

TP-00330

TP-00330

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-00330
Classification No. FINAL	Edition No. ... 1
Field edited map	
LOCALITY	
State ... Virginia ... Maryland	
General Locality ... Potomac River	
Locality ... Aquia Creek to Potomac Creek	
19 71 TO 1972	
REGISTRY IN ARCHIVES	
DATE	

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

Chts

12285 (101) A DK 9/77
12288 (559) A RH 8/79

TYPE OF SURVEY

SURVEY TP. 00330

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. (1)

☐ RESURVEYMAP CLASS *FINAL*☐ REVISED

JOB PH-7012

Part 1

PHOTOGRAMMETRIC OFFICE

LAST PRECEDING MAP EDITION

Rockville, Maryland

TYPE OF SURVEY

JOB PH-_____

OFFICER-IN-CHARGE

☐ ORIGINAL

MAP CLASS _____

James Collins, Commander

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

2. FIELD

Aerotriangulation Instructions:
Upper Potomac River - Shoreline mapping
Job PH-7012, Dec. 6, 1971.
Photogrammetric - 2-29-72 (*compilation*)
(Review of Instructions - 2-24-72)
(*Field instr.*)

Edit - March 1, 1972
(*instructions missing*)

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICANOTHER (*Specify*)

2. VERTICAL:

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

OTHER (*Specify*)

3. MAP PROJECTION

4. GRID(S)

Mercator

STATE

Virginia

ZONE

North Zone

5. SCALE

STATE

ZONE

1:10,000

III. HISTORY OF OFFICE OPERATIONS

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

TP-00330
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) "L" 6" Focal Length		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE ZONE Eastern MERIDIAN 60th & 75th		☒ STANDARD ☒ DAYLIGHT
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY						
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE		
71L(C) 9956 - 9957	10/12/71	12:11	1:20,000	1.0' above MLW		
71L(C) 9971 - 9972	10/12/71	10:10	1:20,000	" "		
71L(C) 9902 - 9906	10/12/71	10:27	1:20,000	" "		
71L(C) 9917 - 9920	10/12/71	10:12	1:20,000	" "		
71L(C) 9911 - 9912	10/12/71	10:40	1:20,000	1.0' above MLW		
71L(C) 9935	10/12/71	11:37	1:20,000	1.0' above MLW		
71L(C) 0308 - 309	11/4/71	11:37	1:40,000	-1.16' below MLW		
71L(C) 381 - 382	11/5/71	10:50	1:40,000	0.12' above MLW		

REMARKS

1:20,000 color enlarged to 1:10,000

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation from 1:40,000 scale photography on B-8 stereoplotter.

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-00328	TP-00331	No contemp. survey	No contemp. survey
REMARKS			

HISTORY OF FIELD OPERATIONS TP 00330

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Richard D. Olson	May 72
2. HORIZONTAL CONTROL	RECOVERED BY Richard D. Olson ESTABLISHED BY Richard D. Olson PRE-MARKED OR IDENTIFIED BY N.A.	May 72 May 72
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None LOCATED (Field Methods) BY None IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE BY ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY Richard D. Olson	May 72
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

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)

71L9912, 9956, 9957

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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

TP-00330
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline, offshore detail, inshore for 800 ft.	Mar. 1972	Class III manuscript	May 1972	
Field edit applied	Aug. 1972	Class I manuscript		Aug. 1976 AMC
Final review prior to registration	Oct. 1976			

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: _____

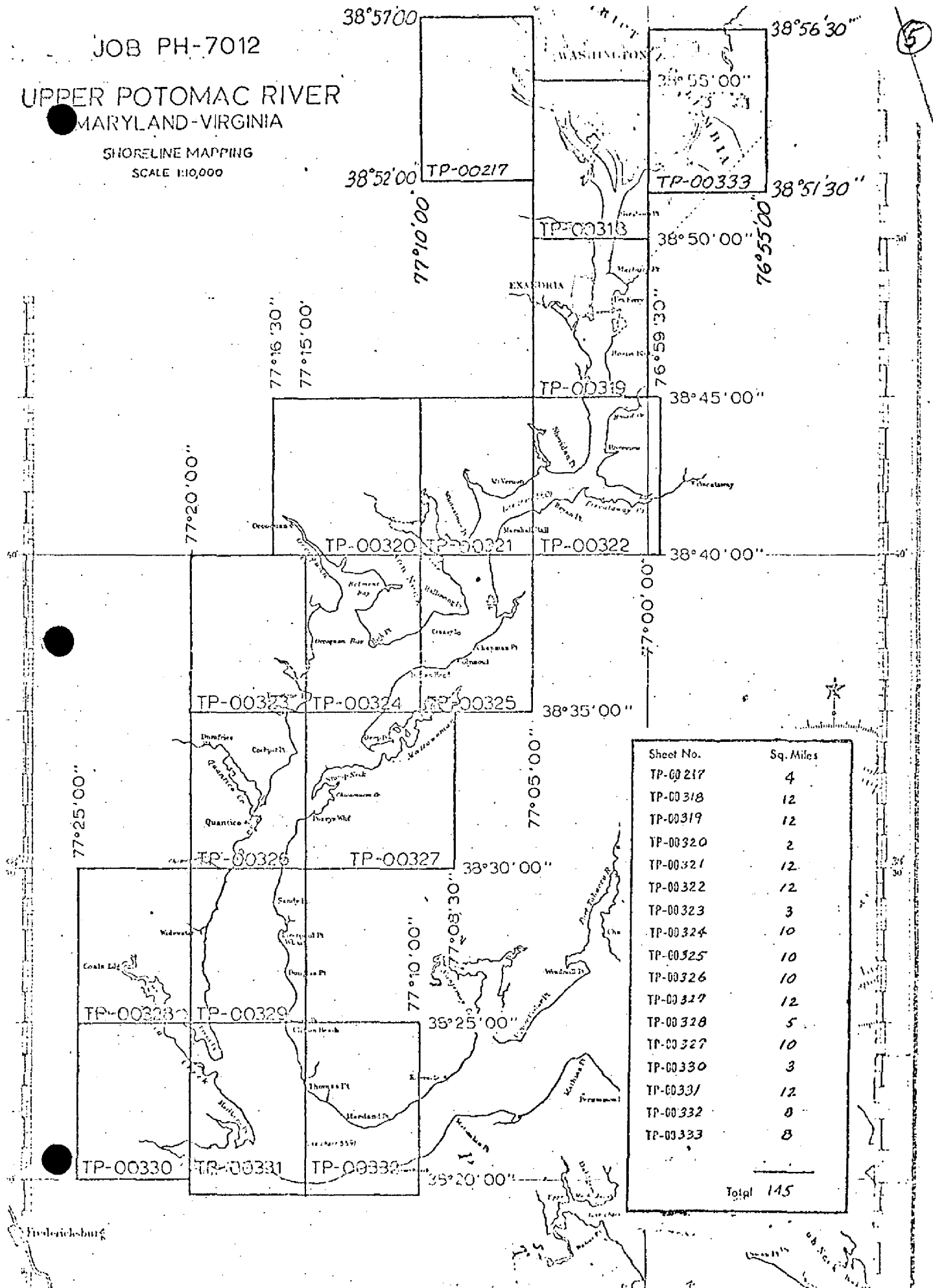
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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

JOB PH-7012

UPPER POTOMAC RIVER MARYLAND-VIRGINIA

SHORELINE MAPPING
SCALE 1:10,000



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	0
TP-00333	8
Total 145	

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-00330 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 *May 1972*

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

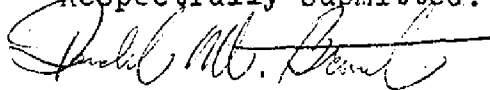
Strip 1	71-L(C)-0378 thru 0385
Strip 2	71-L(C)-0303 thru 0309
Strip 3	71-L(C)-0322 thru 0331
Strip 5	71-L(C)-0410 thru 0419
Strip 6	71-L(C)-0397 thru 0407
Strip 7	71-L(C)-0386 thru 0392

1:20,000 scale photography

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

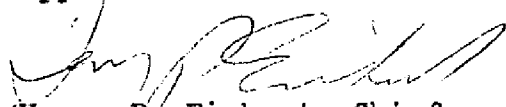
The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:



Donald M. Brant
Cartographer

Approved and forwarded:



Henry P. Eichert, Chief
Aerotriangulation Section

JOB PH-7012

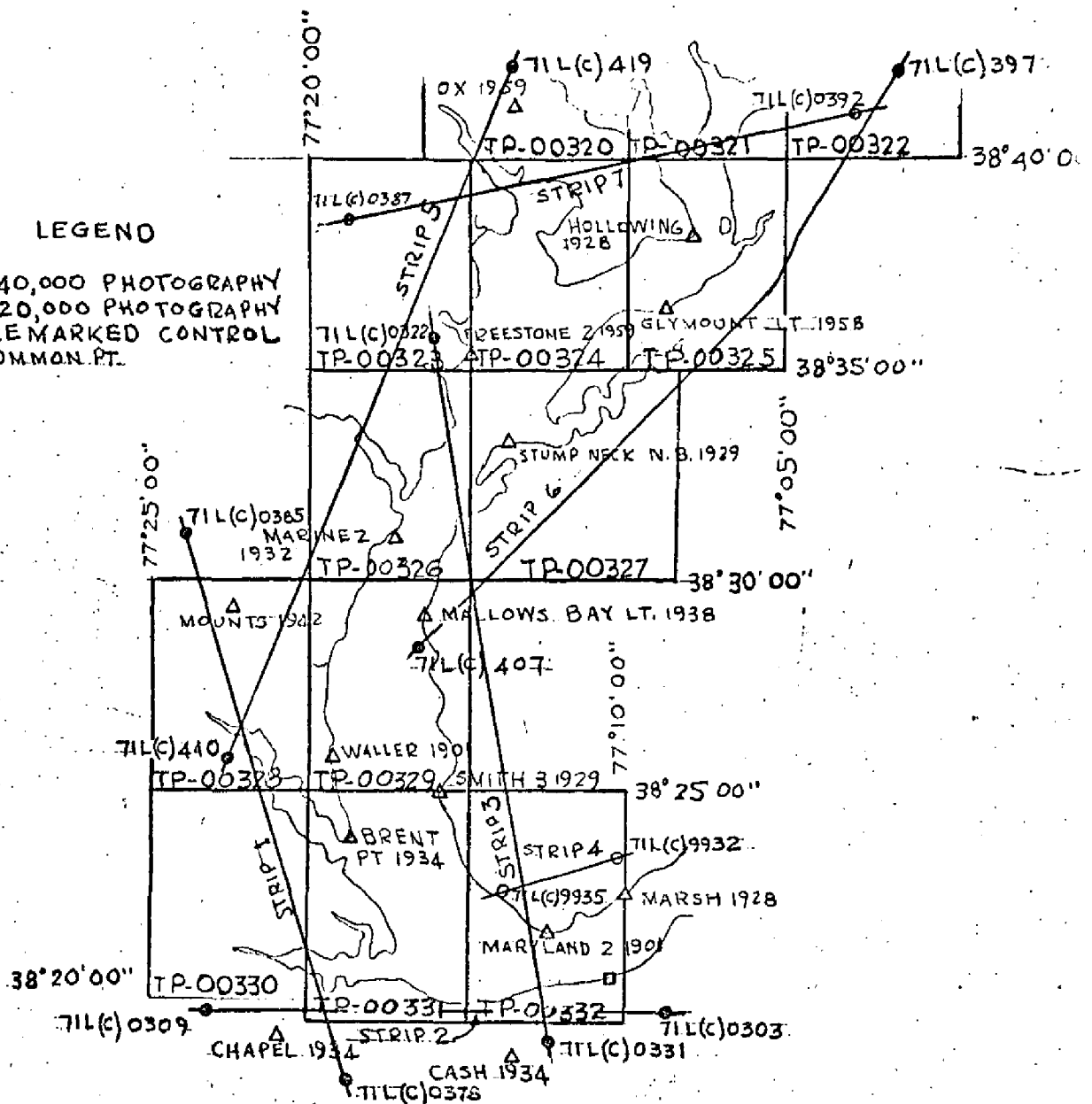
UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING

SCALE 1:10,000

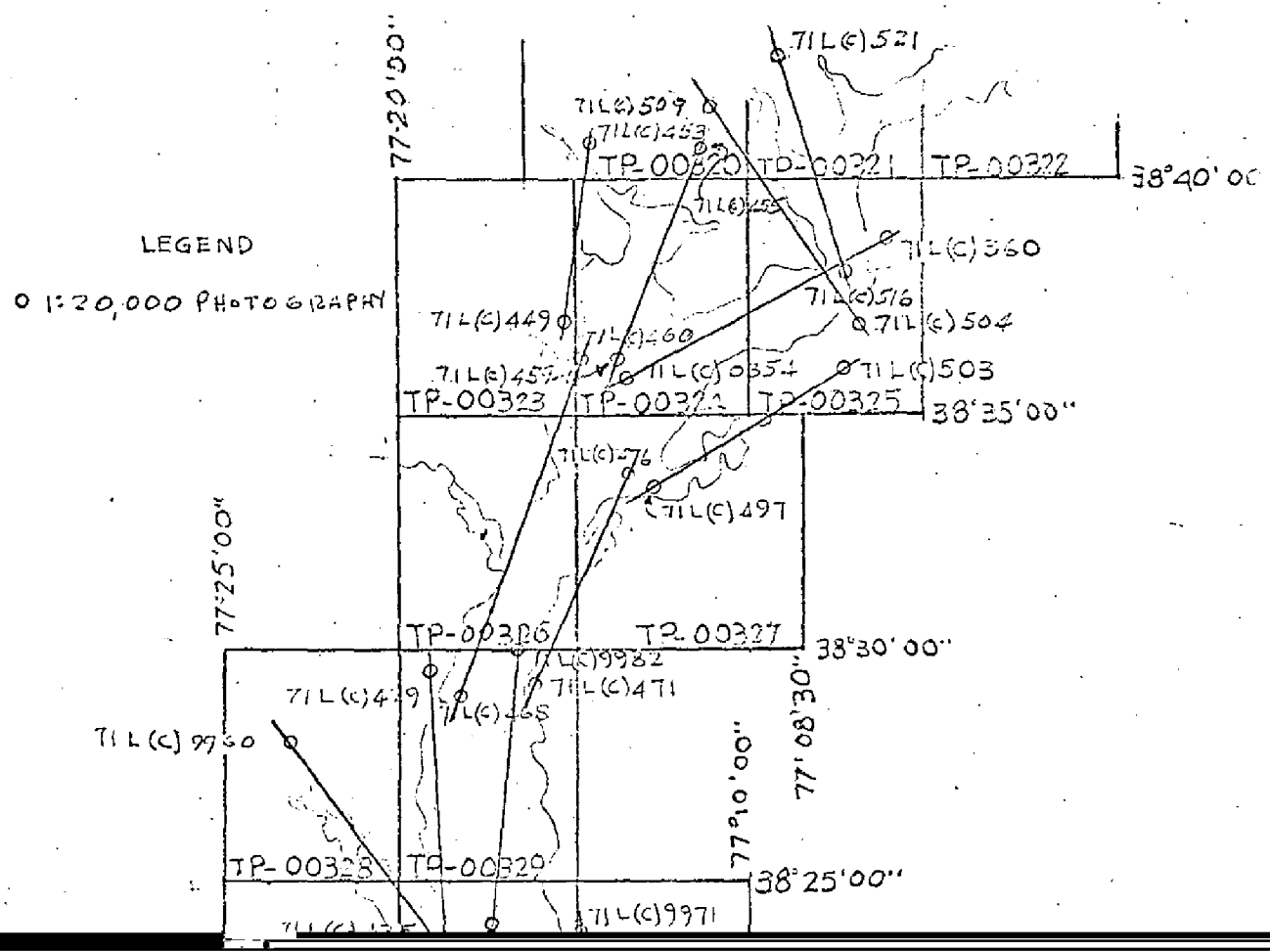
LEGEND

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



JOB PH-7012

UPPER POTOMAC RIVER



Compilation Report
TP-00330

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 lines or shoal areas were delineated.

36. Offshore Details

None

37. Landmarks and Aids

None

38. Control for Future Surveys

None

39. Junctions

To the north with TP-00328

To the east with TP-00331

No contemporary survey to the south

No contemporary survey to the west.

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle maps Widewater, Va.-Md., scale 1:24,000, Edition 1966 and Passapatanzy, Va.-Md., scale 1:24,000 Edition 1966.

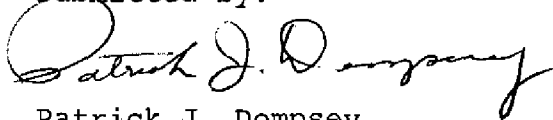
47. Comparison with Nautical Charts

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:



Patrick J. Dempsey

Approved and Forwarded

K. N. Maki
Chief, Compilation Section

FIELD EDIT REPORT
TP 00330
Potomac River
PH 7012

51. METHODS

51. All field edit work was done in accordance with project instructions to Chief of Hydrographic Field Party 742 titled OPR-409-HFP-742-72, Potomac River, Maryland dated March 1, 1972.

An inspection was made of all mean high water line and alongshore features and all additions, deletions, and corrections are shown on the field edit ozalid and photos 71L9956, 9957, and 9912. This ozalid is a complete index of all notes pertaining to this sheet.

In areas where tree overhang prevented accurate compilation, of the mean high water line, sextant fixes and distances to identifiable points on shore were taken. The positions of all signals used in sextant fixes are listed on the T-sheet.

All notes on this sheet by the field editor are in violet to indicate additions and changes, and in green to indicate deletions.

52. ADEQUACY OF COMPILATION

Compilation was adequate considering there was no field edit.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

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

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

No landmarks are recommended for compilation. There are no aids to navigation on this sheet.

58. MISCELLANEOUS

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

Respectfully submitted,



Richard D. Olson
LT. NOAA
Chief, Photo Party 61

SIGNAL LIST
FOR

14

Field Edit on TP 00330

Job PH 7012

Signal	LAT		Meters	LONG		Meters
	Deg	Min		Deg	Min	
563	38	23	849.0✓	77	18	1037.1✓
568	38	23	1212.0✓	77	19	68.9✓
576	38	24	406.0✓	77	18	400.0✓
580	38	24	46.6✓	77	19	1172.9✓
✓ 582	38	24	980.6✓	77	19	1258.9✓
✓ 584	38	24	1539.5✓	77	20	10.1✓
✓ 586	38	23	116.0✓	77	20	336.0✓
✓ 588	38	24	516.0✓	77	19	883.0✓
✓ 590	38	24	1650.8✓	77	21	271.8✓
✓ 592	38	24	1769.2✓	77	20	476.2✓

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DOO

Review Report TP-00330

Shoreline Manuscript

October 1976

62. Comparison with Registered Topographic Surveys

PH-6104 covers this area of the Potomac River. The job was started in 1961, but was canceled before all the sheets were compiled. This manuscript supersedes the earlier project.

63. Comparison with Maps of Other Agencies

U.S. Geological Survey Quads: Widewater, Va.-Md. 1:24,000 1966
Passapatanzy, Va.-Md. 1:24,000 1966

64. Comparison with Contemporary Hydrographic Surveys

The hydrographic survey boat sheets are in the AMC. Class I manuscript copies were forwarded for use in smooth sheet processing.

65. Comparison with Nautical Charts

12288 1:40,000 1975

66. Adequacy of Results and Future Surveys

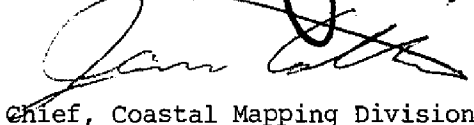
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:



J. B. Phillips

Approved:


Chief, Photogrammetric Branch
Chief, Coastal Mapping Division

November 8, 1976

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-7012 (Potomac River)
TP-00330

Accokeek Creek
Aquia Creek
Bennetts Point
Big Creek
Cole Trip Camp
Gourds Point
Potomac Creek
RF&P (RR)
Spillmans Landing
Stone Point
Watsons Point
Widewater Beach

Approved by:

Chas. E. Harrington
Staff Geographer-C51x2
Chas. E. Harrington

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

TP. 00330

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.

[illegible]