

T-11683

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T-11683

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-11683
CLASS II & CLASS III	
LOCALITY (refer to page 6)	
State	VIRGINIA
General locality	ACCOMACK COUNTY
Locality	DRAWING CHANNEL TO THE SWASH
1959-62	
CHIEF OF PARTY	
Elgan T. Jenkins, Chief of Field Party	
V. Ralph Sobieralski, Tampa District Office	
Alfred C. Holmes, Director, AMC	
LIBRARY & ARCHIVES	
DATE	1 JUL 1975

DESCRIPTIVE REPORT - DATA RECORD

T - 11683

PROJECT NO. (II):

PH-5907

FIELD OFFICE (II):

Accomac, Virginia

CHIEF OF PARTY

Elgan 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):

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):

DRAW 2, 1959

LAT.:

37°31'54.3131" (1674.4m.)

LONG.:

75°39'36.1927" (888.6m.)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

= 448,711.28 Ft.

x = 2,823,399.97 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 (III): Elgan T. Jenkins		DATE: April, 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo compilation Date of photography: October 13, 1959 and April 28, 1962		
PROJECTION AND GRIDS RULED BY (IV): A. Riley		DATE Feb. 1962
PROJECTION AND GRIDS CHECKED BY (IV): A. Riley		DATE Mar. 1962
CONTROL PLOTTED BY (III): R. R. Wagner		DATE Mar. 1962
CONTROL CHECKED BY (III): V. P. Cackowski		DATE Mar. 1962
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. R. Wagner		DATE June 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III): Inapplicable	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): R. Dossett Revised by W. H. Shearouse		DATE Dec. 1962
SCRIBING BY (III): W. H. Shearouse		DATE Apr. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
REMARKS:		

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation complete pending field edit	July 1962	Superseded
Final review	Nov. 1973	

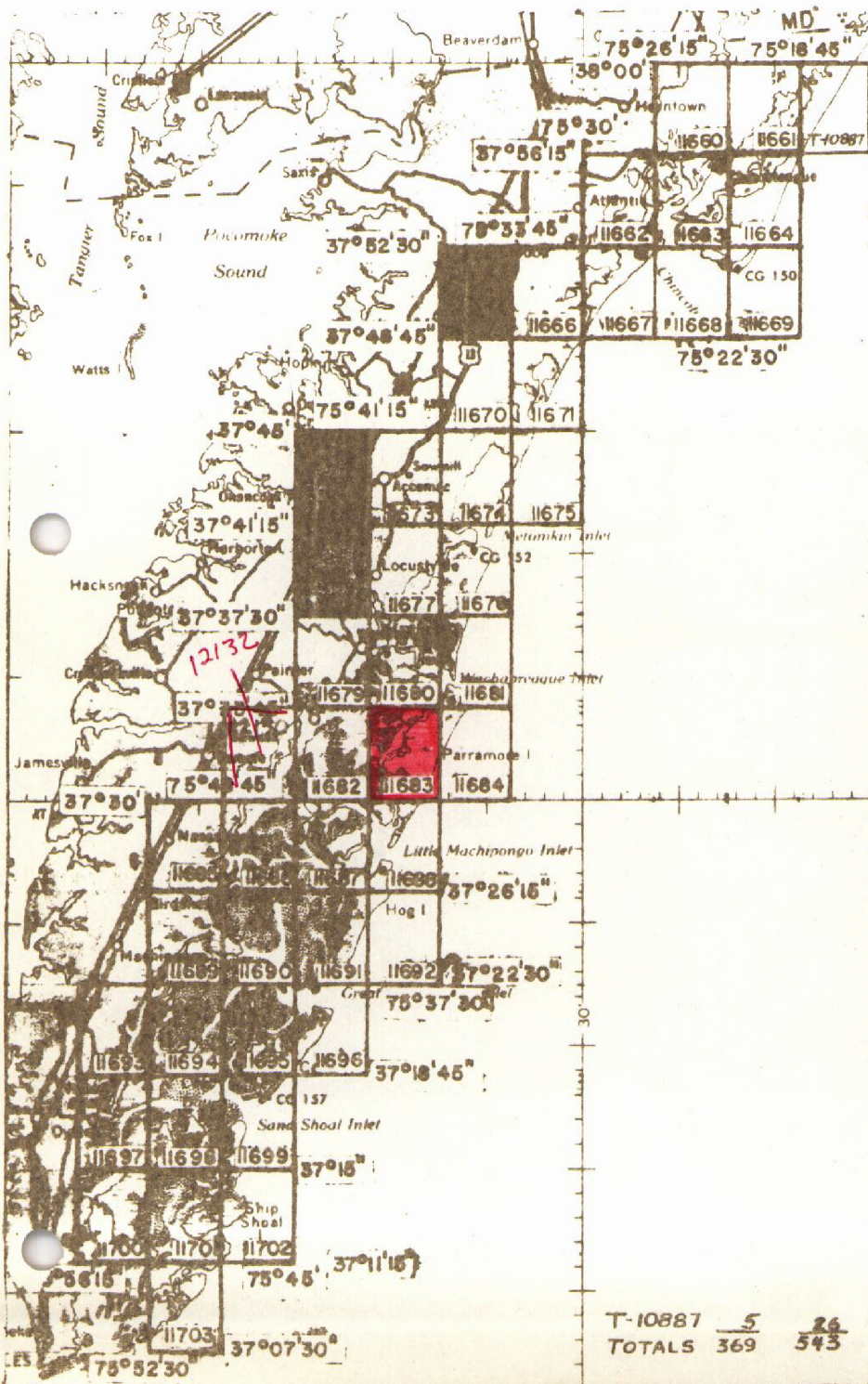
PH-5907

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	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	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 26
TOTALS 369 543

11-9-61

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11683

This 1:10,000 scale shoreline manuscript is one of 43 maps that comprise Project PH-5907, Cape Charles to Assateague, Virginia. 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 on October 13, 1959, and single lens photographs taken in April, 1962, after the hurricane which occurred in March, 1962. 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 and is not bound with this Descriptive Report. The field inspection of April, 1961, was used for compilation of all of the map except the Atlantic Ocean shoreline, which was radically changed by the hurricane. See Compilation Report, Par. 31. All of this map is classified as Class II except the Atlantic Ocean shoreline, which is Class III.

Field edit of this map was not accomplished.

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
FOR MAPS 11682 THROUGH 11688
PROJECT 5907, VIRGINIA

2. AREAL FIELD INSPECTION-

The area covered by the seven maps, with the exception of map 11685, is composed mostly of mud flats that are bare or nearly so at mean low water. This mud area is very soft and will not afford footing for any type of travel at low water. Some of these mud areas have insufficient water, even at high tide, to support skiffs drawing more than two feet of water.

At high water these areas are large shallow areas of water that can become very choppy with strong winds. There are scattered shell piles throughout the areas that makes small boat travel very hazardous to anyone crossing these areas at high water.

The outer shore of Hog and Parramore Islands is sand that held its position well during hurricane Donna of September, 1960. Numerous measurements were made from fixed objects to the present shoreline to determine the shoreline delineation on the photographs.

The quality of the photography is good. Most single pile structures can be identified on the nine lens photographs. It is believed that enough photographic tones have been labeled to clarify all tones for the compilers.

3. HORIZONTAL CONTROL-

All stations, indicated on the Project Diagram, have been searched for. Those that were desired to be identified were all recovered and identified except CHIMNEY, NORTHEAST GABLE OF SHACK, 1934. This station is destroyed and was replaced with topographic station CUTE, 1961. CUTE, 1961 will furnish control if desired as a fix was observed from it as well as it was referenced to a photograph point.

The following stations are lost or destroyed and reported on Form 526;

DRAW, 1933

Great Machipongo River Bl. Beacon No. 3, 1934

Great Machipongo River Red Beacon No. 2, 1934

Great Machipongo River Channel Lt., 1933

CUNJER CHANNEL LIGHT, 1937

SLOOP, 1910

Little Machipongo Inlet, North Inlet Light, 1933

PONGO, 1934

SOUTHWEST GABLE OF OLD TWO STORY HOUSE, 1934

Revels Island, West Gable Chimney, 1934

LITTLE MACHIPONGO INLET, COAST GUARD TOWER, 1937

CHIMNEY, NORTHEAST GABLE OF SHACK, 1934

4. VERTICAL CONTROL-

Tidal bench mark 1, map 11686 was recovered and identified.

The following bench marks are lost;

Tidal bench marks 1, 2 and 3 all of 1947, Revel Creek, Little Machipongo Inlet, Lat. 37-29.8 and Long. 75-41.0

Tidal bench mark 3, 1914, Little Beach Cove, Little Powder Tub Creek, Parramore Island, Lat. 37-31.9 and Long. 75-39.8

5. CONTOURS AND DRAINAGE-

Drainage consists of small streams and ditches. Those that were considered of sufficient size have been delineated. There are some few flat areas that will occasionally flood but there is no real swamp of importance.

6. WOODLAND COVER-

The tree areas are mostly pine with some few areas interspersed with hardwoods.

7. SHORELINE AND ALONGSHORE FEATURES.

The shoreline is mostly apparent. Very often there is a fringe of Sea Oars or Sea Oats sometimes fifty or more feet in width at the offshore edge of the marsh. This type of grass may reach a height of three to four feet during the summer and fall months and then be killed out during the winter season.

This can cause the apparent shoreline to change with the seasons. However as the grass is growing in these areas most of the year, the apparent shoreline was delineated along the outer edges of it.

There is a submerged telephone cable between the islands of Parramore and Hog. The approximate underwater position of this cable has been delineated on the photographs. This position could be several hundred feet in error as the position was determined by verbal information from the Hog Island Coast Guard Personnel.

3. OFFSHORE FEATURES-

There are no offshore features of any size. There are thousands of small stakes scattered over the mud flats that mark either some small channel or beds of oysters.

9. LANDMARKS AND AIDS-

Landmarks and aids are reported on Form 567. The black and white prints of the color photography were field inspected to verify or correct the office identification of the aids to navigation. Fixed aids not identified on the photographs have been located using ground survey methods.

10. BOUNDARIES, MONUMENTS AND LINES-

The corporate limits of Nassawadox, Virginia have been delineated on single lens ratio print 59W 9297 as far as possible to do so. Some of the southern boundary will need to be projected from an enclosed plat.

An enclosed map of Accomac County will show the mapped position of the line between Accomac and Northampton Counties. Information from the County Court Clerks of these two counties failed to reveal any information concerning a legal description. The division line was established in 1663 and any legal action concerning it has probably been lost in the files of three hundred years. The county court clerks advise that the best place to obtain such information is with the Virginia Department of Highways.

A branch office of this department was visited at Accomac, Virginia. Information obtained from this branch office indicates that their maps are compiled from old federal maps and records. It appears as no one is positive as to just where this line is. The Virginia Highway Department position their highway county line markers by a scaled distance from a map, of the enclosed type. There is a possibility that there is a description of this line somewhere in the files of the Northampton Court House, but no more investigations will be made unless instructed to do so.

11. OTHER CONTROL-

Three previously marked topographic stations were searched for but not found. This information is reported on Forms 524.

The following is a list of new topographic stations established.

BOSS	HANG	GABE
BOOM	GONE	GOUT
BUNT	MORE	WIND
DUNE	GRAY	HELP
HAND	CUTE	HURT
CUPOLA	RUIN	SHED

12. OTHER INTERIOR FEATURES-

All roads and buildings have been inspected and classified according to current instructions.

There are no bridges or cable clearances required.

13. GEOGRAPHIC NAMES-

No systematic investigation was made and no errors found in the geographic names.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA-

The following map and plat is enclosed;

Accomac County Map

Nassawadox Corporate Limits.

No changes are recommended for the Coast Pilot.

11
(5)

It is not believed that notes to the compiler would be of any aid in the compilation.

The field photographs and all other data for the compilation of these maps are being transmitted by transmittal letter 62-1J dated 28th July, 1961

Respectfully submitted,

July 28, 1961

Elgan T. Jenkins

Elgan T. Jenkins
Chief of Party 726

COMPILATION REPORT T-11683

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11680.

31. DELINEATION

The graphic method was used.

The majority of the shoreline (all of outer shoreline) was delineated from the 1962 single-lens photographs. The outer shoreline was delineated from stereoscopic office interpretation. The inshore areas was delineated from both the 1962 single-lens and 1959 nine-lens photographs, with reference to the 1961 field inspection on the 1959 nine-lens photographs. The scale of the single-lens photographs was good.

Since no field edit is to follow this compilation in the near future, the outer shoreline has been shown as indefinite (dashed) subject to confirmation by the hydrographer or field editor.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage has been delineated according to field notes and office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

See item 31 relative to shoreline.

Low-water and shoal lines have been delineated approximately, as interpreted photographically.

No alongshore structures were noted.

Inspection was adequate on the nine-lens photographs and was used where no discrepancies were noted with the 1962 single-lens photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks.

Form 567 for aids to navigation was submitted to the Washington Office under date of July 3, 1962.

38. CONTROL FOR FUTURE SURVEYS

Four topographic stations were established. Forms 524 are submitted. They are listed under item 49.

39. JUNCTIONS

A satisfactory junction has been made with T-11682 on the west, T-11684 on the east, T-11680 on the north and T-11688 on the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with 1:24,000 scale USGS quadrangle WACHAPREAGUE, published in 1958. Comparison is favorable except for the outer beach shoreline which is not considered final on this compilation.

47. COMPARISON WITH NAUTICAL CHARTS

Visual comparison was made with 1:80,000 scale chart No. 1221, edition of March 1962. Agreement appears to be good but due to the large scale differences detailed comparison was not made.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. Dossett
Carto Photo Aid

APPROVED AND FORWARDED

V. Ralph Sobieralski
Tampa District Officer

June 22, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5907 (Virginia)

T-11683

Atlantic Ocean
Drawing Channel
Goose Lakes
Green Channel
Italian Hill
Level Pond
Little Beach
Parramore Beach
Parramore Island
Peggy Shoal
Powdering Tub Creek
Revel Creek
Revel Island
Revel Island Bay
Shell Narrows
~~Sloop Channel~~
Swash Bay
The Swash
Waterhole Creek
White Trout Creek

Little Sloop Channel

*CHB
11-7-73*

Approved:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

The location of Wachapreague to Little Machipongo Channel Daybeacon 7 is doubtful due to difficulty in identifying the image. Please check for accuracy.

Four recoverable topographic stations were established. They may be useful to the hydrographer.

BOOM, 1961

BUNT, 1961

DUNE, 1961

GOUT, 1961

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW T-11683		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50.					
1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE		
WHS	WHS	Unclassified	WHS	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 <i>William H. Shearouse</i> William H. Shearouse		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Milton M. Slaney</i> Milton M. Slaney		
	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 OF NAVIGATION FOR CHARTS

TO BE CHARTED
TO BE REVISED/
TO BE DELETED

STRIKE OUT TWO

Tampa District Office

July 3, 1962

I recommend that the following objects which have *(deleted)* been inspected from seaward to determine their value as landmarks be charted on *(441641/441642)* the charts indicated.

The positions given have been checked after listing by *R. D. Dett*

V. P. Sobieralski
Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE		DATUM							
				D. M. METERS	D. M. METERS	D. M. METERS	D. M. METERS								
VIRGINIA		VIRGINIA INSIDE PASSAGE													
		Wachapreague to Little Machipongo Channel													
	DAYBN 6 A	"	"	27.57 850	75 40	27.75 851	N.A. 1927 T-11683	Photo	April * 1961	X			1221 - 1222		
	DAYBN 7	"	"	27.57 850	75 40	27.75 851	"	"	"	X			" - 1222		
	DAYBN 8	"	"	27.57 850	75 40	27.75 851	"	"	"	X			" - 1222		
	DAYBN 9	"	"	27.57 850	75 40	27.75 851	"	"	"	X			" - 1222		
	DAYBN 10	"	"	27.57 850	75 40	27.75 851	"	"	"	X			" - 1222		
	DAYBN 11	"	"	27.57 850	75 40	27.75 851	"	"	"	X			" - 1222		
	DAYBN 12	"	"	27.57 850	75 40	27.75 851	"	"	"	X			" - 1222		
	DAYBN 13	"	"	27.57 850	75 40	27.75 851	"	"	"	X			" - 1222		
* Date of month not available.															

This form shall be prepared in accordance with Hydrographic Manual, Publication 20-2, Sec. 1-55, 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-11683

SHORELINE

November 7, 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-8440, 1:20,000 scale, dated 1942. Significant differences were shown in blue on the comparison print.

T-11683 supersedes previous topographic surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS Quadrangle WACHAPREAGUE, VA, scale 1:24,000, dated 1958. Significant differences were shown in brown on the comparison print.

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 1221, scale 1:80,000, 16th edition, dated Sept. 11, 1971. No significant shoreline differences were noted. Fixed aids to navigation are mapped on T-11683 as they existed in 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. No accuracy test was run in the field. 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:

William J. ...

Chief, Photogrammetric Branch

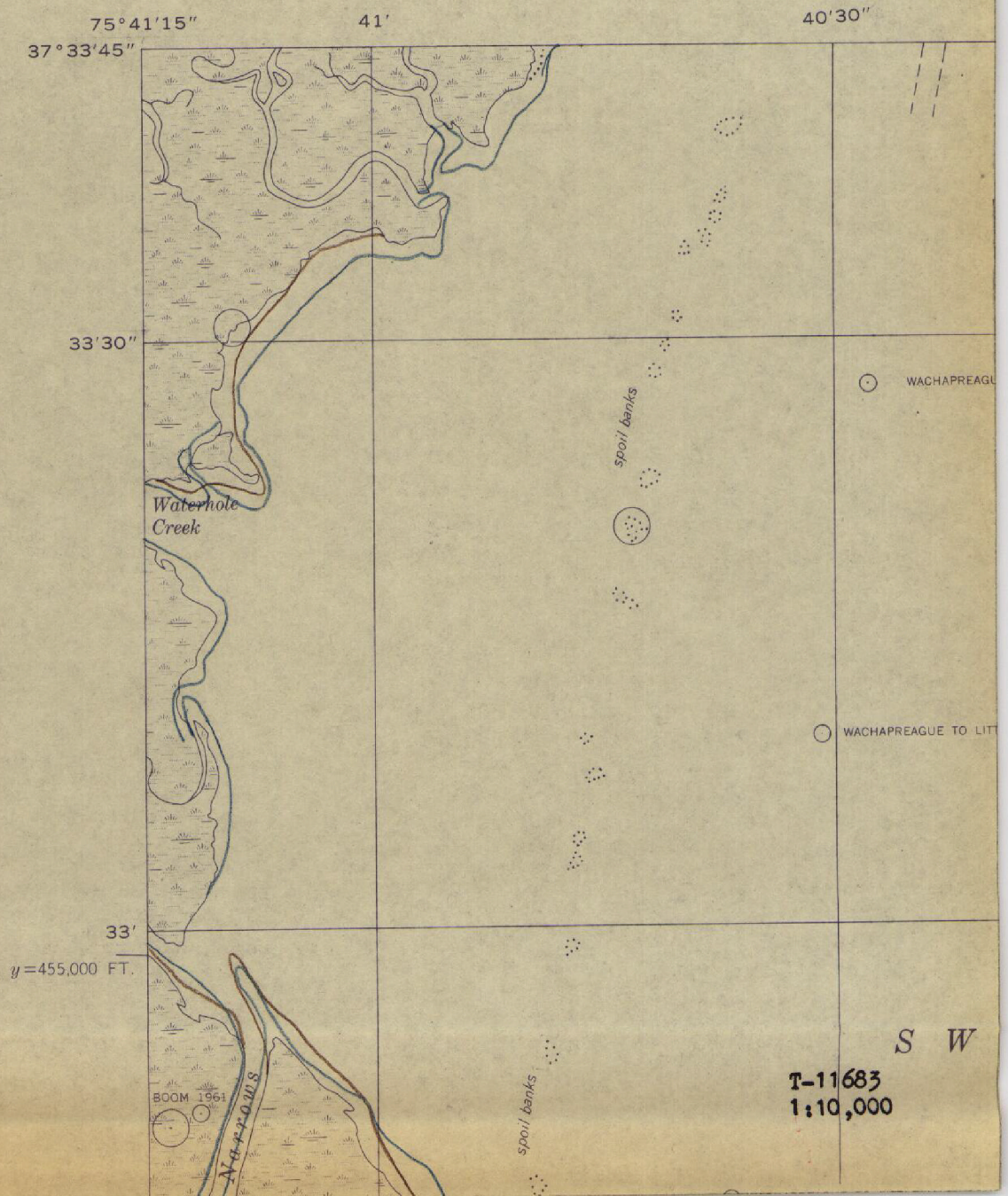
James ...

Chief, Coastal Mapping Division

T-11683

COMPARISON PRINT

Blue = T-8440
Brown = USGS



COMPARISON PRINT

Blue = T-8440

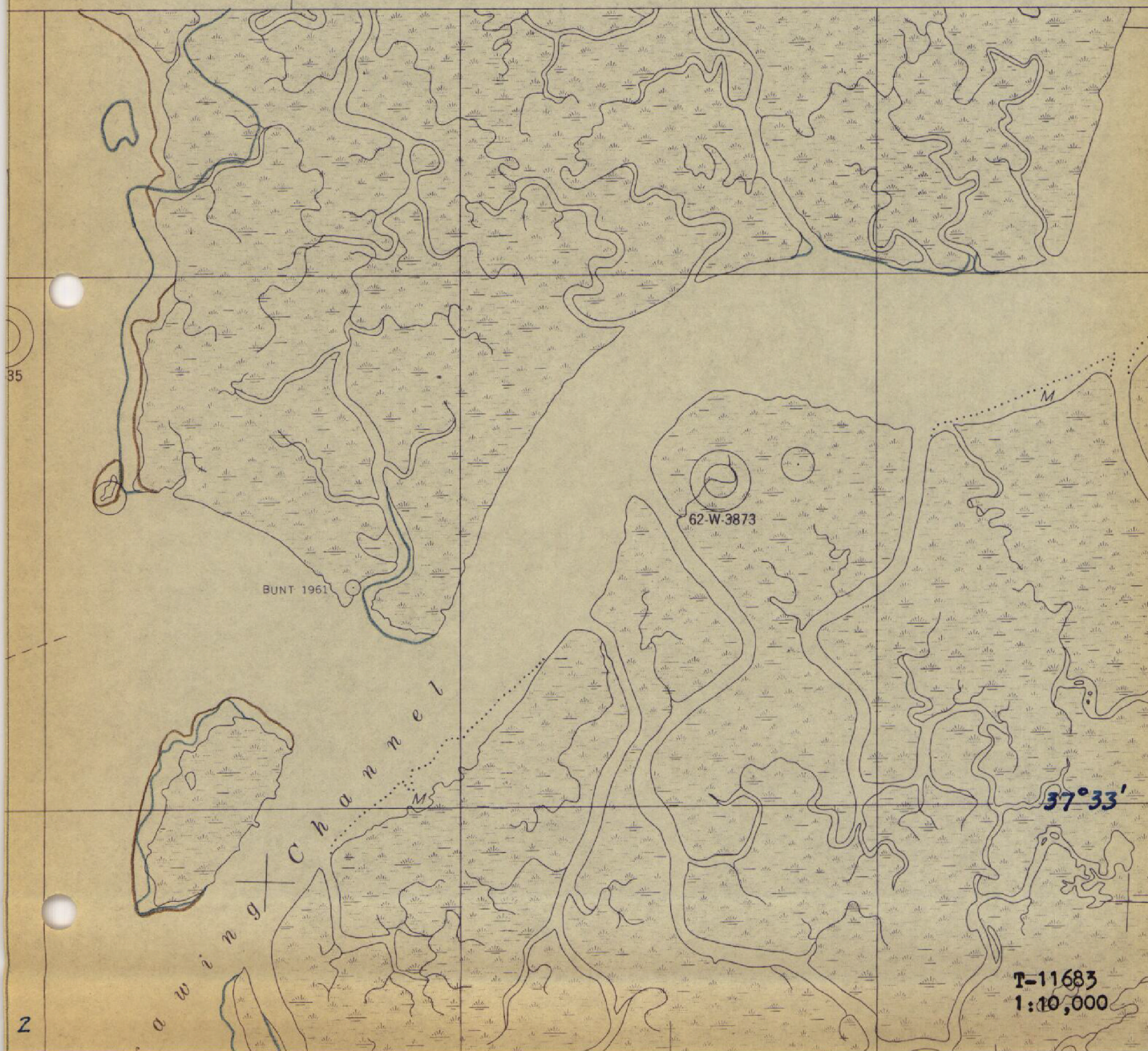
Brown = USGS

39'30"

x=2,825,000 FT 75°39'

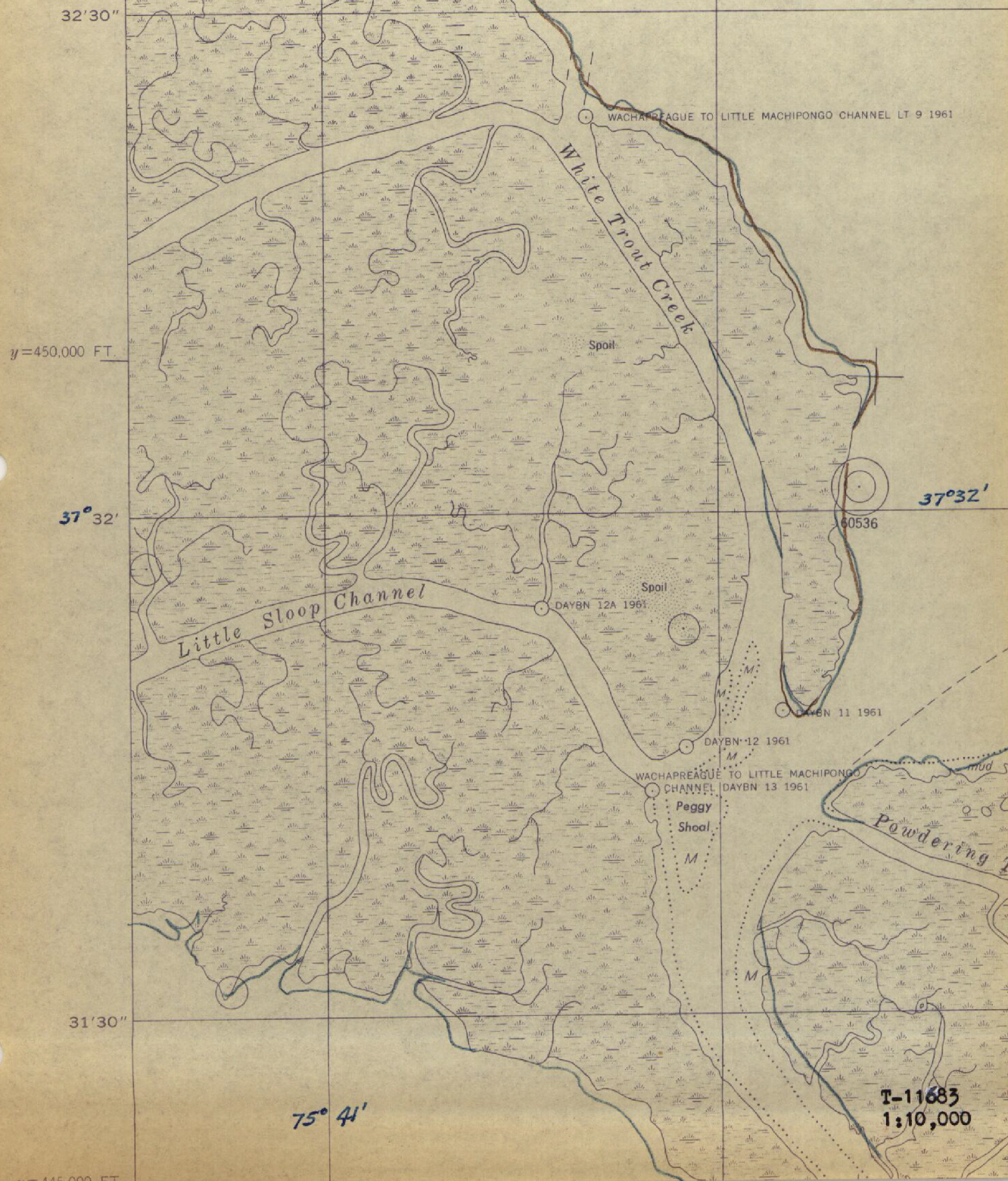
38'30"

x=2,830,000 FT



COMPARISON PRINT

Blue = T-8440
Brown = USGS



NOTE:

"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."

COMPARISON PRINT

Blue = T-8440

Brown = USGS

oyster bars

shallow

Ma islet

mud

M

mud

mud

37°32'

DRAW 2 1950

Pond

Pond

T-11683
1:10,000

ab Creeks

4
2-W 3913

75° 38'

25

Sand dunes

Level Pond

32' 30"

COMPARISON PRINT

Blue - T-8440
Brown - USGS

Sand dunes

y=450,000

37° 32'

62-W-3886

GOUT 1961

Little Beach

Parramore Beach

Lake

31' 30"

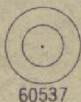
T-11683
1:10,000

75° 41'

R E V E L I S L A N D B A Y

37° 31'

shelf



y = 440 000 FT.
30' 30"

62-W-3912

Revel Creek

COMPARISON PRINT

Blue = T-8440
Brown = USGS

37° 30' 00"
75° 41' 15"

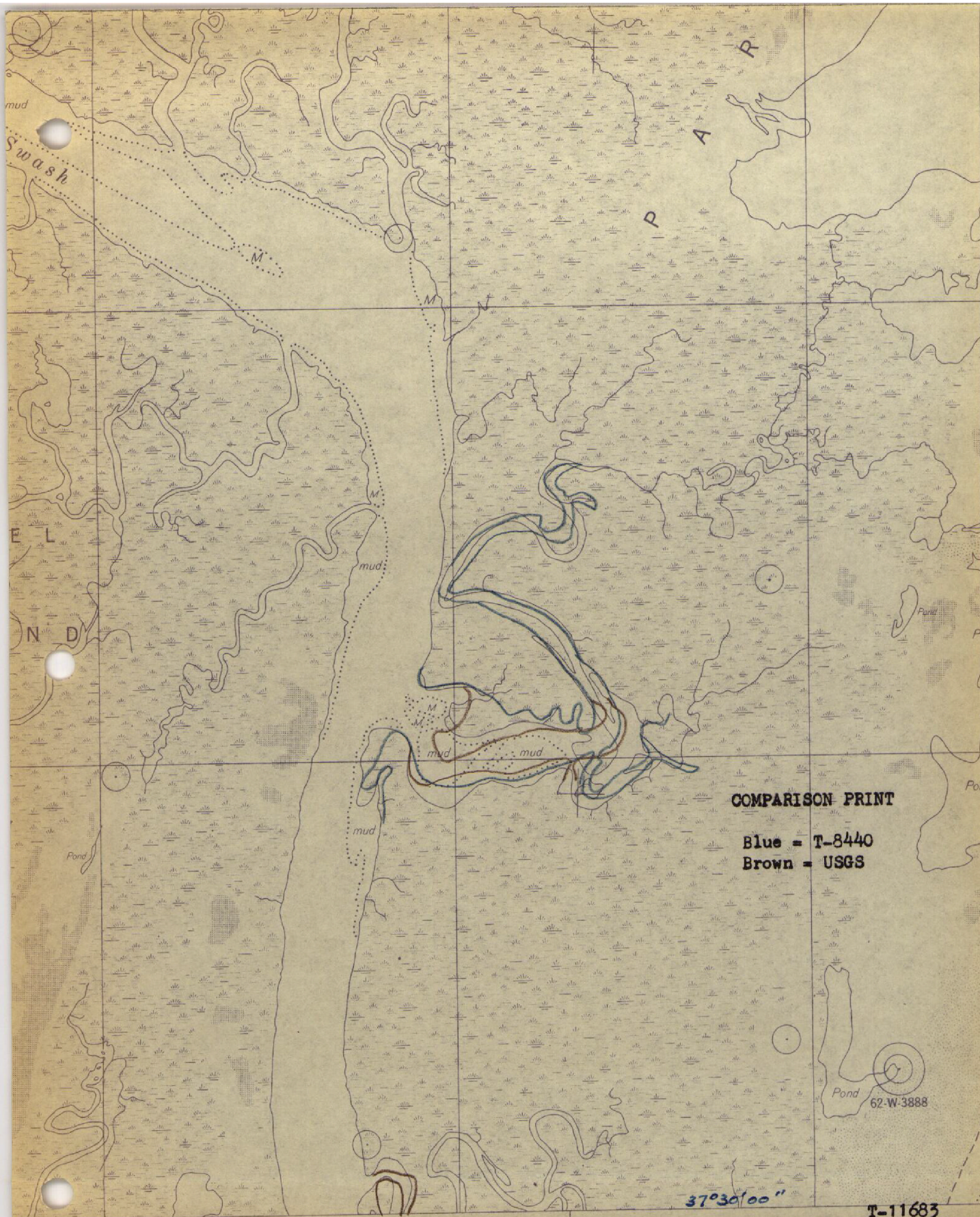
41'

40' 30"

x = 2,820 000 FT.

INDEX TO ADJOINING SHEETS
PROJECT 5907

T-11683
1:10,000



COMPARISON PRINT

Blue = T-8440
Brown = USGS

37°30'00"

T-11683
1:10,000

LEGEND

- △ Recoverable horizontal co
- Recoverable horizontal co
- Approximate mean low w

27

y = 445,000

Sand dunes

62-W-3887

60391

DUNE 1961

Ponds

OCEAN

ATLANTIC

31'

30'30"

y = 440,000

COMPARISON PRINT

Blue = T-8440

Brown = USGS

T-11683

1:10,000

37°30'00"

38°30"

x = 2,830,000 FT.

38'

75°37'30"

Control station of third order or higher accuracy

Control station of less than third-order accuracy

Water line

U. S. COAST AND GEODETIC SURVEY
SHORELINE MANUSCRIPT

T-11683