8013

Form	50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Shoreline
(Photogrammetric)

Field No. Office No. T-8013

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Nandua Creek

CHIEF OF PARTY
R. H. Tryon, Jr., Chief of Party
Div. of Photogrammetry, Wash., D.C.

LIBRARY & ARCHIVES

DATE March 14,1952

B-1870-1 (1)

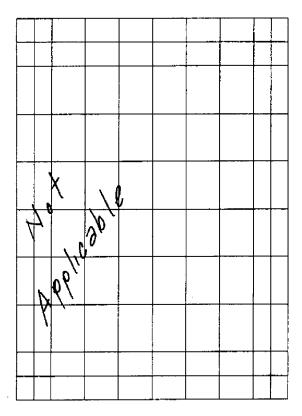
DATA RECORD

T ~8013

	Quadrangle Nan	ne (IV):	Nandua	Creek, Va.	
Field Office (II): Photogrammetric Office (III) Instructions dated (II) (III):	Graphic Compila Div. of Photog metry Washington, D	stion S gram-	Section	R. H. Tryon, L. C. Lande Copy filed in Division Photogrammetry (N	on of
Method of Compilation (III):	Graphic				
Manuscript Scale (III):]:]	0,000 st	ereoscopic	Plotting Instrume	ent Scale (III):	
Scale Factor (III):	.000				
Date received in Washington	Office (IV): 7-1/-49 D	ate reporte	d to Nautical Cha	art Branch (IV):	
Applied to Chart No.	Date:			(iv): 2-27-52	
Publication Scale (IV):			Publica	ation date (IV): ———	
Geographic Datum (III):	N.A. 1927		Mean sea level Elevations shown Elevations shown	cal Datum (III): M except as follows: nes (25) refer to mean high v nes (5) refer to sounding dat ster or mean lower low water	um
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*: Reference Station (III):	MASON, 1942.				
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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.



Areas contoured by various personnel (Show name within area)
(II) (III)

DATA RECORD

)	Field Inspection by (II): None	Date:	
	Planetable contouring by (II):	Date:	
•	Completion Surveys by (II):	Date:	
1	Mean High Water Location (III) (State date and method of location): MHW line delineated from single-lens photographs dated 5-3-49		
	Projection and Grids ruled by (IV): W. E. Ward	Date:	Мау, 1949
	Projection and Grids checked by (IV): W. E. Ward	Date:	May, 1949
	Control plotted by (III): C. Hanavich	Date:	June, 1949
)	Control checked by (III): R. W. Williams	Date:	June, 1949
	Radial Plot or-Stereoscopic Control extension-by-(HI): C. Hanavich	Date;	June, 1949
	Planimetry (11)	Date:	
	Stereoscopic Instrument compilation (III): Contours	Date:	
	Manuscript delineated by (III): C. Hanavich	Date:	June, 1949
	Dhatagrayanataia Office Daview by (Uh)	5	
	Photogrammetric Office Review by (III):	Date:	
•	Elevations on Manuscript checked by (II) (III):	Date:	

Camera (kind or source) (III):

USC&GS Single-lens Camera "O"

PHOTOGRAPHS (III)

Number Time Date Scale Stage of Tide 604 to 1:10,000 (ratioed) 610 incl. 5-3-49 1442 High Tide

Tide (III)

Reference Station: Subordinate Station: Hampton Roads

Occohannock Creek

Subordinate Station:

K. N. Maki Washington Office Review by (IV):

Final Drafting by (IV): Battley, Locas, Webber

Drafting verified for reproduction by (IV): C. Kupiec

Proof Edit by (IV):

Remarks:

Land Area (Sq. Statute Miles) (III):

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

|Ratio of | Mean | Spring | Ranges | Range | Range

Date: 10 April 1951

Date: Sept., 17, 1951

Date: Sept. 20, 1951

Date:

Recovered:

20 6

2

Recovered:

Identified: 1 (in 1942)

Identified:

SUMMARY TO ACCOMPANY T-8013

Data pertaining to T-8013 is filed as follows:

- A. Division of Photogrammetry General Files.
 - 1. Acetate manuscript for T-8013
 - 2. Duplicate of the descriptive report.

B. Bureau Archives

Registered data under T-8013 will include the descriptive report and a lithographic print of the map manuscript at compilation scale.

|--|

	SOURCE OF	DATUM	LATITUDE	OR y-CO	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE	FACTOR DISTANCE FROM GRID OR PROJECTION LINI
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Compilation Report Nandua Creek T-8013

27. Radial Plot:

Seven transparent acetate templets, which were prepared from single-lens ratioed prints (scale 1:10,000), were used for the radial plot of Nandua Creek. The single-lens photographs - contact scale 1:24,600 - were flown on 3 May 1949.

A recent graphic control survey (Topographic Sheet T-7106, 1949) of Nandua Creek provided the majority of the control for the plot. It was possible to identify enough of these stations on the photographs to provide the density of control desired. Two triangulation stations (MASON, 1942 and HARBORTON, 1932), which were identified in 1942 on Project CS-278-C, were used also.

A listing of the control stations used in the plot and held to, except as noted, follows: Triangulation stations MASON, 1942 and HARBORTON, 1932. Topographic stations MAN, MILL, NANDUA, and VIM. The identification of VIM was doubtful; although the two available rays to this station held in the plot, its location on the photographs, however, could not be adhered to rigidly during the compilation. Hydrographic stations GAS, JAP, JAR, JOB, FOE, RUB, SOW, TUB, LONE CEDAR Westernmost, Chy on small house, WIN, ZOO, KEY (all 3 rays intersected about 5 meters E of planetable location; identification of chy on house questionable), BUCK blind (all rays were close but identification in question), and MAT (all 3 rays intersected about 8 meters E of planetable position; identification doubtful).

The accuracy of the plot is believed to be satisfactory. On the whole, the intersections of the rays at the control stations were good. In several instances, some of the rays shaded the topographic and hydrographic stations, especially in those cases where the station was a chimney on a house which could not be identified definitely on the photographs. Another cause for this might be attributed to a traverse error of 5.6 meters which was not adjusted on the graphic control survey sheet as noted in the field descriptive report (T-7106) \$\frac{1}{3}\$

Topo graphic stations with descriptions on form 524
filed in the Div. of Photogrammetry general files:

NC 2 (USE) 1948
NC 1 (USE 1948
Ray, 1948
Pot, 1948
Vim, 1948
Pep, 1942
Man, 1948

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Photographic coverage can be considered as adequate. A little difficulty was found in distinguishing buildings from other detail due to poor definition as a result of ratioing the contact prints 2.46 times.

28. Detailing:

No field inspection work was done on the new photographs. The field inspection work accomplished on single-lens and nine-lens photographs in 1942, Project CS-278-C, was investigated and utilized to a minor extent. The occasional short stretches of shoreline located during the graphic control survey work were found to be of great help in identifying and classifying by analogy the remaining shoreline.

For additional information refer to the last paragraph of side heading 27.

29. Supplemental Data:

For the most part, very satisfactory junctions were made with the shoreline located during the graphic control survey work. The important discrepancies were these:

- (1) The location of a pier in the vicinity of Nandua.
- (2) The position and extent of a marshy point in Back Creek near station 100.
- (3) Shoreline location just NW of the mouth of Back Creek at station DIP.
- (4) The location of the shoreline at station VIM on Craddeck Neck.

Shoreline and other detail transferred to the map manuscript from Topographic Sheet T-7106, 1949, and from Hydrographic Sheet (boat sheet) H-7680, 1949, are indicated in a differing color - red.

30. Mean High-Water Line:

No field inspection was made of the mean high-water line on the 1949 single-lens photographs; it was interpreted in the office with the use of the stereoscope. The photographs were taken at high tide and no difficulty was experienced in delineating the shoreline. However, the extensive use of the stereoscope was necessary, because of poor definition, to distinguish the limits of marsh and fast land.

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For additional information refer to the first paragraph of side heading 28.

31. Low Water and Shoal Lines:

Shoal and channel lines were added to supplement the recent hydrographic work which has been done.

32. Details Offshore from the High-Water Line:

No additional offshore obstructions were discerned except for those noted by the graphic control and hydrographic survey parties.

33. Wharves and Shoreline Structures:

These structures were noted during the work on graphic control except for a few small piers.

34. Landmarks and Aids to Navigation:

Aids to navigation were located by the graphic control party.

Hydro. Aurucy H-7680

There were no landmarks.

35. Hydrographic Control:

Inapplicable.

36. Landing Fields and Aeronautical Aids:

None.

44. Comparison with Existing Topographic Quadrangles:

Except for minor natural changes, the configuration of the shoreline is in agreement with that of topographic quadrangles T-8169 to T-8172 inclusive. Differences were found in the interpretation of marsh and fast land limits along the shoreline.

45. Comparison with Nautical Charts:

A comparison was made with Chart 1223 (scale 1:80,000) and was found to be in general agreement when the difference in scale between the map manuscript and the chart is considered.

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Respectfully submitted:

Charles Hanarica Charles Hanavich

Approved by:

I. C. Lande

GEOGRAPHIC NAMES Survey No. T-801	.3	/ _Z -	de da de	S Med S	de jus	Or local mod	o Cuide o	Was Williams	N. J.	· · · · · · · · · · · · · · · · · · ·
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Virginia	•			_					USGB	1
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									 	3
Milbys Point /	•	(nor	th t	р Нуз	lop l	Warsh	37.	71/54	31)	4
Hyslop Marsh J	•			_						5
Craddock Ne ck J	•				•					6
Nandua Creek	•									7
Curratuck Creek	•					_			USGB	
Cedar View	•			Wharf]	T1-\	10
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REVIEW REPORT T-8013

Shoreline Map

10 April 1951

62. Comparison with Registered Topographic Surveys

T-307	1:20,000	1850
T-2654	1:20,000	1903-04
T-7106	1:10,000	1948
т-8169	1:20,000	1942
T-8170	Ħ	t i
T-8171	f 1	17
T-8172	11	tt

In the area of hydrographic signal stations Dip, Dog, and Daw and topographic station Nandua, 1948, there are differences in shoreline between the planetable survey T-7106 and T-8013. The photogrammetric shoreline supersedes the shoreline on T-7106 in these instances only. T-8013 supersedes the other listed previous surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies

None

64. Comparison with Contemporary Hydrographic Surveys

н-7680.

1:10,000

1948

There are no conflicting details between T-8013 and the hydrographic survey.

65. Comparison with Nautical Charts

1223

1:80,000, ed. 1943, corr. 10/30/50

There are no significant differences between T-8013 and the chart.

66. Adequacy of Results and Future Surveys

T-8013 is adequate as a base for hydrographic surveys and the construction of nautical charts and meets the requirements of the Bureau for shoreline maps.

67. Control

A number of triangulation stations falling within the limits of this map were not plotted, but have been listed on Form M-2388-12 attached to this descriptive report. These additional stations all have no check positions and are not described.

The Division of

Nan 2 RM, 1914 was transferred as such from T-7106. However, the station is lost and Geodesy does not publish a position for the reference mark although the reference mark is described in descriptive list number 376, p. 55, for the 1948 recovery which listed the station property as lost.

08. Road Classification

Roads were classified during review as either class 5 (double ful) or class 7. Previous surveys and office interpretation of the photographs furnished the basis for classifying the roads.

69. Geographic Names

A list of geographic names approved by the Geographic Names Section, Division of Charts is attached to this descriptive report.

Reviewed by:

F. M. Maki 2/27/52

Approved by:

S. V Juff h 428/52 Chief, Review Section Division of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

Chief, Div. of Coastal Surveys