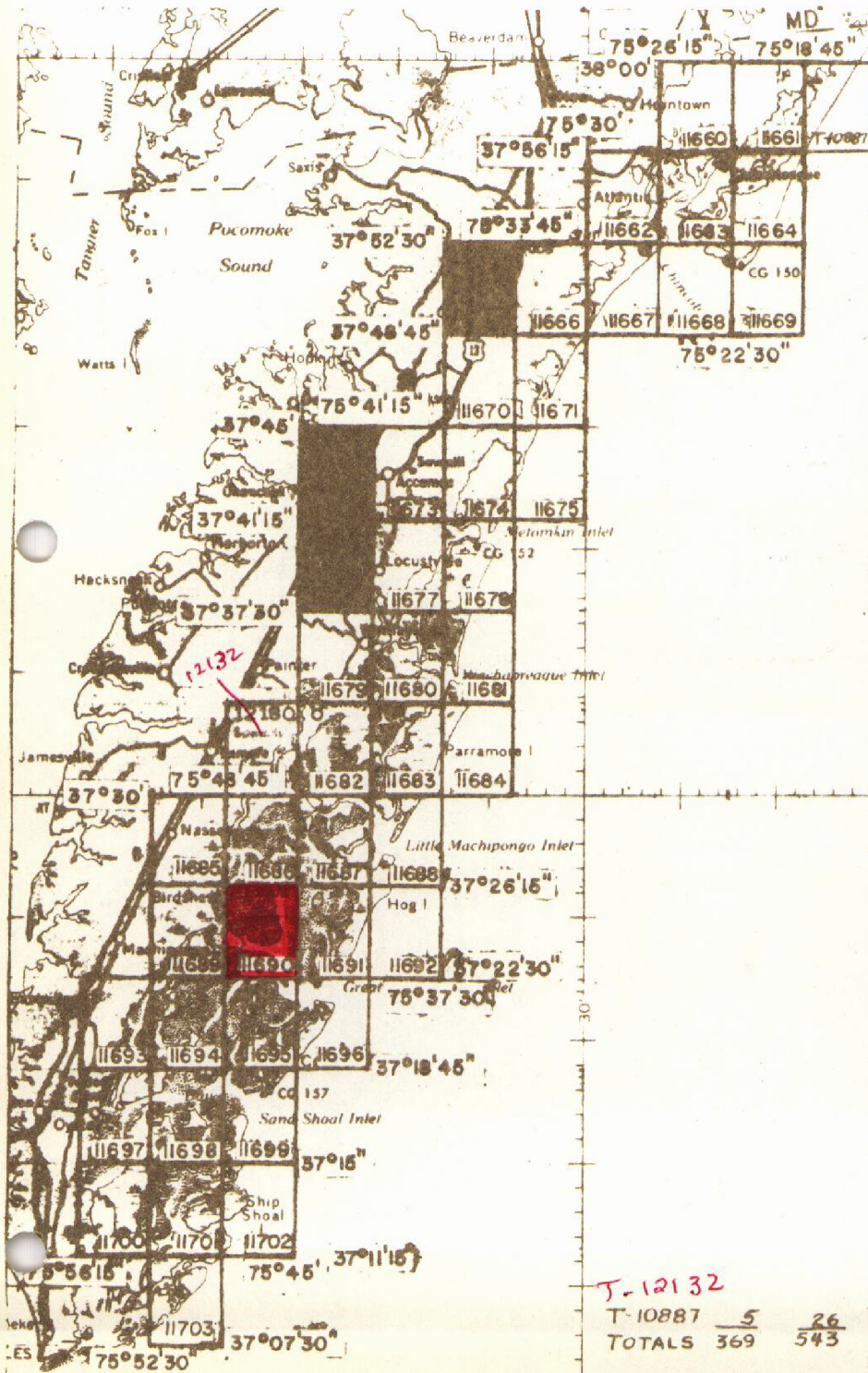
PH-5907

5

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
11665	17	9
11666	16	8
11667	7	8
11668	1	1
11669	1	4
11670	16	1
11671	8	15
11672	17	9
11673	16	5
11674	8	16
11675	1	4
11676	16	9
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-12132

T-10887 5

TOTALS 369 543

11-9-61

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11690

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.

Original compilation was from 9-lens photographs taken in October, 1959. Control was based on a radial plot using the 9-lens photographs. Compilation was later revised to the extent of coverage of single lens photographs taken in April 1962, after the March 1962 hurricane. 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.

* The registered map copy was labeled Class II.
The extent of the revision with 1962 photography is unknown. JB

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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

SCALE FACTOR

[illegible]

COMPILATION REPORT T-11690

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11688.

31. DELINEATION

The graphic method was used.

The nine-lens photographs were of poor scale.

Single-lens photographs taken April 28, 1962 were used to revise the marsh shoreline to the limits of their coverage.

Field inspection was satisfactory.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was shown as photographically interpreted.

35. SHORELINE AND ALONGSHORE DETAIL

There is no mean high-water line, the land area being entirely marsh.

The low-water line around oyster bars and the shoal lines are from office interpretation of the photographs.

36. OFFSHORE DETAILS

None other than oyster bars and shoals.

37. LANDMARKS AND AIDS

There are no landmarks.

Form 567 for the aids to navigation was submitted to the Washington Office under date of February 21, 1962.

38. CONTROL FOR FUTURE SURVEYS

Two forms 524 are submitted with the data for this sheet and are listed under item 49.

39. JUNCTIONS

Junctions were made with T-11686 to the north, T-11689 to the west, T-11691 to the east and T-11695 to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with AMS quadrangle NASSAWADOX, scale 1:25,000, dated 1947. The two are in good agreement except for three small ^{marsh} islands at approximate latitude $37^{\circ}24.4'$, longitude $75^{\circ}47.5'$ which have apparently washed away since the quadrangle was mapped.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS chart 1221, scale 1:80,000, dated March 12, 1962.


The map listed under item 46 appears to be the source of topography and the same differences are to be found.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY


None.

ITEMS TO BE CARRIED FORWARD

None.


Robert R. Wagner
Cartographer (Photo)

Approved and Forwarded - 4 OCT 1963


V. Ralph Sobieralski
Tampa District Officer

June 22, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5907 (Virginia)

T-11690

Great Machipongo Channel
Gull Marsh
Gull Marsh Channel
Hog Island Bay
Long Prong
Outlet Bay
Short Prong
Short Prong Marsh
The Deepes

Approved:

A. J. Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

T-11690

49. NOTES FOR THE HYDROGRAPHER

The following topographic stations were located:

HIND 1961
DONE 1961

FORM 182 (9-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50.		T-11690			
1. PROJECTION AND GRIDS WHS		2. TITLE WHS		3. MANUSCRIPT NUMBERS WHS	
		4a. Classification Unclassified		4. MANUSCRIPT SIZE WHS	
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 XX	28. BUILDINGS XX	29. RAILROADS XX		
	30. OTHER CULTURAL FEATURES WHS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCEL- LANEOUS	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 William H. Shearouse		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT Milton M. Slavney by WHS.		
	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		

Nautical Chart Branch

U.S. DEPARTMENT OF COMMERCE
COAST & GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE CHARTED~~
~~TO BE CHARTED~~ } STRIKE OUT TWO

February 21, 19 62

Tampa Florida

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. Elph Sobieralski Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*		DATUM						
				° ' "	D. M. METERS	° ' "	D. P. METERS							
		VIRGINIA INSIDE PASSAGE		37 25	20.92 645	75 45	35.14 864	N.A. 1927	5/3/61	X			1221 1222	
		LITTLE MACHIPONGO CHANNEL TO GREAT MACHIPONGO CHANNEL		37 24	24.65 760	75 45	140.94 1007	"						
	LT. 2	GREAT MACHIPONGO CHANNEL		37 23	50.73 1564	75 45	21.02 517	"	T-11690 Radial Plot					
	DAYEN 1	"		37 23	52.069 1605.2	75 45	52.139 1282.5	"	"				"	
	DAYEN	GREAT MACHIPONGO CHANNEL JUNCTION		37 23	18.88 5507	75 45	148.00 1171	"	Triang Radial Plot				"	
	LIGHT	THE DEEPS (The Deeps Black Beacon 1934)	T11690	37 22	32.18 992	75 45	146.17 1136	"					"	
	LIGHT	GULL MARSH JUNCTION	LA41 3/30/62		49.53 1527	75 46	12.03 296	"					"	
	DAYEN 1	GREAT MACHIPONGO CHANNEL TO SAND SHOAL CHANNEL	11-27-62 1627 m	37 22	07.43 229	75 46	52.92 1302	"					"	
	DAYEN 3			37 23	10.28 320	75 47	26.71 657	"					"	
	DAYEN 4							"					"	
	LT. 6	GREAT MACHIPONGO INLET		37 23	25.04 772	75 51	17.64 434	"					"	
	LIGHT	RAYSHORN CHANNEL		37 23					Rad. Plot T-11689				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

Cons. 106. 4/4/62

REVIEW REPORT T-11690

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-11690 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, 1:80,000 scale, 36th edition, dated June 30, 1973. No significant shoreline differences were noted. Names and numbers of fixed aids to navigation have been changed and some have been added. They are shown on T-11690 as they existed at the time of field inspection in April, 1961.

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:

J. G. 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:

W. H. Boyd

Chief, Photogrammetric Branch

J. H. Bishop

Chief, Coastal Mapping Division

75° 48'

COMPARISON PRINT

Blue = T-8174 and AMS

37°25'

37 25'

y=405,000 FT.

24'30"

y=400,000 FT.

24'

DOONE 1961

60564

Long Prong

S H O R T P R O N G

Harbor Gut

M A R S H

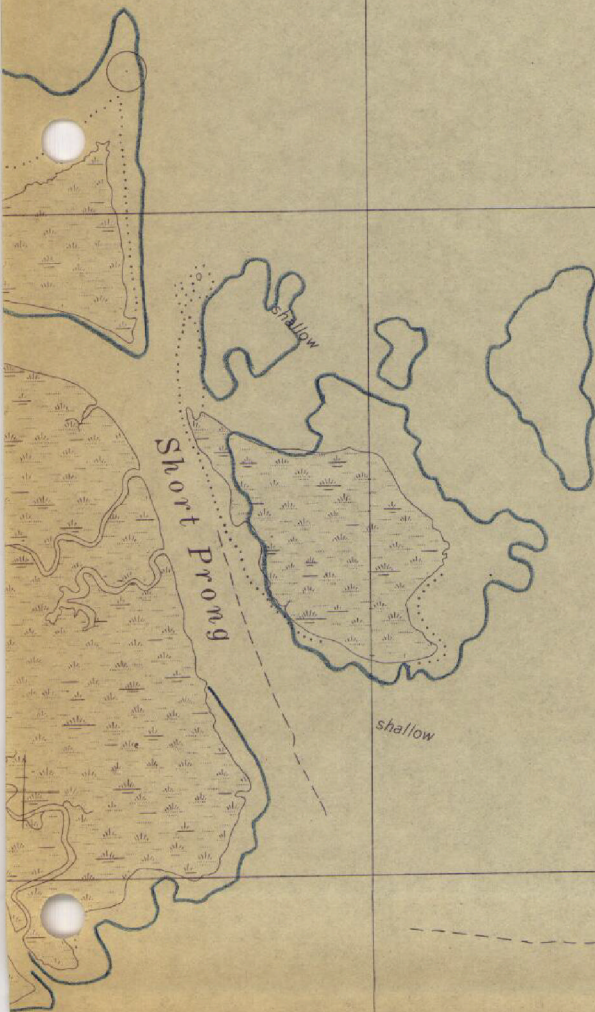
T-11690
1:10,000

DEEP 1933

75°47'

20

37°25'



oysters

oys

24'30"

oysters

COMPARISON PRINT

Blue = T-8174 and AMS



62-W-4026

T-11690

1:10,000

oys

shallow

23'30"

IND. 1961

oysters

COMPARISON PRINT

Blue = T-8174 and AMS

y=395,000 FT.

23'

O U T L E T B A Y

shallow

shallow

shallow

oysters

37°22'30"

75°48'45"

48'30"

48'

x=2,785,000 FT.

INDEX TO ADJOINING SHEETS
PROJECT-5907

37°30'	T-12130	T-11682	T-11683	T-11684
T-11242	T-11685	T-11686	T-11687	T-11688

T-11690
1:10,000

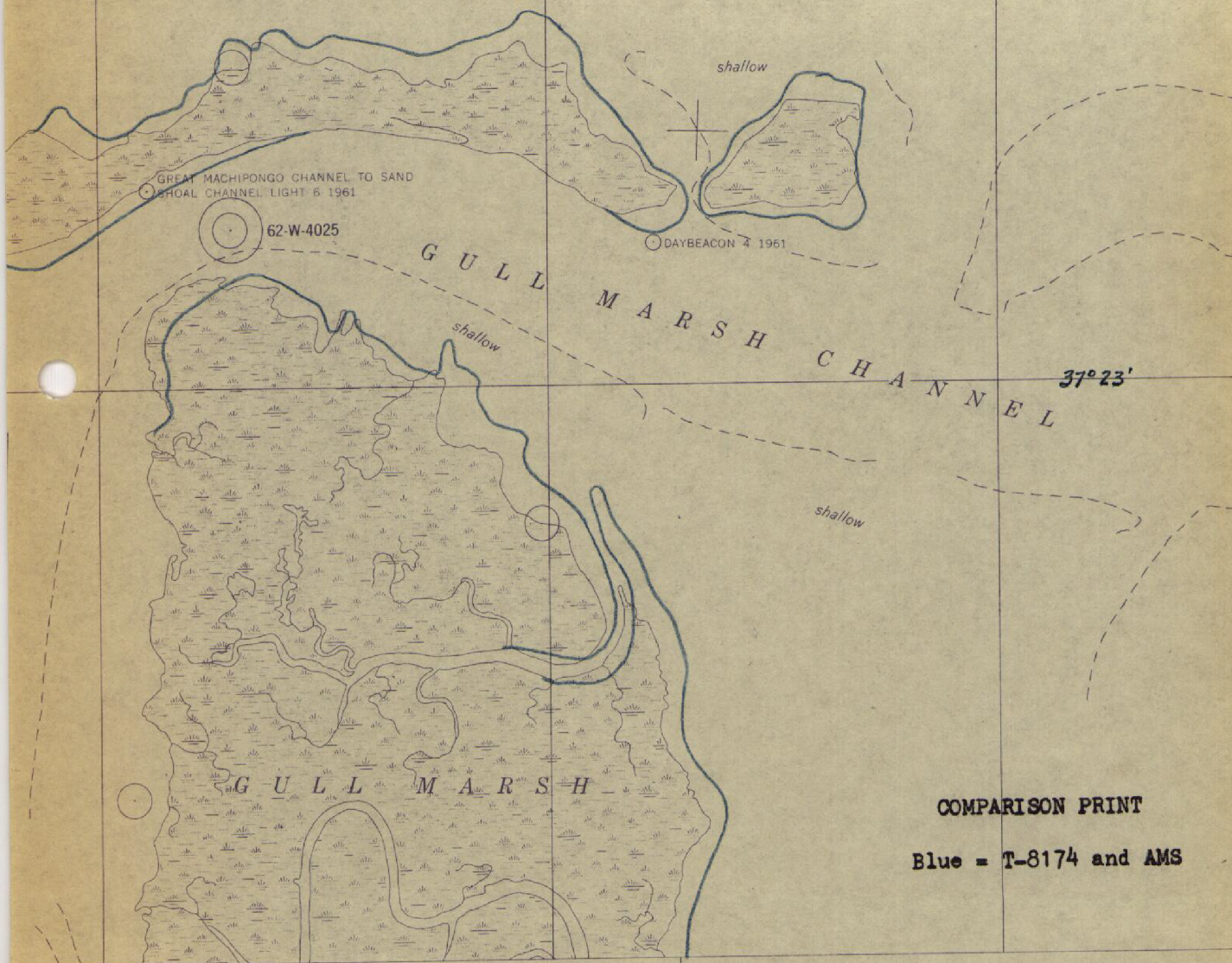
Class II Map

This map is based on aeri

"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

22

23'30"



COMPARISON PRINT

Blue = T-8174 and AMS

47'30"

75°47'

x=2,790,000 FT.

46'30"

NOTE: Unlabeled circles are photogrammetric plot points; not map features

T-11690
1:10,000

LEGEND

Marsh

△ Recon
○ Recon
..... Appr
The
appr
Comp
Data