

T-11695

T-11695

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

Type of Survey ..... SHORELINE .....

Job No. .... PH-5907 .... Map No. .... T-11695 .....

Classification No. II &amp; III Edition No. ....

(refer to page 6)

## LOCALITY

State ..... VIRGINIA .....

General Locality ..... NORTHAMPTON COUNTY .....

Locality ..... BIG EASTER MARSH .....

1959 TO 1962

## REGISTRY IN ARCHIVES

DATE ..... JUL 1975 .....

T-11695

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T-11695

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	Feb. 1962	Superseded
Shoreline revised from photographs taken in April 1962	July 1962	Superseded *
Final review Dec. 1973		

\* This map was not field edited

MISSILE

1-3

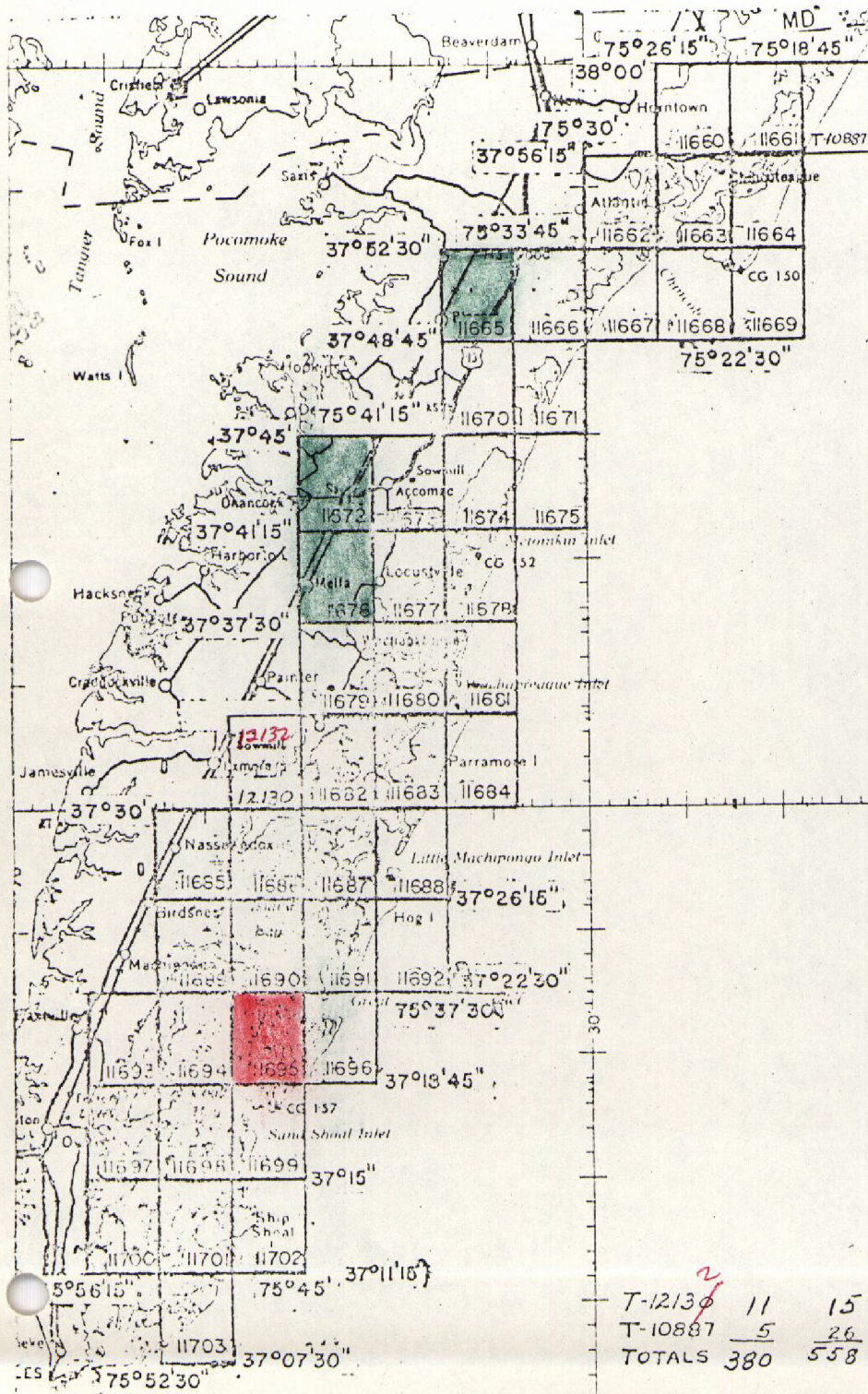
9-11-95

SB

# 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	0
11666	16	8
11667	7	8
11668	1	1
11669	1	4
11670	16	1
11671	8	15
11672	17	0
11673	16	5
11674	8	16
11675	1	4
11676	16	0
11677	13	10
11678	8	16
11679	16	8
11680	11	32
11681	1	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	1	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	11
11702	4	11
11703	6	23

T-1213 11 15  
T-10887 5 26  
TOTALS 380 558

3-22-62

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11695

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 indicates the location of the map in the project.

When received for final review, no descriptive report was included with the map. The only records available were in the lower margin of the manuscript. Therefore, much of the data that is ordinarily included in a descriptive report is missing from the descriptive report for T-11695.

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

Compilation was from 9-lens photographs taken in October, 1959. Control was based on a radial plot using the 9-lens photographs. Shoreline on the west side of Cobb Island was revised from ratio prints of photographs taken in April 1962, after the March 1962 hurricane. The Atlantic Ocean shoreline was mapped without field inspection, as the hurricane voided field inspection of this shoreline that was done in September, 1961.

No field edit of this map was accomplished.

Final review was done at the Atlantic Marine Center in December, 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 were 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.

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## 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.

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3

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

June 22, 1972

GEOGRAPHIC NAMES

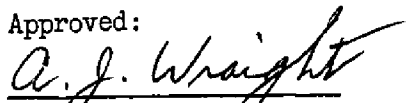
FINAL NAME SHEET

PH-5907 (Virginia)

T-11695

Atlantic Ocean  
Big Easter Marsh  
Black Perch Creek  
Cobb Bay  
Cobb Island  
Gull Marsh  
Hog Island Bay  
Little Easter Marsh  
Loon Channel  
Miffigy Channel  
Outlet Bay  
Parchaby Tump  
Rowes Hole Channel  
South Creek  
Spidercrab Bay

Approved:



A. Joseph Wraight  
Chief Geographer

Prepared by:



Frank W. Pickett  
Cartographic Technician

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE CHARTERED  
TO BE CHARTERED

Tampa District Office February 5, 1962

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

**The positions given have been checked after listing by**

**R. Dossett**

**V. R. Sobleralski** *Chief of Party.*

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	METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED						
			D. M.	P. METERS	D. M.	P. METERS														
	VIRGINIA INSIDE PASSAGE																			
DAYBN 8	GREAT MACHIPONGO CHANNEL TO SAND SHOAL CHANNEL.		37 22	19.98	75 47	55.19	N.A.	Plot	8/25										1221	
LIGHT 9	" "		37 22	01.80	75 48	06.10	"	"	"										1222	
DAYBN 11	" "		37 21	55.63	75 48	25.36	"	"	"										"	
LIGHT 12	" "		37 21	17.15	75 48	26.66	"	"	"										"	
DAYBN 13	" "		37 21	27.70	75 48	51.77	"	"	"										"	
LIGHT 14	" "		37 21	28.32	75 48	52.74	"	"	"										"	
DAYBN 15	" "		37 21	02.24	75 49	15.85	"	"	"										"	
LIGHT 16	" "		37 21	02.85	75 49	16.94	"	"	"										"	
DAYBN 17	" "		37 20	50.47	75 49	25.47	"	"	"										"	
LIGHT 18	" "		37 20	29.88	75 49	30.88	"	"	"										"	
DAYBN 19	" "		37 20	05.06	75 49	43.67	"	"	"										"	
DAYBN 21	" "		37 19	29.88	75 50	18.56	"	"	"										"	
LIGHT 23	" "		37 19	14.82	75 50	14.21	"	"	"										"	

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

Concord 100

\* These positions do not agree with charted positions in  
The aids were not moved on 1771 per instr. from LVO

## REVIEW REPORT T-11695

## SHORELINE

December 5, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

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

Map sources used in Par. 62 and Par. 63 were compared with each other. No differences were found to exist between the two maps.

On the east side of Cobb Island, the Atlantic Ocean shoreline, which was left off the manuscript by the compiler, was added by the final reviewer from office interpretation of Photos 62 W 3932 and 3933.

T-11695 supersedes previous topographic surveys for nautical chart construction purposes.

62. COMPARISON WITH REGISTERED SURVEYS

A comparison was made with Survey T-8178, 1:20,000 scale, dated 1942. Numerous differences in shoreline were shown in blue on the comparison print.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS Quadrangle COBB ISLAND, VA, 1:24,000 scale, dated 1942. Differences noted were the same as noted on T-8178 and were 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. Fixed aids to navigation are shown on T-11694 as they existed on the date of field inspection. Numbers and names of the aids have been changed.

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:

*Jeffrey 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:

*Robert R. Ryznar*

Chief, Photogrammetric Branch

*James A. Allen*

Chief, Coastal Mapping Division

=2,785,000 FT.

47°30'

75°47'

x=2,790,000 FT.

46

14

AT MACHIPONGO CHANNEL TO  
D SHOAL CHANNEL DAYBN 8 1961

shallow

U T L E T B A Y



62-W-4024

oyster

shallow

37°22'

H

S

R

A

M

oyster bed

COMPARISON PRINT

Blue = T-8178 & USGS

21°30'

oyster shells

T-11695  
1:10,000

oyster shells

30"

75°46'

x=2,795,000 FT.

45'30"

15

bed

COMPARISON PRINT

Blue = T-8178 & USGS

shallow

60543

shallow

37°22'

shallow

Parchaby Tump

62-W-3903

H O G I S L A N D

B A Y

62-W-39

21'30"

oyster shells

oyster

shallow

T-11695  
1:10,000

SPIDER C

48°30"

75°48'

20'30"

COMPARISON PRINT

Blue = T-8178 & USGS

Black Perch Cr

62-W-4022

37°20'

y=375,000 FT.

South Creek

oyster shells

oyster shells

oyster shells

oyster shells

Mittig Channel

C O B B B A Y

19'30"

oyster shells

T-11695  
1:10,000

75°41'

46°30"

17

37°21'

COMPARISON PRINT

Blue = T-8178 & USGS

GOU (1942) 1960

60544

20°30"

mud

mud

mud

oyster shells

62-W-3921

62-W-3901

BIG EASTER MARSH

T-11695  
1:10,000

oyster shells

oyster shells

oyster shells

Rowes Hole Channel

21'

y=380.000 FT.

shallow

Oys

20'30"

COMPARISON PRINT

Blue - T-8178 & USGS

75°45'

62-W 3933

Little Easter Marsh

37°20'

y=375.000 FT.

T-11695  
1:10,000

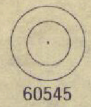
"The photogrammetric loca  
offshore from the mean h  
may not be complete o  
reviewed hydrographic sur  
should be consulted

19'30"

COMPARISON PRINT

Blue - T-8178 & USGS

shallow



60545

62-W-3952



37°19'

shallow

37°18'45"

47'30"

1547' x 2,790,000 FT.

46'30"

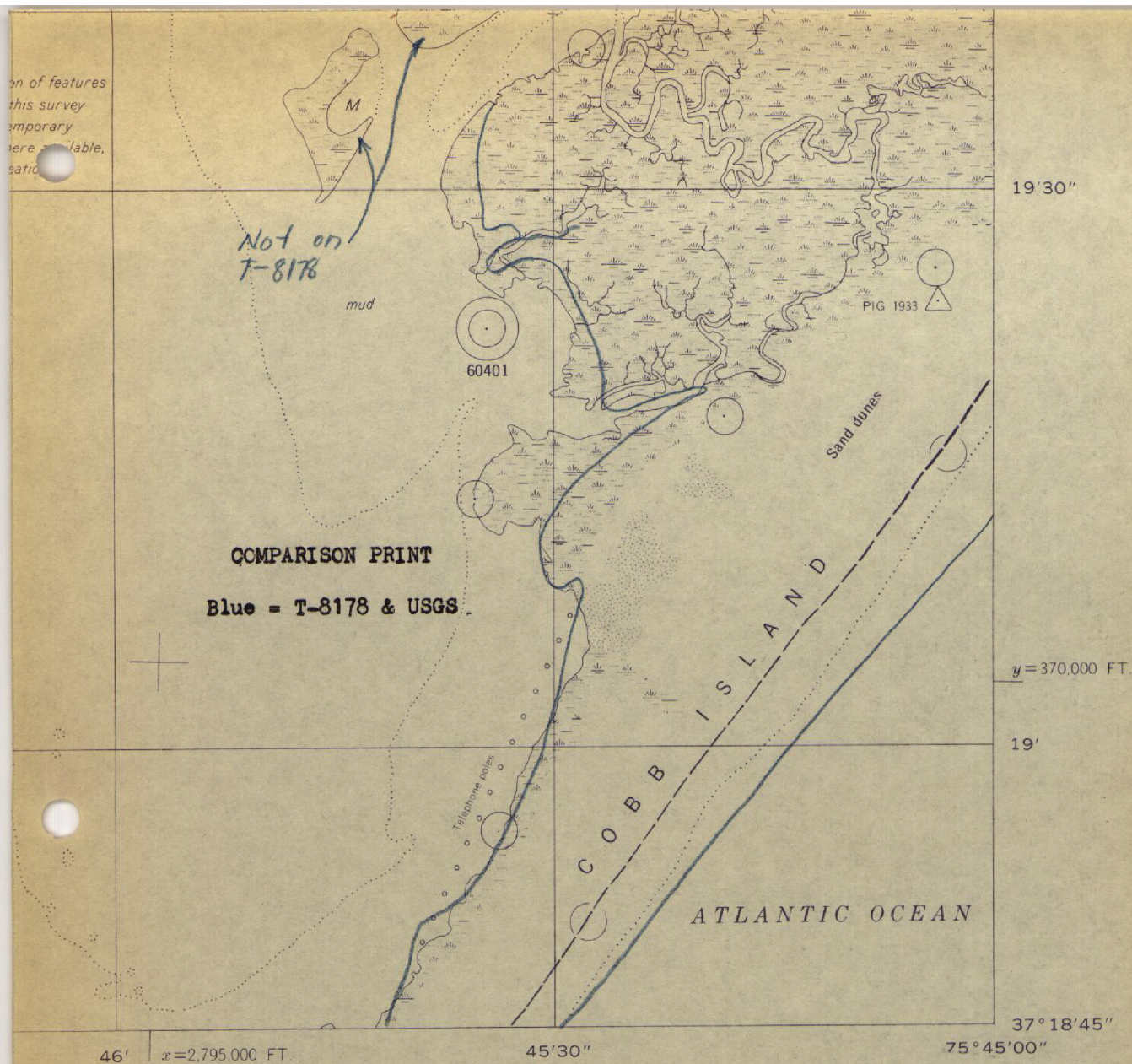
- △ Recoverable horizontal control station of third-order or higher accuracy
- Recoverable horizontal control station of less than third-order accuracy
- ..... Approximate mean low water line
- The light shoreline defines the outer limits of vegetation visible above approximate mean high water.
- The heavy shoreline defines the approximate mean high water.
- Compiled by photogrammetric methods, from aerial photographs

Date of Photography Oct. 1959 April 1962  
Date of Field Inspection Sept. 1961  
Date of Field Edit None  
Date of Final Compilation July 1962  
Date of Final Review Dec. 1973

T-11695  
1:10,000

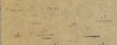
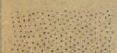
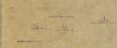
reline, which is Class III  
ets the  
accuracy and  
ng photog-  
nd  
were

on of features  
this survey  
emporary  
ere available,  
eatic



unlabeled circles are photogrammetric  
ts; not map features

# LEGEND

-  Marsh
-  Sand
-  Grass in water

## U. S. COAST AND GEODETIC SURVEY SHORELINE MANUSCRIPT

T-11695

VIRGINIA

NORTHAMPTON COUNTY

## BIG EASTER MARSH

SCALE 1:10,000

(1 inch = 833.33 ft.)

CONTROL DATA

Polyconic projection: 1927 North American Datum

5,000 foot grid based on Virginia (South Zone) plane coordinate system

Datum plane: Mean High Water