TP-00321

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of SurveyShoreline
Job No. PH-7012 Map No. TP-00321
Classification No. Edition No
Field Edited Map
LOCALITY
_{State} Virginia - Maryland
Potomac River General Locality
·
·
19 72 TO 19 73
BEAUTEV III ABAMMET
REGISTRY IN ARCHIVES
DATE
Dogue Creek 19 72 TO 19 73 REGISTRY IN ARCHIVES

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

12289 (101) A-DK-9-77
12289 (560) PA-BW-2-79

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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP.00321
	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final (FE)
	REVISED	JOB PH- 7012
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division, Norfolk, VA	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS
Jeffrey G. Carlen, Cdr.	RESURVEY	SURVEY DATES:
<u></u>	L	
I. INSTRUCTIONS DATED 1. OFFICE	2.	FIELD
Aerotriangulation Jan. 9, 1973		
Compilation Feb. 14, 1973	July 18, 197	72
	<u> </u>	
II. DATUMS	OTHER (Specify)	
I. HORIZONTAL: \$\infty\ \text{\$\}\$}}}}\$\text{\$\texittit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\e		
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL: MEAN LOW-WATER MEAN LOWER LOW-WATER		
MEAN SEA LEVEL	<u> </u>	<u></u>
3. MAP PROJECTION	STATE	ZONE
Polyconic	Virginia	North
1:10,000	Maryland	ZONE
III. HISTORY OF OFFICE OPERATIONS	, j	<u> </u>
OPERATIONS	_NAME _	DATE
1. AEROTRIANGULATION BY METHOD: Stereoplanigraphnomarks and aids by	D.M. Bryant	Feb. 1973
2. CONTROL AND BRIDGE POINTS PLOTTED BY		
METHOD: Coradomat CHECKED BY		
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	L.O. Neterer, J F.P. Margiotta	
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	NA Margiotta	Mar. 1973
SCALE: 1:15,000 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	L.B. Foltz	Apr. 1973
CHECKED BY CONTOURS BY	R.R. White	Apr. 1973
метною: Smooth Drafted	NA	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY	L.B. Foltz	Apr. 1973
CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R.R. White	Apr. 1973 Apr. 1973
BY	G.R. Vanderhave	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	A.L. Shands	Mar. 1975
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	A.L. Shands A.L. Shands	Mar. 1975 Feb. 1977
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	A.L. Shands	Mar. 1977
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J.B. Phillips	Apr. 1977
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	RITI Cafer	May 1977



NOAA FORM 76-36B (3-72)				מיד ר	heen.	ATIONAL OCE	NIC AND A	, DEPA	RTMENT (OF COMMERCE
			CO	TF-U MPILATIO				NA	I TONAL O	CEAN SURVE
				mi ieatio						
1. COMPILATION PHO	TOGRAPHY				<u> </u>					
CAMERA(S) Wild RC-8 "	go y s	14		TYPE	S OF PH LEG	IOTOGRAPHY END	1	TIME	REFERE	NCE
TIDE STAGE REFEREN				(CI) C		INERARE				
REDICTED TIDES		n.e		(P) PAI		IATIC	Eas MERIDI	tern		X STANDARD
REFERENCE STAT				(t) INF	RARED		1	5 W		DAYLIGHT
NUMBER AND	TYPE		DATE	TIME	:	SCALE		ŞTA	GE OF TI	DE
72E(CI)1650	<u></u>	47	/18/72	11:44	ŀ	1:30,000	2.8	ft.	abov	e MLW
72E(CI)1660	- 1663	4,	/18/72	11:56	5	1:30,000	2.2	? ft.	abov	e MLW
								-		
REMARKS				<u> </u>						
			tograph			compiled cove.	Trom (, ne	,0101	
3. SOURCE OF MEAN						• photogr	aphy a	avail	able.	
4. CONTEMPORARY	IYDROGRAI	PHIC SU	RVEYS (List	only those s	uveys ti	net are sources f	or photogram	metric :	survey info	rmation.)
SURVEY NUMBER	DATE(S)		SURVEY CO				DATE(S)		SURVEY	COPY USED
5. FINAL JUNCTIONS					_				-	
NORTH		EAST			SOUTH			WEST		
No Survey		TP-0	00322		TE	°-00325		TE	<u>'-0032</u>	0
REMARKS										

NOAA FORM 76-36C (3-72)	TP-00321 HISTORY OF FIELD		U. S. DEPARTM NIC AND ATMOSPHER NATION		MATION
1. X FIELD INSPECTION OPE	RATION FIEL	D EDIT OPERATION			
OP.	ERATION		NAME	DAT	E
I. CHIEF OF FIELD PARTY		R.D. 01so	n	Oct.,	197
	RECOVERED BY	R.D. Olso		Oct.,	197
2. HORIZONTAL CONTROL	ESTABLISHED BY	None			
·	PRE-MARKED OR IDENTIFIED BY		n & C.V.U.	Oct.,	197
	RECOVERED BY	NA			
3. VERTICAL CONTROL	ESTABLISHED BY	NA			
	PRE-MARKED OR IDENTIFIED BY	N A			
	ECOVERED (Triangulation Stations) BY	None			
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Fleid Methods) BY	None			
	TYPE OF INVESTIGATION	None	 ,	 _	
5. GEOGRAPHIC NAMES	COMPLETE				
INVESTIGATION	SPECIFIC NAMES ONLY				
	X NO INVESTIGATION				
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY				
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA			
II. SOURCE DATA	<u>.</u>				
1. HORIZONTAL CONTROL IDE	NTIFIED	NA	ITROL IDENTIFIED		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION	
72E(CI)1661 FERRY (E) 72E(CI)1650 GUM SE (E) WPIK N	PRINGS RADIO STATION				
3. PHOTO NUMBERS (Clarification) None 4. Landmarks and aids to N					
None-					
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME	
				··· ·	
5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AN	D LIMITS: REPO	RT NO	NE.
7. SUPPLEMENTAL MAPS AND					
None					
·	etch books, etc. DO NOT tist date submit	·	•		

NOAA FORM 76—366 (3—72)		TP-00321 History of Field		L OCEANIC AND		ADMINI	
.i. 🗀 PIELD INSP	ECTION OPERA	TION 🙀 FIRE	D EDIT OPE	RATION			
	OPE	ATION		NAME		D	ATE
1. CHIEF OF FIEL	D DARTY		J.W. I)avie	 ,	A11.00	1973
I CHIEF OF FIEL				avis		Aug.	
. 2. HORIZONTAL C	CONTROL	RECOVERED BY	None	<u> </u>			4715
ZI HOMEON AL		PRE-MARKED OR IDENTIFIED BY	N A			 	-
	······································	RECOVERED BY	NA				
3. VERTICAL CON	NTROL	ESTABLISHED BY	N A				
		PRE-MARKED OR IDENTIFIED BY	NA				
	REC	OVERED (Triangulation Stations) BY		avis			1973
4. LANDMARKS AT AIDS TO NAVIG		LOCATED (Field Methods) BY		avis		Aug.	1973
AIDS TO MAVIO		IDENTIFIED BY	J.W. I	oavis		Aug.	1973
		TYPE OF INVESTIGATION					
5. GEOGRAPHIC N INVESTIGATION		COMPLETE SPECIFIC NAMES ONLY	1				
		NO INVESTIGATION					
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	J.W. I	avis		Aug.	1973
7. BOUNDARIES A	~	SURVEYED OR IDENTIFIED BY	NA				
II. SOURCE DATA							
1. HORIZONTAL C		TIFIED	2. VERTIC	AL CONTROL II	DENTIFIED		
Nor	ne		ļ	,			
PHOTO NUMBER		STATION NAME	РНОТО И	MBER	STATION DES	GNATIO	N
·							
3. PHOTO NUMBE	RS (Clarification	of details)					
4. LANDMARKS A		1661 and 72E(CI) 1	562				<u>-</u>
PHOTO NUMBER		OBJECT NAME	PHOTO NU	MBER	OBJECTI	NAME	
72E(CI) 1662		VOIR MOORING LIGHT "B"					
5. GEOGRAPHIC N	NAMES:	REPORT Y NONE	6 90000	ARY AND LIMITS	: [] e====	T 5251	NONE
7. SUPPLEMENTA	 =		U. BOUND	THE PROPERTY	E REPOR	<u> </u>	NONE
	None						
l Fie l Fie l Fil	eld Edit eld Edit lm Ozalid			odesy Division)) Landmar	ks and A	ids	

NOAA FORM 76-36D (3-72)

TP-00321 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

j	·		RECO	RD OF SURVE	Y USE			,
I. MANUSC	RIPT COPIES							!
<u> </u>	<u> </u>	MPILA	TION STAGE	5 1			DATE MANUSCI	RIPT FORWARDED
	DATA COMPILED	<u> </u>	DATE	 	MARKS		MARINE-CHARTS	HYDRO SUPPORT
	ation complete g field edit.	47:	1973	Class III Manus	I script		6/8/73	6/6/73
	edit applied ation complete	3/:	1975	Class I Manus	script		4/18/75	-
Final	Review	2/:	1977					
			·					
	ARKS AND AIDS TO NAVIGA							
1, REP	ORTS TO MARINE CHART DI	VISIO	N, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	FC	DATE			REM	ARKS	······································
1		7.	/16/75	Landmarl	ks to b	e ch	arted	<u>. </u>
1		7,	/16/75	Aids to	be cha	rted		
	,							
: _				·				· ·
					-			
			· ·					
	REPORT TO MARINE CHART REPORT TO AERONAUTICA							
III. FEDER	RAL RECORDS CENTER DAT	Α						-
2. 🕅 3. 🍞	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	FICAT eograp IS:	FION CARDS; phic Names Re	, X FORM NO Port) AS LISTED I	s ⊸séa ^O SÜÉMY1	TTED BY		·
	Y EDITIONS (This section s				n edition is re	nistered	,	
	SURVEY NUMBER		JOB NUMBE		32.1.3.7.70		TYPE OF SURVEY	
SECOND	TP -	(2)	PH			RE	VISED 🔲 RI	ESURVEY
EDITION	DATE OF PHOTOGRAPH	4Y	DATE OF FI	ELD EDIT	□.ıı.	□ա.	MAP CLASS	FINAL
	SURVEY NUMBER		JOB NUMBE	R	· — · · · · · · · · · · · · · · · · · ·	_	TYPE OF SURVEY	
' THIRD	тр	(3)	Рн			∐ RE\	VISED DRE	ESURVEY
EDITION	DATE OF PHOTOGRAPH	4Y	DATE OF FI	ELD EDIT	<u>.</u>	□յո.	MAP CLASS	FINAL
	SURVEY NUMBER		JOB NUMBE	R .			TYPE OF SURVEY	
FOURTH		_ (4)	PH			∐ RE\	VISED . DRE	SURVEY
EDITION	DATE OF PHOTOGRAPH	ΗY	DATE OF FI	ELD EDIT		т	MAP CLASS	

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00318 thru TP-00322, TP-00217 and TP-00333

' Project PH-7012 covers the upper Potomac River from Maryland Point north to Latitude 38° 57' 00" at Little Falls Dam. All tributaries emptying into the Potomac along this route were mapped to their headwaters.

There are seventeen 1:10,000 scale maps in this project, the purpose of which is to provide contemporary shoreline in support of hydrographic operations conducted in the area from 1972 to 1974. To better coordinate the shoreline compilation with the scheduling of hydrographic operations, compilation was divided into two parts. The southern half, consisting of ten manuscripts, TP-00323 through TP-00332, was compiled in the Rockville office in 1972. Field edit was applied and Final Review was performed on these manuscripts by employees of the Rockville office. Reference should be made to "Job Completion Report PH-7012 (Southern Part)" by J. B. Phillips for information concerning these manuscripts.

Compilation of Manuscripts TP-00217, TP-00318 through TP-00322 and TP-00333, comprising the northern portion of the project, was accomplished at the Atlantic Marine Center in March and April of 1973. The Wild B-8 stereoplotter was used. Tandem flights of color infrared and black and white infrared photography flown in April 1972 at 1:30,000 scale were provided. The color infrared photography was used for both compilation and hydro support purposes. They were the only set of photographs sent to the field. The black and white infrared photography was not used during any phase of compilation or field edit.

The stage of tide at the time of photography was one foot above the mean high water plane as determined from the hourly heights supplied by the Tides Branch (see attached). This circumstance may have resulted in a slight displacement of the shoreline in marsh and swamp areas. It is not felt, however, that this would materially affect the overall shoreline delineation. Cloudy water conditions coupled with the high tide level resulted in those features (rocks, wrecks, shoals, etc.) in the river at or below MHW not being visible on the photographs. As a result, many of the features picked up by the hydrographer could not be verified photogrammetrically.

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. This was done in August through September, 1972.

Field edit was accomplished in July 1973, November 1974, and February 1975. It was applied at AMC at various times between November, 1973 and April, 1975.

Final review of TP-00217, TP-00318 through TP-00322, and TP-00333 was done at AMC in January and February, 1977.

The original stabilene base manuscripts, each 1:10,000 scale, were forwarded to the Rockville office for reproduction of registration copies.

NATIONAL OCEAN SURVEY (NCAA). TIDES, HOURLY HELGHTS (FEET).

PAGE 2

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APR 1972 TM 75.00W

F	~~	44.00	. #
DAY	l i b	MIL F	11H

HOUR	12	13	14	15	16	17	18	19	20	21	22
0	4.20	5.16	5.61	6.15	6.87	8.05	7.88	8.11	7.13.	4.85	7.18
1	3.98	4.87	5.22	5.62	6.28	7.44	7.39	7.80	7.27	5.80	7.95
2	4.19	4.85	4.96	5. 24	5.74	6.88	6.83	7.28	7.06	6.37	8.17
3	5.22	5.55	5.01	5.01	5,33	6.39	6.30	6.73	6.62	6.64	8.00
" 4	6.41	6.85	6.06	5.30	5.06	6.04	5.89	6.23	6.06	6.60	7.66
5	7.15	7.94	7.43	6.57	5,16	5.75	5.57	5.85	5.59	6.22	7.24
, 6	7.45	8.33	8.26	7.79	6.25	5.64	5.41	5.56	5.18	5.66	6.79
7	7.41	8.44	8.62	8.44	7.52	6.35	5.72	5.44	4.90	5.11	6.37
8	7.01	8.18	8.59	8.71	8.25	7.36	6.87	5.67	4.76	4.72	6.01
9	6.41	7.53	8.18	8.61	8.57	7.98	7.94	6.50	4.83	4.54	5.72
10	5.76	6.86	7.51	8.15	8.49	8.22	8.48	7.42	5.45	4.76	5.52
11	5.17	6.22	6.78	7.50	8.07	7.95	8.66	7.97	6.38	5.65	5.68
. 12	4.73	5.76	6.13	6.86	7.46	7.47	8.51	8.16	7.01	6.74	6.50
13	4.45	5.47	5.64	6.30	6.82	6.89	8.06	7.99	7.22	7.38	7.53
14	4.47	5.19	5.25	5.82	6.27	6.35	7.49	7.55	7.24	7.65.	8.23
15	5.25	5.18	4.94	5.51	5.90	5.88	6.92	7.01	6.85	7.67	8.56
16	6.53	5.94	.4.64	5.21	-5.60	5.51	6.46	6.46	6.19	7.43	8.57
1.7	7.43	7.10	5.61	5.17	5.40	5.25	6.11	6.02	5.64	7.05	8.22
18	7.91	7.85	6.89	5.97	5.74	5.12	5.86	5.67	5.13	6.59	7.66
19	8.01	8.15	7.78	7.20	6.97	5.41	5.70	5.41	4.70	6.17	7.09
20	7.68	8.08	8.12	7.98	8.11	6.43	5.89	5.18	4.28	5.83	,6.62
21	7.01	7.58	8.01	8.26	8.55	7.42	6.69	5.18	3.97	5.58	6.25
22	6+29	6.86	7.53	8.09	8.84	7.96	7.63	5.67	3.79	5.62	5.96
23	5.65	6.20	6.83	7.57	8.61	8.07	8.10	6.55	3.95	6.21	5.71
DATUM	15			•••••		•		بر	66		•

Subtract 4.26 to refer to MLW

7 90 above MEW

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. No report was submitted.

PHOTOGRAMMETRIC FLOT REPORT

Job PH-7012

Upper Potomac River, Maryland - Virginia (Part 2)

February, 1973

21. Area Covered This report covers an area of the Potemac and Anacostia Rivers south from latitude 38 57 00" to 38 40 00" where it joins Part 1 of this project. The job consists of seven (7) 1:10,000 scale sheets (TP-00318 thru TP-00322, TP-00217, and TP-00333).

22. Method
Six (6) strips of photographs (strip 1 and strips 3 thru 6) were bridged using the C-8 Stereoplaingraph and adjusted on the IBM 1620. Strip 2 was bridged on the S.T.K. and adjusted by analytical aerotriangulation methods. All strips were adjusted to field-identified horizontal control stations with the exception of strips 3 and 5, where office-identified control stations were used to supplement the field-identified control. Ties were made between all strips. The sketch shows the location of the strips of photography and the horizontal control stations used in bridging. Common image points were located during bridging between the color infrared photography and the black-and-white infrared photography in order to determine a ratio for the enlargements used in compilation.

Data for the seven (7) 1:10,000 scale compilation sheets were plotted by the Coradomat 21 Plotter on the Maryland and Virginia (north zone) coordinate system.

. 23. Adequacy of Control
All horizontal control used in the adjustment was field identified except for the following stations:

WOODBRIDGE Relay Mast 1957
BELLEVUE D.C. Fire Dept. Training Center Tank 1970
ALEXANDRIA Washington Masonic Nat. Memorial 1934

These office-identified stations were used only because they provided a better balance of control for the adjustment.

In general, the identification of horizontal control stations (subpoints) was poor. Also, the mathematical solutions for the subpoints were very poor because of small angles involved in computing azimuths. Horizontal control was adequate.

24. Supplemental Data
USGS quadrangles were used to provide vertical control for the strip adjustments.

25. Photography
The following RC-8 color infrared photography (E camera) was used for bridging and the black-and-white infrared (K camera) was flown in tandem with the E camera:

1:30,000 scale photography

strip l	72 E(c) 72 K	3.624R 7254R	thru	1631R 7262R
strip 2	72 E(c) 72 K	1615R 7245R	thru	1621 <u>R</u> 7252R
strip 3	72 E(c) 72 K	1594R 7225R	thru	1601R 7232R
Strip 4	72 E(c) 72 K	1644R 7275	thru	1649R 7279R
strip 5	72 E(c) 72 K	1654 7285	thru	1666R 7297R
strip 6	72 E(c) 72 K	1649R 7280R	thru	1655R 7236R

Photography was adequate as to coverage, overlap, and identification.

Submitted by

Donald M. Brant

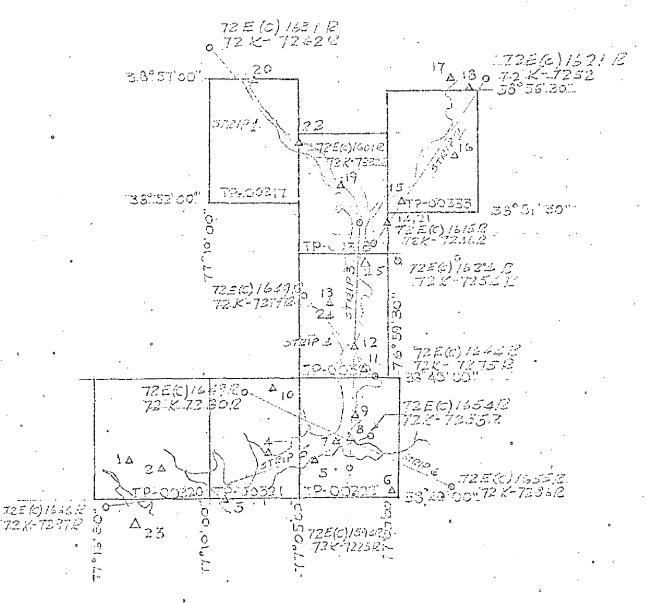
John D. Perrow, Jr.

Chief, Aerotriangulation Section

JOB PH-7012 PART 2

UPPER POTOMAC RIVER MARYLAND-VIRGINIA

SHORELINE MAPPING



LEGEND.

A MORIZONTAL CONTROL (USED IN BRIDGING)

O PROJODO SCALT COLOR IN FRAMED (FOR DECRETA)

O PROJODO SCALT BLACK STHITE INFRAMED

KEY TO CONTROL ON PARE 2

JOB PH-7012

KEY TO HORIZON THE CONTROL USED FOR BRIDSING

- I. OCCOPUAN PEHAL INST. STANDPIPE 1959
- 3. OX 1959
- 3. WIG 1934
- A. FERRY POINT 1959
- 5, BRYAN 2 1925
- 6. BEALLE RM 5 1957
- 7. UPPER POTOMAC RIVER LIGHT 77 1959
- 8. FORT 1928
- 9, RIVERVIEW WHARF LIGHT 82 1959
- 10 GUM SPRINGS RAD. STA. WPIK MAST 1969
- 11. QUEEN 2 1959
- 12. UPPER POTOMAC RIVER LIGHT 88 1959
- 13. TEMPLE 1954
- 14. ST. ELIZAGETH'S INSAME ASYLUM RED STACK 1934
- 15, SE 154 A 1960
- 16, NE 146 C
- 17. HYATTSVILLE RAD. STA. KGA 361 MAST 1970
- 18. ROGER HEIGHTS STAND PIPE 1952
- 19. GATE 2.1970
- 20. MAP AMS 1952
- 21. INSANE 1912
- 22. ST. PATRICKS EPISCOPAL CHURCH BELL TOWER
- 23. WOODBRIDGE RELAY MAST 1957
- 24, ALEXARDRIA WASHINGTO MASONIC NAT MEMORIAL 1934
- . 25. BELLEVUE D.C. Fire Dept. Training center TANK 1970

		DESCRIPTIVE	'E REPORT CONTROL RECORD				
MAP NO.	JOB NO.	•	11111		ORIGINATING ACTIVITY	rivitY	
TP-00321	PH-7012		N.A. 1927		Coastal Map	Mapping Div. (N	(Norfolk)
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET	GEOGRAPHIC	POSITION LATITUDE	REM	REMARKS
		NUMBER	ZONE		LONGITUDE	FORWARD	BACK
MT VERNON, DOCK VANE ON	G. P. G-2888		=X	φ 38 42	16.912	521.5	(1328.6)
OLA, (VA), 1928	P. 122 MD		±ħ	λ 77 05	18,105	437.5	(1012.3)
MT. VERNON. MANSION. CUPOLA	4 G.P.G-2888		χ=	ф 38 42	28.27	871.7	(978.4)
), 1928	<u>р</u> ,		-ħ	λ 77 05	11.27	272.3	(1177.5)
	G D G-3643		≈X	ф 38 40	59.978	1849.4	(00.7)
ACCO, 1926	P. 192 MD		y≈	γ 77 09	57.192	1382.3	(67.9)
C = OW BWBATTWOW WREGINGOR	2026 0 4 0		≈χ	φ 38 40	26.291	810.7	(1039.4)
(VA), 1929	P. 167		ή=	λ 77 07	59.503	1438.4	(12.0)
63 ON HINEMILINOM AGRENITOG	שמשנים משמע		χ≈	φ 38 41	966.90	215.8	(1634.3)
י	P. 167		<i>ψ</i> ≈	λ 77 07	22.854	552.4	(897.8)
NON THEM WONTENED SA	9898-5 a 5		= X	\$ 38 41	49,675	1531.7	(318.4)
•	P. 166		β≈	λ 77 06	18.436	445.5	(1004.7)
WOLDKO OTOKO SONIGOS MID		!	<i>≃</i> χ	φ 38 44	43,318	1335.8	(514.4)
1969	P. 14 VA		y≈	λ 77 05	58.411	1410.6	(38.4)
	G.P. VOI. I		×χ=	\$ 38 4T	49.735	1533.6	316.5
FERRY POINT, 1902	14 V2		- <i>h</i>	λ 77 06	18.326	442.9	1007.1
FT REIMOTR RIDG 204	G P G-14477		χ=	φ 38 4 1	34.870	1075.2	(774.9)
κ, 1957	P. 14 VA		<i>i</i>	λ 77 08	30.267	731.5	(718.5)
FT. BELVOIR BIDG. 509	P. 14 VA		-χ	φ 38 41	06.484	199.9	(1650.2)
1.5	P. G		<i>∄</i> ≈	λ 77 08	06.412	155.0	(1295.2)
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HAND PLOTTING BY	D.A.	TE (E	HAND PLOTTING CHECKED BY		DATE	

COMPILATION REPORT

TP-00321

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter. Photo coverage was adequate, and was at or near mean high water.

32. CONTROL

See Photogrammetric Plot Report, dated - Feb., 1973.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of Forms 76-40, have been forwarded to the field editor for additions, deletion, and confirmations.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-36b, Item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S. Geological Survey quadrangles Mount Vernon, MD-VA, 1:24,000 scale dated 1966 and Fort Belvoir, VA-MD, 1:24,000 scale dated 1965, photorevised, 1971.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with National Ocean Survey charts 101 SC, Edition 15, dated December 30, 1972 and 560, Edition 32, dated February 26, 1972; each scaled 1:40,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Ad. Schands for

L.B. Foltz

Carto. Aid, April 6, 1973

Approved:

A.C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

ADDENDUM TO COMPILATION REPORT

TP-00321

The field edit was adequate. All questions asked were answered. However, the sextant fix data given on the Field Edit Ozalid for fixes number 1, 2, 3, and 6 required analysis, interpretation and assumptions of the office compiler. The following is an account of the problems encountered and their subsequent resolutions:

- Fix 1 the check angle given is not measured between the center object and check object but between the left object and check object.
- Fix 2 the check angle given would not fit any of the signal positions. The position was plotted with the check angle being ignored.
- Fix 3 the given right angle was ignored because using it results in a plotted
 position far away from that spotted on
 the field edit ozalid by the field
 editor. The check angle was used for
 the right angle. Signal 506 was used
 as the center object and signal 427 became the right object. Making the assumption, that the left angle and check
 angles were correctly observed as reported
 and computing the differences Fix No. 3
 is modified thusly:

175 Left Obj 104° 58' 506 Center Obj 427 Right Obj 33° 29'

Fix 6 - signal 348 located too far away to allow plotting with protractors available in compilation office. The check angle was used as the right angle.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomać River)

TP-00321

Accotink Bay

Accotink Creek

Dogue Creek

Ferry Point

Gunston Cove

Little Hunting Creek

Marshall Hall

Maryland

Mount Vernon

Potomac River

Riverside Estates

Vernon Square

Virginia

Waldon Woods

Whitestone Point

Woodland Park

Yacht Haven

Approved by: Was C. Hawway Staff Geographer-C51x2
Chas. E. Harrington

	_		RIC OFFICE REVIEW - 00321				
A PROJECTION AND GRIDS	2 TITLE		13. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE			
•				-,			
RRW	RRW		RRW	RRW			
CONTROL STATIONS							
HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERA	AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS			
RRW	•	(1 opograpni	an THIRD-ORDER ACCURACY	X X			
BENCH MARKS	9. PLOTTING O	FSEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS			
N A			RRW				
LONGSHORE AREAS (Nautica,	Chert Data)			·			
2. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES			
RRW	хх	,	хх	RRW			
6. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES			
RRW	RRW	ī	RRW	RRW			
	1 1111		ļ				
HYSICAL FEATURES 0. WATER FEATURES		121. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR			
		THE REPORT	N A	NA			
RRW			NA				
3. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES			
NA	NA		NA	RRW			
ULTURAL FEATURES	. •		:	· · · · · · · · · · · · · · · · · · ·			
7. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES			
RRW	RRV	1	X X	RRW			
OUNDARIES	. I						
II. BOUNDARY LINES NA			32. PUBLIC LAND LINES				
NA HSCELLANEOUS	•		····				
3. GEOGRAPHIC NAMES		34. JUNCTION	s	35. LEGIBILITY OF THE			
DDU			RRW	RRW			
RRW	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39. FORMS			
	nn.		PHOTOGRAPHS X X	RRW			
RRW	RRV	· · ·	SUPERVISOR, REVIEW SECTI				
Richard 11.4 Richard R. White	/ hita 4/10	0/73	A.C. Rauck, Jr	Panch. h.			
1. REMARKS (See attached she			1				
FIELD COMPLETION ADDITION		TIONS TO THE M	IANUSCRIPT				
2. Additions and corrections script is now complete ex-	s furnished by the	e field complet ler item 43.	ion survey have been applied	to the manuscript. The manu-			
R. Vanderhaven	3/:	L975	SUPERVISOR C	Rausko.			
		1975	A.C. Rauck, Jr	· 1 2000011. Al.			
: A.L. Shands			1	_			

Sheet TP-00321

Dogue Creek

Upper Potomac River, Md.-Va.

PH-7012

August 1973

51, METHODS

All field edit work was done under the instructions of Photo-Hydro support and field edit, OPR-409-742-73, Potomac River, Maryland-Virginia, dated Jan. 9, 1973, and as amended, Feb. 15, 1973.

A visual inspection and verification was made of all shoreline and alongshore features. Details are indexed on the field edit ozalid in violet to indicate additions or corrections and in green to indicate deletions.

52. ADEQUACY OF COMPILATION

Compilation was generally adequate in shoreline delineation and alongshore features except as noted on the field edit ozalid. Significant "grass in water" exists in Accotink Bay and has been delineated by planetable cut and geodimeter distance from a photo-hydro signal. Two rows of piling and one pile were also cut in by the same methods.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No discrepancies in geographic names were found while editing this sheet.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

Three nonfloating aids to navigation are recommended for charting on this sheet. Two of these, Fort Belvoir Mooring Dolphin Lights A and B were compiled correctly and were verified by theodolite. The other, Whitestone Point Light, was located by third order methods.

Four landmarks, three of which are recovered triangulation stations, are also recommended for charting.

58. MISCELLANEOUS

All times mentioned on the Field Edit Ozalid refer to Green-wich Mean Time.

Respectfully Submitted,

James W. Davis LTJG NOAA

Chief, Photo Party 61

orig. to charts

	ACTIVITY.	RTY	TIVITY	OL & REVIEW GRP.	sible personnel)		CHARTS	AFFECTED		10130	= =	==	==	= =				14
11	ORIGINATING ACTIVITY	GEODETIC PARTY PHOTO FIELD PARTY	COMPILATION ACTIVITY	QUALITY CONTROL & REVIEW GRP	(See reverse for responsible personnel)	F OF LOCATION	on reverse side)		FIELD	Trieng. Rec. Aug. 2,1973	V-Vis.	Triang. Rec Aug. 2,1973	Triang. Rec Aug. 2,1973	Aug. 2,1973				
	U.S. DEPARTMENT OF COMMERCE		DATE	Mar.1975		METHOD AND DATE OF LOCATION	(See instructions on reverse side)		OFFICE	72E(C)(I)1660	72E(C)(I)1661 Apr. 18, 1972			72E(C)(I) 1662 Apr. 18, 1972				
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			STATE	Div. Virginia	been inspected from seaward to determine their value as landmarks	SURVEY NUMBER	11-00,361		or aid to navigation. applicable, in parentheses)	Cupola,(Va.),1928)	t Park, Carousel	g 509, Tank,1957 ove	Building 704, Tank, 1957)			hands		
			REPORTING UNIT	Coastal Mapping AMC- Norfolk, Va.	VE NOT	JOB NUMBER	11-1015	DESCRIPTION	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	(Mt. Vernon Mansion Cup	Marshall Hall Amusement Park, Cupola. Ht.=32(42)	-(Fort Belvoir, Building 509, Ht.=114(264)	(Fort Belvoir, Building Ht.=114(254)			Additions in red by A.L.Shands Final Reviewer 2/19/77		
The second second	176-40	Replaces C&GS Form 567.	HARTED	ELETED	ing objects	CT NO.				(Mt.	Mars	~(For	(For			Additions Final Rev		
	NOAA FORM 76-40 (8-74)	Replaces C&	X TO BE CHARTED	TO BE DELETED	The following objects	OPR PROJEC	tot		CHARTING	· CUPOLA	- CUPOLA	TANK	TANK	BOAT				

orig. to charts
7/11/75

CTIVITY ARTY	, , , , , , , , , , , , , , , , , , ,	IVITY L & REVIEW GRP. NCH	tible personnel)		CHARTS	AFFECTED		10150	7500	==	==		= = ; ;	==	= =			146
ORIGINATING ACTIVITY HYDROGRAPHIC PARTY	GEODETIC PARTY PHOTO FIELD PARTY	COMPILATION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP COAST PILOT BRANCH	(See reverse for responsible personnel)	METHOD AND DATE OF LOCATION	(See instructions on reverse side)		FIELD	Field located	F-2-6-L	" * " " F-2-6-L	= *	F-2-6-L	. F-2-6-L Aug. 2,1973	F-2-6-L Aug. 2,1973	Aug 1,1973			
U.S. DEPARTMENT OF COMMERCE		рате Маг. 1975			(See instructions		OFFICE								72E(C)(1) 1662 Apr. 18,1972			
S. DEPART ATMOSPHE		ver	· landmarks.			LONGITUDE	// D.P.Meters	12.91	315	-20.03	18.66	451	·24.54 · 593	25.44 .615	-31.67			
EANIC AND	ARTS	ALITY Potomac River	eir value as	N.A.1927	POSITION	LONG	/ 0	,	80-77	70-77	77-05	(n-1)	70-77	77-08	80-77			
TIONAL OC	FOR CHARTS	- Pote	etermine th	A.N	POSI	LATITUDE	// D.M.Meters	>21.86	· 674	10.25	121.50	. 663	,04.09 126	20.93	-24.43 -753			
NA	DAMENTO	ia	award to d	DATUM		LAT	, ,	NO -	38-40	38-41	سمر مرد ر	75-00	38-41	38-40	38-40			
	3 AIC	LV. Virginia	been inspected from seaward to determine their value as landmarks	SURVEY NUMBER	IF-00321		or aid to navigation. applicable, in parentheses	nt List)		nt List)	it List)			Dolphin	Dolphin	ted, but the stated by the	0	2/19/77
j	NONFLOATING AI	REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. AMC Norfolk Va.	HAVE NOT		rn-/ULZ	DESCRIPTION	Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	37 (Not in 1975 Light	Private aid	Prv 38 (Not in 1975 Light List) Private aid	Prm 26 (Not in 1975 Light	Private aid	Whitestone Point Light	t Belvoir Mooring Dolphin Light A	Fort Belvoir Mooring Dolphin Light B	* Positions field located, but the method of location not stated by the field editor.	Method of location stated edit ozalid. No date given.	A.L.Shands , Final Reviewer
-40	691-77.31		ects				(Record res	Prv 37		Prv 38	Prm 26		White	Fort	For	* Por methr fielt	Meth	A.L.S
NOAA FORM 76-40 (8-74)	Replaces C&GS Form 567.	XXTO BE CHARTED TO BE REVISED TO BE DELETED	The following objects	OPR PROJECT NO.	407		CHARTING	DAY	BEACON	DAY	DAY	BEACON	LIGHT	LIGHT	LIGHT			

ack

REVIEW REPORT TP-00321

SHORELINE MAP

February 23, 1977

61. GENERAL STATEMENT:

See Summary, which is pages 6a and 6b of this Descriptive Report. A comparison print showing the differences noted in paragraphs 62 through 65 is submitted with the original of this report.

The image identified by the field editor on Matte Ratio Print 72E(CI)1662 as a "wood structure" is a blemish, visible only on that photograph. The field editor misidentified the wood structure which is actually, 248 meters southeast of the position identified. This reviewer has identified the correct image on the ratio print mentioned and attached an explanatory note. The structure is located in Dogue Creek.

Statements made on the field edit ozalid and Form 526 to the affect that the position of triangulation station, "Concrete Range Post," south of Mt. Vernon Dock, was verified but leaning and deteriorating, is contradictory. The post is 65 meters offshore, in 3 feet of water. The range of tide here is 3 feet. If the post is noticeably leaning, it is unlikely that it is any longer of value as a triangulation station. The feature is shown on the map at Latitude 38° 42.0', Longitude 77° 05.8' and labeled "Conc. Pile." The height of the post is not known.

Sextant fixes, Numbers 1, 2, 3, and 6 could not be used by the compilation office as they were presented on the field edit ozalid. It was necessary, for the compilation office to analyze, interpret and in some instances, make logical assumptions about the fix data. See Addendum to Compilation Report, Page 10c of this Descriptive Report, for specific comments about the above mentioned fixes.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Topographic Surveys T-5758 and T-5759, each 1:10,000 scale, dated 1939 and 1938 respectively. Extensive differences in shoreline configuration resulting from the construction and demolition of Gultural details at Dogue Creek, Accotink Bay and Whitestone Point were noted. Those and other differences considered to be significant to chart construction are noted on the comparison print in blue pencil.

For nautical chart construction purposes, TP-00321 supersedes T-5758 and T-5759 which are the latest registered surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Mount Vernon, MD-VA, 1:24,000 scale, dated 1966 and Fort Belvoir, VA-MD, 1:24,000 scale, dated 1965, photorevised 1971. An unlabeled feature which appears to be a pier was noted at Lat. 38° 41.1', Long. 77° 06.2'. This feature is not visible on the photographs. It is shown on the comparison print in brown pencil.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Preliminary Sounding Overlay H-9349 (742-10-4-73) and Boatsheet H-9479 (AHP-1250-10-6-74). Piles located by the hydrographer at Lat. 38° 42.2', Long. 77° 07.6' - Lat. 38° 41.3', Long. 77° 07.3' - Lat. 38° 41.1', Long. 77° 09.6' and Lat. 38° 40.1', Long. 77° 09.3' are not visible on the photographs. No data was submitted to the compilation office concerning these. They have been positioned on the comparison print in purple pencil.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 12289, 1:40,000 scale, 36th edition, dated March 6, 1976. No differences in shoreline configuration were noted. Several wrecks, piles, piers and pier ruins shown on the chart are not visible on the photographs and are not shown on this map. The positions of these are shown on the comparison print in red pencil.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards for Map Accuracy.

Submitted by:

a.d. Schande

A.L. Shands . Cartographer

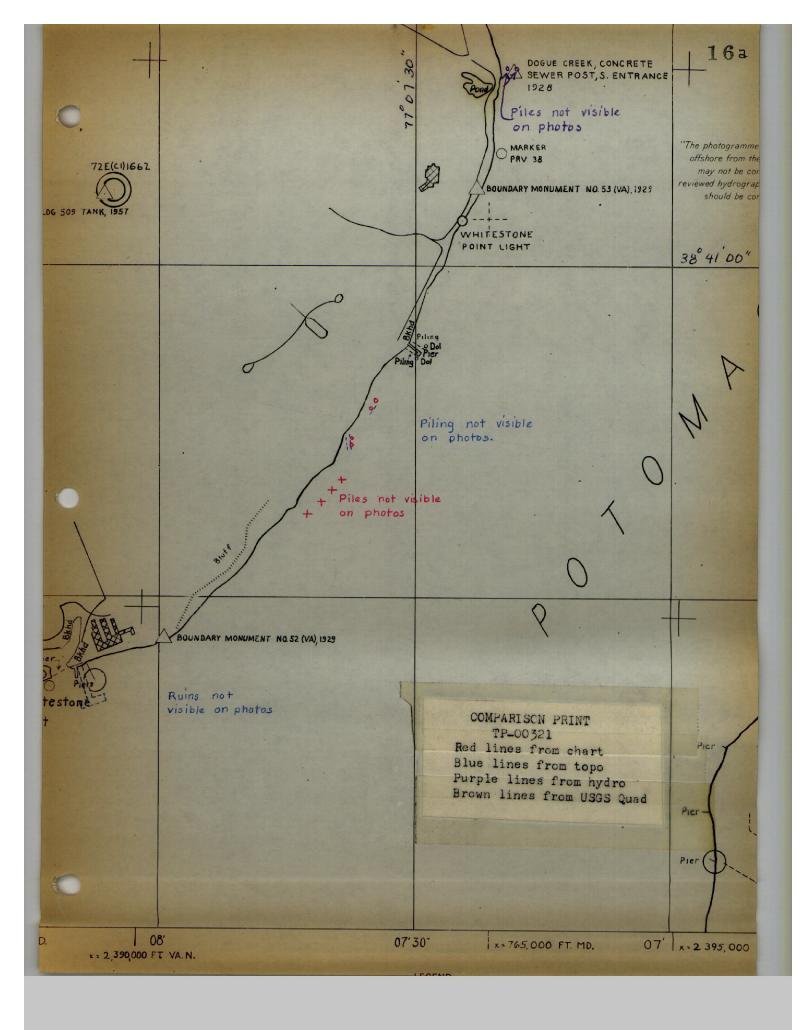
Approved for forwarding:

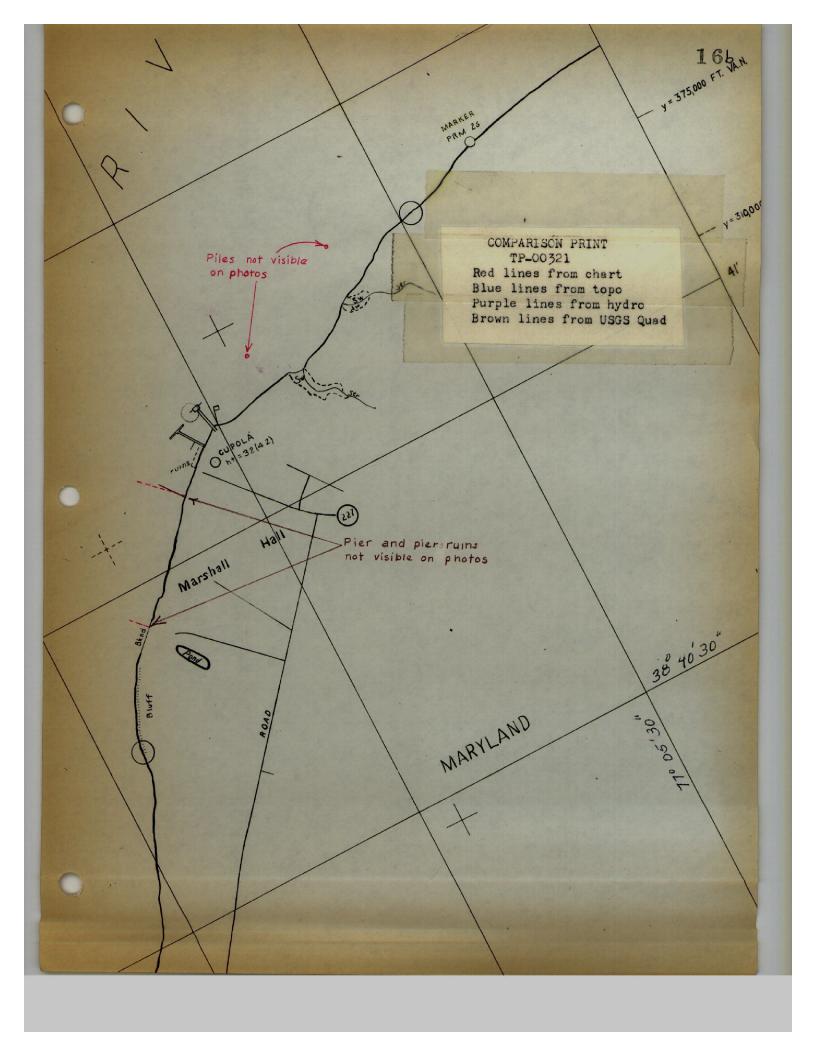
Joseph W Vinasek

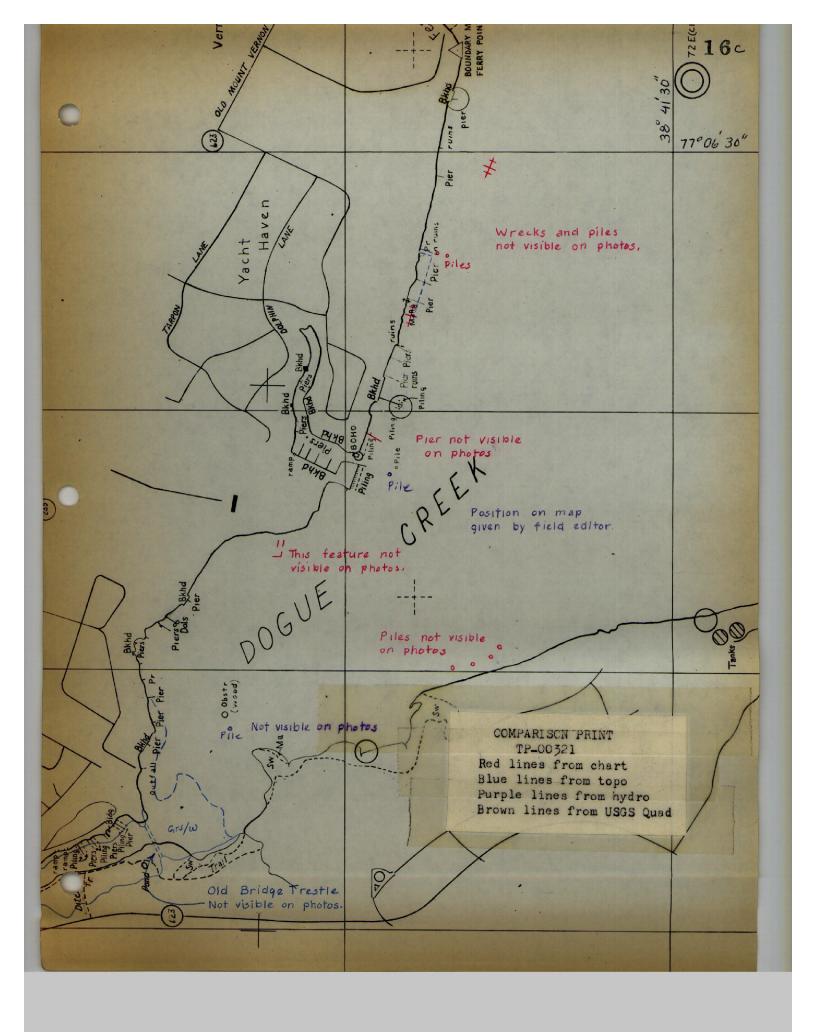
Joseph W. Vonasek Chief, Photogrammetric Branch, AMC

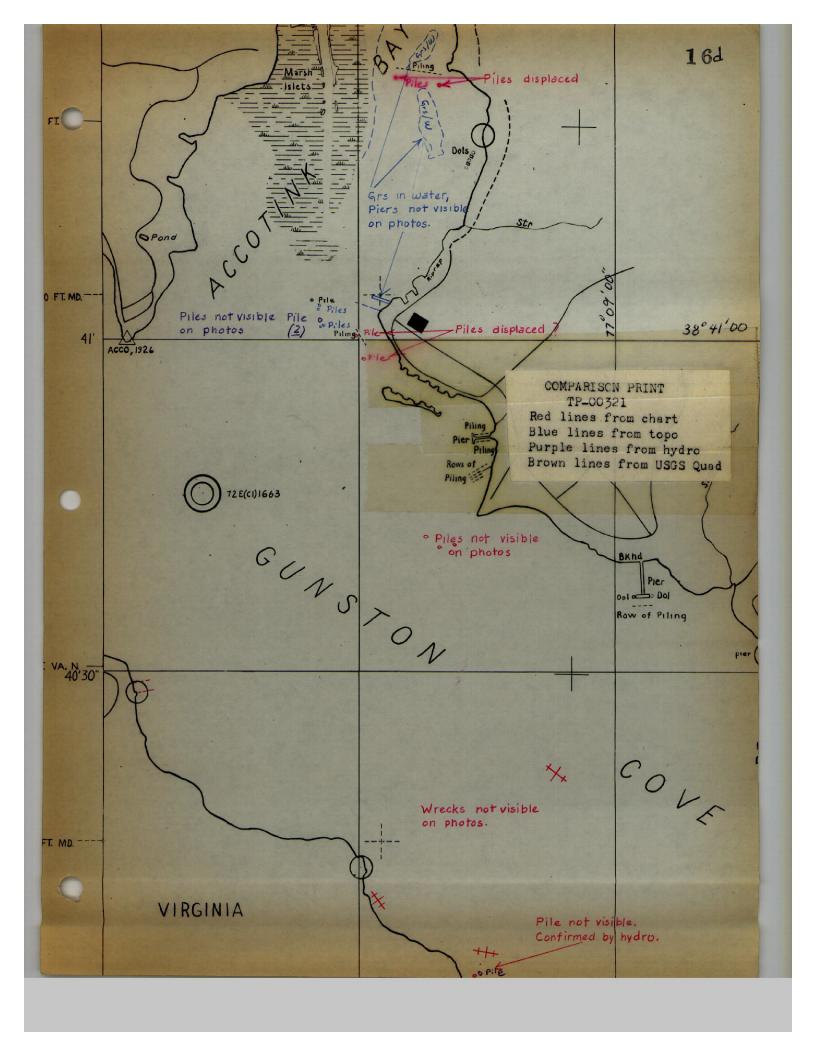
Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.









RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. __

TP 00321

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	A REMARKS
2285	9-77	Dickkillen	Full Part Before After Verification Review Inspection Signed Via
101			Drawing No. 20
			A
12289	2-1-79	Bill Wanless	Pull Part Before After Verification Review Inspection Signed Via
(660)			Drawing No. 43 (PARTLY APPLIED)
2289	6-20-19	M. PALAS	Full Part Before After Verification Review Inspection Signed Via
(36)			Drawing No. 43 (ADEX)AFELY APPLIED)
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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