

TP-00327

TP-00327

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Type of Survey Shoreline.....	
Job No. ..PH-7012.....	Map No. TP-00327..
Classification No. <i>Final</i>	Edition No. ..1.....
<i>Field edited map</i>	
LOCALITY	
State Maryland.....	
General Locality ...Potomac River.....	
Locality ..Stump Neck to Cornwallis Neck.....	
Mattawomen Creek.....	
1971 TO 1973	
REGISTRY IN ARCHIVES	
DATE	

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

cht

12285 (101) A-D.K. , 9-16-77

12288 (559) A-B.W. , 4-4-77

12289 (560) Part Applied, 9-5-78

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY TP00327

MAP EDITION NO. 1

MAP CLASS *FINAL*
Field edited
JOB PH 7012
Part 1

PHOTOGRAMMETRIC OFFICE

Rockville, Maryland

OFFICER-IN-CHARGE

James Collins, Commander

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☐ ORIGINAL
☐ RESURVEY
☐ REVISED

JOB PH-

MAP CLASS

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation - Dec. 6, 1971
Photogrammetric - Feb. 29, 1972
(Review of Instructions - Feb. 24, 1972)
(Field)

2. FIELD

Hydro support & edit 2/9/73
Ammended 2/15/73 (*instr. missing*)

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☐ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

Maryland

ZONE

5. SCALE

1:10,000

STATE

Virginia

ZONE

North

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	Donald M. Brant	3/72
METHOD: <i>Analytical</i>	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	Dan Phillips	3/72
METHOD: <i>Coradomat</i>	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	J. C. Richter	4/72
COMPILATION	CHECKED BY	J. P. Battley, Jr.	4/72
INSTRUMENT: <i>B-8</i>	CONTOURS BY	Inapplicable	
SCALE: <i>1:10,000</i>	CHECKED BY	Inapplicable	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J. C. Richter	4/72
	CHECKED BY	M. C. Webber	4/72
	CONTOURS BY	Inapplicable	
METHOD: <i>Graphic Worksheets</i>	CHECKED BY	Inapplicable	
	HYDRO SUPPORT DATA BY	J. C. Richter	4/72
SCALE: <i>1:10,000</i>	CHECKED BY	J. P. Battley, Jr.	4/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. P. Battley, Jr.	4/72
	BY	R. Rich	10/74
6. APPLICATION OF FIELD EDIT DATA	CHECKED BY	J. P. Battley, Jr.	7/76
7. COMPILATION SECTION REVIEW	BY	J. P. Battley, Jr.	7/76
8. FINAL REVIEW	BY	<i>J. B. Phillips</i>	<i>9/76</i>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	<i>R. T. CATOR</i>	<i>3/77</i>

TP-00327
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S)

"L" 6" Focal Length

TYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

☒ PREDICTED TIDES☐ REFERENCE STATION RECORDS☐ TIDE CONTROLLED PHOTOGRAPHY

(C) COLOR

(P) PANCHROMATIC

(I) INFRARED

ZONE

Eastern

MERIDIAN

75th

☒ STANDARD☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71L(C) 323-325	11/4/71	12:14	1:40,000	0.0 MLW
71L(C) 402 - 403	11/5/71	10:16	1:40,000	1.3' above MLW
71L(C) 497-502	11/5/71	11:50	1:20,000	0.6' " "
71L(C) 475-477	11/5/71	11:35	1:20,000	0.3' above MLW

REMARKS

1:20,000 scale photographs ratioed to 1:10,000

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation from 1:40,000 scale bridging photographs dated November 4, 1971.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00324-TP-00325	No contemp. survey	No contemp. survey	TP-00326

REMARKS

TP-00327
HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION				☒ FIELD EDIT OPERATION			
OPERATION		NAME		DATE			
1. CHIEF OF FIELD PARTY		James W. Davis		8/73			
		RECOVERED BY James W. Davis		8/73			
2. HORIZONTAL CONTROL		ESTABLISHED BY					
		PRE-MARKED OR IDENTIFIED BY					
3. VERTICAL CONTROL		RECOVERED BY					
		ESTABLISHED BY					
		PRE-MARKED OR IDENTIFIED BY					
4. LANDMARKS AND AIDS TO NAVIGATION		RECOVERED (Triangulation Stations) BY James W. Davis		8/73			
		LOCATED (Field Methods) BY James W. Davis		8/73			
		IDENTIFIED BY James W. Davis		8/73			
5. GEOGRAPHIC NAMES INVESTIGATION		TYPE OF INVESTIGATION					
		☐ COMPLETE					
		☐ SPECIFIC NAMES ONLY					
		☒ NO INVESTIGATION					
6. PHOTO INSPECTION		CLARIFICATION OF DETAILS BY James W. Davis		8/73			
7. BOUNDARIES AND LIMITS		SURVEYED OR IDENTIFIED BY					
II. SOURCE DATA							
1. HORIZONTAL CONTROL IDENTIFIED				2. VERTICAL CONTROL IDENTIFIED			
PHOTO NUMBER		STATION NAME		PHOTO NUMBER		STATION DESIGNATION	
3. PHOTO NUMBERS (Clarification of details) NOS 5NOV71L 474, NOS 5NOV71L 475, NOS 5NOV71L 476, NOS 5NOV71L 498, NOS 5NOV71L 499, NOS 5NOV71L 500, NOS 5NOV71L 501							
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED James W. Davis, Richard D. Olson							
PHOTO NUMBER		OBJECT NAME		PHOTO NUMBER		OBJECT NAME	
71L 498		Stump Neck North Base Tank					
5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE				6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE			
7. SUPPLEMENTAL MAPS AND PLANS							
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)							

TP-00327
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and Alongshore features, landmarks & Aids	April 1972	Class III Manuscript		
Field Edit applied	Oct. 1974	Class I manuscript		Aug. 1976 AMC
Final Review prior to registration	Sept. 1976	No changes		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
4		9-20-76	Nonfloating aids to be charted
1		9-20-76	Nonfloating aids to be deleted
3		9-20-76	LOMKS

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9-20-763. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

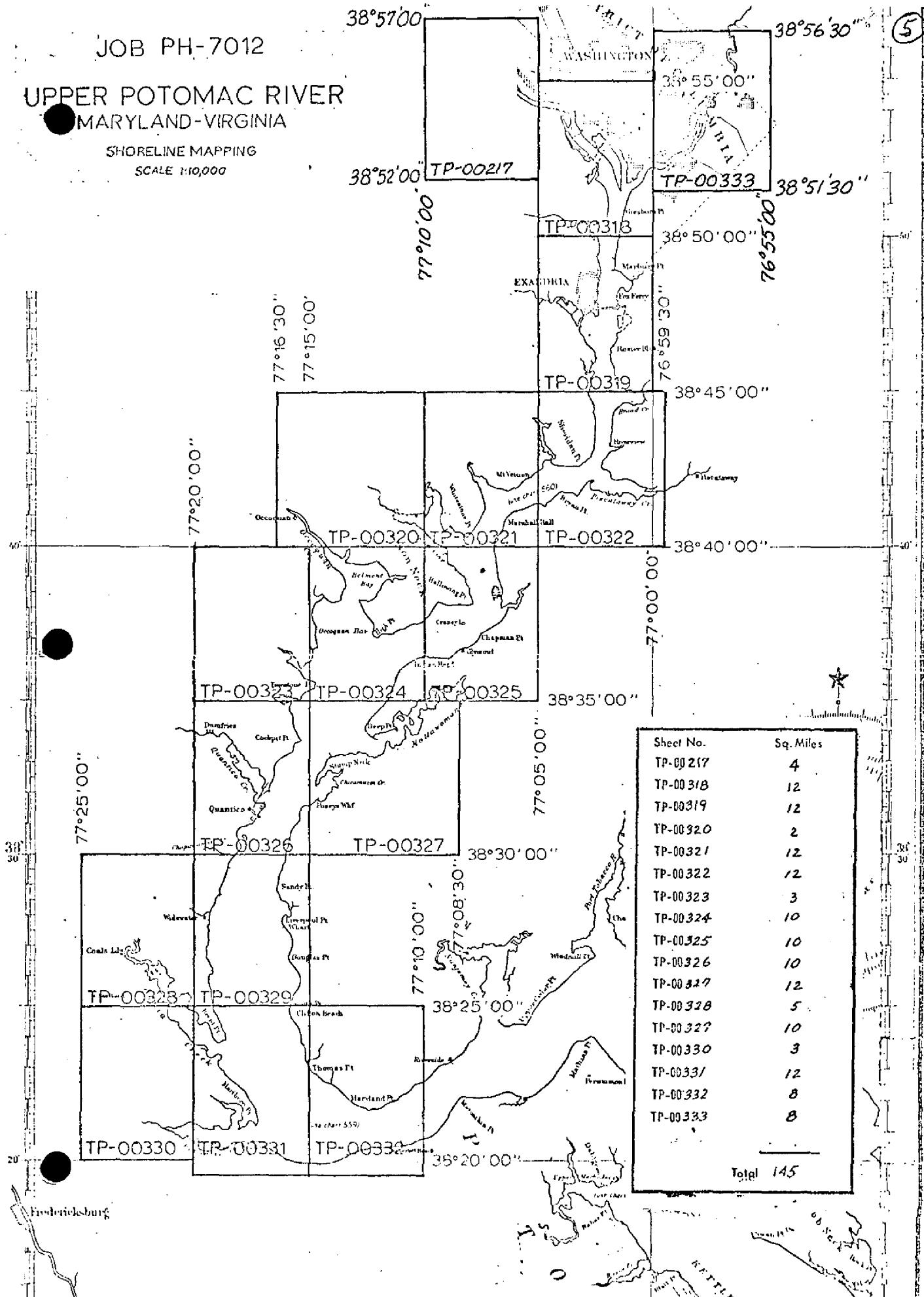
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB PH-7012

UPPER POTOMAC RIVER MARYLAND-VIRGINIA

SHORELINE MAPPING
SCALE 1:10,000



(6)

SUMMARY PH-7012 (Southern Part)

Seventeen maps comprise the entire project. This summary covers ten maps that extend along the Potomac River to the south from latitude 38°40'00". The seven maps that extend to the north will be reviewed and summarized in a separate report.

TP-00327 was compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and premarking of horizontal control.

This manuscript was compiled using the Wild B-8 stereoplotter with 1:40,000 scale color photography. Also 1:20,000 scale color photography was ratioed to 1:10,000 scale and common points were dropped along the shoreline as an aid in the location of hydrographic signals.

Field edit was accomplished during *August 1973*.

Final review was accomplished at the Rockville, Maryland, Office in *Sept. 1976*.

A stable base positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-7012
Upper Potomac River, Maryland-Virginia (Part 1)
March 1972

21. Area Covered

This report covers an area of the Potomac River south from latitude 38 40 00 to Maryland Point (approximate latitude 38 20 00). The job consists of ten (10) 1:10,000 scale sheets (TP-00323 thru TP-00332).

22. Method

Severn (7) strips of photographs (strips 1 thru 7) were bridged using analytical aerotriangulation methods. All strips were adjusted to premarked control except that strip 2 was terminated on a position of a common point determined from strip 3. Strip 4 was terminated from positions of common points determined from strip 3 and station MARSH 1928 (field identified sub points). Ties were made to all strips. Sketch 1 shows the location of the strips of photography and the horizontal control stations used in bridging. Common image points were located between the bridging photography and the hydro support photography in order to determine the ratio for the 1:10,000 scale enlargements. Sketch 2 shows the location of the strips of photography for hydro support. Data for the 1:10,000 scale compilation of the ten (10) sheets were plotted by the Coradomat on the Virginia (north zone) coordinate system.

23. Adequacy of control

All horizontal control was premarked except CLYMOUNT LIGHT 1958 (identified direct) and MARSH 1928. Field identification of sub points for MARSH 1928 were determined after the photography was flown. Horizontal control was adequate.

24. Supplemental Data

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

2

25. Photography

The following RC-8 color photography was used in bridging:

1:40,000 scale photography

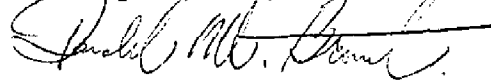
Strip 1	71-L(C)-0378 thru 0385
Strip 2	71-L(C)-0303 thru 0309
Strip 3	71-L(C)-0322 thru 0331
Strip 5	71-L(C)-0410 thru 0419
Strip 6	71-L(C)-0397 thru 0407
Strip 7	71-L(C)-0386 thru 0392

1:20,000 scale photography

Strip 4 71-L(C)-9932 thru 9935

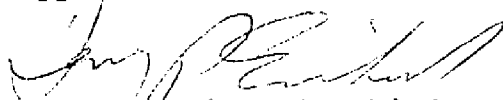
The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:



Donald M. Brant
Cartographer

Approved and forwarded:



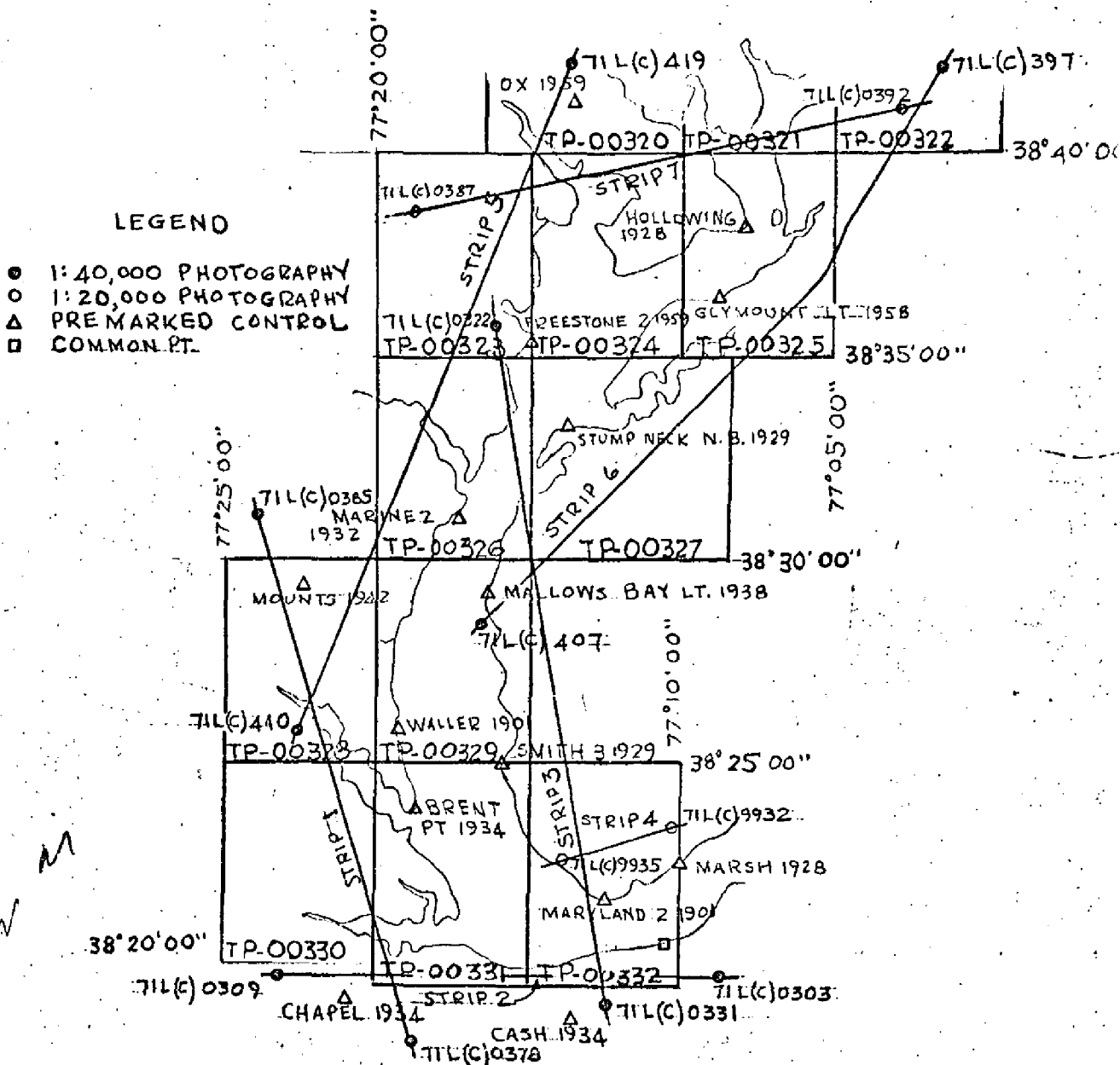
Henry P. Eichert, Chief
Aerotriangulation Section

JOB PH-7012

UPPER POTOMAC RIVER MARYLAND-VIRGINIA

SHORELINE MAPPING

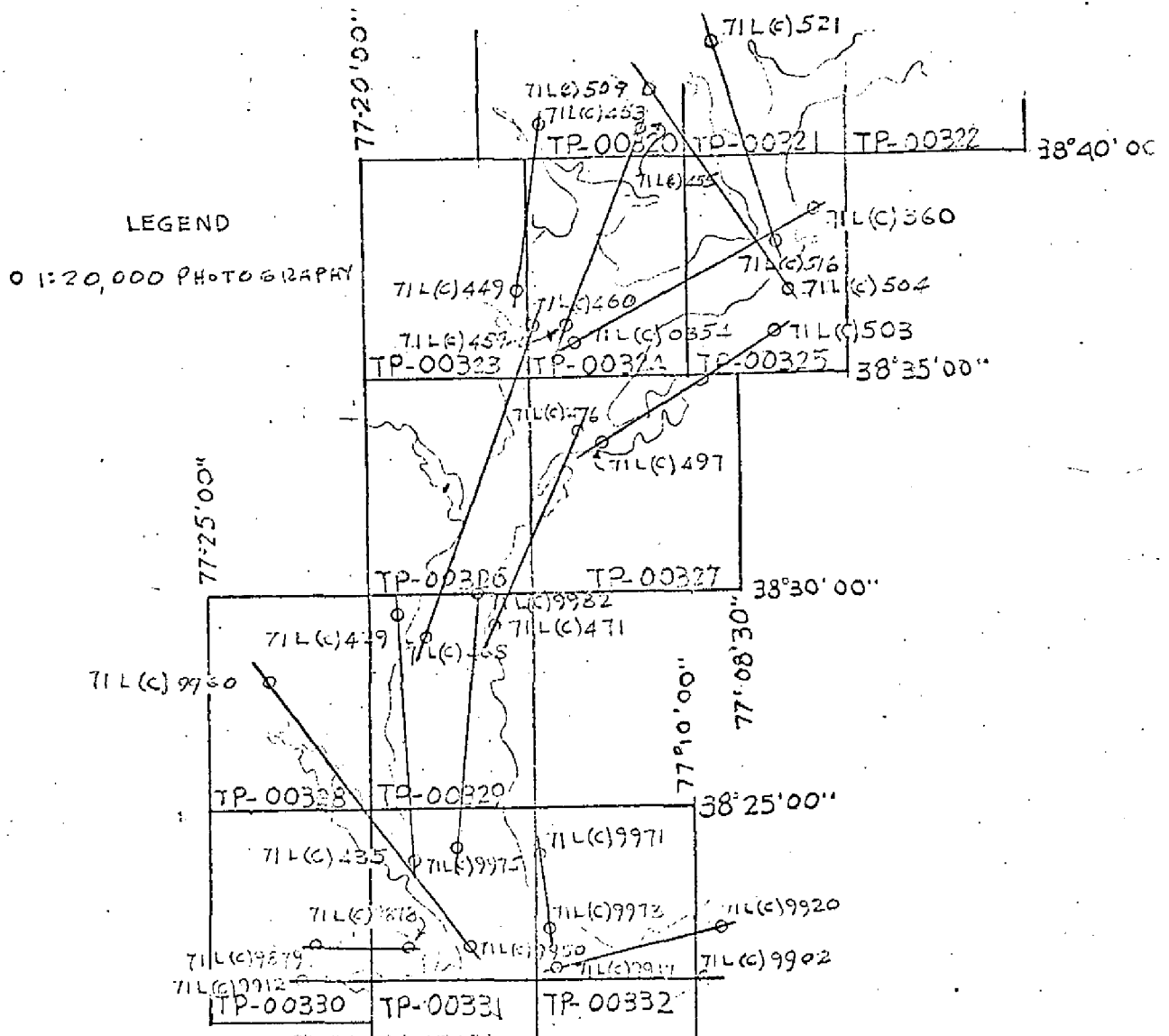
SCALE 1:10,000



JOB PH-7012

10

UPPER POTOMAC RIVER



Compilation Report
TP-00327

31. Delineation

1:40,000 scale color bridging photography was set on the B-8 stereoplotter for delineation of the shoreline, foreshore and offshore features.

1:20,000 scale color photography was ratioed to 1:10,000 scale and common points were dropped along the shoreline for hydro support.

32. Control

Horizontal control was adequate for density and placement.

Vertical control from USGS quads and water level.

33. Supplemental Data - None

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

Shoreline was delineated by office interpretation from color photographs dated November 1971. No low water or shoal lines were delineated.

36. Offshore Details

Maryland fisheries' markers could not be seen on the photographs and will be located by field edit.

37. Landmarks and Aids

One landmark to be checked -

3 lights and 2 daybeacons to be located.

38. Control for Future Surveys

None

39. Junctions

No contemporary surveys to the south and east.
To the north with TP-00324 and TP-00325
To the west with TP-00326

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle Indian Head, Md.-Va.
Edition of 1956, scale 1:24,000.

47. Comparison with Nautical Charts

Comparison was made with nautical chart No. 559, scale 1:40,000,
9th Edition, February 27, 1971.

Items to be applied to nautical charts immediately - None

Items to be carried forward - None

Submitted by:

John C. Richter

Approved and Forwarded:

K. N. Maki
Chief, Coastal Mapping Section

FIELD EDIT REPORT
TP 00327
Upper Potomac River, Md.-Va.
PH-7012
July 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 January 9, 1973 and as amended Feb. 15, 1973.

A visual inspection and verification was made of all shoreline and along-shore features. Revisions are indexed on the field edit ozalid in violet to indicate corrections or additions and in green to indicate deletions. Sextant fixes taken are listed on the field edit ozalid along with a signal list.

Occasional distances to the HWL were taken and are indexed on the Field Edit Ozalid. All other shoreline was verified in the field as compiled.

52. ADEQUACY OF COMPILATION

Compilation was adequate in shoreline delineation and alongshore features except as noted on the field edit ozalid.

54. RECOMMENDATIONS

Cornwallis Neck is used by the Navy as an explosive testing area. Many shoreline areas are dangerous due to firing towards the water. It is recommended that some mention of this activity should appear on the chart.

56. GEOGRAPHIC NAMES

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

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

Three landmarks, two water tanks and one shack, are recommended for charting. See form 76-40.

Four aids to navigation are recommended for charting. Daybeacons "1" and "2" in Mattamoman Creek were located by sextant fix. Daybeacon "2" was found severely leaning and awash at high water. Two lights at Stump Neck were recovered and are recommended. Three lights are charted here but only two were found.

58. MISCELLANEOUS

All times mentioned on the field edit ozalid refer to Greenwich Mean Time.

Respectfully Submitted,

James W. Davis

James W. Davis

LTJG. NOAA

Chief, Photo Party 61

Review Report TP-00327
Shoreline Survey
October 1976

62. Comparison with Registered Topographic Surveys

T-5762 1:10,000 1940

This survey is superseded by the new map.

63. Comparison with Maps of Other Agencies

U.S. Geological Survey Quad: Indian Head, Md.-Va.- 1:24,000 1956

64. Comparison with Contemporary Hydrographic Surveys

The hydrographic survey boat sheets are in the AMC. Class I manuscript copies were recently forwarded for use in smooth sheet processing. Some editing was done by the compilation office prior to final review, and after the Class I copies were sent to the AMC. After review, copies of the final maps will be forwarded to the AMC for comparison.

65. Comparison with Nautical Charts

Chart 560 1:40,000 1972
Chart 12288 (559) 1:40,000 1975

The geographic name Bullocks Neck which appears on the map at approx. 38°34' latitude and 77°10'45" longitude is labeled Bullitt Neck on both charts. The Chief Geographer has verified the name to be correct as shown on this map. Charts have been notified of the discrepancy.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:

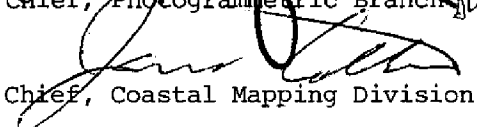


J. B. Phillips

Approved:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

November 5, 1976

GEOGRAPHIC NAMES

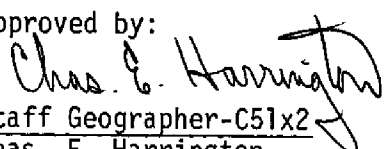
FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00327

Bullitt Neck	Point Landing
Chicamuxen Creek	Poseys Wharf
Cornwallis Neck	Potomac River
Deep Point	Proctors Wharf
Grinders Wharf	Rum Point
Hog Island	Stump Neck
Linton Point	Sweden Point
Marsh Island	Thoroughfare Island
Mattawoman Creek	

Approved by:


Staff Geographer-C51x2
Chas. E. Harrington

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
PARTMENT OF COMMERCE USA

TERMINAL
VERSION
/09/76

copy to Charts
9-20-76

* SVY TP-00327 * RPT UNIT CMD ROCKVILLE, MD. * PAGE 1 OF 3 *
* JOB PH-7012 * STATE VA. AND MARYLAND *
* PRJ 834201 * LOCALITY POTOMAC ROVER * ORIGINATING ACTIVITY *
* DTM NA 1927 * DATE 09/01/76 * COMPILATION *
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* DESCRIPTION * POSITION * METHOD AND DATE * CHARTS *
* CHARTING * RECORD REASON FOR DELETION * LATITUDE DM C-C * OF LOCATION *
* NAME * PUT TRIANGULATION NAMES IN () * LONGITUDE DP SEQ * OFFICE * FIELD * AFFECTED *

* LIGHT * STUMP NECK PIER LIGHT * 38 33 13.26 408.9 NOT * P-5 * 559 *
* * * 77 14 09.66 233.9 DGTZD * 07/19/73 * 101SC *
* * * *method of location unknown* ~~716475~~ *
* LIGHT * STUMP NECK FENDER LIGHT * 38 33 12.81 395.0 NOT * P-5 *
* B * * 74 14 06.57 159.1 DGTZD * 07/19/73 * DITTO *
* * * ~~716475~~ *
* DYBN * MATTAWOMAN CREEK * 38 33 29.41 906.8 NOT * F-4-8-L *
* I * * 77 12 47.45 1148.9 DGTZD * 07/19/73 * DITTO *
* * *
* DITTO * 38 33 24.74 762.8 NOT * F-4-8-L *
* 2 * 77 12 49.72 1203.9 DGTZD * 07/19/73 * DITTO *
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(17)

ORIGINATOR

J.W. DAVIS
P.J. DEMPSEY
N/A
J. TAYLOR

FIELD REPRESENTATIVE
OFFICE COMPILER
DIGITIZER
DATA PROCESSOR

76-40
11STIN

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY
DEPARTMENT OF COMMERCE
NOAA
USA

TERMINAL
VERSION
/09/76

LISTING

SVY	TP-00327	*
JOB	PH-7012	*
PRJ	834201	*
DTM	NA 1927	*

LANDMARKS FOR CHARTS
TO BE CHARTED

* RPT UNIT CMD ROCKVILLE, MD.
* STATE VA. AND MARYLAND
* LOCALITY POTOMAC ROVER
* DATE 09/01/76

PAGE 2 OF 3

*ORIGINATING ACTIVITY
*COMPILATION

THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

CHARTING*	DESCRIPTION	RECORD REASON FOR DELETION	POSITION	CODES*	METHOD AND DATE	* CHARTS
NAME	PUT TRIANGULATION NAMES IN ()		LATITUDE	C-C	OF LOCATION	* CHARTS
			LONGITUDE	SEQ	OFFICE	* AFFECTED

* PUMP HOUSE
SHACK * HT=13(13)

38	34	27.47	847.0	NOT *	71LC)498
77	12	20.08	486.1	DGTZD*	4-1977

* STUMP NECK N. BASE RED AND
TANK * WHITE TANK HT=127(252)

38	32	55.26	1703.9	NOT *	7/7(C)498
77	12	10.24	248.0	DGTZD*	4-1972

* CORNWALLIS NECK SILVER
TANK * TANK HT=195(230)

22

8	34	30.69	946.3	N0T *
7	12	00.92	22.3	06TZD**

F-3-6-L
07/19/73

DITTO

18

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	J.W. DAVIS	PHOTO FIELD PARTY
POSITIONS DETERMINED	J.W. DAVIS	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	P.J. DEMPSEY	OFFICE COMPILER
FIELD AND OFFICE	N/A	DIGITIZER
ACTIVITIES	J. TAYLOR	DATA PROCESSER

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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

USCOMM-DC 8558-P63