9301

Diag. Cht. No. 77-3

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIC Field No. 742-10-2-72 Office No. H-9301
LOCALITY
StateVIRGINIA - MARYLAND
General Locality PO TOMAC RIVER
Locality MARYLAND POINT TO BRENT POINT
• • • • • • • • • • • • • • • • • • • •
19 72
CHIEF OF PARTY Ned C. Austin
LIBRARY & ARCHIVES
DATE March 1, 1978

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

AREA-2

559 (12288) 101 (12285) 77 (12260)

FORM	C&GS-537

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SARVICES ADMINISTRATION COAST AND GEODETIC SURVEY

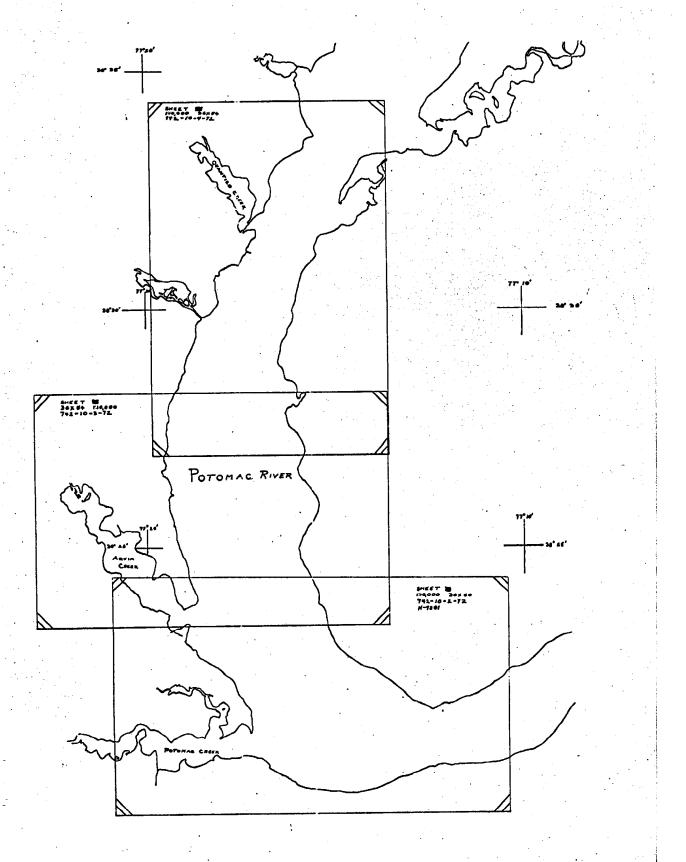
REGISTER NO.

HYDROGRAPHIC TITLE SHEET

H-9301

FIELD NO.

filled in as completely as possible, when the sheet is forwarded to the Office.	742-10-2-72
State_ Virginia and Maryland	
General locality Potomac River	
Locality Maryland Point to Brent Point	
Scale 1:10,000 Date of surv	18 12- May-August 1972
Instructions dated 3/1/72 &3/3/72 Project No.	
Vessel Hydrographic Field Party 742 Launches	
Chief of party CDR Ned C. Austin	
Surveyed by Lt. Richard L. Baker, Ltjg James L. S	tokoe, J. Scott Bradford
Soundings taken by echo sounder, hand lead, pole Echo Sounder	and Pole
Graphic record scaled by Party Personnel	
Graphic record checked by Party Personnel	Verification Branch (AMC
Protracted by Automate	ed plot by KIC CALCOMO 618 (AMC)
Soundings penciled by	
Soundings in Tathons feet at MLW MELV	
REMARKS: Survey 742-10-2-72 was done using three boatch Potomas Greek, 10-2-728 covered generally the Marylan	
10-2-720 govered the Virginia side. This descriptive	report is divided into
three sections, one for each sheet, except for those	sections of the appendix
which are common to all. The survey data is also sep	arated se that one sheet can
be processed at a time if desired. The main reason for	
was to speed up the field processing.	app 1d. with
Notes in red made during verification by L	· / •
The time meridian for hydrography is Greenwick	



DESCRIPTIVE REPORT 742-10-2-72 A

A. PROJECT

Sheet 742-10-2-72 A, Project Number OPR-409, was done in accordance with Project Instructions dated March 1, 1972; and Supplement to Instructions, Change No. 1, dated March 3, 1972.

B. AREA SURVEYED

The area surveyed includes the navigable limits of Potomac Creek out to the eastern limit at the mouth of the creek, Long. 77°17.3" W. Hydrography began June 9, 1972 and ended June 22, 1972. A junction was made at the mouth of the creek with the current Survey 742-10-2-72 C

C. SOUNDING VESSEL

Launch 1259 (blue) was used for Positions 4001 to 4477 and Positions 4481 to 4483. Skiff 570 (brown) was used for Positions 5001 to 5025. (Please note that, due to an oversight, Position Numbers 5001 to 5025 were also used on Sheet 10-2-72 C).

**Note these Positions were changed during verification to the 2000 series Position numbers D. SOUNDING EQUIPMENT

Raytheon Fathometer DE-723, Number 535, was used on all soundings taken with Launch 1259, and Raytheon Fathometer DE-723, Number 806, was used on all soundings taken with Skiff 570. Generally, in water less than 6 feet deep, a sounding pole was used in place of the fathometer.

Echo sounder corrections were determined from bar checks:

E. SMOOTH SHEET

The smooth sheet will be prepared by the Atlantic Marine Center Processing Division from punched tapes made by this party. Boatsheet A, B, and C of this survey can be plotted on a single oversized (36 x 609 smooth sheet provided that the western part of Potomac Creek is plotted as an insert. Actual tides will be furnished by Rockville from ADR gages. Supplemental tide staff readings during hydrography were observed at Lat. 38°20'33" Long. 77°19'15". See also Tide Note in this report.

F. CONTROL

Horizontal control for hydrography was by sextant fixes. All signals for this survey were located by Photo Party 61 and are described in the Control Report to accompany this Descriptive Report.

G. SHORELINE

Shoreline details for this survey were obtained from shoreline Manuscripts TP-00330 and TP-00331 to Low water line was not defined by the soundings due to the small tide range.

H. CROSSLINES

Approximately 10% of the sounding lines run were crosslines. They are in good general agreement at crossings.

I. JUNCTIONS

At the mouth of Potomac Creek, where a junction is made with 10-2.72 C, the soundings from 10-2.72 A appear to be about 1 to 2 feet greater than those from 10-2-72 C. There are two possible explanations for this. First, the hydrography in this area on 10-2.372 A was run shortly after the Potomac River flooded in June (see 0. Miscellaneous), and the water may still have been abnormally high. This can be investigated when actual tides are used for smooth processing. Secondly, Launch 1259 was used on 10-2-72 A and Skiff 570 was used on this 10-2-72 C. When settlement and squat and velocity corrections are applied during smooth processing, this may also help resolve the discrepancy. No discrepancy excepts found on smooth Start

J. COMPARISON WITH PRIOR SURVEYS -

A prior survey of Potomac Creek was not furnished to this party. Item 3 on the Pre-Survey review was investigated on this sheet by searching both areas with an improvized wire drag. The first piling reported at Lat. 38°23'26"21'06" "Piling" Long. 77°18'48" was not found, and it is recommended that it deleterate be removed from the chart. However, two adjacent submerged awash of new snags were found in the second area (Pos. 4482 and 4483) at Lat. 38°20.6%, Long. 77°17.70'. Furthermore, a third pile one four awash at MLW (Pos. 4481) was found at Lat. 38°20.6', Long. 77°19.1', after being mentioned by a local resident. This is a navigational hazard and should definitely be added to the chart.

Origin c/L 704(1965)

K. COMPARISON WITH THE CHART

With two exceptions, there is good general agreement between this - survey and Chart C&GS 101 SC, although detailed comparison is impossible due to the great difference in scales.

One sounding on the chart that appears incorrect is a 14-foot \sim sounding at approximate Lat. 38°21.1' N, Long. 77°20.0' W, where the actual depth is 7 feet.

The other is 4-foot sounding at approximate Lat. 38°21.1' N, Long. 77°20.6', in 1 foot of water. This sounding should be displaced to the east about 0.1'.

The entire Potomac Creek contains many fish nets and traps, some of which are unmarked. The unmarked lines are especially hazardous to navigation, since they can easily become entangled inea boat's propeller. These nets were too numerous to list individually. They are not of a permanent nature, but it is recommended that they be mentioned as a hazard on the chart as well as the Coast Pilot.

Also of interest is the fact that several new marsh areas have grown up in the creek since the chart was made. These should be identifiable on the photographs.

L. ADEQUACY OF SURVEY

This survey is considered complete and adequate to superseder prior surveys for charting. Fathograph scanning was done under supervision of launch chiefs.

M. ATDS TO NAVIGATION

All aids to navigation were found to be as described in the Coast Guard Light List.

N. STATISTICS

There were 480 positions taken on this survey by Launch 1259 for a total of 48 nautical miles sounding line. Twenty-five (25) positions were taken by Skiff 570 for a total of 1.8 nautical miles sounding lines. The total area of the survey is approximately 3 square nautical miles. Eighteen (18) bottom samples were taken.

O. MISCELLANEOUS

The bottom of Potomac Creek is, in general, composed of soft

mud or silt, at least several feet thick. The creek is generally shallow except at the upper end of Accokeek Creek, and also at a constriction in the Potomac Creek between Long. 77°20.0' W and 77°20.5' W, where depths of over 10 feet are found.

There was a large flood in the area on June 23. When hydro was run on June 26 and June 27 (Julian days 178 and 179), it appeared that the water in Potomac Creek was still abnormally high. Since predicted tides were used on the boatsheet, the soundings shown for these days (Pos. 4420 to 4477) may be 1 or 2 feet deeper than the correct soundings. This discrepancy should disappear when actual tides are used on the smooth sheet.

Contact with the Tides Branch in Rockville indicated tides were - about 1 foot above predicted.

P. RECOMMENDATIONS

It is recommended that mention be given in the Coast Pilot tothe numerous fish traps in the area (see Section K).

Q. REFERENCE TO REPORTS

1. Control Report for 742-20-2-72 (by Photo Party 61, enclosed)

2. HFP-742 Field Season's Report, 1972-OPR-409

Respectfully Submitted:

"autin"

Richard L. Baker

LT, NOAA

DESCRIPTIVE REPORT 742-10-2-72 B

PROJECT

Sheet 742-10-2-72 B, Project Number OPR-409, was done in accordance with Project Instructions dated March 1, 1972, and Supplement to Instructions, Change No. 1, dated March 3, 1972.

B. AREA SURVEYED

The area surveyed includes the eastern side of the Potomac River junctioning with prior Survey H-8706 (1962, 1:10,000) at Long. 77°11'30" on the eastern limit. The area surveyed continues along the eastern shore to Lat. 38°24'00" where a junction is made with contemporary survey 742-10-2-72 C. The entire river is surveyed on this sheet between Long. 77°11'30" and 77°14'30". At Long. 77°14'30" a junction is made with contemporary survey. 742-10-2-72 C, continuing to the northern limit at 38°24'00". (See attached Project Limits Sketch.)

Hydrography began on May 18, 1972 and ended on July 20, 1972.

SOUNDING VESSEL

Launch 1260 (red) was used from Positions 1 to 646, 682 to 751, 805 to 883, 955 to 1127, and 7001 to 7032. Skiff 570 (brown) was used from Positions 648 to 681, 752 to 804, 884 to 954, and 1128 to 1220. Launch 1259 (blue) was used from Positions 1221 to 1269.

SOUNDING EQUIPMENT

Raytheon Fathometer DE-723, No. 535 was used on all soundings taken with Launch 1259. Fathometer No. 806 was used on all soundings taken with Skiff 570. Three fathometers were used in Launch 1260: No. 1889 from May 18 to May 23, No. 535 on June 2, and No. 1885 from May 25 to June 1 and from June 6 to July 6.

A sounding pole was used generally in depths 4 feet or less. Echo sounder corrections were determined from bar checks and recorded in a separate Bar Check Volume.

F. CONTROL

The major portion of Sheet 742-10-2-72 B was by range-range control using the Del Norte electronic position control system. Calibrations were made at PRV 11B at the mouth of Aquia Creek, Clifton Beach Light, and Lt. 2 at the mouth of Potomac Creek. These were recorded in a separate calibration volume.

The calibration procedure was to position the launch's antenna as close as possible to the calibration station (usually within 1 Meter), record the readout, and reset for crystal drift if necessary. For a more complete discussion of the Del Norte System and calibration, see the Electronic Control Calibration Report for this project.

A portion of the sheet, near the eastern limit, was done visually using signals located by Photo Party 61. The visual signals used are described in Photo Party 61 Control Report to accompany this Descriptive Report. "See Boatsheet" methods were used for short stretches of shoreline near Stations #118 and #114. Positions 7033, 7034 and 7035, 7036 are "Dummy Fixes."

G. SHORELINE

Shoreline details for this survey were obtained from shoreline 'Manuscripts TP-00331 and TP-00332. Low water lines were not defined due to the small tide range. Shoreline details were in good agreement with the results obtained by Photo Party 61.

H. CROSSLINES

Crossline mileage comprises 12% of the total mileage of sounding lines. Agreement at crossings is good.

I. JUNCTIONS

The junctions with Survey H-8706 (1962) at the eastern limit is in good general agreement (2.0 feet or less). Velocity, settlement and squat, and actual tide correctors should affect the junction slightly. No junction is required with Sheet 10_{72} ? C, although soundings at that junction are in good agreement.

J. COMPARISON WITH PRIOR SURVEYS

Two numbered Pre-Survey Review Items and 12 unnumbered items are in the survey area and were investigated by a grid of sounding lines 25 meters apart. The result plotted on a mylar overlay to accompany the boatsheet are summarized below.

PSI #1 "visible wreck" at Lat. 38°20'28" Long. 77°12 (30" was searched for (Vol.9 22 P. 52) and not found. is recommended that the feature be deleted from the chart.

PSI #2 "visible wreck" at Lat. 38°20'20" Long. 77°12'51" was found to be 0.05 NM to the east of its charted position, baring 5 ft. at M.H.W. The new position is Lat. 38°20'19" and Long. 77°12'49" (Vol. II, P. 52).

Recorded the first present survey location:

The following unnumbered Pre-Survey Review Items were developed by running closely spaced sounding lines in the areas. All items were charted as shoal areas by prior surveys.

	Location	Origin	Remarks
!	38°21'06" 77°12'30"	Bp. 58206 (1959)	Previously charted as 22', Least depth found is 23' . L+38'11'08.14 Po. 643 Chart present 2 and depths:
?	38°21'05"~ 77°12'23"	Bp. 58206 (1959)	Previously charted as 20'7, Least depth found is 20' fat 38°21'7.56" Poices
3	38°21'04" 77°12'17"	Bp 23819 (1930)	Previously charted as 17', Pos#694 Least depth recorded is 100 (at 38°21'04.86' Chort present survey depths Long 77°12' 1850"
e.c	38°20'50"/ 77°12*48"/	н-2706 (1904)	Previously charted as 201, Pos 3708 Least depth found is 29 Jul 38 20 51.16 7 17 Long 77 12 48.07"
	38°20'53" / 77°12'40" /	H-2706 (1904)	Previously charted as 27 , % 172 Least depth found is 26 , 44 38 20 55 II
	38°21'04"′ 77°13'17"′		Previously charted as 18', Post 550 Least depth found is 15' Lat 38'21'05.76" Log 77'13'15.36"
	38°20'58"] 77°13'15"	H-2706 (1904)	Previously charted as 18', Pos# 330 Least depth recorded is 14' dat 38'21' 01.76" Long. 77' 13' 16-34'
ζ.	38°20'53" 77°13'06"	H-2706 (1904)	Previously charted as 17'; Pas#234 Least depth recorded is 17'. La436'20'53.87" Long. 77. 13'05.35'
*	38°21'06"- 77°12'55"-	Bp 23819 (1930)	Previously charted as 12', Pr. # 351 Least depth found is 14, 1 + 38'21'06.18" Chart present survey depths. 600 77° 12'55-38"
	38°21'36 " 77°13'02"	H-2706 (1904)	Previously charted as 8', %,*319 Least depth found in vicinity of shoal area is 8'.L+ 38'21'36.28 Leas 77'/2'59.93
	38°21'45" 77°13'25"	H-2706 (1904)	Previously charted as ll', % *863 Least depth record is ll'.la+.38'21'44.05'
	38°21'42" 77°14'50"	H-2706 (1404)	Previously charted as 12', A.#ezo
			Roconnered charting bouncinity.

Comparison with prior Surveys No. 2706 (1:10,000, 1904) and No. 2707 (1:10,000, 1904).

Along the Maryland shore, all depth curves have moved southwest; however, the shape of the features remains generally the same. In the vicinity of Maryland Point the features (shoals and deeps) have remained, but the water is generally deeper now. On the Virginia side of the river, the curves have moved slightly south since 1904, although agreement on this side is good. 2 + 3 feet - broken

K. COMPARISON WITH THE CHART

With the exception of slight deepening in the channel and in the vicinity of Maryland Point, there is good agreement of depth curves with C&GS Chart 559, February 27, 1971. Bottom characteristics do not appear to have changed, although a more significant rock hazard exists along the shoreline than is noted on the chart, especially on the Maryland side. The limits of some areas, where rocks or hard pebbly bottom existed from the high waterline to the 3 ft. depth curve, were determined by taking detached positions. These areas were labeled foul on the boatsheet.

Most debris from the flash floods of late June was either washed ashore or sunk by July 10th. DP's were taken on all remaining snags. Flood damage included undercut banks, cave-ins along bluffs, and undercut trees fallen in the water or washed ashore.

Fish-net stakes in this area are small, unmarked, and very temporary. They should not be used for navigation; however, the stakes and the nets stretched between them do constitute a small boat hazard.

The wreck charted at Lat. 38°20'28", Long. 77°12'30" could not be found (see section J).

L. ADEQUACY OF THE SURVEY

This survey is complete and adequate to supersede prior surveys for charting. Fathograms were scanned under supervision of launch chiefs.

M. AIDS TO NAVIGATION

Within the limits of this survey, there are 6 floating aids to navigation and one fixed aid, which are maintained by the Coast Guard. The aids are listed in Light List, Vol. I, 1972, and adequately serve the purpose intended.

STATISTICS

LAUNCH	TOTAL NUMBER OF POSITIONS	MILES OF SOUNDING LINE
1260	1000	138.2 NM
570	251	23.1 NM
1259	49	5.5 NM

This survey covers 4.3 square nautical miles. Seventeen bottom samples were taken.

O. MISCELLANEOUS

The pronounced submarine relief in the vicinity of Maryland Point seems unusual when compared to the relatively flat bottom elsewhere; however, these same features have been recorded as early as 1904. They are apparently due to the narrowing and resultant noticeable current increase of the river at this point. It is possible that Maryland Point Light has some effect on the relief also.

P. REFERENCES TO REPORTS

Control Report - Photo Party 61 (enclosed)
 Season's Report HFP-742 (1972), OPR-409
 Electronic Control Calibration Report for OPR-409, 1972

Respectfully Submitted:

James L. Stokoe

LTjg, NOAA

DESCRIPTIVE REPORT 742-10-2-72 C

A. PROJECT

Sheet 742-10-2-72 C, Project Number OPR-409 was done in accordance with Project Instructions dated March 1, 1972 and Supplement to Instructions, Change No. 1, dated March 3, 1972.

B. AREA SURVEYED

The area surveyed includes the western side of the Potomac River, junctioning with Sheet 10-2-72 B on the eastern and southern limits, with 10-2-72 A at the mouth of Potomac Creek, and with 10-3-72 A at the mouth of Aquia Creek. The northern limit is Lat. 38°24.0', where a junction will be made with sheet 10-3-72 B & C(Ham) See project limit sketch to accompany this report). Hydrography began on June 29, 1972 and ended on August 22, 1972.

C. SOUNDING VESSEL

Launch 1260 (red) was used for Positions 5000 to 5475 and Positions 7050 to 7562.

Skiff 570 (brown) was used for Positions 5476 to 5559.

Launch 1259 (blue) was used for Positions 9000 to 9197.

D. SOUNDING EQUIPMENT

Raytheon Fathometer No. 1885 was used on Launch 1260, No. 535 on Launch 1259, and No. 806 in Skiff 570. Sounding pole was generally used on all soundings less than 4 feet.

Echo sounder corrections were determined from bar checks and recorded in a separate bar check volume \checkmark

E. SMOOTH SHEET

The smooth sheet will be processed by AMC Processing Division using punched tapes prepared by the party. Actual tides, furnished by Rockville, will be used for smooth processing.

F. CONTROL

Most of the hydrography on this sheet was done electronically vusing the Del Norte System. Stations were at Brent RM-4, Maryland 2 RM-4, 104 (USE), and TWIN 1929, 1959. Calibration was performed daily at Day Beacon PRV 11B or Light #2, and recorded in a separate calibration volume. Visual hydrography was run at the mouth of Aquia Creek.

Electronic control was used in conjunction with visual control in small holiday areas in the middle of the river, Positions 9124 to 9172. This will be logged with a Del Norte distance and a sextant angle to determine the position.

All visual signals, calibration points, and shore control stations were located by Photo Party 61 and are described in the accompanying Control Report.

G. SHORELINE

Shoreline details for this survey were obtained from shoreline Manuscripts TP-00331 and TP-00332. Low water line was not defined by the soundings due to the small tide range.

H. CROSSLINES

Approximately 10% of the sounding lines run were crosslines. The soundings are in good agreement at the crossings, except for Positions 9016 to 9043 which disagree 1-2 feet. The records were re-examined and no explanation could be found except perhaps predicted tides.

I. JUNCTIONS

There is a discrepancy at the junction of this sheet with 10-2-72 A at the mouth of Potomac Creek. This is discussed in the report for 10-2-72 A.
H-9301 (1-9301

Also, junctions were made with 742-10-2-72 A & B. This is thought to be due to the use of predicted tides.

J. COMPARISON WITH PRIOR SURVEYS

A comparison was made with prior Surveys H-2706 & H-2707 dated 1904. The soundings are in general agreement except on the northeastern part of the sheet. It shows a difference of 2 to 4 feet in 16 to 20 feet of water. The prior survey shows a 18 foot curve at Lat. 38°23.5' and Long. 77°16.8'. This curve was not found and the general depth of this area was 16'.

There were two Pre-Survey Review Items within the limits of this survey:

W Also part of Hem AA PSI -3- update of Jan 4, 1973.

PSI-A - Markers PRV 10A, PRV 10B were fixed using Del Norte Control (Vol. 17, Page 13) and the positions agree with Chart C&GS 559. PRV 11A was fixed by Del Norte (Vol. 22, Page 8) and the position does not agree with Chart C&GS 559. PRV 11B's position was determined by Photo Party 61 as Lat. 38°23'44", Long. 77°18'39" and the marker was used for Del Norte Calibration. The position disagrees with the charted position on C&GS 559 approximately 150 meters. A search was conducted in the area of the charted position and no evidence of the marker was found. Recommend charting markers and no evidence of the marker was found. Recommend charting markers

PSI-4 - "Subm. Piles" Lat. 38°23'26", Long. 77°18'48" origin still exist and were delineated by both this party and Photo Party 61 (see Vol. 22, Page 10, and the boatsheet). The charted position on C&GS 559 is correct. Recommend charters are sured sured streets.

SSubm. Piles" Lat. 38°22'21", Long. 77°17'56" still exist and were delineated by this party and Photo Party 61 (see Vol. 22, Page 10, and the boatsheet). The charted position is correct. Recommend charting the present survey delineation.

K. COMPARISON WITH THE CHART'

A comparison was made with C&GS Chart 559 dated February 1971. Soundings are in general agreement except in the northeasterm area mentioned in "Comparison of Prior Survey" of this report. (The area is marked as a spoil area on the chart.)

L. ADEQUACY OF SURVEY

This survey is considered complete adequate to supersede prior surveys for charting. Fathogram scanning, done under supervision of launch chiefs, is adequate.

M. AIDS TO NAVIGATION

All aids to navigation were found to be on Chart C&GS 559 and listed in the Coast Guard Light list. They adequately served the purpose for which they are intended.

N. STATISTICS

Launch No.	Miles of Hydrography
Launch 1260	181.6
Launch 1259	28444
Skiff 570	13.0

REFERENCES TO REPORTS

Control Report by Photo Party 61 (enclosed). HFP-742's Field Season Report 1972 - OPR-409. Electronic Control Calibration Report for OPR-409, 1972.

APPENDIX E

Approval Sheet to Accompany
Hydrographic Survey 742-10-2-72 (H-9301)

The field work, hydrographic records, and processing are complete and adequate.

Approved and forwarded,

Ned C. Austin CDR, NOAA OIC, HFP 742

CONTROL REPORT Boat Sheet HFP-742-10-2-72

Triangulation and Intersection Stations

Pos #	Latitude (mins.)	Longitude (mins.)	Name	Use
101	38 20 23.827	77 12 01.774	GRIMES 4	
102	38 20 58.417	77 11 52.412	Maryland Point Lighthouse	
113	38 19 57.544	77 15 59.051	TANZY 3, R.M. 2	Del Norte
114	38 21 35.296	77 12 26.218	MARYLAND 2, R.M. 4	Del Norte
115	38 23 50.5	77 18 41.085	BRENT POINT, R.M. 4	Del Norte
116	38 22 57.950	77 15 02.288	104 (USE)	DEL NORTE
118	38 22 26.705	77 13 57.457	Md. Point USNRL Antenna	
119	38 23 44.574/	77 18 38.772	PRV 11B	Calibration
120	38 24 56.369 -	77 15 57.756	Clifton Beach Light	Calibration
122	38 26 26.316	77 15 28.911	Douglas Point PEPCO	
123	38 27 48.595	77 16 15.669	Weather Mast TWIN, 1928, 1956	TT::
222	38 20 38.156~	77 16 41.406	Potomac Creek Light #2	Calibration

GONTROL REPORT Boat Sheet HFP-742-10-2-72

Photo-Hydro Stations

P	os #	Latitude (meters)	Longitude (meters)	T-sheet	
	202 ·	38 20 1353.3	77 21 637.0	330 ′	
/	2041	38 20 1854.3	77 21 352.1	330	
	206	38 20 1326.8	77 21 843. 4	330	
	208 1	38 20 1746.0	77 20 1274.9	330° -	
	210′	38 20 1322.5	77 20 1087.1	330	
1	212′	38 20 1917.6	77 20 569.1	330-	
	2141	38 21 206.5	77 19 1112.1	331-	C.
	216′	38 20 1336.2	77 19 1294.5	33 r	
	218	38 20 1066.2	77 19 1 179.5	331	
	220 ′	38 20 617.0	77 19 828.4	331′	
	223	38 20 1464.0-	77 17 591.4-	331	Daybeacon 3
	224	38 20 1572.9-	77 17 1186.2	331-	Daybeacon 4
	225*	38 20 1 353 .7 -	77 18 281.0	331-	Daybeacon 5
	226	38 20 1284.0-	77 18 993.4	331r	Daybeacon 6
	227	38 20 1161.4-	77 18 1560.1	331	Daybeacon 7
	228	38 20 1271.5	77 19 584.2	33 1 ~	Daybeacon 8
	230	38 20 1616.4-	77 19 571.3-	331	
/	232	38 20 1860.3	77 18 759.5	33 r	
	234	38 21 422.6	77 18 258.3	331~	
	236	38 21 609.3	77 17 1385.4	331	
	238	38 21 1194.5	77 17 1366.4~	331	
	240	38 21 1308.6	77 17 1379.4	331	
	242	38 21 1419.5	77 17 1502.4	331	
	5111	38 21 1132.4	77 18 258.1	331	
	246	38 21 1673.3	77 18 525.4	331	
	248 /	38 21 1870.0	77 18 1306.4	331-	

Boat Sheet HFP-742-10-2-72 Photo-Hydro Stations (continued)

rnoto-ny	dro Stations (co	ontinued)		ļ
Pos #	Latitude (meters)	Longitude (meters)	T-sheet	*
2501	38 20 1052.2	77 18 451.2	3315	
, 252	38 20 1924.0-	77 17 1395.0	331	
254	38 21 521.5	77 17 747.0-	331-	
256	38 21 146.7	77 17 406.0	331	PRV 10B
2581	38 20 1107.5-	77 17 147.3-	331	PRV 10A
561 <i>°</i>	38 22 1284.0	77 18 632.0-	331-	PRV 11A
562-	38 22 1775.1-	77 18 412.0-	331	Aquia Creek Light
563-	38-23 849.0	77 18 1037.1	331-	Aquia Creek Light
565	38 23 966.4-	77 18 1165.3	331	Daybeacon 5
566 -	38 23 1212.87	77 18 1289.1	331	Daybeacon 6
568	38 23 1212.0-	77 19 68.9	331	Daybeacon 8
5 7 2′	38 23 578.3	77 19 685.7~	331	
574~	38 23 1190.6-	77 19 779.7	331-	
576	38 24 406.0	77 18 400.0-	331~	
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CONTROL REPORT Boat Sheet HFP-742-10-2-72

Prepared by
NATIONAL OCEAN SURVEY
PHOTO PARTY 61

September, 1972 POTOMAC RIVER, MARYLAND

1. Authority

Hydro support was performed in accordance with project instructions OPR-409-742-72 Potomac River, Maryland, dated March 1, 1972.

2. Purpose

To provide shore stations and calibration stations for Del Norte control, and provide photo-hydro signals for visual control on boatsheet. HFP-742-10-2-72 Potomac River. Boat sheet preparation, except for transferring of photo-hydro signals, was not performed by this party.

3. Locality of Control

Potomac River from Maryland Point to Brent Point including Potomac Creek, Accokeek Creek and the lower portion of Aquia Creek.

4. Control

Hydrographic control consisted of triangulation stations, intersection stations and photo-hydro stations.

a) Del Norte control requirements
The Del Norte electronic control system required that
there be complete visibility between the mobile and the
shore stations. It also required calibration stations
that could be reached with the launch so the mobile
station could be calibrated directly. Shore stations
were placed directly on triangulation stations where
possible. Where it was necessary, due to visibility
limitations, the shore stations were placed on existing
or new reference marks of existing triangulation
stations. Calibration stations were located by
intersections from existing triangulation stations,
except in the case of Station #222 (Potomac Creek
Light 2). This was located by three tellurometered
distances to Del Norte shore stations.

4. Control Cont.

Photo-hydro control Photo-hydro control stations were located in accordance with Photogrammetry Instructions No. 45, using Photographs flown in October, 1971.

5. Recommendations

None.

6. Disposition of Data

Original Cronaflex signal sheets TP00330, TP00331, and TP00332 containing all photo-hydro positions have been transmitted with this report to HFP 742 for inclusion in survey records for this boatsheet. All data related to inter section and position computations will be transmitted to Photogrammetry Division, AMC Attn: CAM 21 upon completion of field work in the area.

7. Attached

A signal list is attached including positions for all Del Norte stations, calibration stations, and photo-hydro signals.

Respectfully submitted,

Richard D. Olson

LT NOAA

Chief, Photo Party 61

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SQUAT AND SETTLEMENT CORRECTION TABLE TAPE

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APPENDIX A Tide Note 742-10-2-72 (H-9301)

Tide reducers for all boat sheet soundings are from predicted tides at Aquia Creek Entrance, Virginia (Tide Table #2213).

Fisher-Porter ADR Tide Gages, installed for a special study were kept in operation for this project. Smooth sheet tide reducers are to be supplied by Rockville from these gages.

Supplemental tide staff readings were made in accordance with instructions for hydrography in Potomac Creek. A copy of these readings is included with this report.

Three Fisher-Porter ADR Tide Gages are near but outside the area of hydrography:

Riverside, Md Lat 38-23-12, Long 77-08-30 Aquia Creek, Va Lat 38-25-10, Long 77-21-10 Quantico, Va. Lat 38-31-30 Long 77-17-25

The output of the ADR gages was not available to the party for analysis but from the Tide Tables it appears tidal soning will be required. Also the output should be compared with the tide staff readings in Potomac Creek to determine if local soning is needed here.

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic

Marine Center:

Hourly heights are approved for

Riverside, Brent Marsh,

Tide Station Used (NOAA Form 77-12): Potomac Creek staff

Period: May 18-August 22, 1972

HYDROGRAPHIC SHEET: H-9301

OPR: 409

Locality: Potomac River

1.41 ft. - Riverside

1.01 ft. - Brent Marsh

Plane of reference (mean low water): 2.0 ft. - Potomac Creek

Height of Mean High Water above Plane of Reference: 1.3 ft.

Remarks: Recommended zoning:

		Time Correction	Reference Station
(1)	East of 77 ⁰ 13'.4	+40 min.	Riverside
(2)	77 ⁰ 13'.4 to 77 ⁰ 15'.2	+1 hr.	Riverside
(3)	West of 77 ⁰ 15'.2 and south of 38 ⁰ 23'.3	-30 min.	Brent Marsh
(4)	North of 38 ⁰ 23'.3	-15 min.	Brent Marsh

(5) Potomac Creek - zone direct on the staff.

Inchief, Tides Branch

NOAA FORM 76-155 (11-72) NATIO	ONAL O	CEANIC			ENT OF CO		SUF	VEY NU	MBER	٦
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APPROVAL SHEET FOR **SURVEY H-9301**

- All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/has not been made. A new final sounding printout has/hao not been made.
- В. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Provisional Hydrographic Manual. Exceptions are listed in the Verifier's Report.

Date:

Title:

Chief, Verification Branch

NOAA FORM 77-27 U. S. DEPARTMENT HYDROGRAPHIC SURVEY STATISTICS					OF COMMERCE	HYDRO	DROGRAPHIC SURVEY NUMBE		
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C. Meekins					08/19/74		08/19/74		
M. Johnson, R. Hill, R. Cram					Beginning Date Ending Date 04/10/75 C				
Verification Check by R. D. Samocki					Time (Hours) Date 02/			2/09/78	

C. Meekins

Verification by
M. Johnson, R. Hill, R. Cram

Verification Check by
R. D. Sarocki

Marine Center Inspection by

Hydrographic Inspection Team (AMC)

Outlify Control Reposition by

Requirements Evaluation by

Requirements Evaluation by - OR Engli

18

16

Time (Hours)76

7/5/78

02/09/78

02/09/78

4/21/78 8/11/78

Date

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey the following shall be completed:

CARDS CORRECTED

DATE TIME REQUID INITIALS

REMARKS:

Reg. No. H - 9301. (1972)

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

MAGNETIC TAPE CORRECTED

. DATE 4/05 TIME REO'D. INITIALS X

REMARKS:

H-9301

Information for Future Presurvey Reviews

The present survey is very well developed, with no particular items needing special attention except the piers mentioned in paragraphs 4 and 5 of the Quality Evaluation Report. Future surveys should possibly expect continued shoaling of the Potomac River and channel.

Positi Lat.	on Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle	
382	772	3	4	25 years	
382	773	1	2	50 years	

ATLANTIC MARINE CENTER VERIFIER'S REPORT

REGISTRY NO. H-9301

FIELD NO. 742-10-2-72

Virginia and Maryland, Potomac River; Maryland Point to Brent Point

SURVEYED: May 18 through August 22, 1972

PROJECT NO.: OPR-409 SCALE: 1:10,000

SOUNDINGS: Raytheon DE-723 and

Sounding Pole

CONTROL: Del-Norte

(Range-Range and Range-Visual) Visual (Sextant Fixes on Shore Signals and See

Boatsheet)

Chief of Party N. C. Austin Surveyed by R. L. Baker J. L. Stokoe J. S. Bradford

January 26, 1978

1. Introduction

- There were no unusual problems encountered during verification.
- b. The Descriptive Report was written in three parts, as the survey was separated into three parts. This is not a standard procedure; however, it was done by the field to expedite the field processing.
- The only revision made during verification was to the projection parameters.

2. Control and Shoreline

- The control is adequately described in Section F of the Descriptive Report and the Control Report, except for two areas:
- (1) The smooth position overlay was plotted with all electronic control stations and arcs except station #260 (116). This station and arcs were put on a separate control overlay to accompany the survey to Rockville.

(2) There are two electronic control stations that appear on the smooth sheet which have two numbers. One of these numbers was assigned to the electronic control station and another was assigned to the same station when it was used for visual control. The numbers are: Electronic Control Station Number 114 with Visual Control Signal Number 200 and Electronic Control Station Number 116 with Visual Control Signal Number 260.

b. The shoreline for this survey was transferred from final reviewed Photogrammetric Manuscripts TP-00330, TP-00331, and TP-00332 of 1971-76. In verifying this, survey differences between photogrammetric and hydrographic locations of piles, piers, stakes, etc. were resolved by using the photogrammetric location and the hydrographic elevations. The differences, when they occurred, were noted in the sounding volumes.

3. Hydrography

- a. The agreement of soundings at crossings on this survey is adequate.
- b. The depth curves are adequate to delineate the basic bottom configuration.
- c. The field unit adequately developed the bottom configuration and least depths.

4. Condition of Survey

The smooth sheet and accompanying overlays, hydrographic records, and reports are adequate and conform to the requirements of the Provisional Hydrographic Manual, with the following exceptions:

- a. No Log Sheets M, "Bottom Sediment Data", were included with the survey.
- b. The Descriptive Report did not reflect the edition and date of the chart used for field comparison.

5. Junctions

Adequate junctions were effected with the followings surveys:

H-9321 (1972) to the north H-8706 (1962) to the south

The junction with H-8706 was made without any of the hydrographic records for that survey. It will be necessary to evaluate this junction further when the present survey records and H-8706 records are in the same place. See Q.C. Report

Comparison With Prior Surveys See Q.C. Report

H-0812 (1862) 1:20,000 H-2706 (1904) 1:10,000 H-2707 (1904) 1:10,000

H-2709 (1904) 1:10,000

These surveys, taken together, cover the area of the present survey. A comparison between the present and prior surveys reveals a general shoaling of from one to three feet outside the general channel area. The depths in the channel appear to be pretty much the same.

The present survey is adequate to supersede the prior surveys within the common areas.

Comparison With Chart CaGS 559 (9th Edition, February 27, 1971) See Q.C. Report

Hydrography

The charted hydrography originates with the previously discussed prior surveys, with the exception of the soundings in Potomac Creek, whose source was not readily determined at this time. The Presurvey Review dated March 13, 1972 states that "a considerable amount of hydrography is charted from numerous Corps of Engineers surveys". The line spacing and hydrography in these areas is adequate to supersede these soundings.

The Presurvey Review items for this survey are adequately discussed in the Descriptive Report, with the exception of PSR Item 1 and PSR Item 2 which are discussed below: See Des. Rep. A. "B." and "C." para I.

- (1) PSR Item 1; visible wreck charted in latitude 38° 20' 28", longitude 77° 12' 30" was reported by the Corps of Engineers in Chart Letter No. 405, 1963. See hes. Report B; page 3
- (2) PSR Item 2; visible wreck, charted in latitude 38° 20' 20", longitude 77° 12' 51" originates with 1967 Air Photo Corrections (BP-98600).

 See Det Report B, Page 3 Photo Corrections (BP-98600).

Insofar as this survey made extensive efforts to locate both of these items and came up with only one wooden wreck (Volume 11, page 52), recommend that the source of these two wrecks be examined closely for the fact they are possibly one and the same.

b. Controlling Depths

There was only one controlling depth note on the chart: a 24 foot controlling depth in an unnamed channel off Thomas Point in the vicinity of latitude 38° 23' 00", longitude 77° 15' 00". Present survey depths are up to four feet shoaler than the charted controlling depth. It is recommended that present survey depths be charted unless subsequent chart information concerning indicates otherwise.

c. Aids to Navigation

The aids to navigation on this sheet are discussed under Section M of the Descriptive Report. The position of the aids adequately mark the intended features. See also Fld Report Sheet a page 2 Section J

This survey is adequate to supersede the charted information within the common area. Exceptions asked in AC Reject Section 5.

8. Compliance With Instructions

This survey adequately complies with the Project Instructions dated March 1, 1972.

9. Additional Field Work

This is an excellent basic survey. No additional field work is recommended.

Inspection Report H-9301

Any verification errors regarding procedures and presentation of survey data detected during inspection by the Hydrographic Inspection Team have been corrected before submission for administrative approval. HIT comments regarding quality of field work, compliance with instructions, and adequacy of the survey have been incorporated within the Verifier's Report.

Examined and Approved:
Hydrographic Inspection Team
Date:

Robert A. Trauschke, CDR, NOAA

Chief, Processing Division

R. D. Sanocki

Technical Assistant Processing Division

Billy J. Stephenson

Team Leader

Verification Branch

Charles H. Nixon, CAPT, NOAA Chief, Operations Division

absent

C. Douglas Mason, LT, NOAA Chief, Electronic Data Processing Branch

Approved/Forwarded

Robert C. Munson

RADM, NOAA

Director, Atlantic Marine Center



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352/RWD

April 21, 1978

T0:

Chief, Marine Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

R. W. DerKazarian Quality Evaluator

SUBJECT:

Quality Control Report for H-9301 (1972), Maryland Point to

Brent Point, Potomac River, Virginia-Maryland

A quality control inspection of H-9301 was accomplished to monitor the survey for obvious deficiencies with respect to data acquisition, delineation of the bottom, determination of least depths, navigational hazards, junctions, sounding line crossings, shoreline transfer, smooth plotting, decisions and actions taken by the verifier, and the cartographic presentation of data.

The junction with H-8706 (1962) to the east was completed at the time of the quality evaluation. Several soundings and curves were revised on the present survey, thereby effecting an adequate junction.

In general, the survey was found to conform to the National Ocean Survey's standards and requirements except as stated in the report by the verifier and the Hydrographic Inspection Team and as follows:

- 1. The supplemental 24-foot curve was added to the smooth sheet during the quality evaluation.
- 2. The smooth tide printout was not forwarded to Headquarters with the records.
- 3. Form 76-40 was not included with the Descriptive Report; however, a copy was obtained from T-00332 Descriptive Report on which the field editor recommends deletion of landmark N. GABLE (erroneously labeled on the chart as N. CAB.) in latitude 38°19'52", longitude 77°14'52" and charting of the building instead.
- 4. The following information should be included in the "Comparison with Prior Surveys" of the Verifier's Report:



A comparison between prior and present depths indicates that shoaling of 1 to 2 feet in prior depths of 12 to 20 feet has occurred, and that in prior depths greater than 20 feet in the main channel a maximum shoaling of 6 feet has occurred in some areas. In the vicinity of latitude 18°22.0', longitude 77°14.3', prior depths of 20 feet existed; present depths are 15 feet. These changes are attributed basically to large quantities of soil and sewage being carried downstream and deposited.

5. The following information should be included in the "Comparison with Charts" of the Verifier's Report:

a. Hydrography

Charted hydrography in Potomac Creek and Accokeek Creek originates with C/L 1152 (1958), a Coast Pilot Inspection report. The charted hydrography from this letter, numerous other chart letters and blueprints, and the prior surveys previously mentioned in the Verifier's Report require no further consideration.

Attention is directed to the following:

(1) Several piers charted in the following positions from an unascertainable source have not been disproved by the present survey and should be charted as submerged pier ruins:

<u>Latitude</u>	Longitude		
38°21.96'	77°13.25'		
38°20.4'	77°19.25'		
38°19.9'	77°14.79'		

(2) Potomac Creek contains numerous temporary unsurveyed fish nets and traps which may be dangerous to the mariner.

With the exceptions noted above, the present survey is adequate to supersede the charted information.

c. Aids to Navigation

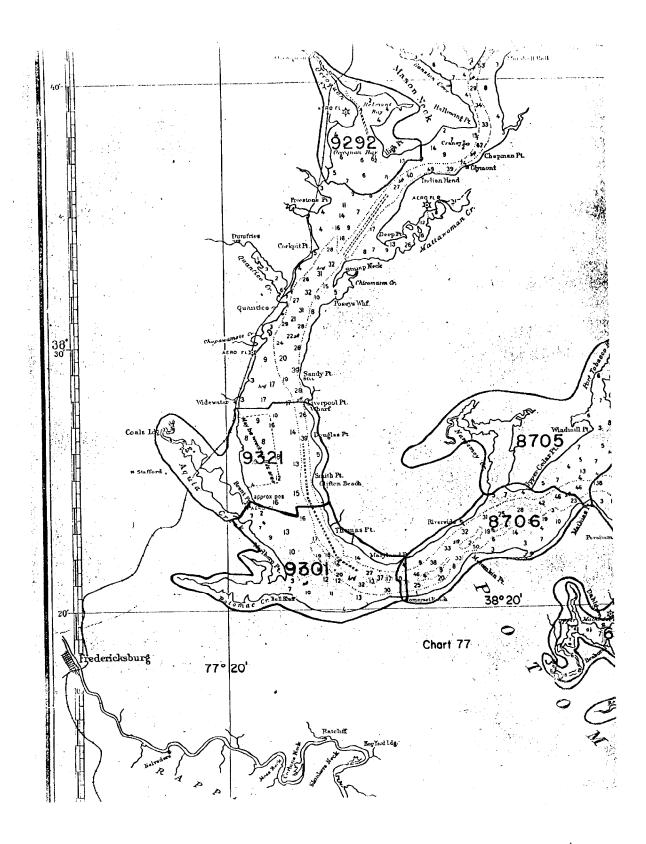
The fixed and floating aids to navigation adequately mark their intended features; however, nun buoy "24" was located approximately 40 meters northeast of its charted position.

6. Several elevations obtained from hydrographic data, erroneously shown in red on the smooth sheet, were revised during quality evaluation.

cc:

C35

C351



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. 9301

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	REMARKS
12288	9/1/78	Polar I boson	Full Parallele After Verification Review Inspection Signed Via
(559)		/, / , / / / / / / / / / / / / / / / / / /	Drawing No. 26
12285	9/11/78	Richard L. Hogan	Full Part Before After Verification Review Inspection Signed Via
(101)		'/	Drawing No. 21 THRU CHART 12288 DWG # 26
ع و د			
77	4-17-79	EAUAG.M	Full Part Before After Verification Review Inspection Signed Via
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