

TP-00323

TP-00323

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-00323

Classification No. Final Edition No. I
Field Edited Map

LOCALITY

State Virginia-Maryland

General Locality Potomac River

Locality Neabsco

1971 TO 1973

REGISTRY IN ARCHIVES

DATE

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

12285 A - DK 9-16-79
12288 A - BW 4-4-79
12289 P.A. - BW

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland OFFICER-IN-CHARGE James Collins, Commander		SURVEY TP. <u>00323</u> MAP EDITION NO. <u>(1)</u> <i>Field edited</i> MAP CLASS <u>Part 1</u> <i>FINAL</i> JOB <u>PH. 7012</u>	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland OFFICER-IN-CHARGE James Collins, Commander		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation - Dec. 6, 1971 (Review of Instructions - 2/24/72 - <i>Field instr.</i>) Photogrammetric - 2/29/72 (<i>Office instr.</i>)		Hydro support & edit 2-9-73 (<i>missing</i>) Amended 2-15-73 (<i>missing</i>)	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (<i>Specify</i>)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (<i>Specify</i>)	
3. MAP PROJECTION Mercator		4. GRID(S) STATE <u>Virginia</u> ZONE <u>North</u> STATE <u>Maryland</u> ZONE <u> </u>	
5. SCALE 1:10,000		STATE <u>Maryland</u> ZONE <u> </u>	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <i>Analytical</i> LANDMARKS AND AIDS BY		D. M. Brant	3/72
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <i>Coradomat</i> CHECKED BY		D. Phillips	5/72
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <i>B-8</i> CONTOURS BY SCALE: <i>1:10,000</i> CHECKED BY		J. C. Richter	5/72
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <i>B-8 Worksheets</i> CONTOURS BY CHECKED BY SCALE: <i>1:10,000</i> HYDRO SUPPORT DATA BY CHECKED BY		M. Webber J. Battley, Jr. Inapplicable M. Webber J. Battley, Jr.	5/72 5/72 5/72 5/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley, Jr.	5/72
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		J. Taylor J. Battley, Jr.	11/74 7/76
7. COMPILATION SECTION REVIEW BY		J. Battley, Jr.	8/76
8. FINAL REVIEW BY		J. B. Phillips	9/76
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. T. CATRE	3/77

TP-00323
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) "L" 6" Focal Length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES				Eastern	
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71L(C) 415 - 417	11/5/71	10:30	1:40,000	0.5' above MLW
71L(C) 449- 451	11/5/71	11:25	1:20,000	1.4' above MLW

REMARKS

1:20,000 photographs ratioed to 1:10,000 for hydro support.

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of 1:40,000 bridging photography dated Nov. 5, 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-00320	TP-00324	TP-00326	No contemporary survey

REMARKS

TP-00323

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	James W. Davis	8/73
2. HORIZONTAL CONTROL	RECOVERED BY James W. Davis	8/73
	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 <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> 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 5 Nov 71L 448, NOS 5 NOV 71L 449, NOS 5 NOV 71L 461

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None to be charted.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☐ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☐ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

NOAA FORM 76-36D
(3-72)

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

TP-00323
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and along shore features, landmarks & aids	May 1972	Class III Manuscript	May 1972	
Field Edit Application	Nov. 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

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ 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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB PH-7012

UPPER POTOMAC RIVER MARYLAND-VIRGINIA

SHORELINE MAPPING
SCALE 1:10,000

38°57'00"

38°56'30"

5

38°52'00"

TP-00217

TP-00333

38°51'30"

77°10'00"

TP-00318

38°50'00"

76°55'00"

77°16'30"
77°15'00"

EXA-DRIA

TP-00319

38°45'00"

77°20'00"

TP-00320

TP-00321

TP-00322

38°40'00"

TP-00323

TP-00324

TP-00325

38°35'00"

77°25'00"

TP-00326

TP-00327

38°30'00"

77°05'00"

77°10'00"

77°08'30"

38°25'00"

TP-00328

TP-00329

Sheet No.	Sq. Miles
TP-00217	4
TP-00318	12
TP-00319	12
TP-00320	2
TP-00321	12
TP-00322	12
TP-00323	3
TP-00324	10
TP-00325	10
TP-00326	10
TP-00327	12
TP-00328	5
TP-00329	10
TP-00330	3
TP-00331	12
TP-00332	8
TP-00333	8

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-00323 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 identifica-

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

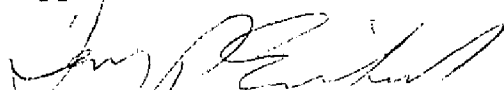
The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:



Donald M. Brant
Cartographer

Approved and forwarded:



Henry P. Eichert, Chief
Aerotriangulation Section

JOB PH-7012

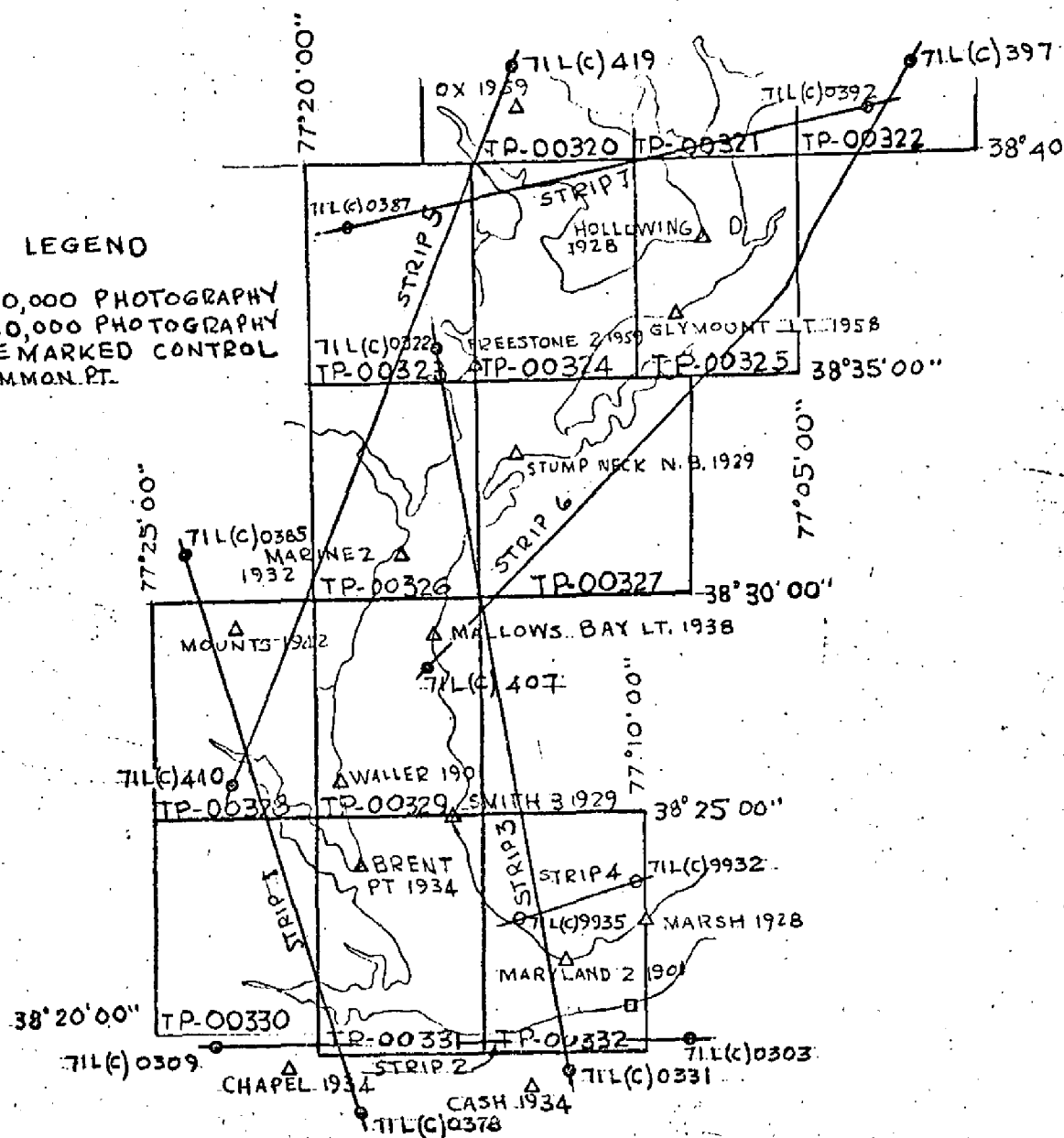
UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING

SCALE 1:10,000

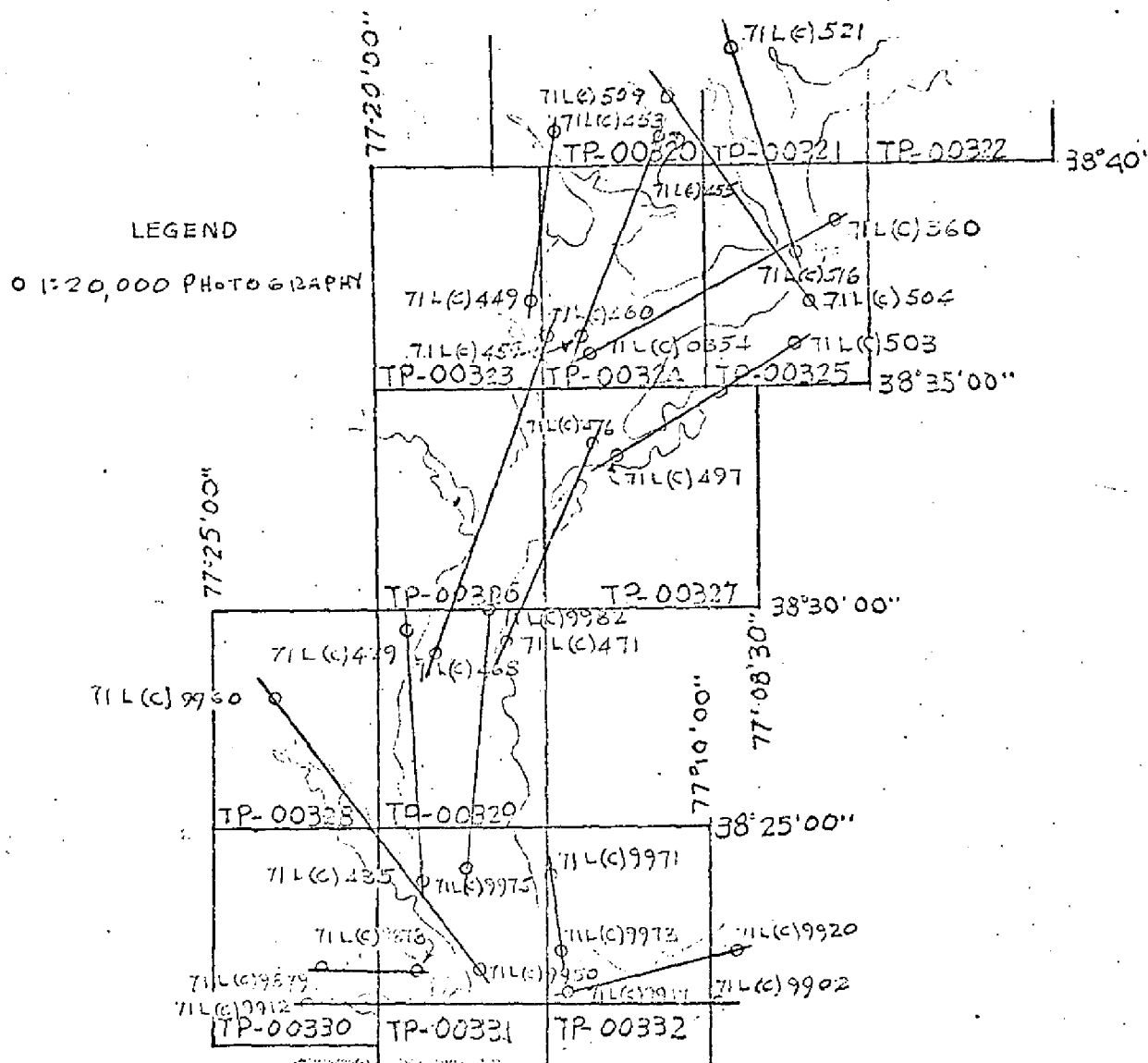
LEGEND

- 1:40,000 PHOTOGRAPHY
- 1:20,000 PHOTOGRAPHY
- △ PREMARKED CONTROL
- COMMON PT.



JOB PH-7012

UPPER POTOMAC RIVER



Compilation Report

TP-00323

Potomac River

31. Delineation

1:40,000 scale color bridging photography was set on the B-8 stereoplotter to delineate 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 quadrangles was adequate for leveling B-8 models.

33. Supplemental Data - None

34. Contours and Drainage

Inapplicable.

35. Shoreline and Alongshore Detail

Shoreline was delineated from office interpretation of 1:40,000 scale color photography dated November 1971. No low water line or shoal areas were shown except for mud flats in Neabsco Creek and Powells Creek.

36. Offshore Details

Piling was not visible on the photography and will be verified during field edit.

37. Landmarks and Aids

None

38. Control for Future Surveys

None

39. Junctions

To the north with TP-00320
To the south with TP-00326
To the east with TP-00324

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with USGS quadrangles Quantico Va.-Md., scale 1:24,000, Edition 1956; Occoquan, Va. - scale 1:24,000, Edition 1966.

47. Comparison with Nautical Charts

Comparison was made with nautical chart 560 - 32nd Edition, February 26, 1972.

Items to be applied to nautical charts immediately - None

Items to be carried forward - None

Submitted by:

Martha C. Webber

Approved and Forwarded

K. N. Maki
Chief, Coastal Mapping Section

FIELD EDIT REPORT
TP-00323
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 ammended , Feb. 15, 1973,

A visual inspection and verification was made of all shoreline and along-shore features. Details are indexed on the field edit ozalid in violet to indicate additions or corrections and in green to indicate deletions. Fixes listed on the field edit ozalid are not in proper numerical order, for there is no fix 3,6, or 7.

Occasional verification of the HWL appears on photo 71 L 461 where tree overhang hindered compilation. 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

On this sheet, as in most of the project area, it is recommended that the areas that were compiled as "mud" be changed to "grass in water", as these areas delineate water lily growth.

56. GEOGRAPHIC NAMES

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

57. LANDMARKS AND AIDS TO NAVIGATION

No landmarks or aids to navigation are recommended for charting on this sheet.

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-00323
Shoreline Survey
October 1976

61. General Statement

The only field inspection operation for this job consisted of pre-marking control. The names of those people responsible for doing the premarking and the dates are not available.

62. Comparison with Registered Topographic Surveys

T-5763	1:10,000	1938-1939
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This survey is superseded by the new map.

63. Comparison with Maps of Other Agencies

U.S. Geological Quads: Quantico, Va.-Md.	1:24,000	1956
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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

560	1:40,000	1972
12288	1:40,000	1975

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
J. B. Phillips

Approved:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Coastal Mapping Division

November 5, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00323

Farm Creek

Featherstone

Marumscro Acres

Marumscro Creek

Marumscro Woods

Neabsco

Neabsco Creek


Potomac River

Powells Creek

Richmond Fredericksburg and Potomac (RR)

Virginia

Approved by:


Staff Geographer=C51x8
Chas. E. Harrington

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

TP00323

1. Letter all information.

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

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.