

TP-00326

TYPE OF SURVEY

SURVEY TP. 00326

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. 1

☐ RESURVEYMAP CLASS *Final*☐ REVISED*Field edited*
JOB PH. 7012
Part 2

PHOTOGRAMMETRIC OFFICE

LAST PRECEDING MAP EDITION

Rockville, Maryland

TYPE OF SURVEY

JOB PH. _____

OFFICER-IN-CHARGE

☐ ORIGINAL

MAP CLASS _____

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19__ TO 19__

James Collins, Commander

I. INSTRUCTIONS DATED

1. OFFICE

2. FIELD

Aerotriangulation - Dec. 6, 1971
Photogrammetric - Feb. 29, 1972
(Review of Instructions - 2/24/72)
(Field)Hydro Support and Edit
March 1, 1972 (*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
VirginiaZONE
North

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: <i>Analytic</i>	BY LANDMARKS AND AIDS BY	Donald M. Brant	3/72
2. CONTROL AND BRIDGE POINTS METHOD: <i>Coradomat</i>	PLOTTED BY CHECKED BY	Dan Phillips	3/72
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: <i>B-8</i> SCALE: <i>1:10,000</i>	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	J. C. Richter	4/72
4. MANUSCRIPT DELINEATION METHOD: <i>Graphic Worksheets</i> SCALE: <i>1:10,000</i>	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY	M. Webber J. Battley, Jr. Inapplicable M. Webber J. Battley, Jr.	4/72 4/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Battley, Jr.	4/72
6. APPLICATION OF FIELD EDIT DATA	BY CHECKED BY	J. C. Richter J. Battley, Jr.	10/72 7/76
7. COMPILATION SECTION REVIEW	BY	J. 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-00326
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) 412 - 415	11/5/71	10:30	1:40,000	0.7' above MLW	
71L(C) 462 - 468	11/5/71	11:26	1:20,000	0.4' " "	
71L(C) 424 - 427	11/5/71	11:00	1:20,000	0.6' " "	
71L(C) 472 - 474	11/5/71	11:35	1:20,000	0.3' above MLW	

REMARKS

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

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-00323	TP-00327	TP-00329	No contemporary survey

REMARKS

TP-00326
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline, alongshore detail landmarks & aids	April 1972	Class III Manuscript		
Field Edit applied	Oct. 1972	Class I Manuscript		Aug. 1976 AMC
Additions and changes to some offshore rock data	Sept. 1976	Class I Manuscript		
Final review prior to registration	Oct. 1976	Minor 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
7		9/20/76	Ldmks to be charted.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9-20-76
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

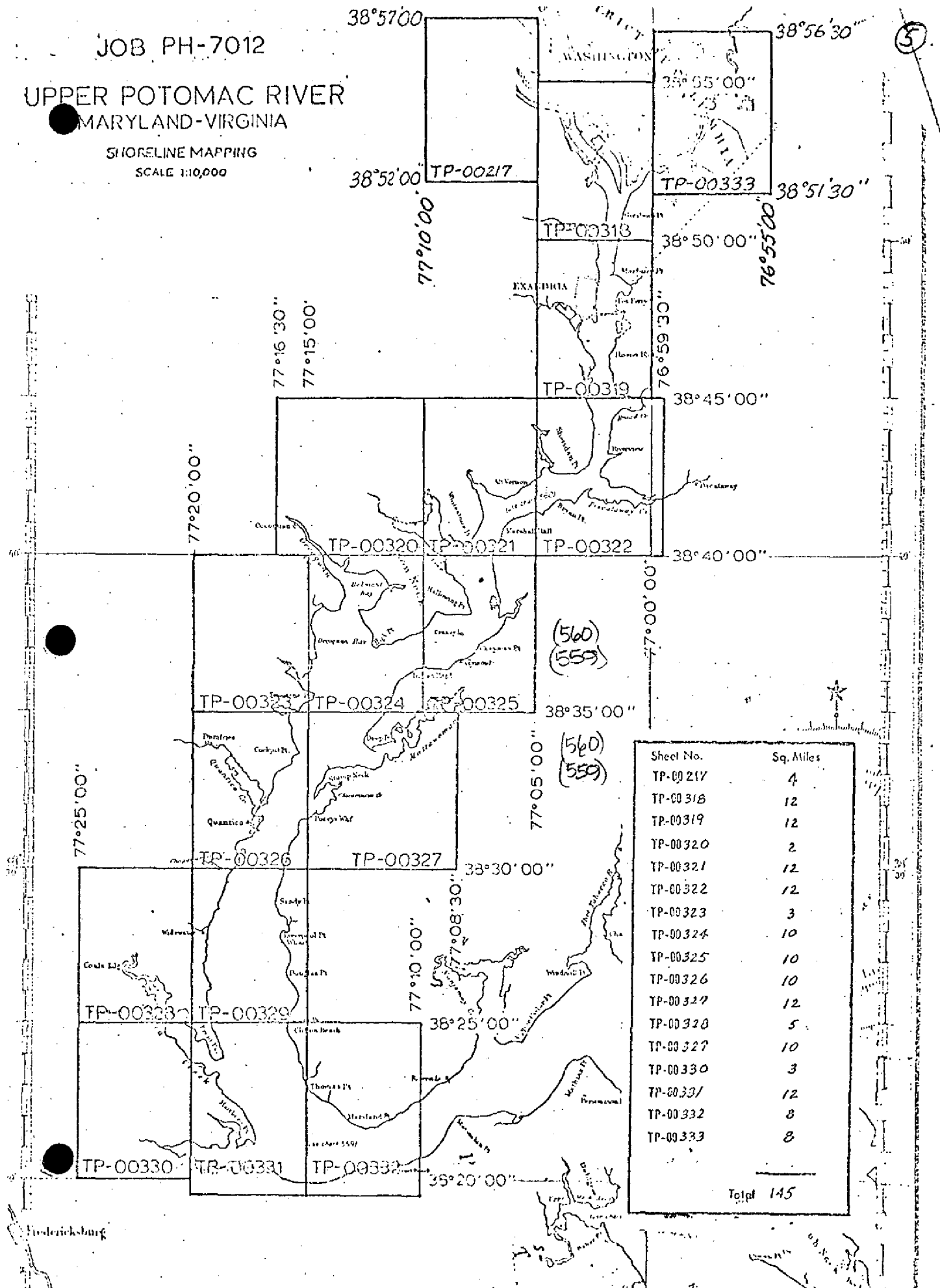
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL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

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-00326 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 *Sept. 1972*.

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

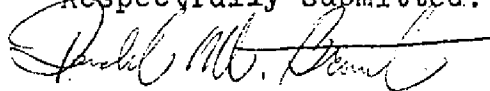
Strip 1	71-L(C)-0378 thru 0385
Strip 2	71-L(C)-0303 thru 0309
Strip 3	71-L(C)-0322 thru 0331
Strip 5	71-L(C)-0410 thru 0419
Strip 6	71-L(C)-0397 thru 0407
Strip 7	71-L(C)-0386 thru 0392

1:20,000 scale photography

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

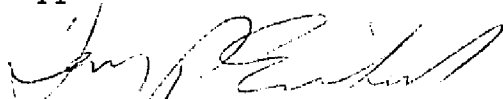
The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:



Donald M. Brant
Cartographer

Approved and forwarded:



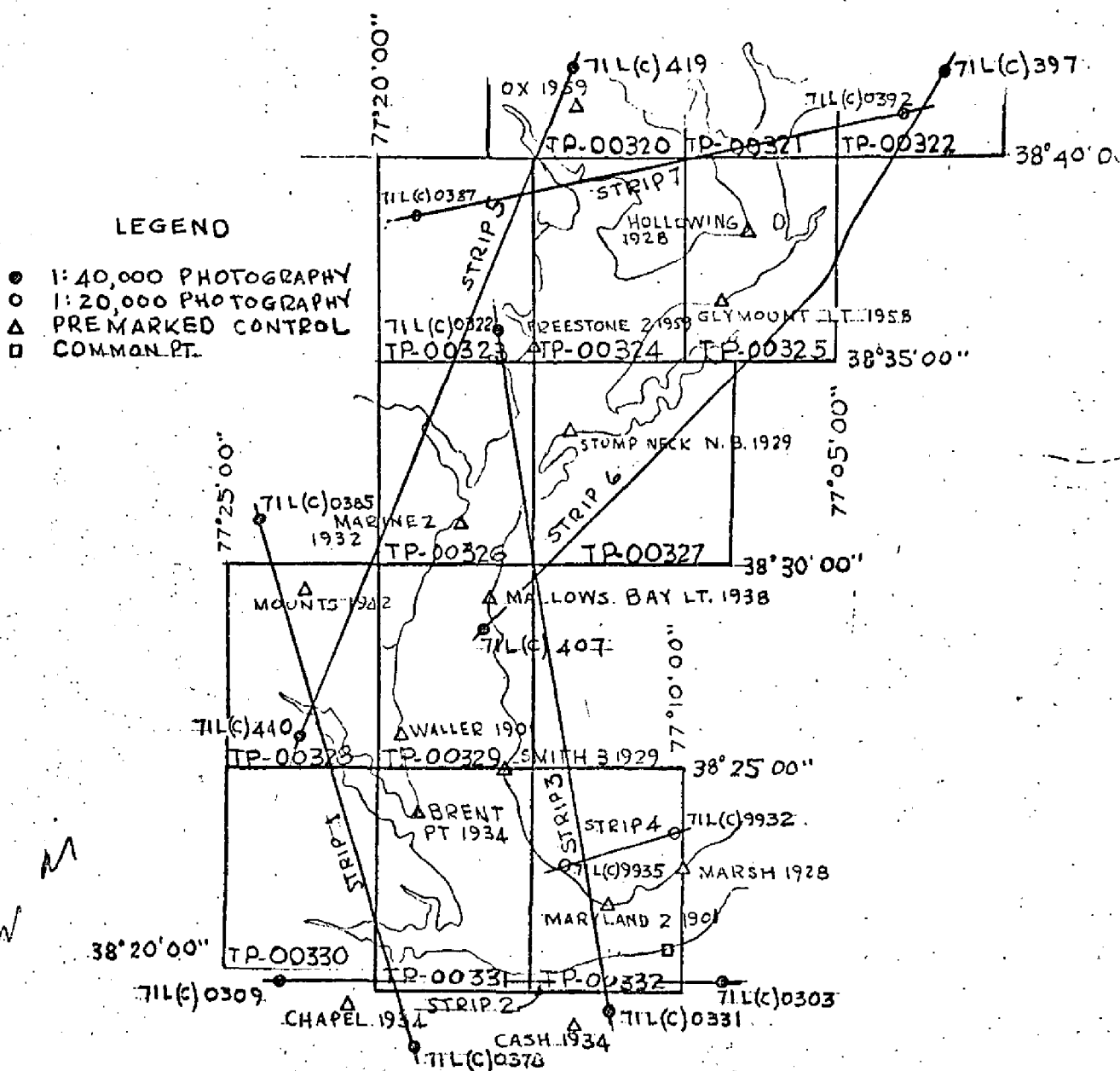
Henry P. Eichert, Chief
Aerotriangulation Section

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING

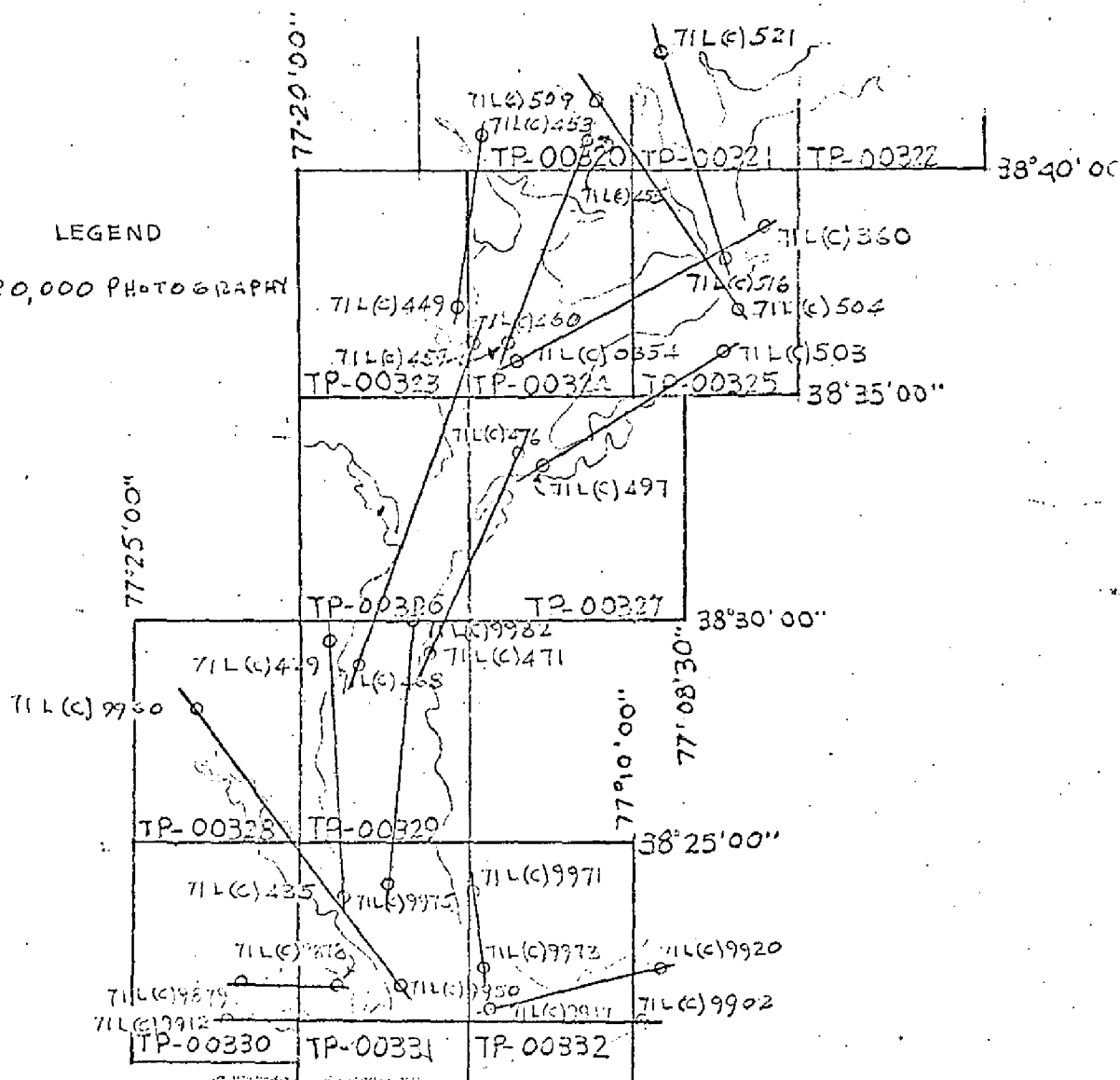
SCALE 1:10,000



JOB PH-7012

UPPER POTOMAC RIVER

LEGEND
0 1:20,000 PHOTOGRAPHY



(11)

Compilation Report
TP-00326

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 shown except for mud flats in the upper portions of Chopawamsic Creek and Quantico Creek.

36. Offshore Details

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

37. Landmarks and Aids

9 Landmarks to be checked

4 Aids to be located.

38. Control for Future Surveys

None

39. Junctions

To the north with TP-00323
To the south with TP-00329
To the East with TP-00327
To the west no contemporary survey

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report

41. thru 45. Inapplicable

46. Comparison with Existing Maps

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

47. Comparison with Nautical Charts

Comparison was made with nauticla 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, Compilation Section

FIELD EDIT REPORT
TP 00326
Potomac River, Md.-Va.
PH 7012

51. METHODS

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 71L426, 427, 441, 463 thru 467, 472, 473, and 474.

Landmark bluffs and buildings to be charted were indexed on the field edit ozalid, if not already compiled. All fixes taken and a list of signals used and their positions are shown on the field edit sheet.

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

52. ADEQUACY OF COMPILATION

The compilation was adequate considering there had been no field inspection.

54. RECOMMENDATIONS

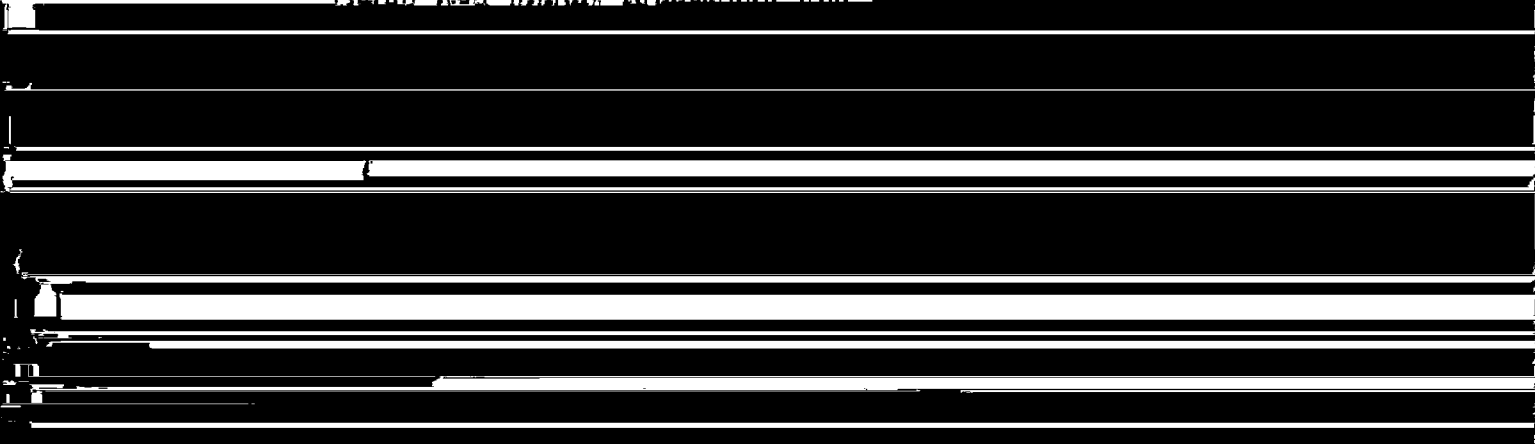
None.

56. GEOGRAPHIC NAMES

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

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are seven landmarks and four nonfloating aids to navigation.



TP-00326

Notes on Application of Field Edit:

The application of field edit for this sheet presented numerous problems, some of which could not be completely resolved. These are outlined below by area.

Quantico Creek:

A new overhead power line was indicated as under construction "parallel to the existing lines," that were originally compiled. Angles for the resection of two structures were provided and fell NW of the existing line as the field notes stated they should. The original compilation located four power poles in Quantico Creek for the power line compiled. The southwestern most pole was used as signal #292 and the power line as compiled was not questioned. One angle from signal 292 was to the "center of a new support structure base." This was useless as no other angles or a distance were supplied. This field cronaflex, however, indicates that signal 292 was the north power line support pole and a new position for the northeastern most compiled pole was given and labeled signal 293. A reason for the discrepancy on "signal 292" could not be resolved. The photo positions for the existing southernmost power line were carefully resected, moved slightly south of the original location, and agree with signal 293.

The new power line was compiled as under construction using the two well located points for positioning.

Shoreline Bordering Quantico:

Numerous rocks and concrete were shown on the field ozalid and photographs as "awash" without reference to time or date. These, of necessity, were shown as foul areas.

A radio tower was located during compilation at 38°30.9' latitude and 77°18.6' longitude. This was used as a hydro signal and the photogrammetric position verified. It was included in the landmarks to be charted with the notation, "lower of two towers." There was no indication of where a higher tower was and none could be seen on the photography near the tower positioned. No explanation was offered by the field for not locating the higher tower.

TP-00326 (Continued)

The "end of a rocky spit" was located approximately 100 ft. south of Chopawamsic Island. There is nothing visible on the photography, thus only the end point could be delineated, from sextant cuts, as a rock covered 1 ft. at MLW. There was no information to determine the size or direction of the rest of the "spit."

TP-00326 is now a Class I manuscript. A cronaflex copy will be forwarded to the Verification Branch in AMC.

Jeter P. Battley, Jr.
Chief, Coastal Mapping Section

Review Report TP-00326
Shoreline Survey
October 1976

61. General Statement

In the vicinity of 38°30'15" latitude and 77°16' longitude the field editor indicated on the discrepancy print a rock and piling. These were shown on the Class I manuscript. There is insufficient information to plot these objects, so they were removed from the manuscript during final review.

62. Comparison with Registered Topographic Surveys

T-5763 1:10,000 1939-1940

This survey is superseded by the new map.

63. Comparison with Maps of Other Agencies

U.S. Geological Survey Quad: Quantico, Va.-Md. 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 sent to the AMC for comparison.

65. Comparison with Nautical Charts

Chart 559 1:40,000 1975

66. Adequacy of Results and Future Surveys

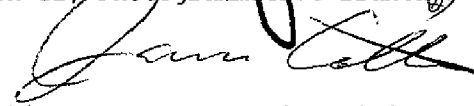
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:


J. B. Phillips

Approved:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

November 5, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00326

Chamberlain Village

Possum Nose

Cherry Hill

Possum Point

Chopawamsic Creek

Potomac River

Chopawamsic Island

Powells Creek

Cockpit Point

Quantico

Goose Bay

Quantico Creek

Maryland

Richmond Fredericksburg & Potomac (RR)

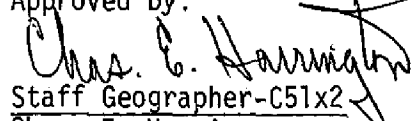
Melrose Gardens

Shipping Point

Moss Point

Virginia

Approved by:


Staff Geographer-C51x2
Chas. E. Harrington

76-40

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

VERSION 109/76

Copy to Charts
9-70-76

LISTING

SVY	TP-00326
JOB	PH-7012
PRJ	834201
DTM	NA 1927

NONFLOATING AIDS FOR CHARTS
TO BE CHARTED

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

PAGE 1 OF 2

ORIGINATING ACTIVITY
COMPILATION

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

DESCRIPTION

CHARTING*	DESCRIPTION
RECORD REASON FOR DELETION	
PUT TRIANGULATION NAMES IN (	
NAME	

POSITION	
LATITUDE	DM
LONGITUDE	DP

CODES*	METHOD AND DATE
C-C *	OF LOCATION
SEQ *	OFFICE * FIELD

METHOD AND DATE OF LOCATION	OFFICE	* FIELD	* CHARTS	* AFFECTED
1. 10/1/50	10/1/50	10/1/50	10/1/50	10/1/50
2. 10/2/50	10/2/50	10/2/50	10/2/50	10/2/50
3. 10/3/50	10/3/50	10/3/50	10/3/50	10/3/50
4. 10/4/50	10/4/50	10/4/50	10/4/50	10/4/50
5. 10/5/50	10/5/50	10/5/50	10/5/50	10/5/50
6. 10/6/50	10/6/50	10/6/50	10/6/50	10/6/50
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49. 11/18/50	11/18/50	11/18/50	11/18/50	11/18/50
50. 11/19/50	11/19/50	11/19/50	11/19/50	11/19/50
51. 11/20/50	11/20/50	11/20/50	11/20/50	11/20/50

BELL * QUANTICO MARINE BARRACKS FOG
* SIGNAL ON S.W. PIER CORNER

38 31 10.54
77 17 10.64

NOT
DGT 7F

P-5
11/5
71LC4

LIGHT * POSSUM POINT LIGHT

38 32 15.24
77 16 38.40

NOT *
DGTZD *

71LC466
P-5
11/5/77
71LC465

LIGHT * COCKPIT POINT BARGE DOCK
A * MOORING LIGHT

38 33 33.83
77 15 17.26

71LC463
P-5
10/5/77
71LC464

LIGHT * COCKPIT POINT BARGE DOCK
D * MOORING LIGHT

38 33 32.25
77 15 18.47

71LC464
P-5
10/5/77
71LC464

18
A

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	R.D. OLSON	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	P.J. DEMPSEY	OFFICE COMPILER
FIELD AND OFFICE	N/A	DIGITIZER
ACTIVITIES	J. TAYLOR	DATA PROCESSOR

18 B

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00326

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.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-675.