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 CM-7415 Map	No. TP-00844
Classification No. Edit	ion No 1
Field Edited Ma	0
LOCALITY	
State Maryland	
General Locality Baltimore Ha	irbor
Locality Sparrows Point	
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1974 TO 197	5
REGISTRY IN ARCHIV	

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

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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE	TYPE OF SURVEY	SURVEY T	р. 00844
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DESCRIPTIVE REPORT - DATA RECORD	C) RESURVEY	MAP CLASS	Final
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PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITI	ON
Coastal Mapping Division	TYPE OF SURVEY		1
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OFFICER-IN-CHARGE	RESURVEY		
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Jeffrey G. Carlen, Cdr.	REVISED	19TO 19_	
I. INSTRUCTIONS DATED	· 		<u>-</u>
1. OFFICE	2.	FIELD	···
			
Aerotriangulation 2/07/75 Compilation 3/12/75	Augus	+ 16,1974	
II. DATUMS	107		
1. HORIZONTAL: (X) 1927 NORTH AMERICAN	OTHER (Specify)		
[#] MEAN WATER	OTHER (Specify)		
[X] MEAN HIGH-WATER ☐ MEAN LOW-WATER			
2. VERTICAL: MEAN LOWER LOW-WATER	·		
MEAN SEA LEVEL			•
3. MAP PROJECTION	4	GRID(S)	
	STATE	ZONE	
Polyconic	Maryland		
5. SCALE 1:5,000	STATE	ZONE	
III. HISTORY OF OFFICE OPERATIONS	<u> </u>		
OPERATIONS	NAME		DATE
	I. Rayborn		4/75
1. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by	1. Itay BOTH		
	R. Robertson		4/75
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp CHECKED BY	R. Robertson		4/75
			9/75
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	C. Parker L. Neterer, Jr./R.	. Minton	<u>9/75</u> 9/75
TILLED O	L. Neterer, Jr./R. NA	· PILITOON	<u> </u>
1-7 500			
	NA D. Minton		70/85
4. MANUSCRIPT DELINEATION PLANIMETRY BY	R. Minton	(D+7)	10/75
CHECKED BY	F. Margiotta	(rartlal)	11/75
METHOD: Smooth Drafting CONTOURS BY	NA NA		
CHECKED BY	NA NA		
scale: 1:5,000 HYDRO SUPPORT DATA BY	NA		
CHECKED BY	NA_	/	77 /200
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	F. Margiotta	(<u>Partial)</u>	11/75
6. APPLICATION OF FIELD EDIT DATA	J. R. Minton		4/76
CHĘCKED BY	F. Margiotta		<u> 5/76</u> _
7. COMPILATION SECTION REVIEW BY	F. Margiotta		5/76
8. FINAL REVIEW BY	C. H. Bishop		5/77
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	C. H. Bishop		5/77
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J. B. Phillips	5	6/77
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R.T. Cator		7/77



NOAA FORM 76-36B (3-72)			NA	TIONAL OCE		TMOSP	HERIC AD	OF COMMERCE MINISTRATION
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EDITION

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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00836 through TP-00852

Project CM-7415 covers the Patapsco River and Baltimore Harbor from the mouth of the river at Long. 76° 25' westward to and including the Inner Harbor. The part of Back River within the limits of Maps TP-00851 and TP-00852 is not included in the project and was not mapped. Seventeen maps - four at 1:10,000 scale and thirteen at 1:5,000 scale - are included in the project.

Field work prior to compilation consisted of recovery and premarking of horizontal control required for bridging. This work was done in September 1974.

Color photography was flown in October 1974. The entire area is covered by 1:30,000 scale photography, which was used for bridging and compilation of the 1:10,000 scale maps. Supplemental photography used for compilation of the 1:5,000 scale maps was flown at 1:15,000 scale. Black and white ratio prints at map scale were prepared from the color transparencies for office use and field edit operations.

Bridging was done by analytic methods in the Rockville Office in April 1975. See Photogrammetric Plot Report, which is Page 7 of this Descriptive Report.

Compilation was done by the Coastal Mapping Section at the Atlantic Marine Center from July to November 1975, using the Wild B-8 stereoplotter. The location of the mean high water line and other details were determined by office interpretation of the photographs.

Field edit was done by a photogrammetric field unit from September to November 1975 and applied to the manuscripts at the Atlantic Marine Center from December 1975 to February 1976.

All original manuscripts are stabilene sheets. The 1:5,000 scale maps are on a two and one-half minute format and the 1:10,000 scale maps are on a five minute format. The original manuscripts were forwarded to the Rockville Office for preparation of registration copies.

Photogrammetric Plot Report Baltimore Harbor, Maryland CM-7415 April 1975

21. Area Covered

The area covered by this report pertains to the shoreline of Baltimore Harbor, Baltimore, Maryland. This area is covered by thirteen 1:5,000 scale sheets, TP-00836 thru TP-00847, TP-00851, and four 1:10,000 scale sheets TP-00848 thru TP-00850 and TP-00852.

22. Method

Five strips of 1:30,000 scale color photography were bridged By analytic aerotriangulation methods. Sketch number 1 shows the layout of the sheets, compilation photographs, strips of . bridging photographs, and the location of field identified Ties were made between all bridging strips. The strips were controlled by field identified control paneled in 1974 with the inclusion of one office identified station as a terminal for strip two. Office identified control was floated as checks. Common points were located between the bridging photography and the compilation photography to control the compilation and to determine the ratio scale. Points were located on the bridging. photography to determine the ratio scale of the photographs that pertain to the 1:10,000 scale TP sheets. Data for ruling projection were furnished to the Calcomp to be plotted in the Maryland State plane coordinate system. 1:5,000 scale ratios were ordered for the 1:5,000 scale sheets and 1:10,000 scale ratios of the bridging photographs were ordered for the 1:10,000 scale sheets.

23. Adequacy of Control

The control was adequate with the inclusion of office identified control. Geodesy could not furnish a position for Curb 2, 1971, in order to compute a sub point for that station. An office identified control station was used as a terminal for strip number two, in place of Curb 2, 1971.

24. Supplemental Data

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

25. Photography

The photography was adequate as to coverage and overlap. Definition was poor due to haze at time of photography.

Approved and forwarded:

Lespectfully submitted,

John D. Perrow, Gr.

Ivay O. Raborn

Chief, Aerotriangulation Section

BRIDGING PHOTOGRAPHY COMPILATION PHOTOGRAPHY

VA U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (126.3)(850.4)(311.4)(120.2)(796.3)(881.4) (1424.4)(67.3)GEOGRAPHIC POSITION 5/27/75 REMARKS AMC FORWARD 1724.0 642.8 6.896 14.8 589.0 1783.0 1128.0 1730.1 DATE DATE DATE ORIGINATING ACTIVITY 00.618 56.103 26.802 31,419 55.906 24.553 57.818 47.021 λ LONGITUDE 13 53 13 39 28 12 겜 27 SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE. 92 33 92 26 33 Mauldin 39 92 39 DESCRIPTIVE REPORT CONTROL RECORD ~ φ. ~ • ~ Φ-• -0-0 φ. Φ. \prec Θ. ~ ⊕ . F-1 1927 HAND PLOTTING CHECKED BY COMPUTATION CHECKED COORDINATES IN FEET LISTING CHECKED BY STATE **ZONE** 'n ķ ä £ ¥ 2 Ë ¥ ₽, 'n 7 ž £ ۲ 'n * AEROTRI-ANGULATION POINT NUMBER DATE 20/75 DATE DATE CM-7415 SOURCE OF INFORMATION (Index) Vol 316 Vol 233 Vol 327 Vol 315 G. P. G.P. <u>ь</u> ი. ი. ი. SPARROWS POINT, BETHIEHEM STEEL COMPANY, LARGE WATER HUMPHREY CREEK, TANK, 1934 Jr CUTOFF CHANNEL REAR RANGE LIGHT, 1896 Rauck, BETHLEHEM TANK, 1933 STATION NAME ပံ IP-00844 А. HAND PLOTTING BY NOAA FORM 76-41 (6-75) 1958 COMPUTED BY LISTED BY TANK, MAP NO

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COMPILATION REPORT

TP-00844

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter.

32. CONTROL:

See the attached Photogrammetric Plot Report dated April 1975.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Preliminary Forms 76-40 for Landmarks and/or Nonfloating Aids were prepared by the Compilation Office and forwarded to the Field Editor and/or Hydrographer for verification, location, or deletion in November 1975 and the final field edited forms were forwarded to the Rockville, Maryland Office on July 2, 1976.

38. CONTROL FOR FUTURE SURVEYS:

No statement.

39. JUNCTIONS:

See the attached Form 76-36B, Item #5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: SPARROWS POINT, MD., scale 1:24,000, dated 1969.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Charts:

No. 12279, scale 1:40,000, 12th Edition, dated November 9, 1974 No. 12281, scale 1:15,000, 29th Edition, dated August 17, 1974

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

J. R. Minton

Cartographic Technician

April 22, 1976

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT: TP-00844

FIELD EDIT

Field edit of this map was satisfactory.

February 28, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7415 (Baltimore, Md.)

TP-00844

Baltimore & Ohio (RR)

Bear Creek

Bullneck Creek

Cattail Point

Humphrey Creek

Jones Creek

Lloyd Point

Long Point

Old Road Bay

Patapsco & Back Rivers (RR)

Sparrows Point

Approved by:

Charles E. Harrington Staff Geographer - C51x2

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F. P. Margiotta		··. ·- ·	Albert C. Rauck,	Jr.
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J. R. min	tta	5/26/76	Albert C. Rauck,	Jr.
J. R. Min REVIEWER F. Margio B. REMARKS J. Marga	tta alh		Albert C. Rauck, ATION, Item #8.	Jr.

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

FIELD EDIT REPORT

TP-00844

Baltimore Harbor, Md.

51. METHODS

An inspection of all shoreline and alongshore features was made, and all deletions, additions, and corrections are either shown or referred to on the field edit ozalid. All field edit notes are in purple ink for additions and corrections and in green ink for deletions.

Searches by boat for reported features below mean high water were made; because of the limited visibility into the water and lack of wire drag equipment or personnel in quantity to operate such equipment, any negative findings noted in the field edit data should not be considered conclusive, unless otherwise stated. The latest hydrographic survey of the area should be consulted for more complete information.

Most of the field edit inspection was accomplished by boat. Features were located by either sextent fixes or photo identification.

52. ADEQUACY OF COMPILATION

Compilation was adequate. There were no areas of great change on this sheet. All shoreline was checked by boat and found to be delineated properly. All questions and notes inserted by field edit appears on the field edit ozalid. When these notes are applied, compilation will be complete.

56. GEOGRAPHIC NAMES

No discrepancies were found while editing this sheet.

57. LANDMARKS AND AIDS TO NAVIGATION

There are three landmarks on this sheet which are recommended for charting and ten which are not considered good landmarks. It is the opinion of the field editor that these ten charted landmarks are not useful to the mariner due to the confusing nature of their arrangement at Sparrow's Point. Other opinions are solicited before deletion of these stacks however. If some of these stacks are still desired on the chart, it is recommended that only the eight circled on the field edit ozalid in red ink be charted.



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

There are thirteen non-floating aids to navigation on this sheet recommended for charting.

58. FIELD EDITOR

Field edit was performed by Lt. George Jamerson, and Mr. Howard Hart in November, 1975.

Respectfully submitted,

George W. James en Lt. NOAA

November 26, 1975

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		TING All		, s Div. Va	been insp	SURVEY NUMBER TP-008414		2	k or aid to n e applicable		tion Li	l l	` ^	,												
•		NONFLOATING AIDS	REPORTING UNIT	field Park, Ship or Office) Coastal Mapping	HAVE NOT			KOLTALACEBO	(Record reason for deletion of landmark or eld to navigation. Show triangulation station names, where applicable, in parentheses)		Creek West Obstruction Lights		roug roine payoeacon	Creek Light 2												
	40	orm 567.	-	,	ects	<u> </u> !			(Record rea Show trian		Bear	, , , , , , , , , , , , , , , , , , ,	HIOT.	seuch						· .		·	,		. e	
i	NOAA FORM 76-40	Replaces C&GS Form 567.		XTO BE CHARTED TO BE REVISED TO BE DELETED	The following objects	OPR PROJECT NO.			CHARTING		right /	ואסס ג פטעי גית	DA IDEACON	THULL			:			 						

REVIEW REPORT

TP-00844

SHORELINE

May 4, 1977

61. GENERAL STATEMENT:

See Summary, which is Page 6 of this Descriptive Report.

No comparison print was made for this map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A visual comparison was made with a copy of Survey T-5421, 1:10,000 scale, mapped from photographs taken in November 1933. Shoreline and cultural features have changed greatly since that date.

In the area compared, TP-00844 supersedes T-5421 for nautical chart construction purposes. T-5421 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle SPARROWS POINT, MD., 1:24,000 scale, dated 1969. Greys Creek (not named on the quadrangle) has been filled in. Humphrey Creek is now confined to a narrow channel; it no longer covers the area indicated on the quadrangle. No other significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparisons were made with the following contemporary hydrographic surveys:

H-9643 (HSB 5-1-76) Boatsheet: Shoreline on the boatsheet is from a Class III copy of TP-00844. The mean high water line at Long Point was changed by field edit and is correct on the Class I copy furnished to the Verification Branch.

A pile located by the hydrographer at Lat. 39° 13' 36", Long. 76° 29' 42" is not visible on the photographs and was not located by field edit.

H-9562 (AHP 10-5-75) Boatsheet, visual: No significant difference.

H-9582 (AHP 5-10-75) Copy of Verified Smooth Sheet: No significant difference.

65. COMPARISON WITH NAUTICAL CHARTS:

West of Long. 76° 28', a visual comparison was made with Chart 12281, 1:15,000 scale, 31st Edition, dated November 13, 1976.

A charted pier at Lat. 39° 14' 57", Long. 76° 29' 57" was deleted by the field editor and, therefore, is not shown on TP-00844. Later, when hydrography was in progress, a new pier was under construction. This pier should be charted from the hydrographic data.

A charted platform at Lat. 39° 14' 56", Long. 76° 29' 05" was deleted by the field editor; it no longer exists.

Greys Creek, Lat. 39° 14.7', Long. 76° 29.2' has been filled in. It no longer exists and should be deleted from the chart.

In the area of Sparrows Point, six charted objects (five stacks and one standpipe) are recommended for deletion and four stacks not previously charted are recommended for new landmarks. The objects recommended for deletion are compiled on TP-00844 as map features, rather than nautical landmarks. See copies of Form 76-40 bound with this report.

East of Long. 76° 28', a visual comparison was made with Chart 12278, 1:40,000 scale, 43rd Edition, dated April 3, 1976. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Umasek

This map complies with Project Instructions and meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted:

Charles H. Bishop

Charles H. Bishop Cartographer May 4, 1977

Approved for forwarding:

Joseph W. Vonasek

Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

NAUTICAL CHART DIVISION

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.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	OL CARTOGRAPHER	REMARKS
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