Original

T-11675

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. *Office No.* T-11675

Field edited map

LOCALITY

State VIRGINIA

General locality ACCOMACK COUNTY

Locality DEEP CREEK

19 59-62

CHIEF OF PARTY

Joseph K. Wilson, Chief of Field Party
V.R.Sobieralski, Tampa District Officer
~~Alfred G. Holmes, Director, AMC~~

LIBRARY & ARCHIVES

DATE JUL 1975

USCOMM-DC 5087

T-11675

FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-11675

PROJECT NO. (II):

PH-5907

FIELD OFFICE (II):	CHIEF OF PARTY
Accomac Virginia	Joseph K. Wilson
PHOTOGRAMMETRIC OFFICE (III):	**OFFICER-IN-CHARGE**
Tampa, Florida	V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

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

METHOD OF COMPILATION (III): Graphic

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	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):	VERTICAL DATUM (III): MHW
N.A. 1927	~~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):

FOOL 1962

LAT.:	LONG.:	
37°43'37.261"(1148.8m)	75°33'32.485"(795.5m)	☐ ADJUSTED ☒ UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = X =	Virginia	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.

USCOMM-DC 16276A-P61

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): M. A. Stewart	DATE: Sept. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of photographs: Oct. 13, 1959 and Apr. 28 1962	
PROJECTION AND GRIDS RULED BY (IV): A. Riley	DATE Jan. 1962
PROJECTION AND GRIDS CHECKED BY (IV): I. Y. Fitzgerald	DATE Mar. 1962
CONTROL PLOTTED BY (III): R. D. Purvis	DATE *Sept. 1962
CONTROL CHECKED BY (III): R. R. Wagner	DATE *Sept. 1962
RADIAL PLOT ~~OR STEREOSCOPIC CONTROL EXTENSION~~ BY (III): R. R. Wagner	DATE May 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III): Inapplicable	PLANIMETRY — DATE
	CONTOURS — DATE
MANUSCRIPT DELINEATED BY (III): R. J. Pate " " Reviewed by: R. R. Wagner	DATE Feb. 1963 " "
SCRIBING BY (III): P. W. Leikhim Reviewed by: W. H. Shearouse	DATE Feb. 1963 " "
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse	DATE Mar. 1963

REMARKS:

* One station was established at the time of field edit.

USCOMM-DC 16278-P61

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 9 lens
Camera W

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60527	10/13/59	11:13	1:10,000	Not used for shoreline
62-W-3860	4/28/62	10:30 approx	1:20,000	0.9 ft. above MLW
" 3861	"	" "	"	" " "
" 3862	"	" "	"	" " "

Note: Centers of the 1962 single lens photos do not fall on the map manuscript. However, they were used for delineation.

Predicted **TIDE (III)**

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sandy Hook			4.6	5.6
SUBORDINATE STATION: Metomkin Inlet	H.W	-0.9		
	L.W.	0.0	3.7	4.5
SUBORDINATE STATION:				

Atlantic Marine Center
WASHINGTON OFFICE REVIEW BY (IV): C. H. Bishop — DATE: October 1973

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): None* — RECOVERED: 0 — IDENTIFIED: 0

NUMBER OF BM(S) SEARCHED FOR (II): None — RECOVERED: — IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

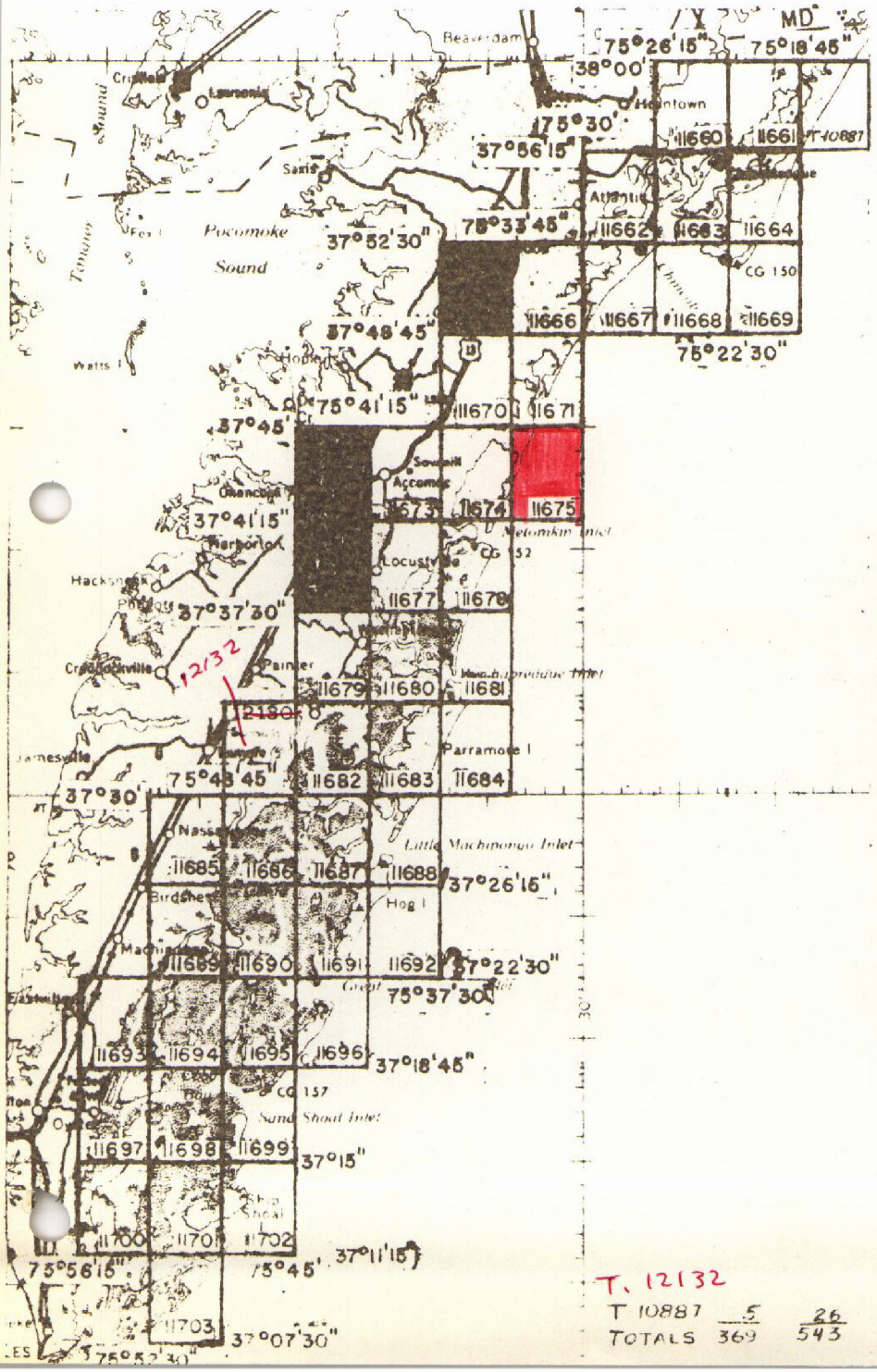
REMARKS:
* One station was established at the time of field edit.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	June 1962	Superseded
Alongshore area revised from field edit	July 1962	**Superseded**
Interior details added Compilation complete	Feb. 1963	**Superseded**
Final Review	**Oct. 1973**	

PH-5907

CAPE CHARLES TO ASSATEAGUE, VA

Planimetric Mapping Scale 1:10,000



T. 12132
T 10887 5 26
TOTALS 369 543

OFFICIAL MILAGE
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

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11675

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 September 1961 on 9-lens photographs taken in October 1959.

Single lens photographs taken in April 1962, after the hurricane which occurred in March 1962, were used for compilation. Control was established by a radial plot using 9-lens photography of October 13, 1959. The Photogrammetric Plot Report was not available at the time of final review and is not bound with this Descriptive Report.

Field edit was done in July 1962 and corrections were applied to the manuscript.

Final review was done at the Atlantic Marine Center in October 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.

FIELD INSPECTION REPORT
MAPS 11672 through 11675
PROJECT PH-5907

2. Areal Field Inspection.

These maps are located along the eastern shore of Virginia,in Accomack County.Maps 11672 and 11673 are located along the mainland.Maps 11674 and 11675 cover a part of the mainland together with Metomkin Bay and a part of Metomkin Island.The town of Onancock and a part of the town of Onley are located in map 11672.The county seat of Accomac County, a town of the same name,is located in map 11673.The mainland area is devoted exclusively to truck farming and has no other industry of any size.This area is served by U.S.Highway 13 and numerous secondary roads connecting thereto.The Pennsylvania railroad crosses maps 11672 and 11673.The mainland portion of map 11674 is also devoted to truck farming.Metomkin Bay covers a considerable portion of map 11674.This is a shallow body of water and has large areas of mud flats and shoals.The Intracoastal Waterway crosses Metomkin Bay in a north-south direction.This channel is accessible for boats of shallow draft only.The land area of map 11675 is a part of Metomkin Island.This is a narrow stretch of sand beach,with low dunes, separating Metomkin Bay from the Atlantic Ocean.The land area of map 11675 is not inhabited.

Field inspection is believed complete and was performed on the following 1:10,000 scale nine-lens photographs;60442 60443,60444,60463,60464,60465,60473,60474,60475,60527,60528 and 60529.Single lens photographs,scale 1:30,000,numbered 59W9283 and 59W9285 were used for field inspection in the northwest corner of map 11672.Single lens photograph,ratio print,scale 1:10,000 was also used for field inspection.In addition to the above,black and white prints of color photography were used to verify office identification of fixed aids to navigation.These photographs are numbered as follows;59W9617 through 59W9623.

The photography was of good quality and no difficulty was encountered in their interpretation in the field.The tone changes ranged from white,in the sand areas,to grey,in the grassy areas,to black,in the areas covered with marsh or trees.

No items were deliberately left for field edit.

3. Horizontal Control.

All Coast and Geodetic Survey control stations were searched for. The requirements for control, as indicated by a copy of the project diagram, were adequately met for these maps. No supplemental control was established.

The following stations were reported lost;

11672	11673
none	none

11674

North Temporary Banner 1934
Chincoteague to Hog Island(Metomkin Bay)Beacon 9(Black)1934
Chincoteague to Hog Island(Metomkin Bay)Beacon 8(Red)1934
Chincoteague to Hog Island(Metomkin Bay)Beacon 5(Black)1934

11675

none

4. Vertical Control.

Five tidal benchmarks were recovered in map 11672. They are Onancock, Onancock Creek, Chesapeake Bay Tidal Bench Marks 1 (1914), 3 (1914), B36 (USCGS)(1929), 4 (1957) and R85(1935).

5. Contours and Drainage.

Contours are inapplicable.

The tidal streams are self-evident from the photographs. The drainage along the mainland area has been indicated on on the photographs.

6. Woodland Cover.

Woodland cover was inspected and has been classified on the photographs.

7. Shoreline and Alongshore Features.

The mean high water line along the ocean was located by measurement from identifiable photo. points, except for the areas around the inlets. The water has swept over these areas and points are not identifiable. The mean high water line around the inlets has been indicated as photographed. All charts having inlet areas therein should carry the notation "shoreline subject to frequent change".

The apparent shoreline was inspected by skiff running close to shore and has been indicated on the photographs.

The foreshore along the ocean is sand. There are no bluffs or cliffs.

Item 7 Cont'd.

Shore ends of submarine cables have been indicated on the photographs.

All docks,landings,piers or wharves have been indicated on the photographs.

Other shoreline structures have been clarified.

8. Offshore Features.

The shoal areas in Metomkin Bay were visited during field inspection.Notes concerning these areas heve been made on the Photographs.

9. Landmarks and Aids.

Landmarks for nautical charts and fixed aids to navigation are adequately covered by Form 567.This form is submitted with the field data for these maps.

There are no aeronautical aids within these maps.

10. Boundaries,Monuments and Lines.

The only boundaries affecting these maps are corporate limits of Onancock,Accomac and Onley.A tracing of the official map of Accomac included wity the field data.The map lists bearings and distances referenced to triangulathon station ACCOMAC 1942 and will give the compiler no trouble.The approximate limits of Onancock has been indicated on photograph 59W9285.A copy of the official map is also included.See item 10 of Field Inspection Report submitted for maps 11676,11677 and 11678 for discussion of corporate limits for Onley.This report was submitted to Washington on 27 September 1961.

11. Other Control.

The following recoverable topographic stations were selected for location by the plot; Bean 1961,Huge 1961,Tower 1961,East Cable,Red Shack with White Roof 1961 and Center of Roof of Unpainted Shack 1961.

12. Other Interior Features.

All roads were inspected and have been classified in accordance with Photogrammetry Instruction No.54.

All buildings were inspected and have been indicated in accordance with Photogrammetry Instruction No.56.

There are no bridges or cables over navigable water.

There are no airports or landing fields.

13. Geographic_Names.

A systematic investigation of names was not required. No new names are recommended for mapping.

14. Special_Reports_and_Supplemental_Data.

City map of Accomac,submitted with this data
City map of Onancock,Submitted with this data
Form 567,submitted with this data
Letter of transmittal,submitted with this data

Submitted,

William M. Reynolds

William M. Reynolds
Sub-unit,Photo. Party 720

COMPILATION REPORT
T-11675

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11680

31. DELINEATION

The field inspection which was done in 1961 on 1959 nine-lens photographs was adequate but the shoreline was destroyed by the March 1962 storm. The shoreline was delineated from office interpretation of the April 1962 photographs. Field edit is scheduled for this shoreline.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage was evident.

35. SHORELINE AND ALONGSHORE DETAILS

Low-water lines were delineated from office interpretation of the 1962 photographs. See Item 31 for shoreline.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

One topographic station was established by the field party in 1961 but was destroyed by the storm in March 1962.

39. JUNCTIONS

A junction has been made with T-11674 on the west and T-11671 on the north. The Atlantic Ocean is to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS quadrangle METOMKIN INLET 1957, scale 1:24,000 and it was found to be in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with C&GS nautical chart 1221, Chincoteague Inlet To Great Machipango Inlet, edition March 1962 scale 1:80,000. The agreement is good.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. J. Pate
Carto Photo Aid

APPROVED AND FORWARDED: 17 APR 1963

V. Ralph Sobieralski
Tampa District Officer

June 22, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5907 (Virginia)

T-11675

Atlantic Ocean

Deep Creek

Metomkin Bay

Metomkin Island

Wire Passage

Approved:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

None.

FORM 182 (3-61) 50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11675

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
WHS	WHS unclassified 4a Classification label	WHS	WHS

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)
WHS	XX

7. PHOTO HYDRO STATIONS	8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT
XX	XX	XX	MMS

11. DETAIL POINTS: WHS

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
WHS	WHS	XX	XX

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES
XX	XX	WHS

19. OTHER ALONGSHORE CULTURAL FEATURES: WHS

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER
WHS	WHS

22. PLANETABLE CONTOURS	23. STEREOSCOPIC INSTRUMENT CONTOURS
XX	XX

24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS
XX	XX

26. OTHER PHYSICAL FEATURES: WHS

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS
XX	XX	XX

30. OTHER CULTURAL FEATURES: WHS

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
XX	XX

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS
WHS	WHS

35. LEGIBILITY OF THE MANUSCRIPT	36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT
WHS	XX	WHS

38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
WHS	WHS

SIGNATURE OF REVIEWER	SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT
William H. Shearouse William H. Shearouse	Milton M. Slavney Milton M. Slavney

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
V. P. Cackowski V. P. Cackowski	Milton M. Slavney Milton M. Slavney

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25953-P61

FIELD EDIT REPORT T-11675

Field edit was done in July 1962 by W. M. Reynolds. Revisions consisting of shoreline changes along the ocean front, caused by the March 1962 storm were indicated on Field Edit Discrepancy prints 1 and 2 (ozalids) and single-lens ratio photo 62-W-3862.

No field edit report has been received.

Tampa

REVIEW REPORT T-11675

SHORELINE

October 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-8441, scale 1:20,000, dated 1942. Radical changes in the Metompkin Island shoreline caused by a hurricane in March 1962, were shown in blue on the comparison print.

In the area compared, T-11675 superseded previous topographic surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle: METOMPKIN INLET, VA, scale 1:24,000, dated 1957. Changes in the Metompkin Island shoreline, similar to those noted in Par. 62 and cuased by the same storm, 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 11 Sept. 1971. 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 sub-standard. It is believed that this map is adequate for photo-hydro support and nautical chart construction.

Reviewed by:

Charles H. Bishop

Charles H. Bishop
Cartographer

Approved for Forwarding:

Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

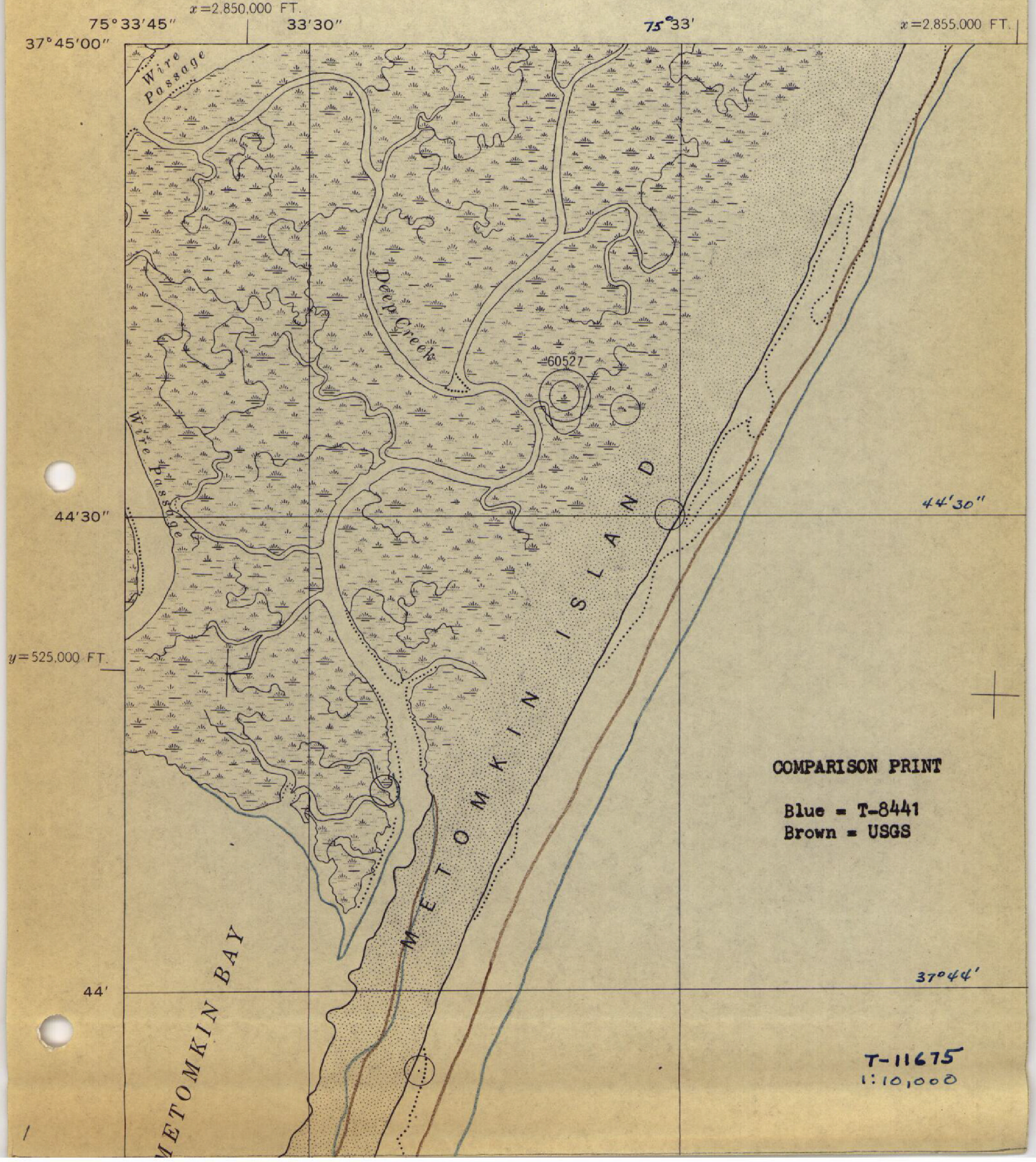
Approved:

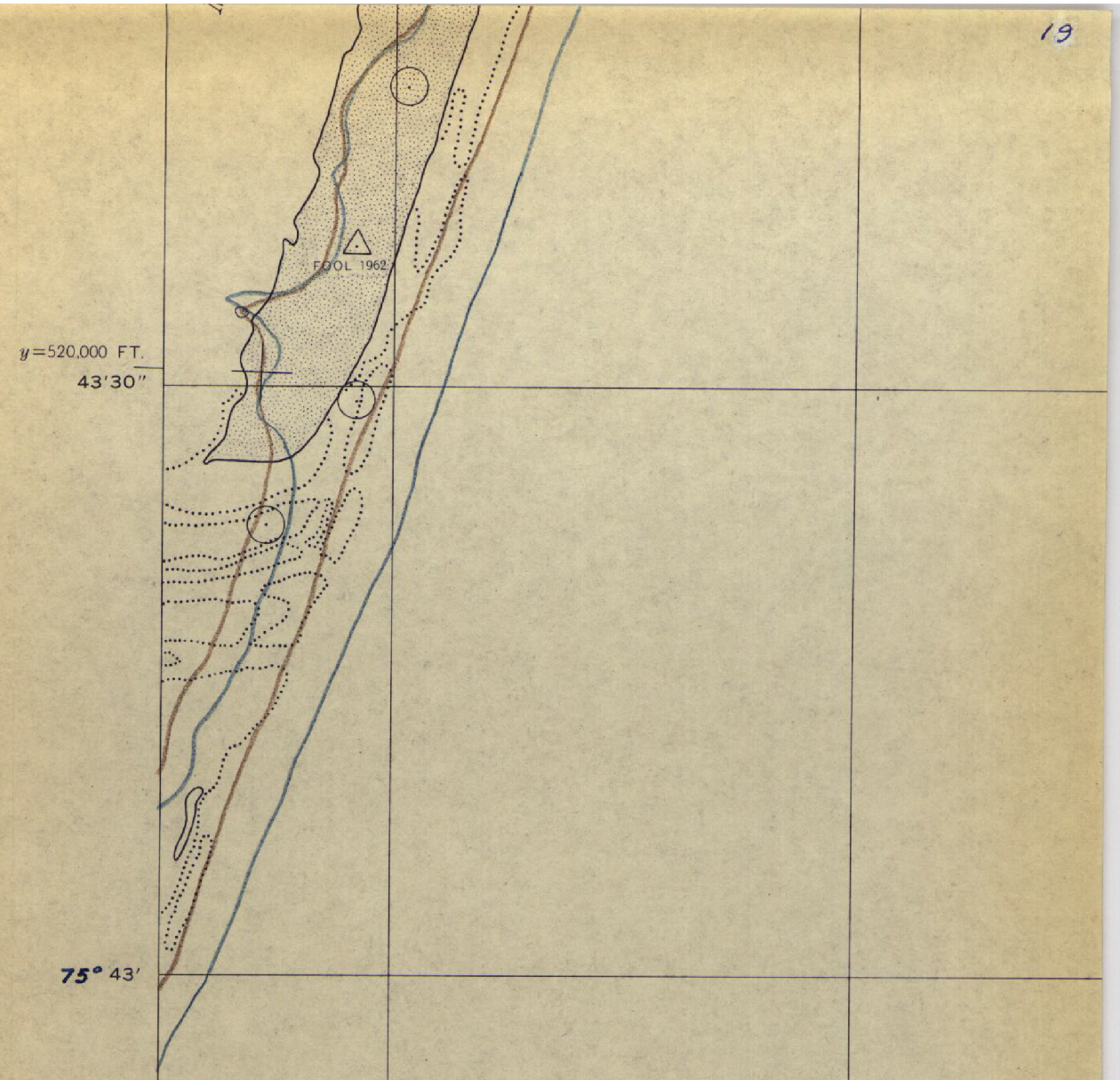
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division


x=2,850,000 FT.
75°33'45"
33'30"
75°33'
x=2,855,000 FT.
37°45'00"
Wire Passage
Deep Creek
60527
Wire Passage
44'30"
44'30"
y=525,000 FT.
METOMKIN ISLAND
METOMKIN BAY
44'
37°44'
COMPARISON PRINT
Blue = T-8441
Brown = USGS
T-11675
1:10,000



y=520,000 FT.

43'30"

75° 43'

y=515,000 FT.

42'30"

COMPARISON PRINT

Blue = T-8441
Brown = USGS

T-11675
1:10,000

37°33'00"