

TP 00965

TP-00965

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-00965 .....

Classification No. Class III Edition No. 1 .....

### LOCALITY

State ... Maryland .....

General Locality ... Northern Chesapeake Bay .....

Locality ... Kent Island .....

1976 TO 19

### REGISTRY IN ARCHIVES

DATE .....

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



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

## COMPILATION SOURCES

TP-00965

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 10 "C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (R) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
76CC 3829-32	Mar 23 76	14:30	1:60,000	N/A	
76CC 3836-38	Mar 23 76	14:52	1:60,000	N/A	
76C(R)3386-88	Mar 20 76	09:24	1:40,000	-0.32 MHW*	
76C(R)3390-92	Mar 20 76	09:37	1:40,000	-0.17 MHW*	
76C(R)3397-99	Mar 20 76	09:54	1:40,000	-0.13 MHW**	
76C(R)3556-59	Mar 20 76	15:11	1:40,000	-0.06 MLLW**	
76C(R)3448-50	Mar 20 76	12:05	1:40,000	+0.21 MLLW*	
76C(R)3459-61	Mar 20 76	12:31	1:40,000	+0.08 MLLW*	
76C(R)3452-55	Mar 20 76	12:16	1:40,000	+0.14 MLLW*	

## REMARKS

\*Stage of tide based on Matapeake tide guage.

\*\*Stage of tide based on Baltimore, North End, tide guage.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The MHW infrared photographs listed in item 1 except for Crab Alley Creek, Crab Alley Bay, and the area of Hog Island which were compiled from 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-00962	None	PH-6001	TP-00964

REMARKS

TP-00965

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R Tibbetts	Feb 1976
2. HORIZONTAL CONTROL	RECOVERED BY R Tibbetts	Feb 1976
	ESTABLISHED BY N/A	
	PRE-MARKED OR IDENTIFIED BY L Davis	Feb 1976
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 N/A	
	LOCATED (Field Methods) BY N/A	
	IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY N/A	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premark

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
76 CC 3831	Kent Island North Base, 1844 Sub Pt A		
76 CC 3833	CBA Experimental Tower No.4, 1945 Sub Pt A		
76 CC 3832	Kent Island Speed Trial North Range, 1960 Sub Pt A	Horizontal control identified cont.	
76 CC 3837	(3 Point Fix), (Y)	76 CC 3829	(3 Point Fix) (X)

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)

5 Forms 76-53  
3 Forms 76-67

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00965  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and alongshore detail	Aug 81	Class 111		
Final Reviewed Map		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: \_\_\_\_\_

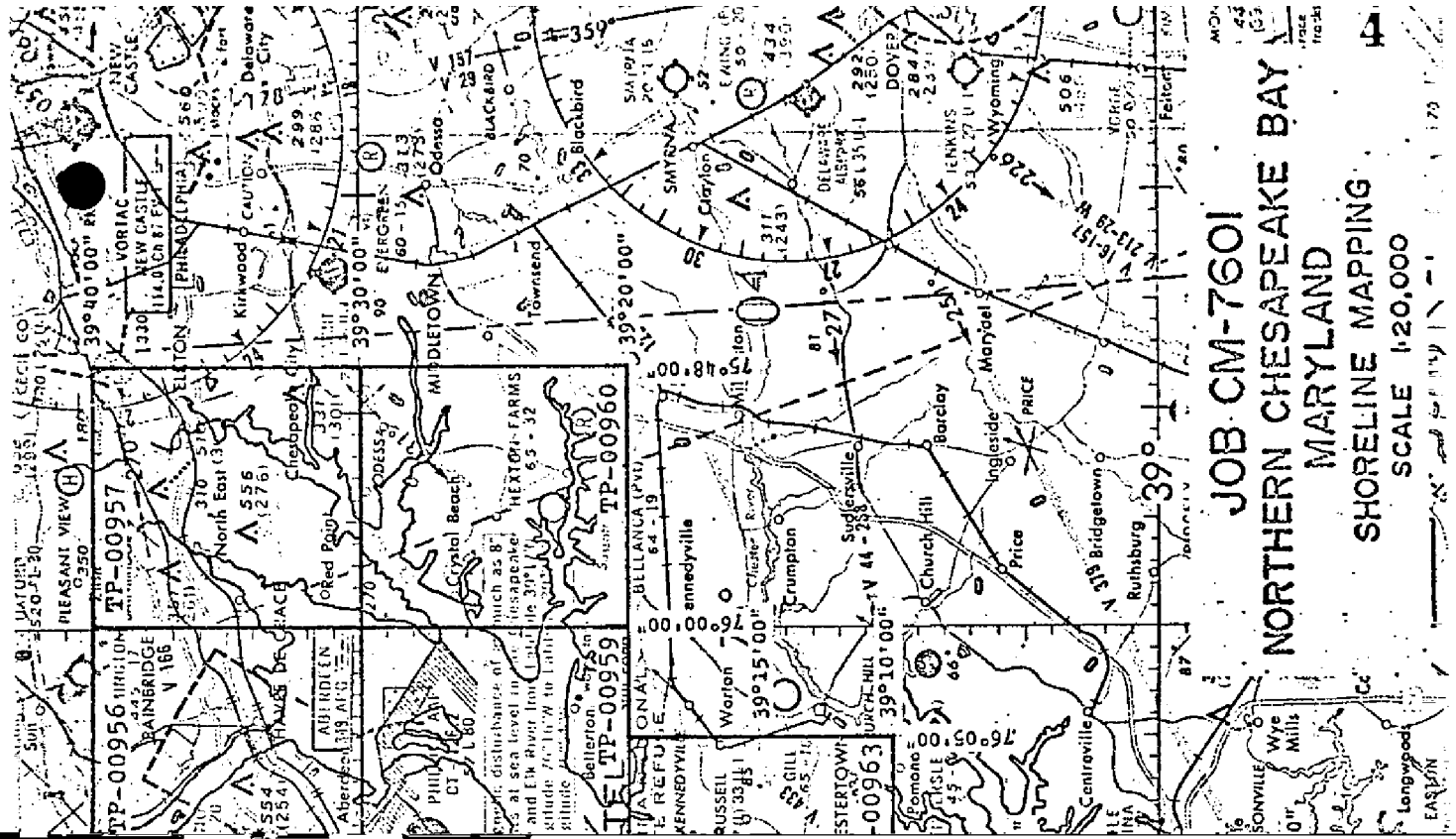
## III. FEDERAL RECORDS CENTER DATA

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 CM-7601

NORTHERN CHESAPEAKE BAY

MARYLAND

SHORELINE MAPPING

SCALE 1:20,000

4

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00965

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)





## FIELD INSPECTION

TP-00965

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.

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

7a

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

## 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	1.429-3.3	1.679-4.1
	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

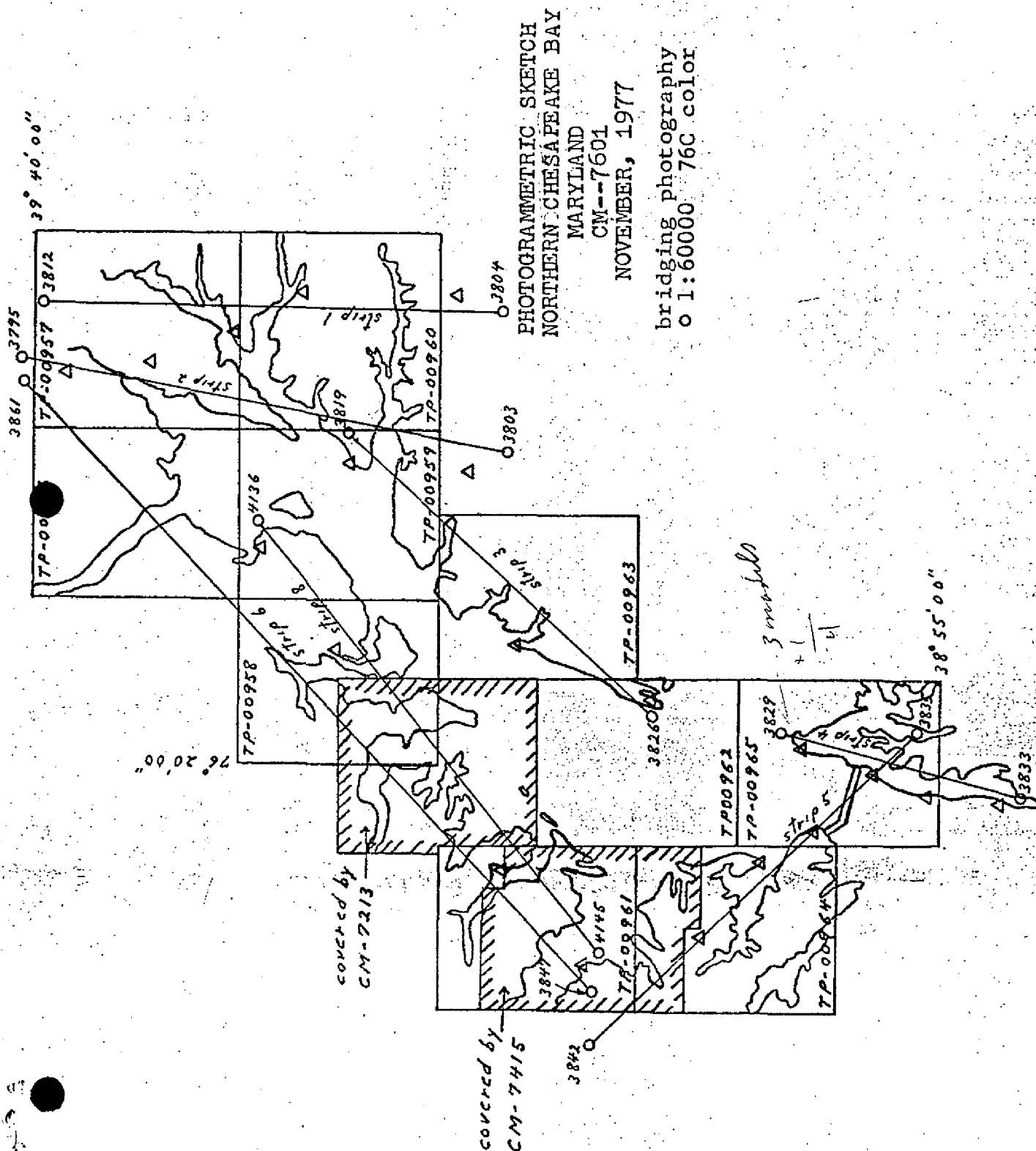
## Notes to the Compiler

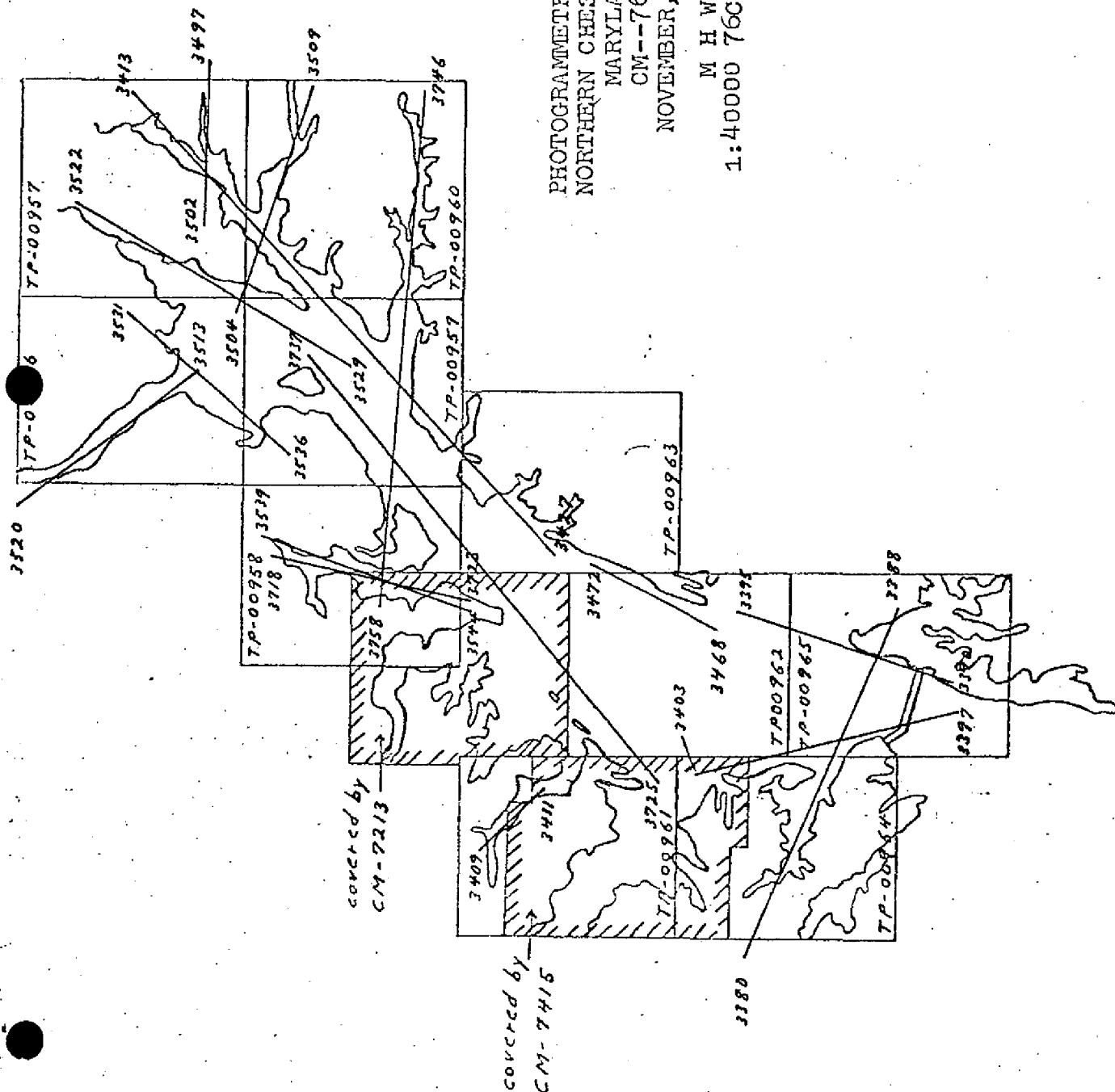
In the Descriptive Report Control Record, point 000001, Howell Point Tower #5,1918 has been deleted. This station was destroyed and a new tower was constructed approximately 60 ft. away. The new tower designated 820111 is a new position for the tower which was determined by aerotriangulation methods. 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 flightline of strip #8.





PHOTOGRAMMETRIC SKETCH  
NORTHERN CHESAPEAKE BAY

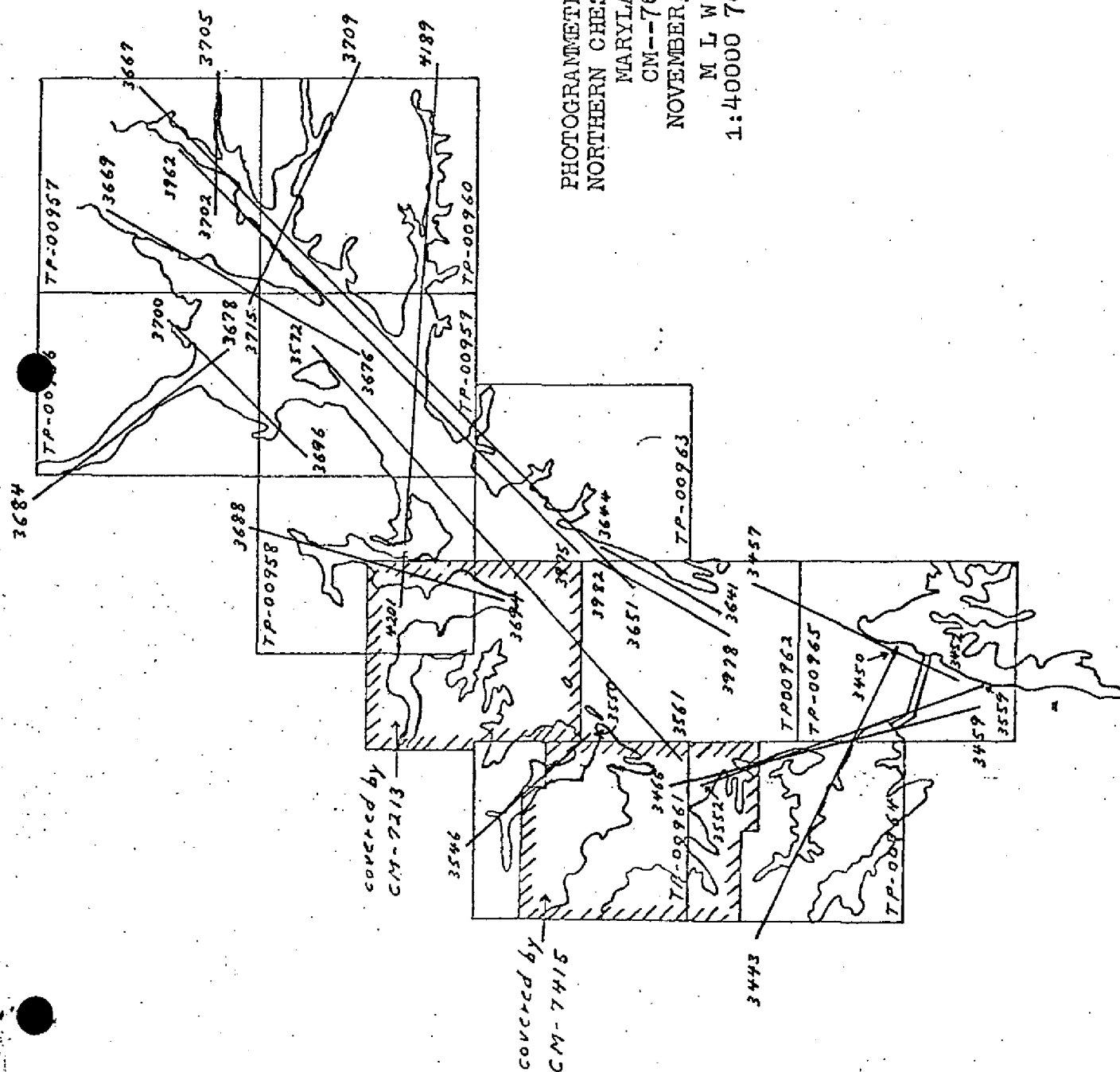
MARYLAND

CM--7601

NOVEMBER, 1977

M H W

1:40000 76C (R)





## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETTIC DATUM		ORIGINATING ACTIVITY	
TP-00965		CM-7601		NA 1927		Rockville, Md.	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE _____ ZONE _____	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		REMARKS	
Love Point Lighthouse, 1906	GP Vol. I P 67	26	x=	φ 39°03'25.225"			
			y=	λ 76°17'00.791"			
Red Barn, South Ventilator, 1932	" P 366	29	x=	φ 38°59'47.15"			
			y=	λ 76°17'32.172"			
Yellow Spire, 1932	" P 159	36	x=	φ 38°59'21.96"			
			y=	λ 76°18'26.59"			
Kent Island North Base, 1844	" P 2	831100	x=	φ 38°58'26.217"			
			y=	λ 76°20'27.515"			
Kent Island Speed Trial North Front Range, 1960	" P 383	832100	x=	φ 38°56'06.122"			
			y=	λ 76°21'46.599"			
Kent Island Speed Trial North Rear Range, 1960	" P 383	40	x=	φ 38°56'05.653"			
			y=	λ 76°21'26.798"			
Kent Island Speed Trial South Front Range, 1960	" P 385	41	x=	φ 38°55'06.058"			
			y=	λ 76°21'49.256"			
Kent Island Speed Trial South Rear Range, 1960	" P 385	42	x=	φ 38°55'05.588"			
			y=	λ 76°21'29.481"			
Chesapeake Bay Bridge East Tower, 1957	" P478	96	x=	φ 38°59'32.892"			
			y=	λ 76°22'47.409"			
Chesapeake Bay Bridge West Tower, 1957	" P 479		x=	φ 38°59'37.434"			
			y=	λ 76°23'06.817"			
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE		
LISTED BY J J C Moler		DATE 1/79	LISTING CHECKED BY J Schad		DATE 10/81		
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE		

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.



## Compilation Report

TP-00965

31. Delineation

Planimetry was compiled using the NOSAP instrument with the exception of the mean high water and mean lower low water lines which were compiled graphically from infrared tide coordinated photographs where available. The planimetry compiled using the stereoinstrument was used as control for the graphic compilation.

There was no infrared mean high water coverage of Crab Alley Bay, Crab Alley Creek, and the area of Hog Island. The MHW line in these areas was compiled from office interpretation of the color photographs.

There was no infrared lower low water coverage from  $76^{\circ}18'00''$  east,  $38^{\circ}59'30''$  south, and no photo coverage in the southeast corner of this map.

32. Control

Refer to the Photogrammetric Plot Report dated November 16, 1977.

## 33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Drainage was delineated using the NOSAP stereoplotter.

35. Shoreline and Alongshore Details

The shoreline was classified and alongshore details identified by office interpretation of the color photographs. Numerous small piers and groins not shown due to scale of the map.

There was no field inspection prior to map compilation.

36. Offshore Details

Very little offshore detail is visible on photographs of this scale, although what appears to be a submerged wreck at latitude  $76^{\circ}25'00''$  and longitude  $39^{\circ}04'00''$  was located.

37. Landmarks and Aids

With the exception of the three lighthouses that have triangulation

positions no other fixed aids were visible on the photographs. Ten of the currently charted landmarks were located.

38. Control for Future Surveys - None

39. Junctions

Refer to NOAA Form 76-36B, item 5.

40 through 45. Not applicable

46. Comparison with Existing Maps

USGS quadrangles:

Kent Island, Md., 1:24,000 scale, 1942

Love Point, Md., 1:24,000 scale, 1953

Gibson Island, 1:24,000 scale, 1954, photorevised 1970

Maryland Official Highway Map, 1981/1982, 1:380,000 scale

47. Comparison with Nautical Charts

12270, 1:40,000 scale, 20th Edition, November 1, 1980

12272, 1:40,000 scale, 19th Edition, September 27, 1980

12278, 1:40,000 scale, 52nd Edition, October 11, 1980

12282, 1:25,000 scale, 22nd Edition, March 22, 1980

Submitted by,

*James Schad*

James Schad

Approved and Forwarded:

*Frank Wright*

Frank Wright  
Chief, Coastal Mapping Section

Review Report TP-009<sup>65</sup>  
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

12270, 1:40,000 scale, 20th Edition, November 1, 1980  
12272, 1:40,000 scale, 19th Edition, September 27, 1980  
12278, 1:40,000 scale, 52nd Edition, October 11, 1980  
12282, 1:25,000 scale, 22nd Edition, March 22, 1980

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the project instructions and meets National Map Accuracy Standards.

67. PHOTOGRAPHS

Color photographs 1:60,000 scale were taken with the RC-10(C) camera in March 1976. Tide-coordinated, black-and-white infrared photographs (scale 1:40,000) were also taken with the "C" camera in 1976.

Submitted by:

  
Edward D. Allen  
Cartographer

Approved and Forwarded:

Chief, Photogrammetric Section

Chief, Photogrammetry Branch

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM-7601 (Chesapeake Bay, Md.)

TP-00965

Batts Neck	Kent Island
Bay City	Kirwan Creek
Bentons Pleasure (Ppl)	Little Creek
Broad Creek	Little Island
Castle Marina (Ppl)	Love Point
Chesapeake Bay	Love Point (Ppl)
Chesapeake Estates	Macum Creek
Chester	Matapeake
Chester River	Meredith Creek
Cloverfields	Mezick Ponds
	Moss Pond
Cox Creek	Normans
Cox Neck	Piney Creek
Crab Alley Bay	Sandy Point
Crab Alley Creek	Sandy Point State Park
Crab Alley Neck	Shipping Creek
Craney Creek	Skidmore
Dominion	Stevensville
Goodhouse Creek	Thompson Creek
Harborview	Tydings on the Bay
Hog Island	Warehouse Creek
Johnson Island	William Preston Lane, Jr. Memorial Bridges.

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

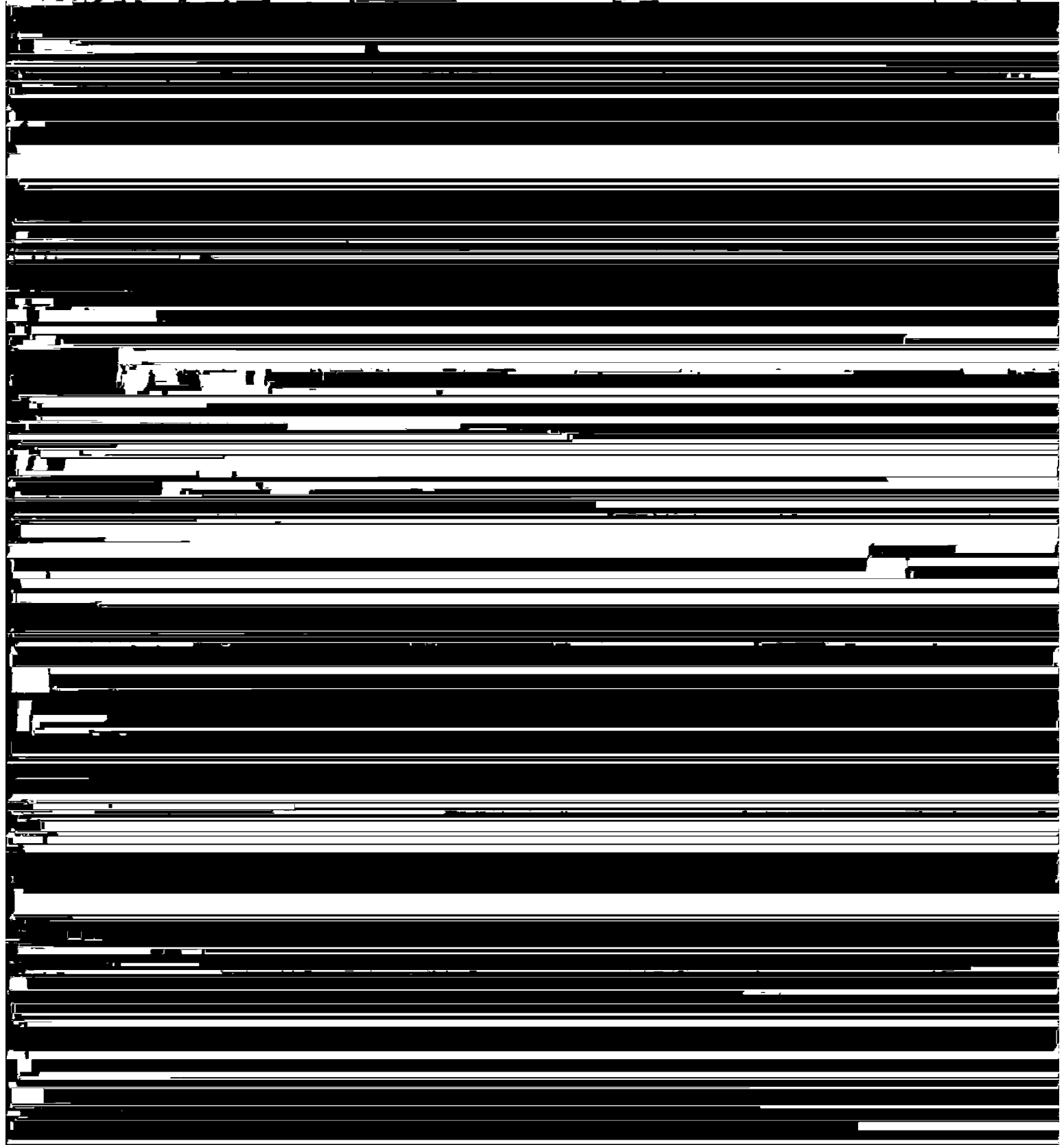
Reproduction Division

8x Reduction negative of Map

Office of Staff Geographer

Geographic Names Standards

.....  
TATAB  
RSION  
82707  
ITY  
VE  
ED



.....  
PAGE  
IGINAT  
COM  
D REPR  
FICE C  
DIGIT  
ATA P  
SITION  
R VER  
UNBER  
IDEN  
ERED  
H IS A  
ERED  
IS SH  
ON PHO  
IONS A  
RT+UPC  
RIC ME  
HIGH I  
OFFIC





METRIC BRANCH  
 METRY DIVISION  
 NATIONAL OCEAN SURVEY NOAA  
 DEPARTMENT OF COMMERCE USA  
 DATATAB  
 VERSION  
 782707

* RPT UNIT	CMD, ROCKVILLE,MD.	* PAGE 3 OF 4	* *
* STATE	MARYLAND	* *	* *
* LOCALITY	CHESAPEAKE BAY	* ORIGINATING ACTIVITY*	* *
* DATE	08/11/82	* COMPILATION	* *

NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS \* .

* N	* DELETION	* POSITION	* CMD	* METHOD AND DATE	* CHARTS	* *
* NAMES IN ( )	* LATITUDE	* DM	* ALTEK*	* OF LOCATION	* *	* *
* *	* LONGITUDE	* DP	* DGTZD*	* OFFICE	* FIELD	* AFFECTED*

* 39 00 36.68	1131.1	*76CC3836	*	12270	*
* 76 24 10.01	240.8	* 03/23/76	*	12282	*

*	39 00	27.71	854.5	*76CC3836	*	12270
*	76 24	32.63	785.1	* 03/23/76	*	12282

*	38	57	24.97	770.0	*76CC3832	*	12270	*
*	76	21	10.93	263.2	* 03/23/76	*	12282	*

* 38	* 57	22.28	687.0	* 76CC3832	* 12270
* 76	* 21	12.54	301.9	* 03/23/76	* 12282

* 38 57 23.89	* 76CC3832	* *
* 76 21 02.87	* 03/23/76	* 12270

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																									
Population	12270	12282	12294	12306	12318	12330	12342	12354	12366	12378	12390	12402	12414	12426	12438	12450	12462	12474	12486	12498	12510	12522	12534	12546	12558	12570	12582	12594	12606	12618	12630	12642	12654	12666	12678	12690	12702	12714	12726	12738	12750	12762	12774	12786	12798	12810	12822	12834	12846	12858	12870	12882	12894	12906	12918	12930	12942	12954	12966	12978	12990	13002	13014	13026	13038	13050	13062	13074	13086	13098	13110	13122	13134	13146	13158	13170	13182	13194	13206	13218	13230	13242	13254	13266	13278	13290	13302	13314	13326	13338	13350	13362	13374	13386	13398	13410	13422	13434	13446	13458	13470	13482	13494	13506	13518	13530	13542	13554	13566	13578	13590	13602	13614	13626	13638	13650	13662	13674	13686	13698	13710	13722	13734	13746	13758	13770	13782	13794	13806	13818	13830	13842	13854	13866	13878	13890	13902	13914	13926	13938	13950	13962	13974	13986	13998	14010	14022	14034	14046	14058	14070	14082	14094	14106	14118	14130	14142	14154	14166	14178	14190	14202	14214	14226	14238	14250	14262	14274	14286	14298	14310	14322	14334	14346	14358	14370	14382	14394	14406	14418	14430	14442	14454	14466	14478	14490	14502	14514	14526	14538	14550	14562	14574	14586	14598	14610	14622	14634	14646	14658	14670	14682	14694	14706	14718	14730	14742	14754	14766	14778	14790	14802	14814	14826	14838	14850	14862	14874	14886	14898	14910	14922	14934	14946	14958	14970	14982	14994	15006	15018	15030	15042	15054	15066	15078	15090	15102	15114	15126	15138	15150	15162	15174	15186	15198	15210	15222	15234	15246	15258	15270	15282	15294	15306	15318	15330	15342	15354	15366	15378	15390	15402	15414	15426	15438	15450	15462	15474	15486	15498	15510	15522	15534	1

TRIAL	*	38	56	06.12	188.7	NOT	*	TRIANG	*	12270	*
960)	*	76	21	46.60	1122.4	DGTZD*			*	12282	*

TRIAL	*	38	56	05.65	174.2	NOT *	TRIANG	*	12270	*	*
60}	*	76	21	26.80	645.5	DGIZD*	*	*	12282	*	*

TRIAL	*	38	55	06.06	186.9	NOT	*	TRIANG	*	.	.	.
960)	*	76	21	49.26	1186.7	DGIZD	*		*	12270	*	.

TRIAL	*	38	55	05.59	172.4	NOT *	TRIANG	*
00	*	76	21	29.48	710.2	DGIZD*	*	12270

\_\_\_\_\_

NATIONAL OCEAN SURVEILLANCE  
DEPARTMENT OF COMMERCE

\* RPT UNIT CMD, ROCKVILLE  
\* STATE MARYLAND  
\* LOCALITY CHESAPEAKE  
\* DATE 08/11/82

D FROM SEAWARD TO DETECTION

POSITION CMD  
ALTITUDE DM ALTEK  
LONGITUDE DP DGTZO

55 04.57 140.9  
19 13.63 328.4

55 04.65 143.4  
19 14.16 341.1

57 50.59 1560.0  
19 03.42 82.3

59 37.43 1154.2 NOT  
23 06.82 164.1 DGTZO

59 32.89 1014.2 NOT  
22 47.41 1141.0 DGTZO

NOAA  
RCE USA  
782707

PAGE 4 OF 4

\* ORIGINATING ACTIVITY  
\* COMPILATION

E THEIR VALUE AS LANDMARKS

METHOD AND DATE  
OF LOCATION \* CHARTS  
OFFICE \* FIELD \*AFFECTED

CC3832 \* \* 12270  
3/23/76 \*

CC3831 \* \* 12270  
3/23/76 \*

CC3831 \* \* 12270  
3/23/76 \*

TRIANG \* \* 12270  
TRIANG \*

TRIANG \* \* 12270  
TRIANG \*

DATA  
TAB  
VERSION  
782707

