9898 11052
11054 11056
11226

Diag. Cht. No. 18-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-101 Office No. T-9898, T-11052, T-11054, T-11056 & T-11226

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Rappahannock River

1952-53

CHIEF OF PARTY

L.J.Reed, Div. of Photo., Wash., D.C.

LIBRARY & ARCHIVES

DATE June 23, 1958

B-1870-1 (1)

Cht. 534: examined & deferred ; 4-20-64 F.B. Powers

Cht 605-SC {fully applied 8-8-66 F. B. Pow
{after verification & review

CHART 12225 - fully applied After verification 11-07-90 TS (CONSIDERED FULLY APPLIED)

DATA RECORD

T-9898
T-11052
T-11054
T-11056
T-11226

Project No. (II): Ph-101 Quadrangle Name (IV): None

Field Office (II): Chief of Party:

Photogrammetric Office (III): Washington, D.C. Officer-in-Charge: Louis J. Reed, Chief, Stereoscopic Mapping Branch

Instructions dated (II) (III): Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Stereoplanigraph

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:15,000

Scale Factor (III): Photo::Inst::Manuscript = 24,000::15,000::10,000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 10 Feb 1958

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): NA 1927 Vertical Datum (III):

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):

Lat.: Long.: Adjusted

Plane Coordinates (IV): State: Zone:

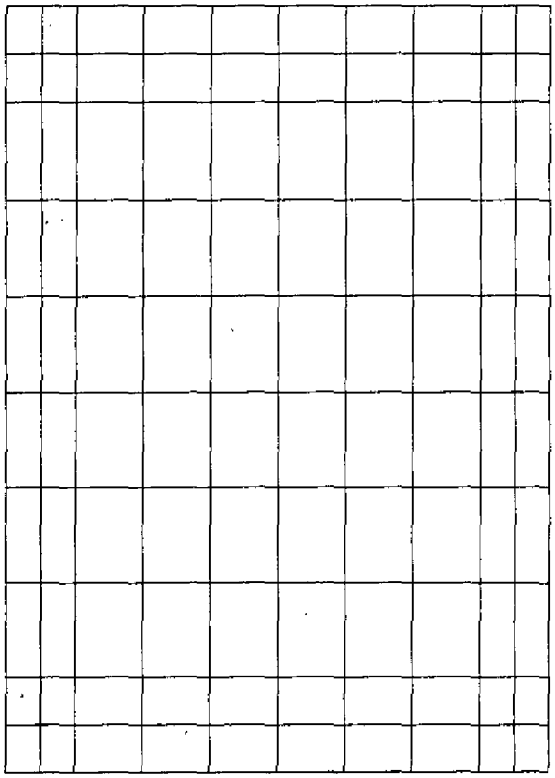
Y= X=

No Grid

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.

M-2618-12(4)



Areas worked by various personnel
(Show name within area)
(III)

Bridging and compilation done entirely on the Stereoplanigraph by the team of:

Morton Keller and
Ivan R. Jarrett

DATA RECORD

Field Inspection by (II): None Date:

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):

MHWL is dated Oct 1952, the date of the photography from which it was delineated. The photos were taken at high tide and the delineation was done on the Stereoplanigraph with this fact in mind.

Projection and Grids ruled by (IV): Jack Allen on the Reading Ruling Machine Date: 24 Mar 53

Projection and Grids checked by (IV): Howard D. Wolfe Date: 25 Mar 53

Control plotted by (III): Graphic Compilation Section (Hanovich and Ramey) Date: 20 May 53

Control checked by (III): Graphic Compilation Section (Ramey and Hanovich) Date: 20 May 53

~~Radial Plot or~~ Stereoscopic Control extension by (III): Morton Keller and Ivan R. Jarrett Date: 23 Jun 53

Stereoscopic Instrument ~~compilation~~ delineation (III): ~~Planimetry~~ Shoreline ~~Contours~~ Morton Keller and Ivan R. Jarrett Date: 15 Jul 53

Manuscript delineated by (III): Henri Lucas Date: 14 Jul 53

Photogrammetric Office Review by (III): Louis J. Reed Date: 15 Jul 53

Elevations on Manuscript checked by (II) (III): Date:

M-2618-12(4)

Camera (kind or source) (III): USC&GS Cartographic (O) Camera, Wide angle, f = 6" (Metrogon)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
1862 thru 1868				
1884 thru 1892	13 Oct 52	1030 EST	24,000	1.0ft above MLW
1919 thru 1926				
1946 1947				

Tide (III)

		Ratio of Ranges	Mean Range	Spring Range
Reference Station:	Hampton Roads		2.5	3.0
Subordinate Station:	Horse point, Piankatank River	0.6	1.4	1.7
Subordinate Station:				

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 20 sq mi

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III): 66 miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): Recovered: Identified: 15

Number of BMs searched for (II): Recovered: Identified:

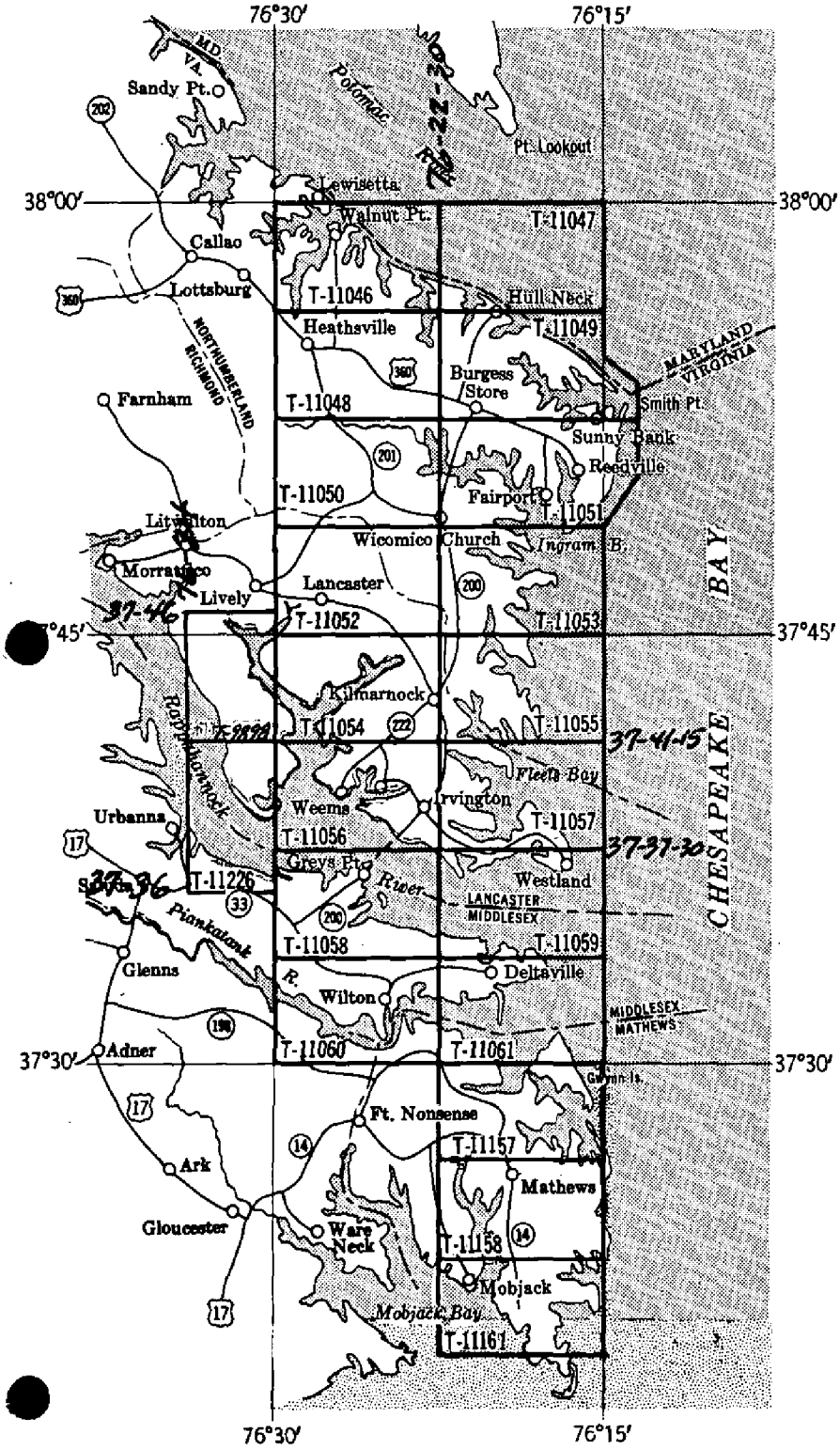
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

SHORELINE MAPPING PROJECT PH-101

VIRGINIA - CHESAPEAKE BAY, Potomac River to Piankatank River



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Lin. Miles Shoreline
T-11046	11	40
T-11047	2	5
T-11048	2	4
T-11049	12	20
T-11050	4	11
T-11051	18	43
T-11052	1	3
T-11053	7	20
T-11054	7	28
T-11055	8	35
T-11056	8	34
T-11057	7	35
T-11058	8	22
T-11059	4	18
T-11060	9	28
T-11061	5	21
T-11157	20	35
T-11158	25	15
T-11161	10	25
T-11226	11	21
TOTALS	179	463

Compiled at 1:10,000 scale from nine-lens photographs (1:20,000 scale) and single-lens photographs (1:24,000 scale) taken October 1952.
(Refer to Air-Photo Index 134-B)

1. Preface:

Field Inspection Report

2-20:

The only field inspection consisted of identifying by substitute station or flagging a portion of the control stations used, as follows:

CONTROL STATION	FLAGGED	SUB STA	DIRECT
OLD HOUSE, 1919		X	
TOWLES 3, 1942	X		
ORCHARD 3, 1942	X		
PON, 1953 (Topo Sta)			X
CHERRY 3, 1944		X	
WHITE STONE ME CH SPIRE, 1942			X
SLATERS RM No.1, 1942	X		
KILMARNOCK MUN W T, 1942			X
BM 18, 1944 (USGS)			X
BM H 270, 1944		X	
BM J 270, 1944		X	
BM K 270, 1944		X	
PP 6F, 1944 (Trav.)			X
PP 7F, 1944 (Trav.)			X

RADIAL PLOT REPORT

Also see radial plot report for T-11060 Plot prior to this bridge

21. Area Covered:

This plot covers the shoreline falling within the borders of T-11052, T-11054, T-11056, T-11226, and T-9898, without the river line falling on T-9898.

22. Method:

Rather than by radial plot, the control in this project was bridged on the Stereoplanigraph No.61639. Bridging consists of holding to control in one end of a flight, setting up and tieing together successive models until the final model having control is reached, and then graphically adjusting the error of closure thruout the strip. The Photo & Control Sketch shows the arrangement of the three existing flights and control stations.

Control was plotted on the vinylite manuscripts and transferred by direct picking to other vinylite sheets which were used for bridging purposes.

The center flight was bridged first using diapositives 52-0-1919 thru 1926. The north model was oriented to PP-7F, BM-H-270, 1944, and BM-J-270, 1944, and bridged south to ORCHARD 3, 1942 and POND, 1953. When adjusted to hold both end models (controlled), SLATERS RM No.1, 1942, in the center of the flight, did not hold; it plotted 0.7mm north of its GP position. The flight was readjusted to hold this station by adjusting both ways from it to the end models.

The east flight was bridged next using 52-0-1862 thru 1868 and 1946. It was started on the north end holding to control points BM-K-270,1944 and BM-18(USGS),1944, and terminated on SS CHERRY 3,1942 and POND,1953 in the south model. Part way down the flight, station KILMARNOCK MUN. W. T., 1942, fell on the very edge(eastern) of a model where it could not be reliable; nevertheless, it held to within about 0.5mm. After adjustment of this flight, common pass points with the central flight agreed to within a maximum of 0.3mm; a midpoint was selected for the final positions.

The west flight was bridged last beginning with the base model at the south end of flight 52-0-1884 thru 1892. The base model was held by TOWLES 3,1942, SS OLD HOUSE(VFC), 1919, and a pass point from the central flight; the end or tie model on the north end was controlled by PP-7F,1944, and PP-6F,1944. SLATERS RM No.1,1942, fell in the center of this flight also, and like the case of the central flight, when the adjustment had been made the bridged position fell 0.5mm south of its GP position. A double readjustment was made to make SLATERS hold; the readjustments extended both ways from the station to the controlled end models. A maximum discrepancy of 0.8mm resulted in the common pass points between the west and central flights, but midpoints were selected for the final positions.

23. Adequacy of Control:

Under normal conditions sufficient control was available for adequate bridging of this project, but conditions were not normal in that all the control could not be held. This assumes that identification was positive, which is verified in the cases of groups of control, and which should be true in the cases of flagged stations. The doubt seems to lie with SLATERS (flagged) which refused to agree with control to the north and south of it. The error could be in the north or south groups of control, but in either case this would mean an equal error in each of several points, which is not quite reasonable. On the other hand SLATERS was flagged, and if it is out in position all the others should be also since they are all in the same control network. In conclusion, it is felt that something is not quite right about the control in this project but where or what it is just can not be pointed out at this time. It is suggested that the flight of 1953 9-lens photographic coverage be laid into a plot of this area; their tremendous coverage should aid in pin-pointing the trouble.

See also item 40 page 16

24. Supplemental Data: No graphic control surveys were used.

25. Photography:

Diapositives and photography met normal specifications. No coverage was available for the river shoreline crossing T-11226 and T-9898, but it is expected that a portion of it will be available later at which time the portion of the shoreline covered will be added by graphic compilation.

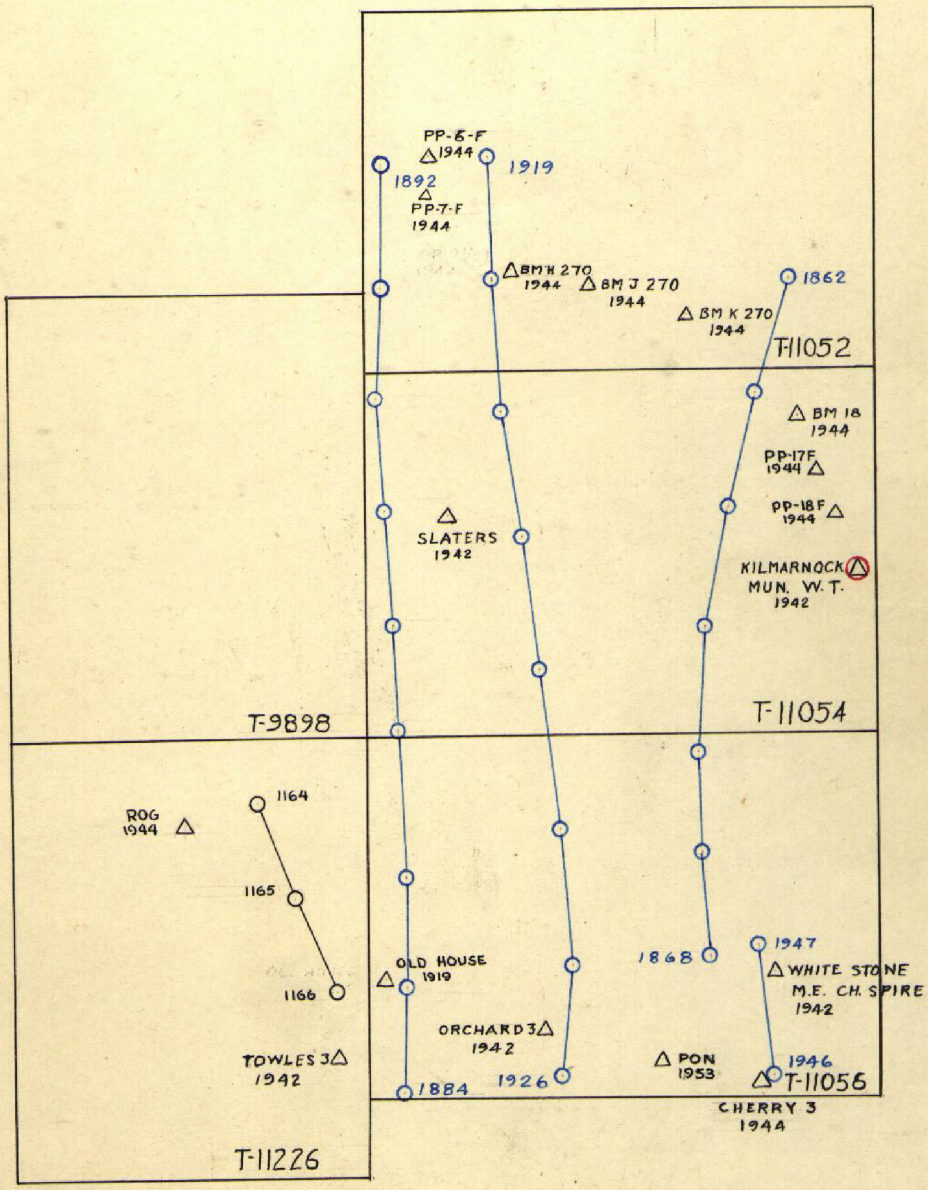
Stanley W. Trow

Stanley W. Trow, Chief,
Single Lens Plotter Section

Louis J. Reed

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer

PHOTO & CONTROL SKETCH
CHESAPEAKE BAY
PH-101



△ CONTROL USED

⊘ CONTROL NOT USED

○ PHOTO CENTERS

○ PHOTOS (Graphic)

Photogrammetry

MAP T- 11052 PROJECT NO. Ph-101 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
BM H 270, 1944	779	NA 1927	37 46 09.769				301.2	1548.6		
			76 27 51.309				1255.8	212.7		
BM J 270, 1944	779	"	37 46 04.964				153.0	1696.8		
			76 26 48.528				1187.8	280.7		
BM K 270, 1944	779	"	37 45 49.988				1541.1	308.7		
			76 25 30.458				745.5	723.1		
PP 6 F 1944	Trav.	"	37 47 10.54				325.0	1524.8		
			76 28 31.24				764.4	703.8		
PP 7 F 1944	Trav.	"	37 46 58.67				1808.9	40.9		
			76 28 28.47				696.7	771.5		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: DATE CHECKED BY: DATE

Photogrammetry

MAP T-11054 PROJECT NO. Ph-101 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BM 18 (USGS), 1944	779	NA 1927	37 44 35.669 76 23 51.111			1099.7 750.1 1251.4 217.6	
SLATERS RM No.1 1942	455	"	37 43 76 28			1102.6 1288.9	1068.8 1288.6
KILMARNOCK MUN W.T., 1942	461	"	37 42 43.995 76 22 44.547			1356.4 493.4 1091.1 378.5	
PP 17F, 1944	Trav.	"	37 43 76 23			1326.3 523.5 639.1 830.1	
PP 18F, 1944	Trav.	"	37 43 76 23			550.6 1299.2 306.2 1163.3	
SLATERS, 1942	455	"	37 43 34.668 76 28 52.614			1068.8 781.0 1288.5 180.8	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: DATE CHECKED BY: DATE

Photogrammetry

MAP T- 11056 PROJECT NO. Ph-101 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
OLD HOUSE (V), 1919	530	NA	37 39 07.997				246.6	1603.2		
		p927	76 29 41.905				1027.2	443.6		
ORCHARD 3, 1942	459	"	37 38 55.556				1712.8	137.0		
			76 27 08.195				200.9	1269.9		
WHITE STONE MEC H SP, 1942	461	"	37 38 39.132				1206.4	643.4		
			76 24 06.275				153.8	1317.1		
CHERRY 3, 1944	702	"	37 37 38.342				1182.1	667.7		
			76 24 10.454				256.4	1214.5		
PON, 1953	3 pt fix	"	37 38 20.114				620.1	1229.7		
			76 25 25.966				636.6	834.5		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: DATE CHECKED BY: DATE

Photogrammetry

MAP T- 11226 PROJECT NO. Ph-101 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
TOWLES 3, 1942	459	NA 1927	37 38 31.836				981.5	868.3		
			76 30 37.779				926.2	544.8		
ROG, 1944		"	37 40				398.0			
			76 32				314.0			

1 FT. = .3048006 METER

COMPUTED BY: DATE CHECKED BY: DATE

M-2388

COMPILATION REPORT

31. Delineation:

Delineation of this shoreline survey was done entirely on the stereoplanigraph which also drew the features directly on the manuscripts in pencil for copying in ink. The shoreline was completely delineated on T-11052,54, and 56, but the other two quads were partially done as stated in side-heading 25, this report.

32. Control: Refer to side-heading 23, this report.

33. Supplemental Data: Not applicable.

34. Contours and Drainage: Not applicable.

35. Shoreline and Alongshore Details:

No shoreline inspection of this area was made and therefore the entire compilation is instrument delineated. There was no particular difficulty encountered in delineating the MHWL, but because of the small range of tide in this area the MLWL has been drawn only where the foreshore area has a very small gradient, in which cases it has been shown as approximate only. In addition, shoal, shallow, and grass areas in the foreshore area have been delineated and compiled. Man-made features along the shoreline have been delineated in the prescribed manner.

36. Offshore Details:

The only offshore details to deal with were the navigation lights which were positioned and compiled, when identifiable, during the instrument operation.

37. Landmarks and Aids:

The navigation aids mentioned in the above side-heading were the only items of known existance at that time.

39. Junctions:

All junctions are in agreement; see page 4, this report.

38. Control for Future Surveys:

About 200 hydro signals have been office selected and described by the Graphic Compilation Branch, and positioned during instrument compilation. A list of these stations, along with descriptions and references to identification photographs, is to be found under side-heading 49, "Notes for the Hydrographer", on a separate unnumbered page in the back of this report.

40. Horizontal Accuracy:

The conditions stated in side-heading 23, page 9, indicate that the control situation did not permit as high a degree of accuracy as normally expected. However, the possible errors in position are considered to be no greater than the allowable of 0.5mm and therefore this survey meets the requirements for the purpose of this shoreline survey.

46. Comparison with Existing Maps:

a. IRVINGTON, VA, USC & GS T-8344, 1:24,000, 1949 edition, mapped by USC & GS, edited and published by USGS.
b. URBANNA, VA, USC & GS T-8345, 1:24,000, 1949 edition, mapped by USC & GS,and edited and published by USGS.
c. LANCASTER, VA, USC & GS T-8353, 1:24,000, 1949 edition, mapped by USC & GS, edited and published by USGS.

47. Comparison with Nautical Charts:

a. Chart No.534, 1;40,000, published July 1951, 3rd edition, last correction date of 9 Feb 53

Items to be applied to Nautical Charts Immediately: None.

48. Geographic Name List: Not applicable.

49. Notes for the Hydrographer: See separate unnumbered page.

50. Photogrammetric Office Review: See separate page following.

41. Graphic Compilation:

As referred to in side-heading 25, page 9, a portion of the shoreline on the north side of the river has been added graphically since the instrument compilation has been completed. The three photos used in this additional compilation are shown on the Photo & Control Sketch, page 10. The centers of these three photos were located by resection from points positioned by the instrument work, and by one topo station, ROG, 1944, which fell on the outer limit of this added portion of shoreline compilation. Compilation was by conventional methods (graphic).

For the area compiled on this quad T-11226 south of the river, refer to Descriptive Report for T-11060.

submitted by:

Stanley W. Trow, Chief,
Single Lens Plotter Section

approved by:

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer

49. Notes for the Hydrographer:

The following hydro stations have been office selected and positioned by the instrument during compilation:

a. Photograph 52-0-1946

001 - End of pier
002 - Point of vegetation
003 - Topo Station TAF, 1944
004 - Topo station WAR, 1944
005 - Bush
006 - Dol
007 - Sink hole

b. Photograph 52-0-1868

008 - Topo station PON, 1953
009 - End of fence or groin
010 - Tree
011 - End of pier
012 - NW end of structure
013 - Outer of two bushes or trees
014 - Cor of bldg
015 - Chy
016 - Bush
017 - Bush
018 - End of pier
019 - Bush
020 - Pt of ma
021 - Bush
022 - Gable
023 - End of pier
022a - Pier
024 - Tree
025 - End of pier
026 - Center of sand area
027 - Bush
028 - Tree
029 - Gable
030 - Pt of ma

c. Photograph 52-0-1925

031 - Prominent bush on pt
032 - End of pier
033 - Bush
034 - End of pier
035 - Cor of pier
036 - End of pier
037 - End of pier
038 - Bush
039 - GALLEY HOOK Lt.

c. Photograph 52-0-1925 (contd)

040 - SW gable of boathouse
041 - Cor of pier
042 - End of pier
043 - End of pier
044 - Pt of sand
045 - Tree
046 - End of pier
047 - Bush
048 - Pt of ma
049 - End of pier
050 - Bush
051 - gable
052 - Bush
053 - Tree
054 - Pt of ma at mouth of stream
055 - Tree
056 - Cor of pier
057 - Tree
058 - Bush
059 - Tree
060 - End of pier
061 - Cor of pier
062 - Tree
063 - End of pier
064 - CRAB PT Lt
065 - End of groin or breakwater
066 - SPINHOUSE PT SHOAL Lt
067 - End of pier
068 - End of pier
069 - End of pier
070 - Pt of sand
071 - Topo satation ROT, 1944
072 - Pt of ma

d. Photograph 52-0-1924

073 - Gable
074 - Bush
075 - Bush
076 - Bush
077 - Pt of ma
078 - Bush
079 - Tree
080 - Pt of ma
081 - End of pier
082 - Bush
083 - Bush
084 - Pt of ma
085 - Pt of ma
086 - End of pier
087 - End of pier
088 - Bush
089 - End of pier
090 - End of pier
091 - Bush
092 - Gable

e. Photograph 52-0-1923

093 - Smaller dark spot
094 - End of small pier
095 - Tree
096 - Pt of dark vegetation
097 - End of spit
098 - Dark spot on beach
099 - Bush
100 - Cor of pier
101 - End of pier

f. Photograph 52-0-1885

878 - Pt of vegetation
879 - Tree
880 - Bush
881 - Tree
882 - Center of sand area
883 - Tree
884 - End of pier
885 - End of pier
886 - Tree
887 - End of pier
888 - End of pier
889 - End of pier
890 - Bush
891 - Apex of shoreline
892 - Bush
893 - Pt of grass
894 - Tree
895 - Tree
896 - Tree
897 - Pt of ma
898 - Pt of ma
899 - Tree
900 - End of pier
901 - CARROTOMAN PT Lt

g. Photograph 52-0-1887

902 - NE tip of vegetation
903 - End of pier
904 - End of pier
905 - Entrance tip of pt
906 - End of pier
907 - SE gable of house
908 - Tree in opening
909 - Sand patch indentation in shoreline
910 - First large tree or bush away from woods
911 - Cor of end of pier
912 - Fence corner
913 - End of pier
914 - End of pier
915 - End of pier

g. Photograph 52-0-1887 (contd)

916 - End of pier
917 - End of pier
918 - N end of boathouse
919 - Tree on pt
920 - Extreme tip of pt
921 - Cor of end of pier
922 - End of pier
923 - Cor of bldg
924 - Gable of barn
925 - End of pier
926 - End of pier
927 - Cor of bldg
928 - SW gable of boathouse
929 - Tree on pt
930 - End of pier
931 - BAR PT Lt
932 - End of pier
933 - Lt
934 - End of pier

h. Photograph 52-0-1889

935 - End of pier
936 - Bush on extreme end of pt
937 - Middle tree or bush on pt
938 - Topo station FER
939 - Shoreline end of three trees on pt
940 - Tree
941 - Corner of platform on pier
942 - Tip of brush area
943 - Structure or tip of brush area
944 - Extreme tip of vegetation
945 - NE of two bushes
946 - Tree
947 - Tip of vegetation on pt
948 - Tree
949 - End of pier

i. Photograph 52-0-1890

950 - Bush on pt
951 - Cor of pier
952 - Tree
953 - Tree
954 - Edge of vegetation on tip of ma
955 - Bush or grass on pt
956 - Tree
957 - Indentation on backside of ma grass
958 - Topo station OLD
959 - Tree
960 - Dark spot in ma
961 - Bush
962 - Cor of house
963 - Extreme tip of ma
964 - Gable of boathouse

i. Photograph 52-0-1890 (contd)

965 - Pt of ma
966 - White area in ma
967 - White area in ma
968 -
969 -

j. Photograph 52-0-1923 (contd)

970 - End of fence in water
971 - Cor of pier
972 - Bush on pt
973 - End of pier
974 - Tip of grass
975 - Gable of house
976 - Tip of grass
977 - Tip of pt
978 - Tip of vegetation
979 - Pier
980 - End of pier
981 - Largest tree
982 - Cor of pier

k. Photograph 52-0-1922

983 - End of pier
984 - Bush on pt
985 - Tip of grass
986 - Cor of pier
987 - Edge of dark patch
988 - End of pier
989 - Tip of pt
990 - Bush
991 - Tip of pt
992 - Tree
993 - Tip of pt
994 Tip of pt

l. Photograph 52-0-1864

995 - White spot in ma
996 - Bush on pt
997 - Tip of pt
998 - Tip of pt
999 - Tip of pt
999a - End of dark line on pt
999b - Tip of pt
999c - End of pier
999d - White spot in ma
999e - Tree
999f - White spot in ma

m. Photograph 51-0-1095

The following signals are located on the south bank of the river and were positioned by the radial plot covered by the Radial Plot Report contained in Descriptive Report T-11060. They are repeated here for convenience in use in the field when T-11226 is employed.

858 - See DS for T-11058
866 - See DS for T-11058
867 - Tree between two large trees
868 - Cor of pier
869 - Gable of bldg
870 - Intersection of creek and dark image
871 - End of pier
872 - (cancelled)

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11052, 11054, 11056, 11226, 9898

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations ✓ 8. Bench marks N
9. Plotting of sextant fixes N 10. Photogrammetric plot report ✓ 11. Detail points ✓

✓ = checked
N = not applicable

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges ✓ 16. Aids to navigation ✓ 17. Landmarks N 18. Other alongshore physical features N 19. Other alongshore cultural features N

PHYSICAL FEATURES

20. Water features N 21. Natural ground cover N 22. Planetable contours N 23. Stereoscopic instrument contours N 24. Contours in general N 25. Spot elevations N 26. Other physical features N

CULTURAL FEATURES

27. Roads N 28. Buildings N 29. Railroads N 30. Other cultural features N

BOUNDARIES

31. Boundary lines N 32. Public land lines N

MISCELLANEOUS

33. Geographic names N 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay N 37. Descriptive Report ✓ 38. Field inspection photographs N 39. Forms ✓
40. _____ Reviewer _____ Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

_____ Compiler _____ Supervisor

43. Remarks:

M-2623-12

[illegible]

Cartographic Branch 4 March 19[illegible]

Chief, Photogrammetry Division

Review of Shoreline Maps, Project 27130 (Va.& Md., Hobjack Bay to Potomac River)

It is my understanding that the project instructions call for the compilation of any new roads or road realignments in the project area, but that compilation has actually been limited to shoreline and signals for hydrographic support and has not covered any interior details.

In view of the press of work now on hand, I do not think that we should compile additional information on these maps. If such is needed for a chart revision, Mr. Brooks' Unit can take care of it as a chart correction job.

In reviewing the project, please be concerned only with the shoreline and information for hydrography and ignore the omission of interior details.

L. W. Swanson, Chief,
Photogrammetry Division

[illegible]

[illegible]

[illegible]
[illegible]
[illegible]

[illegible]

REVIEW REPORT T 9898
T 11052
T 11054
T 11056
T 11226
Shoreline Surveys
8 April 1957

62. COMPARISON WITH REGISTERED TOPOGRAPHIC MAPS

T 603	1:10,000	1856
T 659	1:10,000	1856
T 660	1:10,000	1857
T 661	1:10,000	1857
T 2870	1:20,000	1905-06
T 8340	1:20,000	1942-46
T 8344	1:20,000	1942-44
T 8345	1:20,000	1944
T 8353	1:20,000	1944

The manuscripts delineate shoreline only and were prepared to establish signals for hydrography. Inshore revision of nautical charts is not possible.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

USGS Irvington, Virginia quadrangle; 1:24,000 1946
(The base for this quadrangle was T 8344)
USGS Lancaster, Virginia quadrangle; 1:24,000 1945
(The base for this quadrangle was T 8353)
USGS Urbanna, Virginia quadrangle; 1:24,000) 1946
(The base for this quadrangle was T 8345)
USGS Saluda, Virginia quadrangle; 1:24,000 1946
(The base for this quadrangle was T 8340)

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

8185, 8186, and 8187 al of which were made in 1954
Form 567 was submitted by the Hydrographer
On T 11226, the shoreline detailed in red was compiled by the Hydrographic Party after triangulating numerous hydro signals. The shift in detail was approximately 0.7 mm. which is understandable as the original shoreline was positioned by a cantilevered radial plot.

Hydrographic report 8185 called for shoreline corrections at the following positions on T 11056.

Lat. 37° 39.05'	Long. 76° 24.47'	Verified and corrected
Lat. 37° 39.89'	Long. 76° 26.28'	" " "
Lat. 37° 39.395'	Long. 76° 26.10'	" " "
Lat. 37° 39.30'	Long. 76° 25.29'	The object removed by the hydrographer is evidently a ramp and existed at the time of the photography.

64. continued from previous page.

Hydrographic Report 8186 called for corrections at the following positions on T 11056.

Lat. 37° 39.90'	Long. 76° 29.99'	Verified and corrected
Lat. 37° 39.848	Long. 76° 29.89'	" " "

Hydrographic Report 8187 called for corrections at the following positions on T 11054.

Lat. 37° 43.89'	Long. 76° 24.99'	Verified and corrected
Lat. 37° 43.36'	Long. 76° 26.55'	" " "
Lat. 37° 42.15'	Long. 76° 27.65'	" " "
Lat. 37° 43.39'	Long. 76° 25.35'	" " "
Lat. 37° 42.59'	Long. 76° 27.10'	The feature existed at the time of the photography. The change cannot be verified.

65. COMPARISON WITH NAUTICAL CHARTS

Chart # 534 1:40,000 3rd edition 7/2/51 revised 10/31/55
Chart # 1223 1:80,000 5th edition 8/22/55 revised 8/27/56

66. MAP ACCURACY

For the purpose of establishing hydrography, the manuscript was evidently of sufficient accuracy as no difficulties were encountered by the hydrographer.

The manuscript conforms with the National Standards of Map Accuracy and the project instructions as amended.

Reviewed by:

Hammond Rau

Approved:

L C Landy
Chief, Review Section
Division of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

Chief, Photogrammetry Division

Chief, Division of Coastal Surveys