

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. F1031 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 44-79
12289 P.A. - BW

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

TP-00323
COMPILATION SOURCES

(2)

1. COMPILATION PHOTOGRAPHY

CAMERA(S) "L" 6" Focal Length	TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY	TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE		
		(C) COLOR	(P) PANCHROMATIC	ZONE Eastern	<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 OPERATIONSI. 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		
RECOVERED BY		
3. VERTICAL CONTROL	ESTABLISHED BY	
PRE-MARKED OR IDENTIFIED BY		
RECOVERED (Triangulation Stations) BY	James W. Davis	8/73
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	
IDENTIFIED BY	James W. Davis	8/73
James W. Davis	8/73	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
<input type="checkbox"/> COMPLETE	BY	
<input type="checkbox"/> SPECIFIC NAMES ONLY		
<input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	James W. Davis
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	8/73

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Classification 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

TP-00323
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILE 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 - _____	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING
SCALE 1:10,000

38°57'00"

38°52'00"

77°10'00"

77°15'30"
77°15'00"

77°20'00"

77°25'00"

TP-00323 TP-00324 TP-00325

38°35'00"

77°05'00"

38°30'00"

77°10'00"

38°25'00"

77°08'30"

TP-00323 TP-00329

Cotton Beach

Thomas Pt.

Marshall Pt.

Marshall

Island

38°55'00"

38°56'30"

5

TP-00333

38°51'30"

TP-00313

38°50'00"

TP-00319

38°45'00"

TP-00322

38°40'00"

TP-00321

38°35'00"

TP-00320

38°30'00"

TP-00325

38°25'00"

TP-00324

38°20'00"

TP-00323

38°15'00"

TP-00322

38°10'00"

TP-00321

38°05'00"

TP-00320

38°00'00"

TP-00319

37°55'00"

TP-00318

37°50'00"

TP-00317

37°45'00"

TP-00316

37°40'00"

TP-00315

37°35'00"

TP-00314

37°30'00"

TP-00313

37°25'00"

TP-00312

37°20'00"

TP-00311

37°15'00"

TP-00310

37°10'00"

TP-00309

37°05'00"

TP-00308

37°00'00"

TP-00307

36°55'00"

TP-00306

36°50'00"

TP-00305

36°45'00"

TP-00304

36°40'00"

TP-00303

36°35'00"

TP-00302

36°30'00"

TP-00301

36°25'00"

TP-00300

36°20'00"

TP-00333

36°15'00"

TP-00332

36°10'00"

TP-00331

36°05'00"

TP-00330

36°00'00"

TP-00329

35°55'00"

TP-00328

35°50'00"

TP-00327

35°45'00"

TP-00326

35°40'00"

TP-00325

35°35'00"

TP-00324

35°30'00"

TP-00323

35°25'00"

TP-00322

35°20'00"

TP-00321

35°15'00"

TP-00320

35°10'00"

TP-00319

35°05'00"

TP-00318

35°00'00"

TP-00317

34°55'00"

TP-00316

34°50'00"

TP-00315

34°45'00"

TP-00314

34°40'00"

TP-00313

34°35'00"

TP-00312

34°30'00"

TP-00311

34°25'00"

TP-00310

34°20'00"

TP-00309

34°15'00"

TP-00308

34°10'00"

TP-00307

34°05'00"

TP-00306

34°00'00"

TP-00305

33°55'00"

TP-00304

33°50'00"

TP-00303

33°45'00"

TP-00302

33°40'00"

TP-00301

33°35'00"

TP-00300

33°30'00"

TP-00333

33°25'00"

TP-00332

33°20'00"

TP-00331

33°15'00"

TP-00330

33°10'00"

TP-00329

33°05'00"

TP-00328

33°00'00"

TP-00327

32°55'00"

TP-00326

32°50'00"

TP-00325

32°45'00"

TP-00324

32°40'00"

TP-00323

32°35'00"

TP-00322

32°30'00"

TP-00321

32°25'00"

TP-00320

32°20'00"

TP-00319

32°15'00"

TP-00318

32°10'00"

TP-00317

32°05'00"

TP-00316

32°00'00"

TP-00315

31°55'00"

TP-00314

31°50'00"

TP-00313

31°45'00"

TP-00312

31°40'00"

TP-00311

31°35'00"

TP-00310

31°30'00"

TP-00309

31°25'00"

TP-00308

31°20'00"

TP-00307

31°15'00"

TP-00306

31°10'00"

TP-00305

31°05'00"

TP-00304

31°00'00"

TP-00303

30°55'00"

TP-00302

30°50'00"

TP-00301

30°45'00"

TP-00300

30°40'00"

TP-00333

30°35'00"

TP-00332

30°30'00"

TP-00331

30°25'00"

TP-00330

30°20'00"

TP-00329

30°15'00"

TP-00328

30°10'00"

TP-00327

30°05'00"

TP-00326

30°00'00"

TP-00325

29°55'00"

TP-00324

29°50'00"

TP-00323

29°45'00"

TP-00322

29°40'00"

TP-00321

29°35'00"

TP-00320

29°30'00"

TP-00319

29°25'00"

TP-00318

29°20'00"

TP-00317

29°15'00"

TP-00316

29°10'00"

TP-00315

29°05'00"

TP-00314

29°00'00"

TP-00313

28°55'00"

TP-00312

28°50'00"

TP-00311

28°45'00"

TP-00310

</div

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

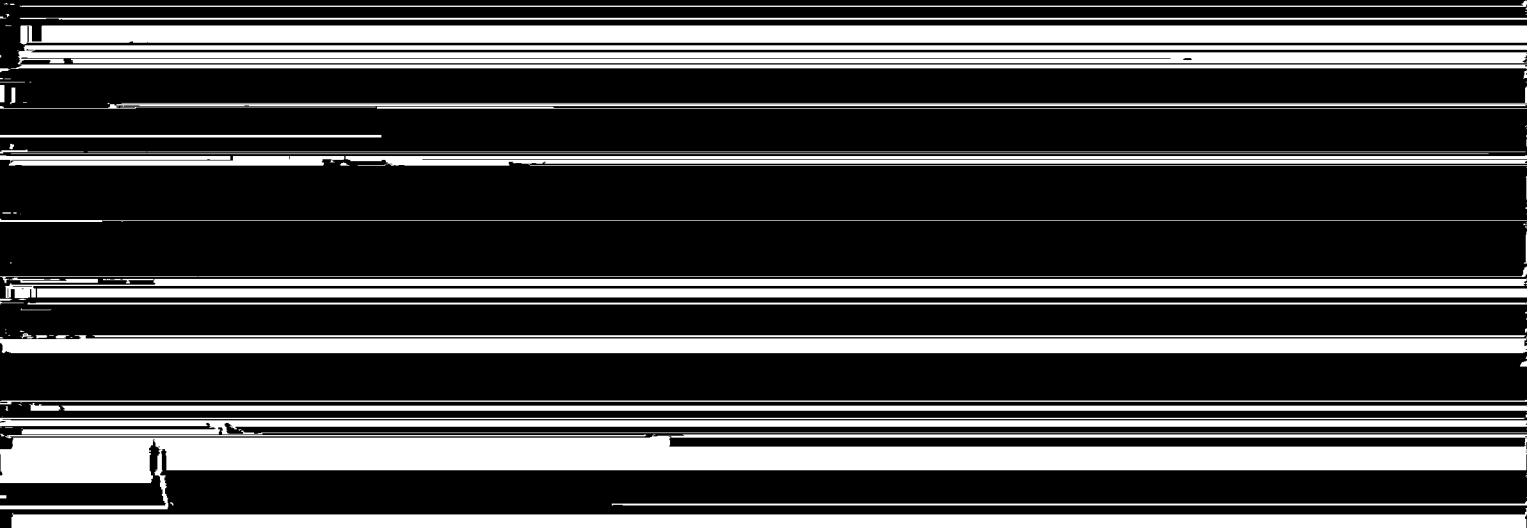
This report covers an area of the Potomac River south from latitude 38 40 00 to Maryland Point (approximate latitude 38 20 00). The job consists of ten (10) 1:10,000 scale sheets (TP-00323 thru TP-00332).

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:



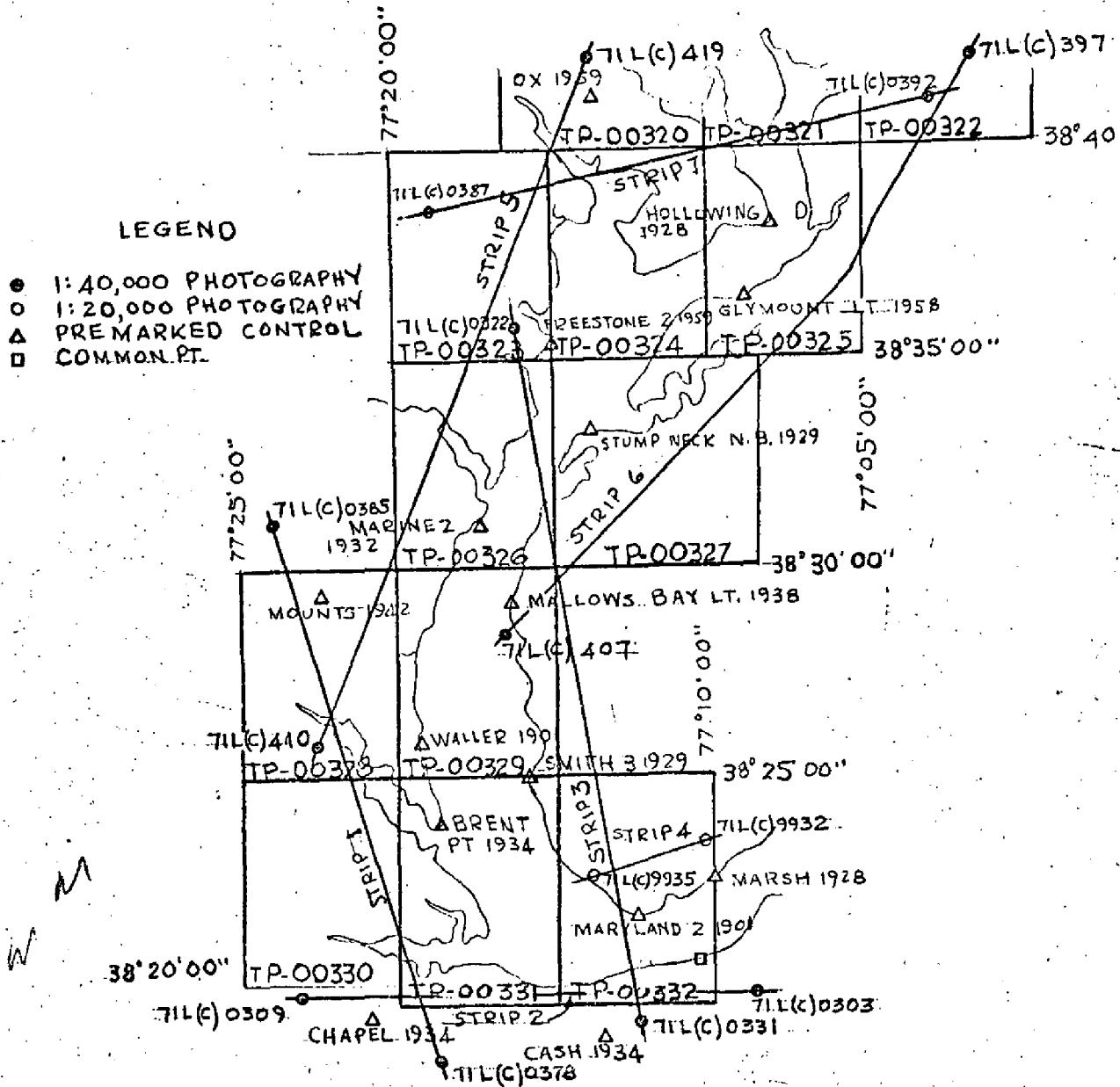
Henry P. Eichert, Chief
Aerotriangulation Section

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING

SCALE 1:10,000

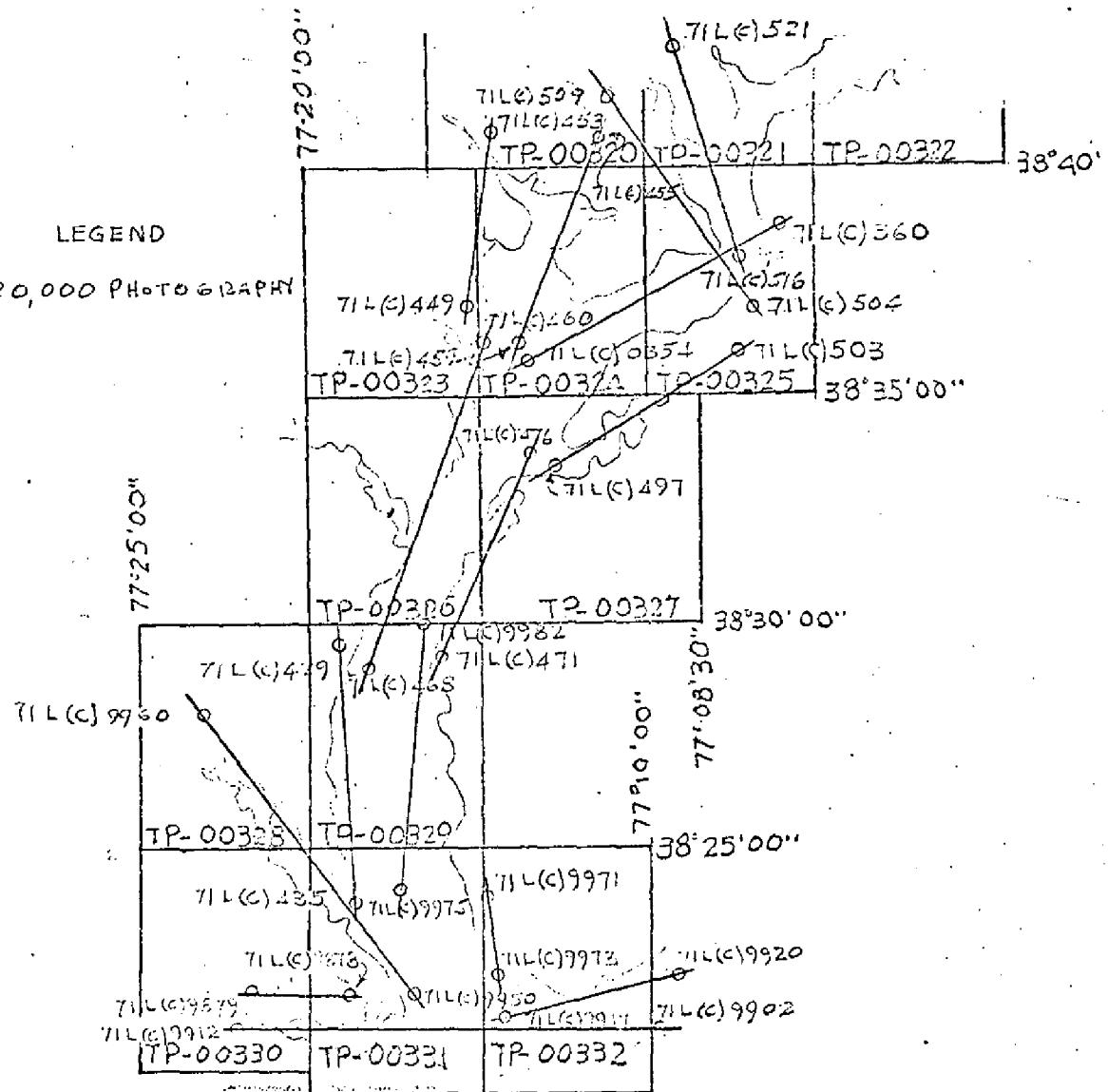


Sketch 2

JOB PH-7012

10

UPPER POTOMAC RIVER



(11)

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

(13)

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 amended, 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

(14)

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

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

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.

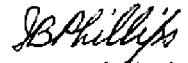
65. Comparison with Nautical Charts

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

Approved:


Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

(15)

November 5, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00323

Farm Creek
Featherstone
Marumsco Acres
Marumsco Creek
Marumsco Woods
Neabsco
Neabsco Creek
Potomac River
Powells Creek
Richmond Fredericksburg and Potomac (RR)
Virginia

Approved by:

Staff Geographer=C51x8
Chas. E. Harrington

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

TP00323

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.