

T P-00963

T P- 00963

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

This map edition will not be field edited

Type of Survey .. SHORELINE ..
Job No. .. CM-7601 .. Map No. TP-00963 ..
Classification No. .. Edition No. .. 1 ..
Class III

LOCALITY

State .. Maryland ..
General Locality .. Northern Chesapeake Bay ..
Locality .. Worton Point ..

1976 TO 19

REGISTRY IN ARCHIVES

DATE ..

MAP NOT INSPECTED BY
QUALITY CONTROL OF PHOTOGRAMMETRY BRANCH
PRIOR TO REGISTRATION

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP-00963	
DESCRIPTIVE REPORT - DATA RECORD				☒ ORIGINAL		MAP EDITION NO. 1	
				☐ RESURVEY		MAP CLASS 111	
PHOTOGRAMMETRIC OFFICE Rockville, Md.				☐ REVISED		JOB CM PH 7601	
				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE W Simmons				TYPE OF SURVEY		JOB PH-	
				☐ ORIGINAL		MAP CLASS	
I. INSTRUCTIONS DATED				☐ RESURVEY		SURVEY DATES:	
				☐ REVISED		19__ TO 19__	
1. OFFICE				2. FIELD			
Aerotriangulation 21 Oct 1976				Control Premarking 2 Mar 1976			
Compilation 12 Dec 1976				Supplement #1 28 May 1976			

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES

TP-00963

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 10"C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	☒ STANDARD
☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☒ TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
76CC-3821-24	Mar 23 76	14:14	1:60,000	N/A	
76CI-3423-27	Mar 20 76	10:45	1:40,000	-0.13 MHW	
76CI-3431-33	Mar 20 76	11:07	1:40,000	-0.19 MHW	
76CI-3970-75	Mar 26 76	09:50	1:40,000	-0.16 MLLW	
76CI-3981-83	Mar 26 76	10:09	1:40,000	-0.16 MLLW	

REMARKS

Stage of tide based on Baltimore tide guage.

2. SOURCE OF MEAN HIGH-WATER LINE:

The infrared photographs listed in item 1 with the exception of Shipyard and West Fork Creeks which were delineated by office interpretation of the color photographs listed in item 1.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The MLLW infrared photographs listed in item 1.

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-00958, TP-00959	None	None	TP-00962, TP-00965

REMARKS

TP-00963

HISTORY OF FIELD OPERATIONS.

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R Tibbetts	Feb 76
2. HORIZONTAL CONTROL	RECOVERED BY R Tibbetts	Feb 76
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY L Davis	Feb 76
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R Tibbetts	Feb 76
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	☐ COMPLETE	
	☐ SPECIFIC NAMES ONLY	
	☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premark

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
76CC 3823	Stoops Point Tower No. 9,1918 Sub Pt A		

3. PHOTO NUMBERS (Clarification of details)

None

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)

1-form 76-53

1-Form 76-67

NOAA FORM 76-36D
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-00963
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and alongshore detail	Oct 81	Class III		
Final Reviewed Map	Oct. 84	Class III manuscript		

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: _____

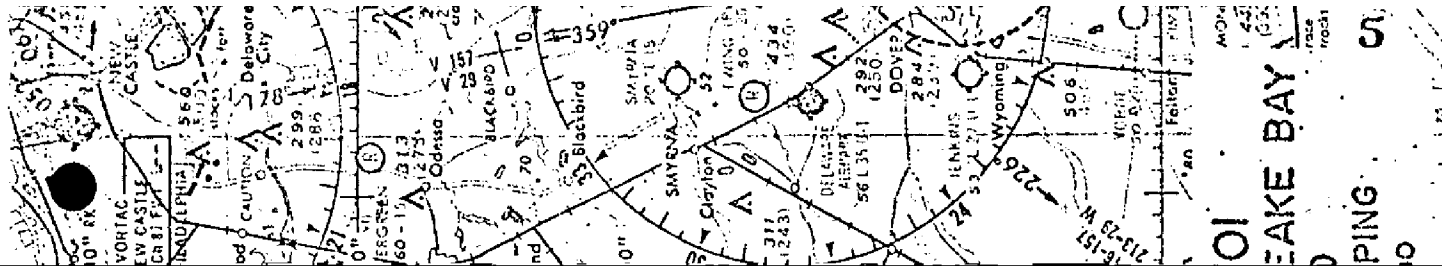
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

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



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-009 63

This 1:20,000-scale shoreline map is one of 10 maps in project CM-7601. The area covered is located in Northern Chesapeake Bay, Maryland.

Field operations consisted of aerial photography and the recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. There was no field inspection performed.

Photographs were taken in March 1976 with the Wild RC-10(C) camera. These photographs were the natural color at 1:60,000 scale and supplemental infrared at 1:40,000 scale.

Seven strips of 1:60,000-scale color photographs were bridged by analytic aerotriangulation methods. The seven strips were controlled by field identified control with some additional office identified control used as checks. The aerotriangulation control proved adequate and met the National Standards of Map Accuracy.

Tide-coordinated infrared photographs were flown to be used to establish the high and low water lines.

Compilation was performed by Coastal Mapping Unit, Rockville, MD. The map planimetry was compiled using office interpretation of 1:60,000-scale color photographs on the stereoplotter. The MHW and the MLLW lines were graphically compiled from office interpretation using the infrared, ratio, tide controlled photographs. The planimetry was used as control in the compilation of the shoreline.

Final review was performed by the Coastal Mapping Unit (Rockville, MD). This map was found to be satisfactory and meets National Standards of Map Accuracy.

FIELD INSPECTION

TP-00963

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

8
8a

Photogrammetric Plot Report
Northern Chesapeake Bay
CM-7601
November 16, 1977

Area Covered

The area covered by this report is the northern part of the Chesapeake Bay from approximately the Bay Bridge north to Harve de Grace. This area is covered by ten 1:20,000 scale sheets, TP-00956 thru TP-00965.

Method

Seven strips of 1:60,000 scale color photography were bridged by analytic aerotriangulation methods. The seven strips were controlled by field-identified control with some additional office-identified control used as checks. The points read on the bridging strips are more than adequate for compilation purposes. Tie points were used in all seven strips to insure an adequate junction of all strips during the strip adjustments.

Adequacy of Control

This job was flown with the RC-10 "C" camera during the time when it was malfunctioning due to vacuum problems. Thus, an optional method of preparing the individual strips for adjustment was used. By the use of this "optional method" control checked within map accuracy standards and is sufficient for its intended use. See attached sheet for accuracy of control in strip adjustments.

One station proved to be incorrect as to its position. Station 854101 was greatly exceeding our tolerance standards, so to isolate the problem an overlapping strip with this same point was read, showing the same error as before. As a result, this point was omitted from the strips involved.

Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

Photography

The coverage and overlap of the photography was adequate for the job. The quality of the photography was marginal due to the intermittent vacuum failure.

Submitted, by

Brian F. Thornton

Brian F. Thornton

Approved and forwarded:

John D. Perrow Jr.

John D. Perrow, Jr.

Chief, Aerotriangulation Section

Accuracy of Control

	<u>POINT</u>	<u>X-ERROR</u>	<u>Y-ERROR</u>
Strip #1	805100	0.162	0.205
	808101	-0.359	-1.476
	809101	0.268	1.489
	796101	-0.071	-0.217
Strip #2	796101	0.907	0.486
	809101	0.939	2.841
	810101	-1.488	-2.526
	801100	0.247	-1.490
	802101	-0.606	-0.688
Strip #3	801101	-1.478	0.239
	802101	0.284	-1.277
	823101	-0.828	2.272
	826101	0.599	-0.453
Strip #4	829100	-0.378	-0.361
	831101	1.429	1.679
	832101	-1.153	-1.979
	833101	0.101	0.659
Strip #5	832101	0.389	-2.659
	831101	-1.809	4.281
	836101	0.974	-1.485
	838101	1.288	-1.988
	839101	0.651	2.432
	847801	-0.595	-0.580

	<u>POINT</u>	<u>X-ERROR</u>	<u>Y-ERROR</u>
Strip #6	847100	0.200	-0.384
	850101	-0.354	0.606
	856101	0.271	-0.352
	796101	-0.117	0.130
Strip #8	856101	-0.495	0.342
	853801	0.863	0.193
	851801	1.196	-1.757
	850101	-2.310	2.048
	847100	0.742	-0.832

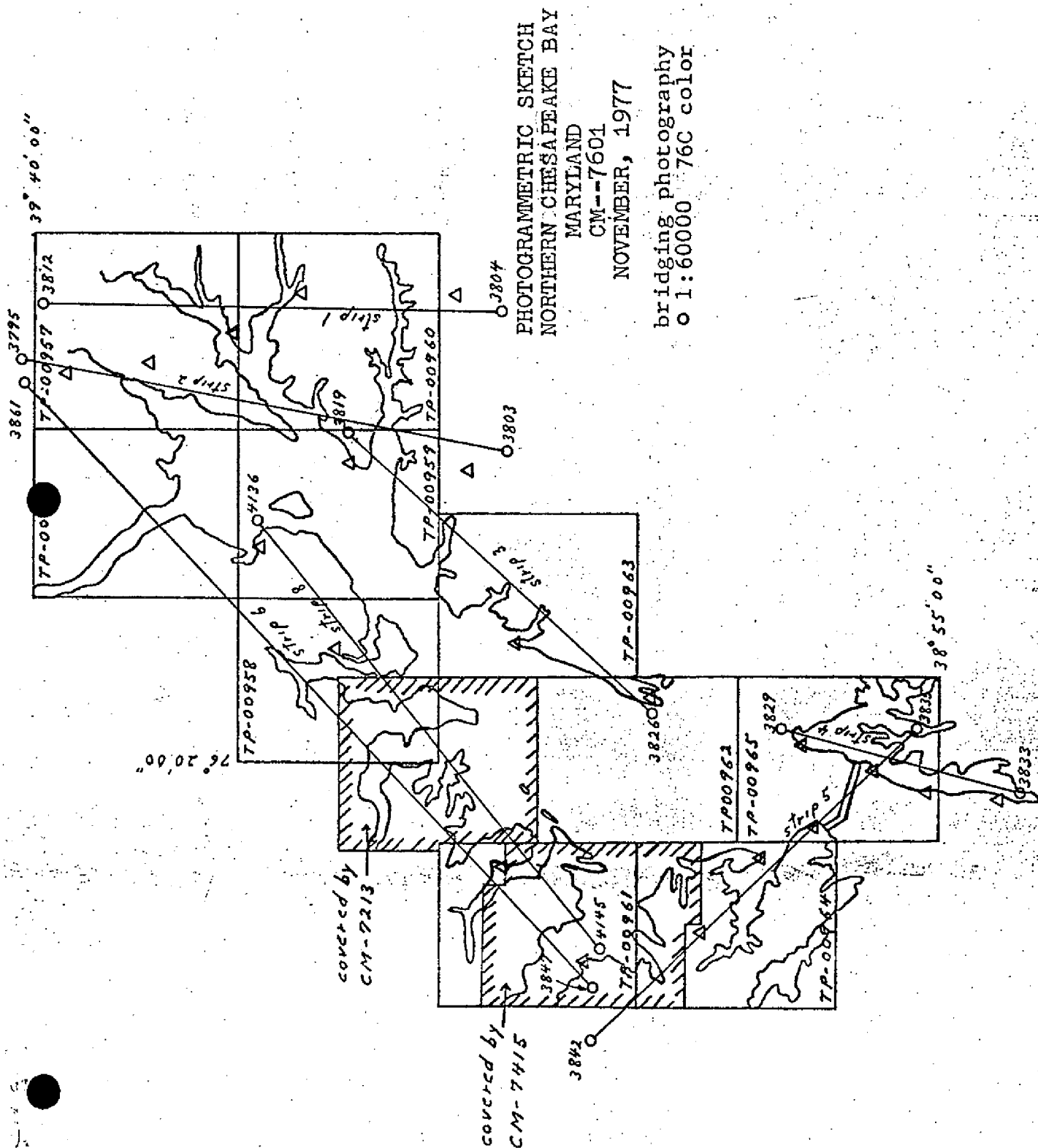
Notes to the Compiler

In the Descriptive Report Control Record, point 000001, Howell Point Tower #5,1918 has been deleted. This station was destroyed and a new tower was constructed approximately 60 ft. away. The new tower designated 820111 is a new position for the tower which was determined by aerotriangulation methods. The values for this position are in the remark column of the same Descriptive Report.

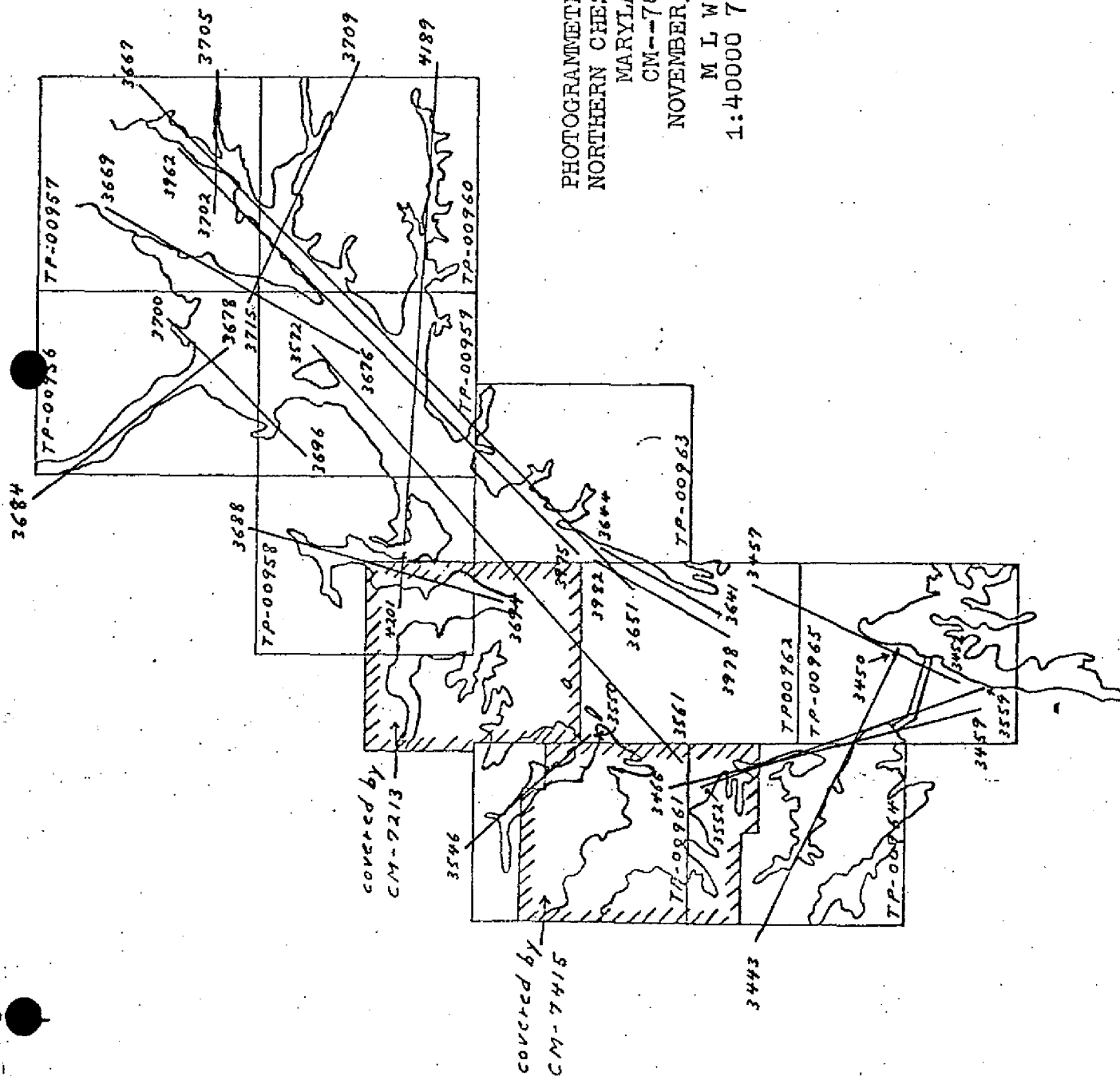
Parts of T-sheets T-00964, T-00961 have been covered by earlier projects, CM-7415 and CM-7213, respectively.

As mentioned in the aerotriangulation report, this camera was experiencing a vacuum malfunction problem during the filming of this project. As a result, during the course of your B-8 work, you may experience local parallax problems.

Strip #7 was omitted from the job because it was a duplicate flight line of strip #8.



PHOTOGRAMMETRIC SKETCH
NORTHERN CHESAPEAKE BAY
MARYLAND
CM--7601
NOVEMBER, 1977
M L W
1:40000 760 (R)



DESCRIPTIVE REPORT CONTROL RECORD

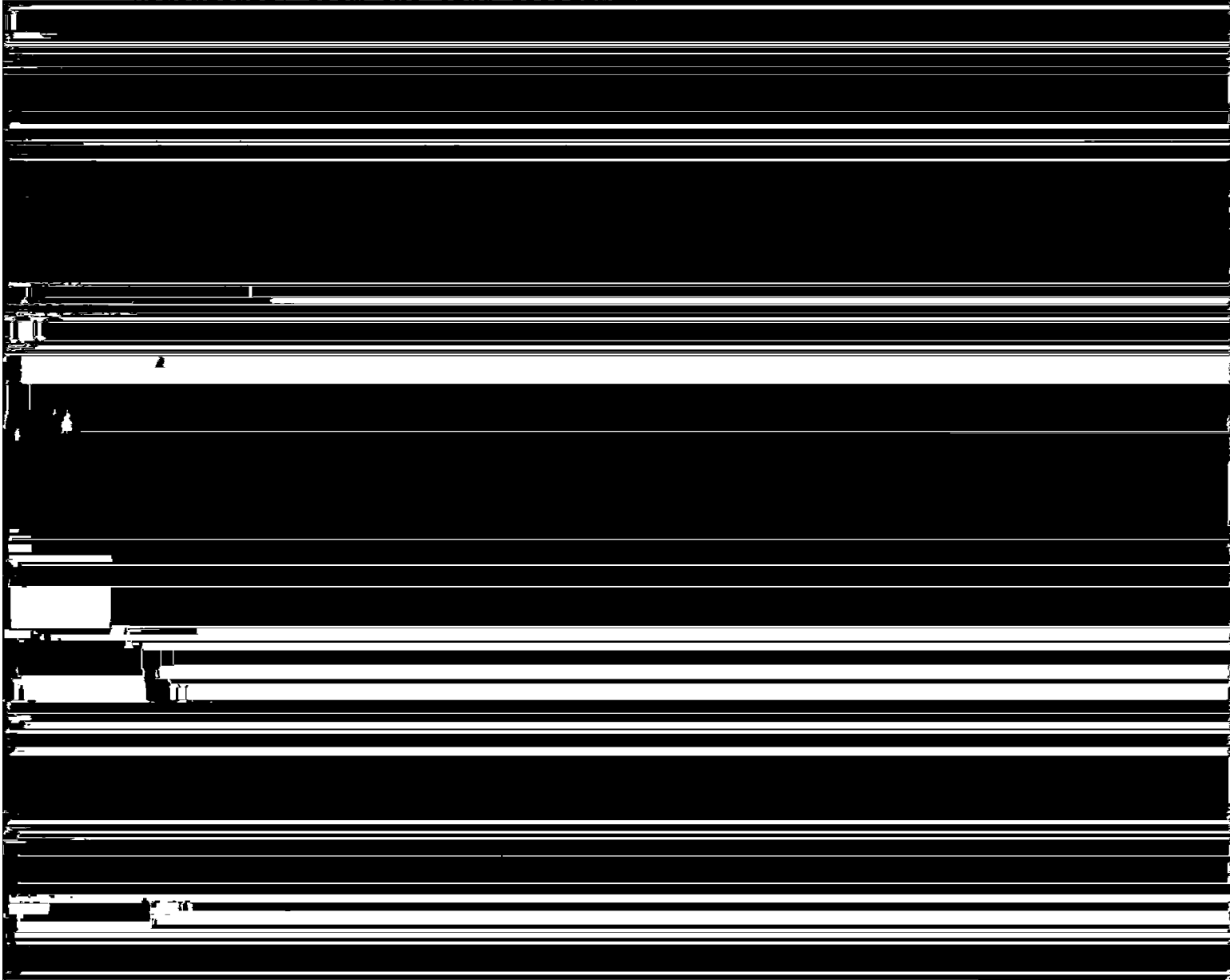
MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		
					NA 1927	Rockville, Md			
					COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
					STATE	ZONE	ϕ LATITUDE λ LONGITUDE		
TP-00963	CM-7601	Worton Point Tower No. 8, 1918	GP Vol 1 P 8		X=			ϕ 39°19'07.52"	
					Y=			λ 76°11'07.55"	
		Stoops Point Tower No. 9, 1918	" P 255		X=			ϕ 39°16'45.860"	
					Y=			λ 76°12'00.403"	
		Fairlee Tower No. 10, 1918	" P 312		X=			ϕ 39°15'12.363"	
					Y=			λ 76°13'26.040"	
		Gales Farm Tower No. 12, 1918	" P 10		X=			ϕ 39°12'22.013"	
					Y=			λ 76°14'50.692"	
					X=			ϕ	
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LISTED BY J J C Moler					DATE 1/79	LISTING CHECKED BY E D Allen			DATE 8/81
					DATE	HAND PLOTTING CHECKED BY			DATE

COMPILATION REPORT
TP-00963

NOVEMBER 1981

31. DELINEATION

Delineation was by both stereoscopic and graphic methods. All detail except the MHW and MLLW lines were compiled from color photographs using the Wild B-8 plotter. The MHW and MLLW lines were delineated graphically from the tide-coordinated infrared photographs except for



There was no photographic coverage for the east portion of West Fork.

Only a general pattern of secondary roads were compiled to be used mainly as an aid for future revisions

32. CONTROL

39. JUNCTIONS

Refer to NOAA Form 76-36B.

40-45. Not Applicable

46. COMPARISON WITH EXISTING MAPS

Hanesville, Md., 1948, Scale 1:24,000

Betterton, Md., 1948, Scale 1:24,000

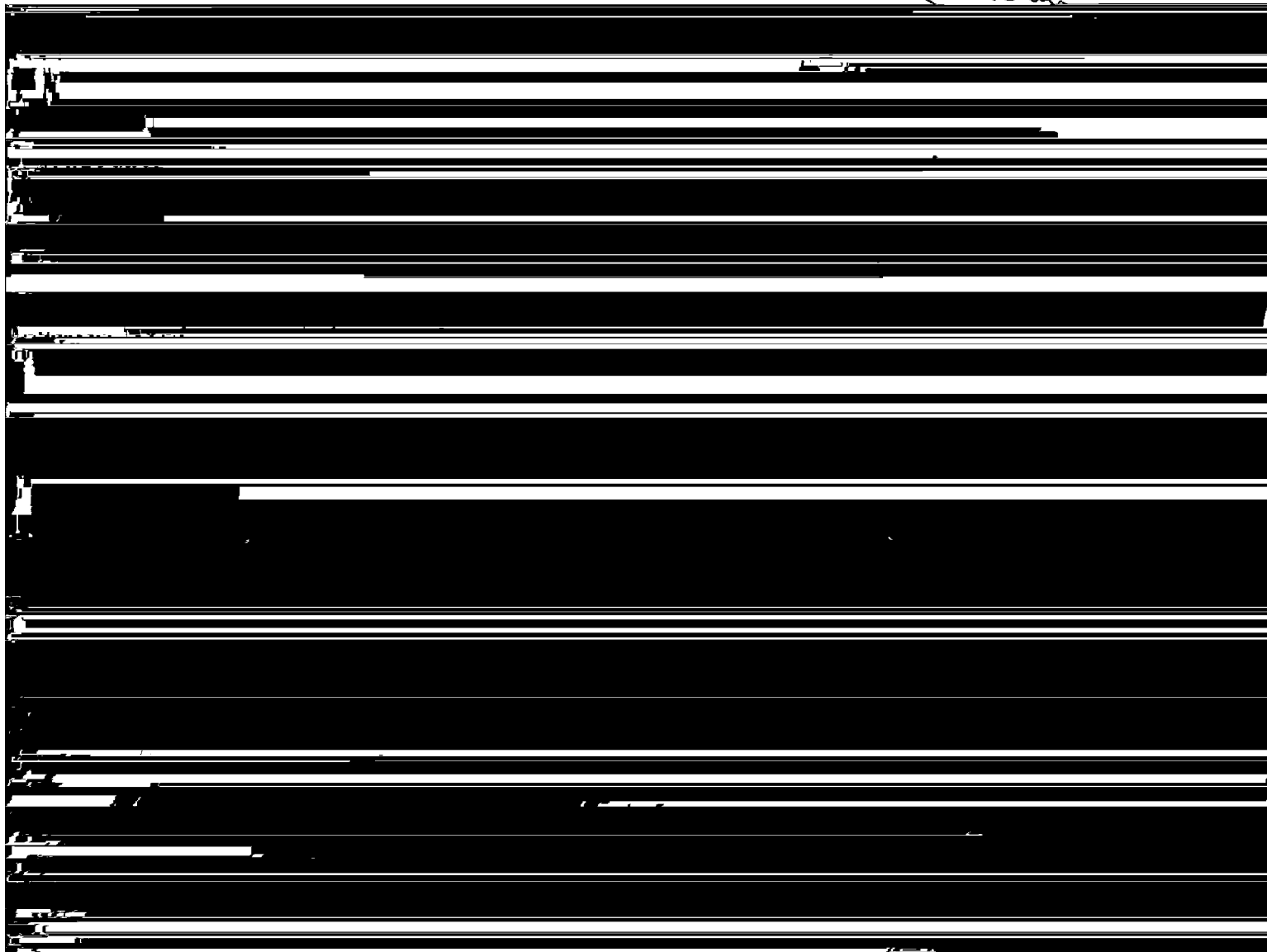
Rock Hall, Md., 1953, Scale 1:24,000

47. COMPARISON WITH NAUTICAL CHARTS

12278 - 53rd Ed., June 13, 1981, Scale 1:40,000

Submitted by:

Edward D. Allen



Review Report TP-00963
Shoreline

October 1984

61. GENERAL STATEMENT

Refer to Summary bound with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to Compilation Report, paragraph 46, bound with this Descriptive Report.

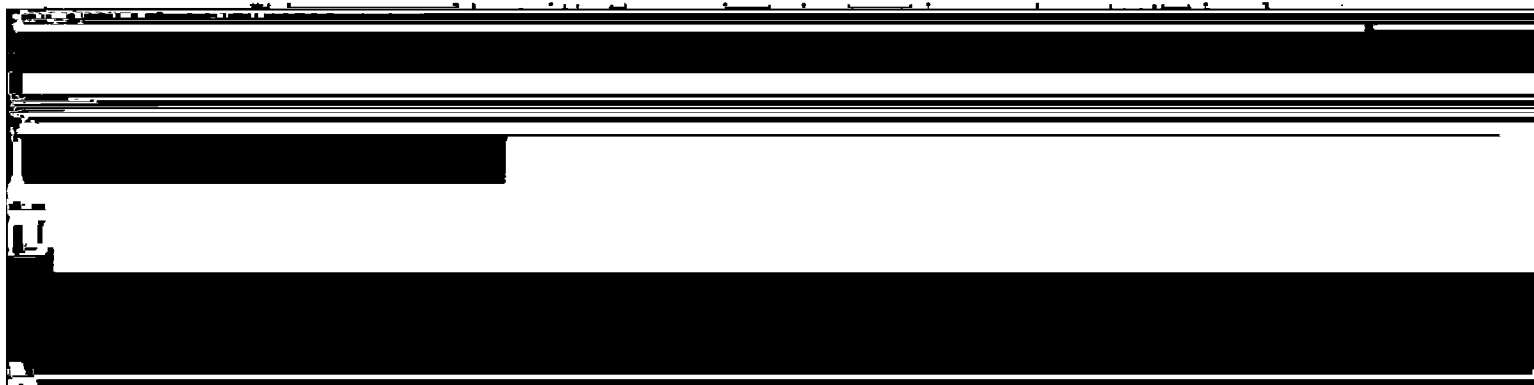
64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

A Comparison was made with Nautical Chart 12278, 53 th Edition, June 13, 1981, Scale 1:40,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS



September 1, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7601 (Chesapeake Bay, Md.)

TP-00963

Buck Neck Landing

Button Beach

Chesapeake Bay

Chesapeake Landing

Churn Creek

Copeland

Fairlee

Fairlee Creek

Fairlee Lake

Fairlee Neck

Georgetown

Great Oak Landing

Great Oak Manor

Green Point Wharf

Handys Point

Jacks Cove

Kinnaird Point

McCleans Corner

Mill Creek

Mitchell Bluff

Newtown

Plum Point

Poplar Neck

St. Pauls Millpond

Sandy Bottom (Ppl)

Shipyard Creek

Stillpond Creek

Swan Creek

Tims Creek

Tolchester Beach (Ppl)

West Fork Langford Creek

Worton Creek

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer, C3x5

Dissemination of Project Material
CM-7601
Northern Chesapeake Bay

National Archives/Federal Records Center
Job Completion Report
Brown Jacket

Aerotriangulation Photographs
Photogrammetric Plot Report Copy
Computer Listings
Tide Data
Field Control Reports
NOAA Form 76-52 (Observation of Horizontal Direction)
NOAA Form 76-53 (Control Identification Cards)
NOAA Form 76-41 (Descriptive Report Control Record)
NOAA Form 76-77 (Leveling Record - Tide Stations)
NOAA Form 76-68
NOAA Form 76-72
NOAA Form 76-15 (Photographic Flight Report)

Bureau Archives
Registered Map
Descriptive Report

Reproduction Division
8x Reduction negative of Map

Office of Staff Geographer
Geographic Names Standards

OCEA
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ESCAPE
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AY *ORIGINATING ACTIVITY *
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ION
IC FIELD POSITIONS** SHOW
LOCATION OR VERIFICATION,
WORK AND NUMBER OF PHOTO-
LOCATE AND IDENTIFY THE

V
-77
C)2982
ATION RECOVERED
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D VISUALLY ON PHOTOGRAPH
ND DATE.
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LY, OR IN PART, UPON CONTROL
HOTOGRAMMETRIC METHODS.
ING UNDER WHICH IT IS LISTED,
PART OF THE OFFICIAL NAME.

DATA TAB
VERSION
782707

DATATAB
VERSION
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DEPARTMENT OF COMMERCE USA

[illegible]

DATA
VERSION
792707

PHOTOGRAMMETRIC BRANCH
PHOTOGRAMMETRY DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

76-40
L-ISTIN

* SVY	TP-00963	* LANDMARKS FOR CHARTS	* RPT UNIT	CMD, ROCKVILLE,MD.	* PAGE	3 OF 3	* *
* JOB	CM-7601	* TO BE CHARTED	* STATE	MARYLAND	* ORIGINATING	ACTIVITY	* *
* PRJ			* LOCALITY	CHESAPEAKE BAY	* ORIGINATING	ACTIVITY	* *
* DTN	NA 1927		* DATE	08/11/82	* COMPILATION		* *

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

[illegible][illegible][illegible]

* * *	(GALES FARM TOWER NO 12,1918)	* 39 12 22.01	678.7	NOT *	TRIANG *	* *
* * *	TOWER *	* 76 14 50.69	1216.2	DGTZD*	* *	12278 *

[illegible]

STATION	COORDINATES	DEPTH	WAVE PERIOD	WAVE DIRECTION	WAVE HEIGHT	WAVE PERIOD	WAVE DIRECTION	WAVE HEIGHT
STOOPS POINT TOWER	9,1918	39 16 45.86	1414.3	NOT	TRIANG			
TOWER		76 12 00.40	9.6	06170				1227A

[illegible][illegible][illegible][illegible][illegible]

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. _____

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.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via

Drawing No.