

TP-00329

TP-00329

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-00329*.....
Classification No. *FINAL*..... Edition No. *1*.....
Field edited map

LOCALITY

State *Maryland - Virginia*.....
General Locality ... *Potomac River*.....
Locality *Tidewater*.....

19 71 TO 1972

REGISTRY IN ARCHIVES

DATE

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

Sho
122 85 (101-50)
122 88 (559)
122 89 (560)

TYPE OF SURVEY

SURVEY TP. 00329

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. (1)

☐ RESURVEYMAP CLASS *FINAL*☐ REVISED*Field edited*
JOB PH. 7012 *Part I*

PHOTOGRAMMETRIC OFFICE

Rockville, Maryland

OFFICER-IN-CHARGE

James Collins, Commander

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH. _____

☐ ORIGINAL

MAP CLASS _____

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation - Dec. 6, 1971
Photogrammetric - Feb. 29, 1972
(Review of Instructions - Feb. 24, 1972)
(Field)

2. FIELD

Edit: March 1, 1972
(instruction 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

ZONE

Maryland

STATE

ZONE

Virginia

North

5. SCALE
1:10,000

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	D. Brant	2/72
METHOD:	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	J. C. Richter	3/72
COMPILATION	CHECKED BY	J. Battley, Jr.	3/72
INSTRUMENT: B-8	CONTOURS BY		
SCALE: 1:10,000	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	M. Webber - J.C. Richter	3/72
	CHECKED BY	J. Battley, Jr.	3-72
METHOD: <i>Graphic</i>	CONTOURS BY	Inapplicable	
	CHECKED BY	Inapplicable	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	M. Webber	3/72
	CHECKED BY	J. Richter	3/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Battley, Jr.	3/72
6. APPLICATION OF FIELD EDIT DATA	BY	J. Taylor	11/74
	CHECKED BY	P. Dempsey	7/76
7. COMPILATION SECTION REVIEW	BY	J. Battley	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. GATOR	3/77

TP-00329
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) "L" 6" Focal Length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 60 & 75th	<input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71L(C) 325 - 328	11/14/71	12:15	1:40,000	0.8' above MLW	
71L(C) 410 - 412	11/5/71	10:27	1:40,000	0.4' " "	
71L(C) 429 - 433	11/5/71	11:06	1:20,000	0.3' " "	
71L(C) 439 - 441	11/5/71	11:15	1:20,000	0.2' " "	
71L(C) 9977 - 9982	10/12/71	12:31	1:20,000	1.2' above MLW	

REMARKS

1:20,000 scale ratioed 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-00326	No contemp. survey	TP-00331	TP-00328

REMARKS

HISTORY OF FIELD OPERATIONS

TP00329

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

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

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

N/A

2. VERTICAL CONTROL IDENTIFIED

N/A

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

71L 429-433 71L 9977-9981, 71L 468

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Aero Beacon

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
71L429	Beacon		

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

7. SUPPLEMENTAL MAPS AND PLANS

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

TP-00329
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and alongshore features aids to navigation and landmarks	3/72	Class III Manuscript		
Field edit applied	11/74	Class I Manuscript		Aug. 1976 AMC
Additions & some changes to offshore rock data	9/76	Class I Manuscript		
Final review prior to registration	10/76			

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.
1		9/20/76	Ldmk. 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 <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"

EXAR DICA

TP-00319

38°45'00"

77°16'30"

77°15'00"

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"

38°20'00"

TP-00328

TP-00329

TP-00330

TP-00331

TP-00332

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
Total 145	

Fredericksburg

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-00329 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-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

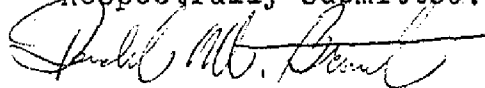
Strip 1	71-L(C)-0378 thru 0385
Strip 2	71-L(C)-0303 thru 0309
Strip 3	71-L(C)-0322 thru 0331
Strip 5	71-L(C)-0410 thru 0419
Strip 6	71-L(C)-0397 thru 0407
Strip 7	71-L(C)-0386 thru 0392

1:20,000 scale photography

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

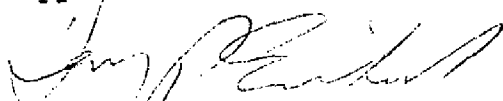
The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:



Donald M. Brant
Cartographer

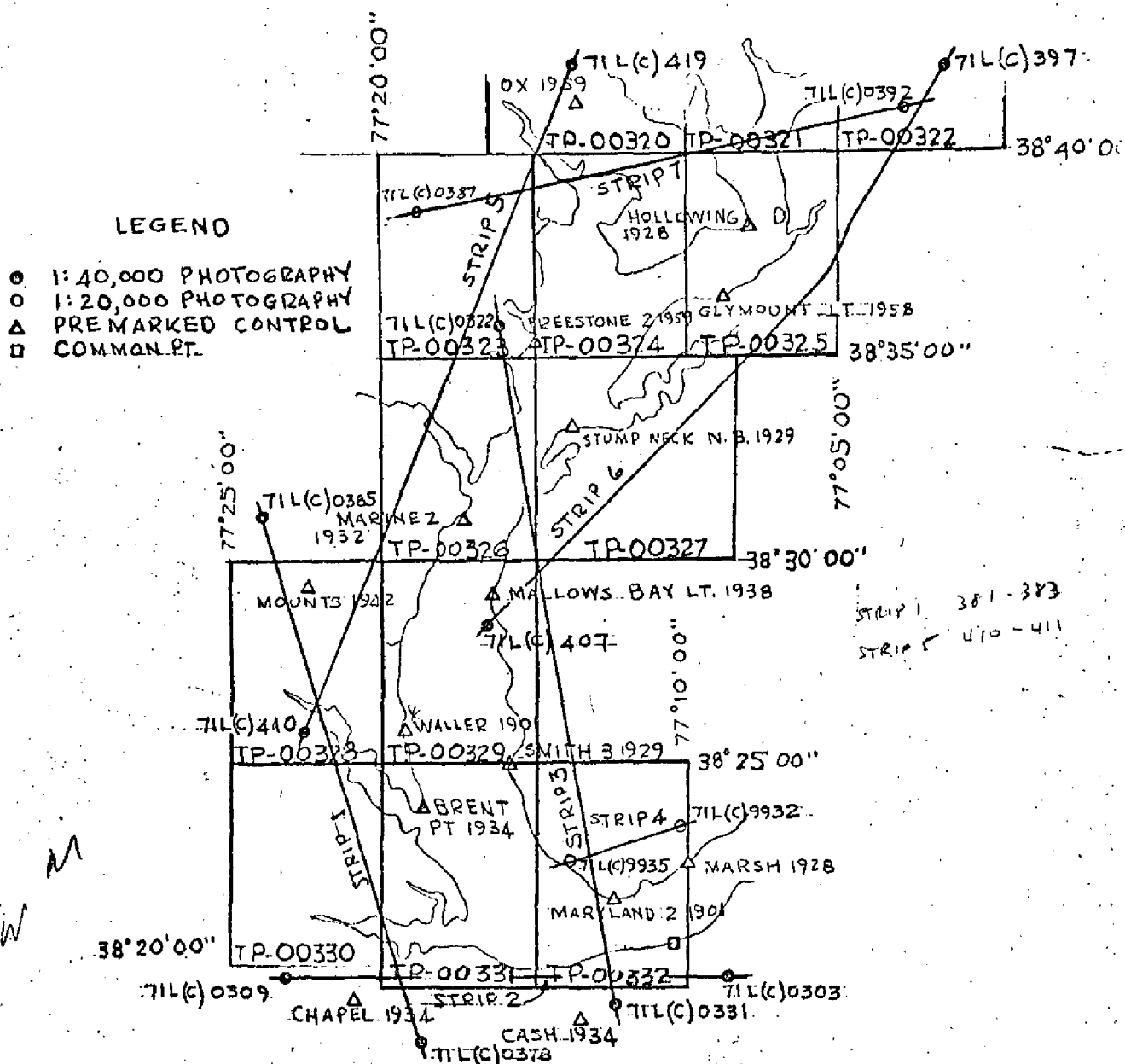
Approved and forwarded:



Henry P. Eichert, Chief
Aerotriangulation Section

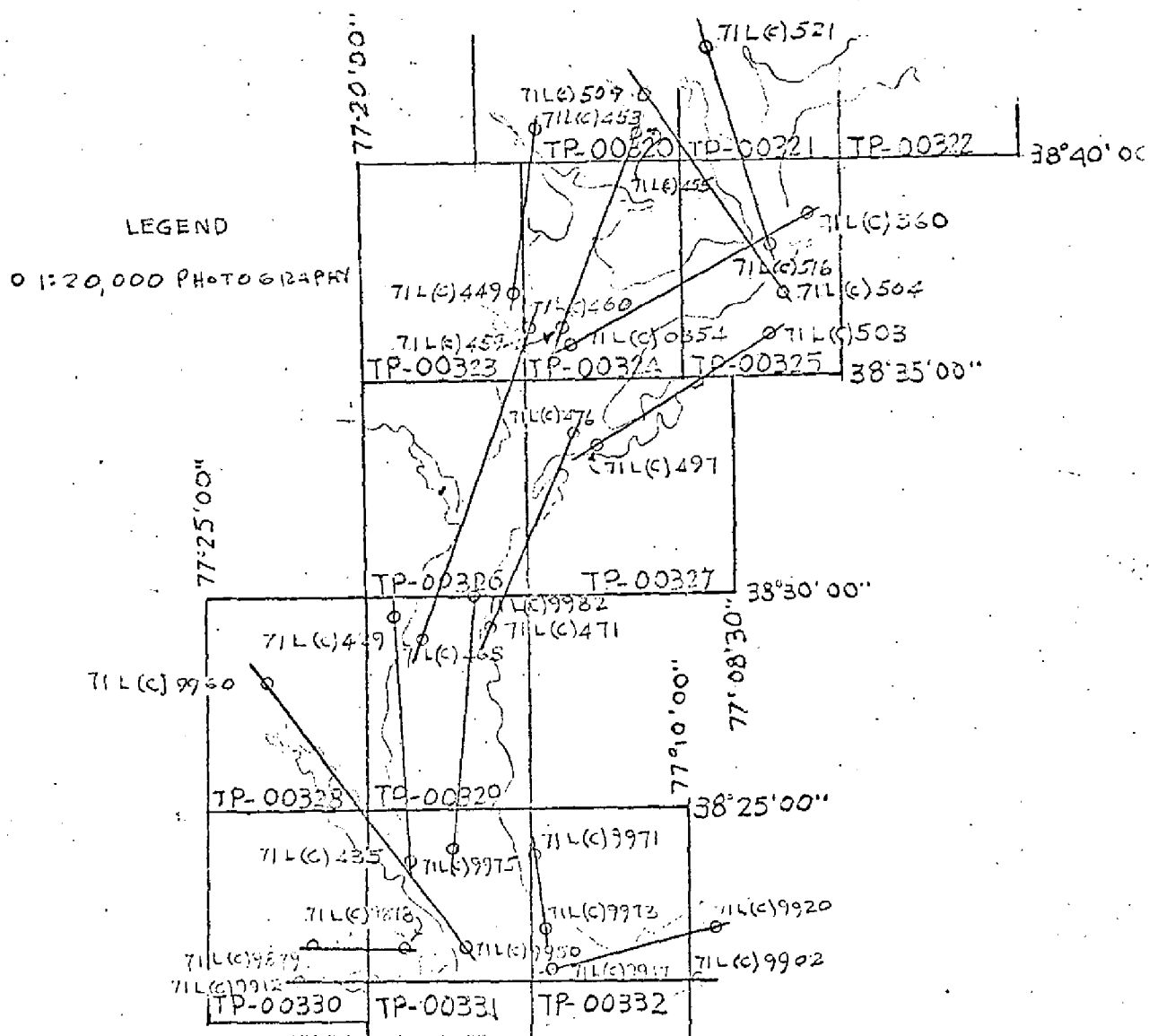
UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SCALE 1:10,000



JOB PH-7012

UPPER POTOMAC RIVER



Compilation Report
TP-00329

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 quad 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

Many 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

One light was located and one Aero Beacon could not be identified.

38. Control for Future Surveys

None

39. Junctions

To the north with TP-00326
To the south with TP-00331
To the west with TP-00328
No contemporary survey to the east.

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle Widewater, 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:

John C. Richter

Approved and Forwarded

K. N. Maki
Chief, Coastal Mapping Section

FIELD EDIT REPORT
TP 00329
Potomac River
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. All additions, deletions, and corrections are shown on the field edit ozalid and photos 71L9977-9981 and 71-L429-433. This ozalid is a complete index of all notes pertaining to this sheet. The positions of all signals used in sextant fixes are listed on the field edit ozalid with the exception of a few signals where the objects are identified on the field photographs and indexed in the signal list with reference letters A through E.

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

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 not been any field inspection.

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

There is one landmark and one aid to navigation recommended for charting on this sheet.

Respectfully submitted,



Richard D. Olson
LT NOAA
Chief, Photo Party 61

PH-7012
TP-00329

Notes on Application of Field Edit:

A thorough field edit was made on this manuscript. Numerous points were pricked on the ratio color prints, provided by compilation, and measurements were taken to the MHWL. These points verified the compiled MHWL but the field editor made no note of this. All the signal fixes were to either numbered or lettered signal points. The lettered points were located on field photographs. Some of the numbered signals were existing control. The rest were neither photoidentified or described. The position of these signal points were listed on the field edit ozalid and could not be verified. Their method of location is not known, as no field records were available, and their accuracy can only be assumed.

The small craft facilities indicated on the ozalid had been applied by nautical charts prior to the application of field edit and was not duplicated.

At approximately latitude 38°28'02", longitude 77°15'59" the field edit ozalid indicates a sunken wreck located on boat sheet HFP-742-10-4-72 fix #3099. This boat sheet was not available during field edit application. When copy is sent to Atlantic Marine Center this wreck should be applied.

At approximate latitude 38°29'30", longitude 77°16'07" the field edit indicated a pier should be compiled. Sextant cuts were taken from the end of the pier to establish its position. The angles as given by the field edit will not fit and, therefore, the pier has not been compiled.

The field edit indicated numerous bluff areas on the field photographs, but with a stereoscopic examination of the photographs it was determined that these areas are not of real landmark value.

The manuscript is now a Class I subject to final review.

Review Report TP-00329
Shoreline Survey
October 1976

61. General Statement

The compilation office determined that some of the information shown on offshore rocks, piles, etc. 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.

Form 76-40 reported to charts September 20, 1976, listed two nonfloating aids to be charted. Form submitted should indicate one aid and one landmark.

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 Quad: Widewater, Va.-Md., 1:24,000 1966

64. Comparison with Contemporary Hydrographic Survey

The hydrographic survey boat sheets are in the AMC. Class I manuscript copies were forwarded for use in smooth sheet processing. Refer to item 61 of this report.

65. Comparison with Nautical Charts

12288 (559) 1:40,000 1975

A Ldmk is shown at approx. 38°26'25" latitude and 77°15'30" longitude on the chart. The field editor recommended that it should not be charted since it was scheduled to be removed in one or two years.

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:

D.A. Rydoo
Chief, Photogrammetric Branch

James C. Allen
Chief, Coastal Mapping Division

November 8, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00329

Blue Banks

Brent Marsh

Clifton Point

Douglas Point

Liverpool Point

Mallows Bay

Maryland

Potomac River

RF&P (RR)

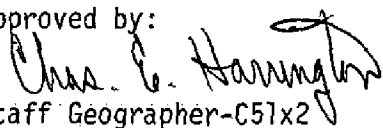
Sandy Point

Virginia

Wades Bay

Widewater

Approved by:


Staff Geographer-C51x2
Chas. E. Harrington

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY
DEPARTMENT OF COMMERCE USA

Copy to Charts
9-20-76

TERMINAL
VERSION
/09/76

* SVY TP-00329 * RPT UNIT CMD ROCKVILLE, MD. * PAGE 1 OF 1 *
 * JOB PH-7012 * STATE VA. AND MARYLAND *
 * PRJ 834201 * LOCALITY POTOMAC ROVER * ORIGINATING ACTIVITY *
 * DTM NA 1927 * DATE 03/01/72 * COMPILATION *

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

* CHARTING * * NAME *	* DESCRIPTION *	* POSITION *		* CODES * C-C * SEQ *		* METHOD AND DATE * OF LOCATION * OFFICE * FIELD *		* CHARTS * * AFFECTED *
		* LATITUDE *	* LONGITUDE *	* DM *	* DP *	* TRIANG REC *	* 559 *	

* * *	* UPPER POTOMAC RIVER *	* * *	* * *	* * *	* * *	* * *	* * *	* * *
* LIGHT *	* (MALLOWS BAY LIGHT, 1959) *	* 38 29 56.30 *	* 77 16 27.20 *	* 1736.0 *	* 659.1 *	* NOT DGTZD *	* 71LC325 *	* TRIANG REC * 559 *
* BEACON *	* AERO BEACON *	* 38 29 51.70 *	* 77 18 34.93 *	* 1594.1 *	* 846.4 *	* NOT DGTZD *	* 71LC429 *	* DITTO *

* This is a Landmark

(18)
A

ORIGINATOR

POSITIONS DETERMINED
AND/OR VERIFIED BY
FIELD AND OFFICE
ACTIVITIES

RICHARD D. OLSON
PATRICK J. DEMPSEY
N/A
JAMES H. TAYLOR

FIELD REPRESENTATIVE
OFFICE COMPILER
DIGITIZER
DATA PROCESSOR

118

B

