

TP-00332

TP-00332

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-00332

Classification No. FINAL Edition No. ... 1

Field edited map

LOCALITY

State ... Maryland - Virginia

General Locality ... Potomac River

Locality ... Maryland Point

1971 TO 1972

REGISTRY IN ARCHIVES

DATE

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

chts

12285 (101-50) A DK 9/77

12288 (559) A RH 8/78

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY TP-00332

MAP EDITION NO. (1)

MAP CLASS *FINAL*JOB *Field edited* 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 (*compilation*)
(Review of Instructions - Feb. 24, 1972)
(*Field instr.*)

2. FIELD

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

4. GRID(S)

STATE

Maryland

ZONE

STATE

Virginia

ZONE

North

5. SCALE
1:10,000

III. HISTORY OF OFFICE OPERATIONS

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

TP-00332
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 60th & 75th	☒ STANDARD ☒ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71E(C) 303 - 305	11/4/71	11:36	1:40,000	-0.5 below MLW	
71E(C) 328 - 330	11/4/71	12:15	1:40,000	-0.15'	
71L(C) 9902 - 9906	10/12/71	10:10	1:20,000	3.3 above MLW	
71L(C) 9917 - 9920	10/12/71	10:27	1:20,000	.99'	
71L(C) 9971 - 9972	10/12/71	11:20	1:20,000		
71L(C) 9935	10/12/71	10:40	1:20,000		

REMARKS

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

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation from 1:40,000 scale bridging photos 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
No Contem. Survey	No Contem. Survey	No Contem. Survey	TP-00331

REMARKS

HISTORY OF FIELD OPERATIONS TP 00332

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Richard D. Olson	July 1972
2. HORIZONTAL CONTROL	RECOVERED BY Richard D. Olson	June 1972
	ESTABLISHED BY Richard D. Olson	June 1972
	PRE-MARKED OR IDENTIFIED BY N.A.	
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 Richard D. Olson	June 1972
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY Richard D. Olson	June 1972
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.D. Olson and J.W. Davis	June & JULY
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	1972

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

N.A.

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details) 71L9903-9906

71L9918, 9919, 9935, 9976

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

Two pages of Plot Plans for Fiarview Beach Yacht Club Inc.

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

None.

TP-00332
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline & along-shore features, landmarks and aids	Mar. 1972	Class III manuscript	May 1972	
Field edit applied	Aug 1972	Class I manuscript		Aug. 1976 AMC
Additions and some changes to rock data	Sept 1976	Class I manuscript		
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
1		9-20-76	Nonfloating aid to be charted
2		9-20-76	LDMKS to be charted
1		9-20-76	LDMK (shown as landmark building only) to be deleted

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

38°57'00"

WASHINGTON

38°56'30"

5

38°55'00"

38°55'00" TP-00217

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-00332 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 *June & July 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

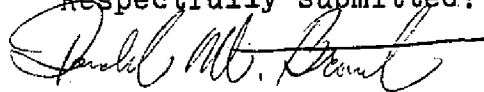
Strip 1	71-L(C)-0378 thru 0385
Strip 2	71-L(C)-0303 thru 0309
Strip 3	71-L(C)-0322 thru 0331
Strip 5	71-L(C)-0410 thru 0419
Strip 6	71-L(C)-0397 thru 0407
Strip 7	71-L(C)-0386 thru 0392

1:20,000 scale photography

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

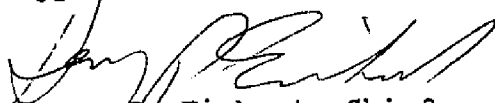
The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:



Donald M. Brant
Cartographer

Approved and forwarded:



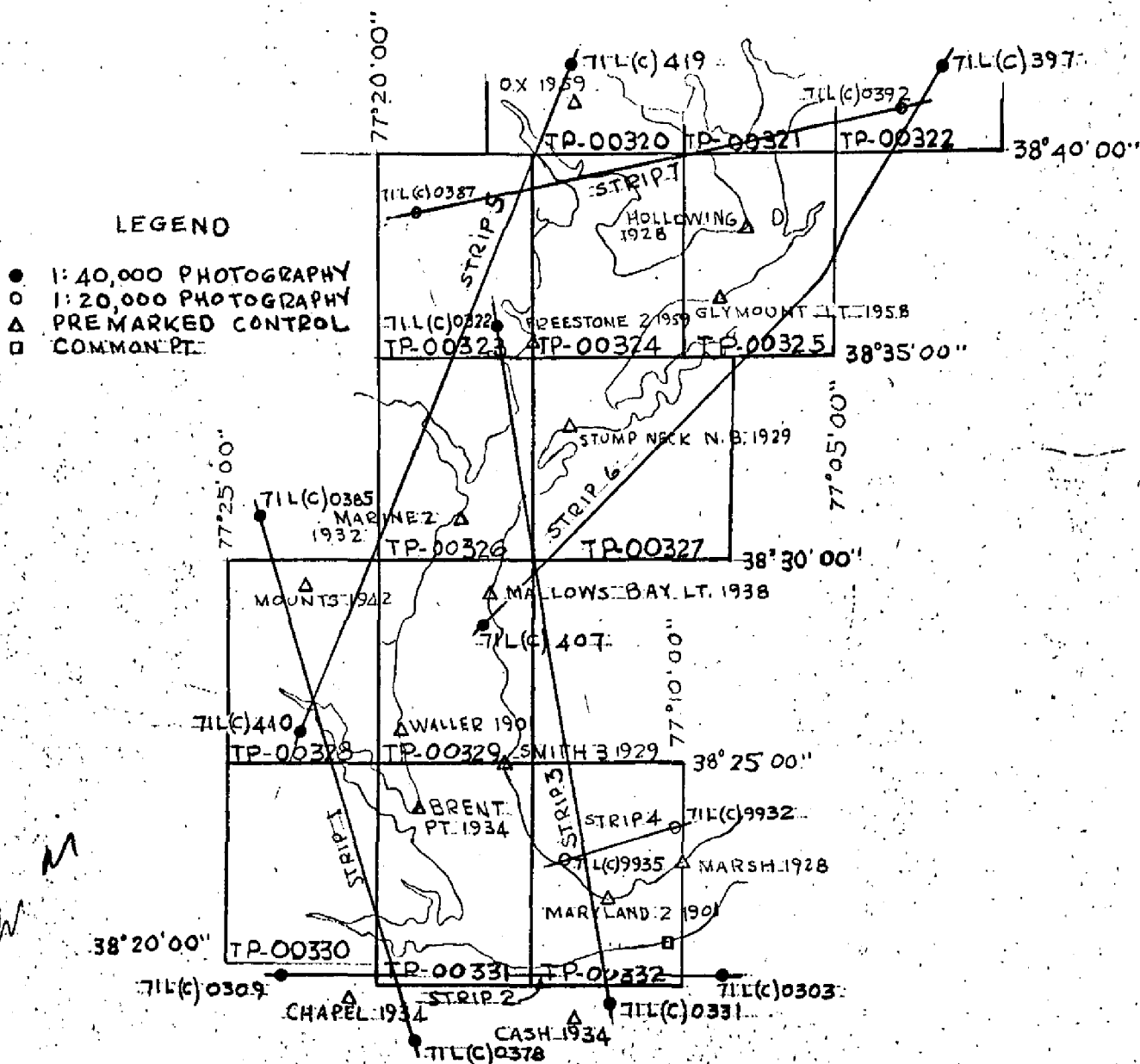
Henry E. Eichert, Chief
Aerotriangulation Section

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

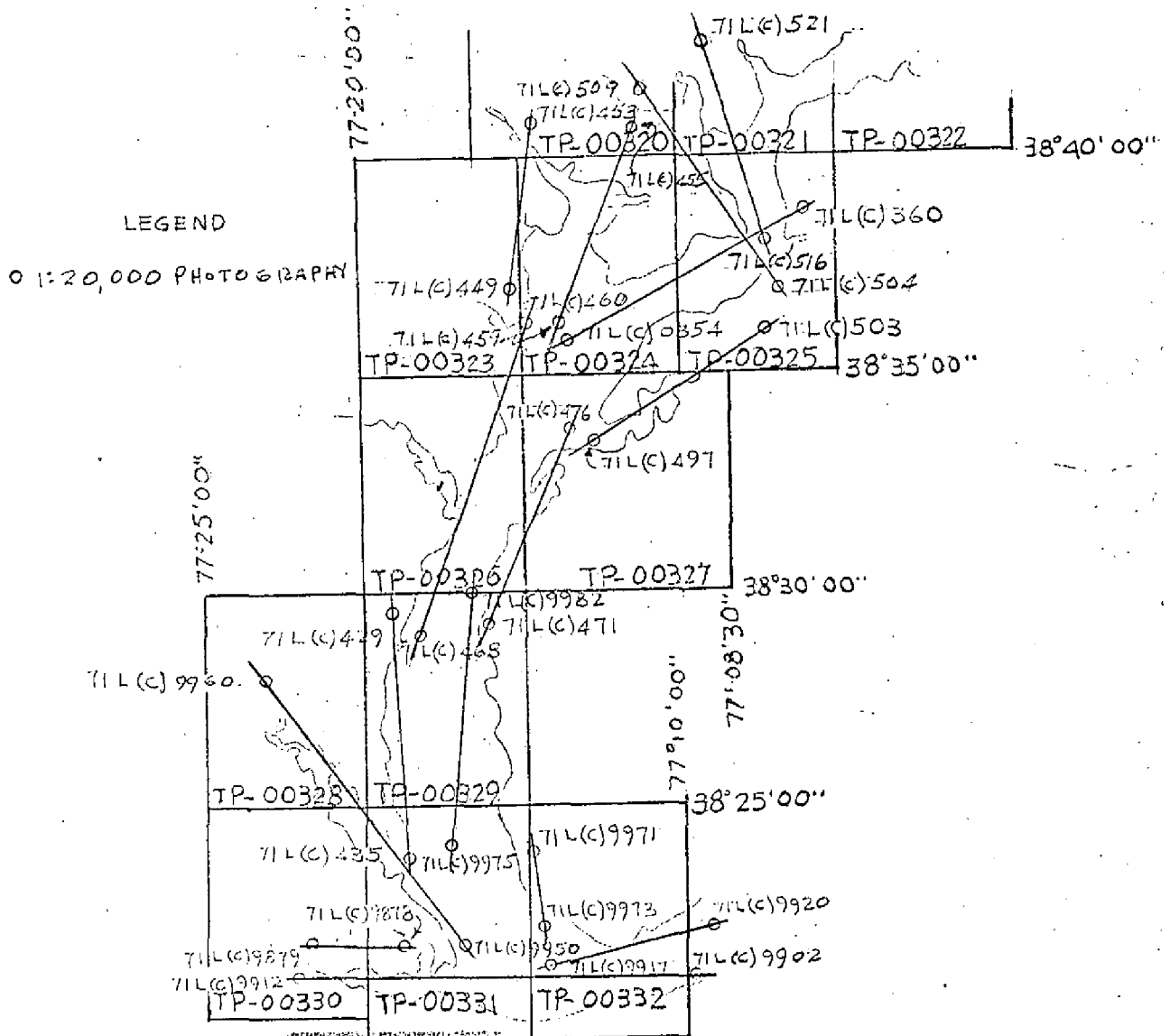
SHORELINE MAPPING

SCALE 1:10,000



JOB PH-7012

UPPER POTOMAC RIVER



Compilation Report
TP-00332

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

37. Landmarks and Aids

2 landmarks to be located by field edit.

1 light which is triangulation

38. Control for Future Surveys

None

39. Junctions

No contemporary survey to the north, south, or east.
TP-00331 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 quadrangles Nanjemoy, Md., Edition of 1954, and King George Va.-Md., Edition of 1955, 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, Compilation Section

FIELD EDIT REPORT
TP 00332
Potomac River
PH 7012

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52. ADEQUACY OF COMPILATION

The compilation was adequate. Distances from identifiable points were taken to the mean high water line for verification of compilation. Several piers and groins missed during compilation were identified on field photographs. All compiled roads were classified and additional roads were classified and noted. 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 ozalid.

54. RECOMMENDATIONS

It is recommended that grid ticks of the Maryland Plane Coordinate System be placed on the map manuscript as has been done on TP 00323 thru TP 00327.

56. GEOGRAPHIC NAMES

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

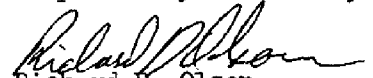
57. LANDMARKS AND AIDS TO NAVIGATION

There are two landmarks recommended for charting and one aid to navigation. One previous landmark is recommended to be deleted as a landmark and just be charted as a landmark building.

58. MISCELLANEOUS

All times noted on the field edit ozalid refer to Greenwich Mean Time. Field edit notes appear on the following color prints: 71L9903 thru 9906, 71L9918, 71L9919, 71L9935, 71L9976. The marina layout and plans for the jetty now under construction are included with the field edit ozalid, located approximately 38° 20' latitude and 77° 14' longitude.

Respectfully Submitted,



Richard D. Olson

LT. N.O.A.A.

Chief, Photo Party 61

Review Report TP-00332
Shoreline Survey
October 1976

61. General Statement

The compilation office determined that some of the information shown on offshore rocks was incorrect or incomplete as shown on the Class I manuscript that had been sent to the AMC. After final review, a copy of each manuscript where changes occurred will be sent to the AMC for comparison.

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. Only one manuscript, T-12121 at 1:10,000 scale compiled in 1962, is to be registered. TP-00332 covers the same area as T-12121 and ~~supersedes the earlier compilation~~

U.S. Geological Survey Quads: Nanjemoy, Md. 1:24,000 1954
King George, Va.-Md. 1:24,000 1955

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. Refer to item 61 of this report.

65. Comparison with Nautical Charts

12288 1:40,000 1975

Landmark N. Upper Gab (spelled incorrectly on Chart as CAB) at 38°19'54" latitude and 77°14'54" longitude should be shown as landmark building only. Field editor states that the gable is no more prominent than the building itself. See 76-40 form, "Landmarks for Charts to be Deleted" with this report.

66. Adequacy of Results and Future Surveys

November 8, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00332

Fairview Beach

Maryland

Maryland Point

Merrick Boys Camp

Mudds Marsh

Potomac River

Somerset Beach

Thorne Gut Marsh

Virginia

Approved by:

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

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY
DEPARTMENT OF COMMERCE USA

TERMINAL
VERSION
1/09/76

Copy to CHARTS
9-20-76

SVY TP-00332 * 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 *
 RECORD REASON FOR DELETION * LATITUDE DM C-C * OF LOCATION *
 NAME * PUT TRIANGULATION NAMES IN () * LONGITUDE DP SEQ * OFFICE * FIELD * AFFECTED *

UPPER POTOMAC RIVER

LIGHT * MARYLAND POINT LIGHT

17A *

38 20 58.38 1800.1 NOT * 71LC9904 * VERIFIED * 559
 77 11 52.42 1272.9 DGTZD * *Det. 12, 1971* * 05/05/72 * 101SC

16

PERSONNEL

ORIGINATOR

SON
PSEY
LOR

FIELD REPRESENTATIVE
OFFICE COMPILER
DIGITIZER
DATA PROCESSER

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

TERMINAL
VERSION
/09/76

* SVY	TP-00332	*
* 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 13 *
		* ORIGINATING ACTIVITY*
		* COMPILATION *

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

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A vertical dashed line runs down the page. At the top, there are two asterisks. Along the line, there are several small asterisks. At the bottom, there are two asterisks.

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17

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

TP-00332

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]