NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreli	ne
Job No CM-7415	мар No. ТР-00849
Classification No.	Edition No1
Field Edite	d Map
LOCALIT	Y
State Maryland	
General Locality Baltimo	re Harbor
Locality Stony Creek	
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DATE	
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☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP- 00849						
A THE REAL PROPERTY OF THE REA	ORIGINAL	MAPEDITION NO. (1)						
DESCRIPTIVE DEPORT OF A DECORD	RESURVEY							
DESCRIPTIVE REPORT - DATA RECORD								
PHOTOGRAMMETRIC OFFICE	REVISED	јов ж ен . <u>СМ-7415</u>						
Coastal Mapping Division		NG MAP EDITION						
Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY ORIGINAL	JOB PH						
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:						
	REVISED	19TO 19						
Jeffrey G. Carlen. Cdr.	<u> </u>							
1. OFFICE	2.	FIELD						
Aerotriangulation 2/07/75 Compilation 3/12/75	Augus	f 16,1974						
Compilation 3/12/75								
II. DATUMS								
	OTHER (Specify)							
I. HORIZONTAL: X 1927 NORTH AMERICAN								
₩EAN HIGH-WATER	OTHER (Specify)							
2. VERTICAL: MEAN LOW-WATER MEAN LOWER LOW-WATER								
MEAN SEA LEVEL		:						
3. MAP PROJECTION	4. (GRID(S)						
Polyroppio	STATE ZONE Maryland							
Polyconic 5. scale	Maryland zone							
1:10,000								
III. HISTORY OF OFFICE OPERATIONS								
OPERATIONS	NAME DAT I. Rayborn 4/7							
1. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by	1. Rayborn	4//3						
2. CONTROL AND BRIDGE POINTS PLOTTED BY	R. Robertson	4/75						
METHOD: Calcomp CHECKED BY	R. Robertson	4/75						
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. O. Neterer, R. Minton	Jr. 7/75 7/75						
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	NA NA	1 1/12						
scale: 1:15,000 CHECKED BY	NA							
4. MANUSCRIPT DELINEATION PLANIMETRY BY	Charles Parker							
CHECKED BY	L. O. Neterer,	Jr. 9/75						
METHOD: Smooth Drafted CHECKED BY	NA NA							
HVORA SUDDART DATA BY	NA NA							
scale: 1:10,000 CHECKED BY	NA							
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. O. Neterer,	Jr. 9/75						
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	I. Perkinson A. L. Shands	2/76 3/76						
7. COMPILATION SECTION REVIEW BY	A. L. Shands	3/76						
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 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	J. B. Phillips	6/77						
11. MAP REGISTERED - COASTAL SURVEY SECTION BY NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES	K.T. Cator							

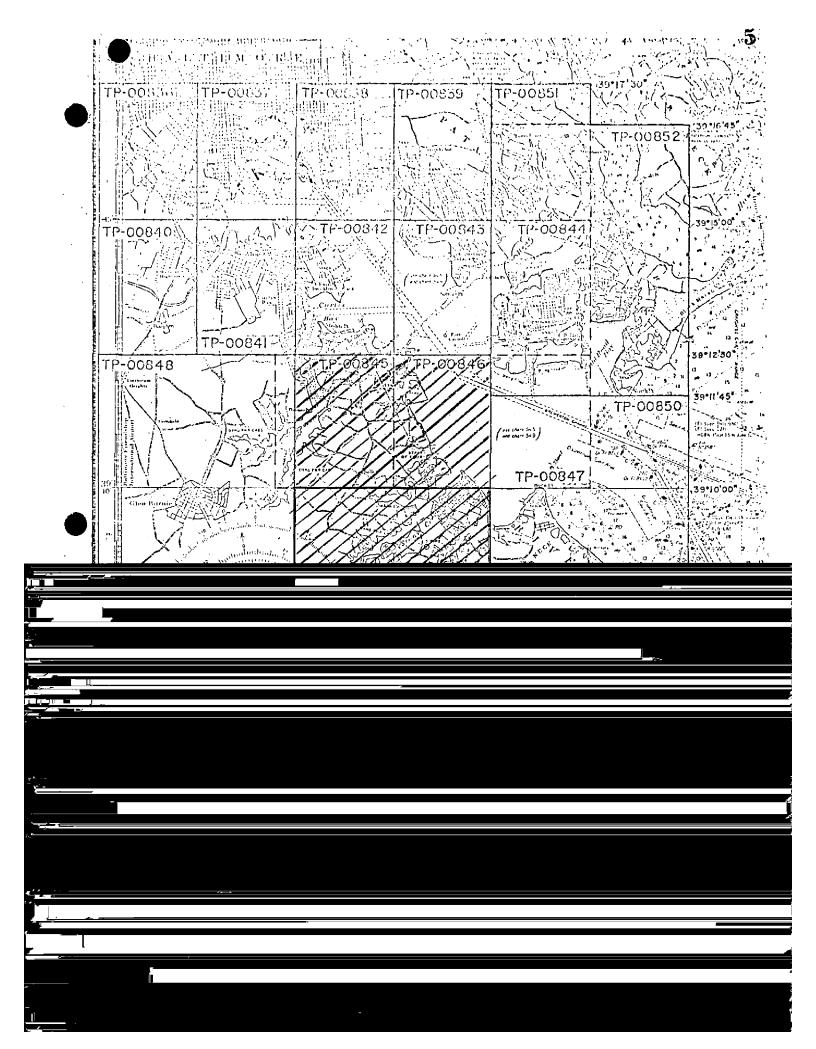


NOAA FORM 76-36B		-	NATIONAL OCE		ARTMENT OF COMMERCE								
	· CDi	TP-00849 MPILATION S		NA	TIONAL OCEAN SURVEY								
		MEILATION 3		<u> </u>									
1. COMPILATION PHOTOGRAPHY CAMERA(S)		,											
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TIDE STAGE REFERENCE Balt	imore	Υ (C) COLOR		ZONE									
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TIDE CONTROLLED PHOTOGR		(I) INFRAR	ED	MERIDIAN	DAYLIGHT								
NUMBER AND TYPE	DATE	TIME	SCALE	75th	AGE OF TIDE								
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74C(C)801 and 802*	10/05/74	10:37	1:30,000	0.9 f	t. above MLW								
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3. SOURCE OF MEAN LOW-WATER	OR MEAN LOWER L	OW-WATER LINE	!										
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None compiled.													
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5. FINAL JUNCTIONS	· ——· —												
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P-00843 (1:5,000)		,	110	Suprem ITTO O	1000 01.1 0100								
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REMARKS													
The north half of TP	-00849 is man	ped at 1:5	,000 scale or	n TP-00846 a	ind TP-00847.								
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3–72)		TP-0084	9	ANIC AND ATMOSPHERI	ENT OF COMMER C Administrat AL OCEAN SURV
I. 🟋 FIELD INSPE	CTION OPER	HISTORY OF FIELD	D EDIT OPERATION		
		RATION		NAME	DATE
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		RECOVERED BY		Tibbetts	9/74
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, VERTICAL CON	TROL	RECOVERED BY	NA NA		7/14
		PRE-MARKED OR IDENTIFIED BY	NA Na		
LANDMARKS AN	מו	COVERED (Triangulation Stations) BY LOCATED (Field Methods) BY	None None None		
5. GEOGRAPHIC N INVESTIGATION		TYPE OF INVESTIGATION COMPLETE SPECIFIC NAMES ONLY NO INVESTIGATION			
S. PHOTO INSPECT	TION	CLARIFICATION OF DETAILS BY			<u> </u>
7. BOUNDARIES AN		SURVEYED OR IDENTIFIED BY	NA		<u> </u>
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PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
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5. GEOGRAPHIC N	AMES:	REPORT NONE	6. BOUNDARY A	ND LIMITS: REPO	RT X NONE
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	RECORDS (Ske)	ch books, etc. DO NOT list data submi	tted to the Geodesy	Division)	
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None					
		2. VERTICA	L ÇC	NTROL IDENTIFIED	
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. PHOTO NUMBERS (Clarification of details)		···			
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LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED					
Data for objects verified by fiel	ld metl	nods are	lis	ted under 8. b	elow.
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GEOGRAPHIC NAMES: REPORT X NONE		6. BOUNDA	RYA	ID LIMITS: REP	ORT X NONE
SUPPLEMENTAL MAPS AND PLANS None					
NOTION OTHER FIELD RECORDS (Sketch books, etc. DO NOT list de	to submit	ed to the Gara	daar: 1	livision)	
2 Forms 76–40	e auviii((or to tue Geor	redy i		
Field Edit Report			_		
Field Edit Ozalids (1 paper, 1 f			•		

NOAA FORM 76-36D U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (3-72)TP-00849 RECORD OF SURVEY USE I. MANUSCRIPT COPIES DATE MANUSCRIPT FORWARDED COMPILATION STAGES MARINE CHARTS HYDRO SUPPORT DATA COMPILED DATE REMARKS Compilation complete, Class III Manuscript 8/75 11/24/75 9/15/75 pending field edit. Superseded Field edit applied. Class I Manuscript 6/07/76 2/76 Compilation complete. Superseded 5/26/77 5/77 Final Review II. LANDMARKS AND AIDS TO NAVIGATION 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH CHART LETTER DATE NUMBER REMARKS NUMBER ASSIGNED FORWARDED 7/02/76 1 Landmark for charts. 7/02/76 1 Aid for charts. July 2, 1976 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. X CONTROL STATION IDENTIFICATION CARDS; X FORM 105 TEXT SUBMITTED BY FIELD PARTIES. 3. X 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) SURVEY NUMBER JOB NUMBER TYPE OF SURVEY REVISED RESURVEY SECOND (2) DATE OF PHOTOGRAPHY DATE OF FIELD EDIT MAP CLASS EDITION □п. □ m. □ v. □ v. SURVEY NUMBER JOB NUMBER TYPE OF SURVEY RESURVEY REVISED THIRD PH-___ (3) MAP CLASS DATE OF PHOTOGRAPHY DATE OF FIELD EDIT EDITION \square III. □ııı. □ıv. □v, FINAL SURVEY NUMBER JOB NUMBER TYPE OF SURVEY REVISED RESORVÉY PH -_ (4) FOURTH DATE OF PHOTOGRAPHY DATE OF FIELD EDIT MAP CLASS EDITION □ III. □ III. □iv. □v. DFINAL



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
Santember to November 1975 and applied to the manuscripts at the

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 control. 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:

John D. Perrow, Gr.

Chief, Aerotriangulation Section

Respectfully submitted,

They O. Raborn

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VA U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (775.9)(645.3)REMARKS 8/22/75 AMC FORWARD 665.3 1205.0 DATE DATE DATE ORIGINATING ACTIVITY 39.075 27.699 λ LONGITUDE \$\phi\$ LATITUDE 6 34 David Butler 92 39 DESCRIPTIVE REPORT CONTROL RECORD 0 \prec -⊕-Φ. φ. Φ. ~ • \prec ~ \prec 0 ⊕ ~ Ф. 1927 HAND PLOTTING CHECKED BY y= COMPUTATION CHECKED BY COORDINATES IN FEET LISTING CHECKED BY STATE ZONE 7 ĸ **#** , 3 £ **پر** 'n ₽ ď £ ***** 3 ¥ ¥ **=** £ 꿈 AEROTRI-ANGULATION POINT NUMBER BATE 8/11/75 DATE CM-7415 SOURCE OF (NFORMATION (Index) G.P. Vol P. 491 JOB NO LONG HILL FIRE TOWER, 1943 Charles Parker STATION NAME TP-00849 HAND PLOTTING BY NOAA FORM 76-41 (6-75) COMPUTED BY LISTED BY MAP NO

9

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

COMPILATION REPORT

TP-00849

31. <u>DELINEATION</u>:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color photography. The quality and coverage was adequate.

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 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 September 1975 and the final field edited forms were forwarded to the Rockville, Maryland Office on June 28, 1976.

38. CONTROL FOR FUTURE SURVEYS:

None.

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: CURTIS BAY, MD., scale 1:24,000, dated 1969.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: No. 12279, scale 1:40,000, 12th Edition, dated November 9, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles Parker
Cartographic Aid
August 22, 1975

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

But C. Rauch (

ADDENDUM TO THE COMPILATION REPORT

TP-00849

FIELD EDIT

Field edit was adequate. However, contrary to the field editor's report, there is no landmark bluff delineated on this manuscript. The bluff is at the south edge of TP-00846.

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7415 (Baltimore, Md.)

TP=00849

ack CoveBar Harbor	P <u>atapsco River</u> Powhatan Beach
Beehive Cove	Riviera Beach
Big Burley Cove	Rock Creek
Cottage Grove Beach	Rock Hill Beach
Eli Cove	Rockview Beach
Green Haven	Sanders Park
High Point	Sloop Cove
Hog Neck	Stony Creek
Long Cove	Sunset Beach
Marley Neck:	Tar Cove
Mt. Pleasant Beach	Wall Cove
Nabbs Creek	Water Oak Point
Old Glory Beach	Whites Cove

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM 75-74 (7-75)			U	S.DEPARTMENT OF COMMERCE				
(i=r0)	PHO	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVEY				
		TP	- 00849					
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE				
LON, Jr.	LON,	Jr.	LON, Jr.	LON, Jr.				
CONTROL STATIONS								
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	ATIONS OF CCURACY	6. RECOVER AS OF LESS TH (Topographic	AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS				
		(10pograpme	NA	NA				
8. BENCH MARKS	9. PLOTTING (F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS				
NA			LON, Jr.	LON, Jr.				
ALONGSHORE AREAS (Nautical	Chert Date)							
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES				
TON T		7	. XX	l xx				
LON, Jr.	17. LANDMARK		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES				
	:		PHYSICAL FEATURES	CULTURAL FEATURES				
LON, Jr.	LON,	Jr.	LON, Jr.	LON, Jr.				
PHYSICAL FEATURES	· ·							
20. WATER FEATURES		21. NATURAL	GROUND COVER	22, PLANETABLE CONTOL				
LON, Jr.]	NA	NA				
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES				
NA	N/	A.	NA	XX				
CULTURAL FEATURES	.1		· · · · · · · · · · · · · · · · · · ·					
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES				
LON, Jr.	LON.	Jr.	l xx	LON, Jr.				
BOUNDARIES								
31. BOUNDARY LINES			32. PUBLIC LAND LINES					
·	A		1	NA				
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTIONS	<u> </u>	35. LEGIBILITY OF THE MANUSCRIPT				
TOM To		1	T ∩M T++	LON, Jr.				
LON, Jr. 36. discrepancy overlay	37. DESCRIPTI	L VE REPORT	LON, Jr. 38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS				
LON, Jr.	LON	Jr.	XX	LON, Jr.				
40. REVIEWER			SUPERVISOR, REVIEW SECTION					
Lowell O. Neterer,	Jr.	9/09/76	Albert C. Rauck, J	enon h				
41. REMARKS (See attached she	et)							
FIELD COMPLETION ADDITION								
script is now complete on	furnished by the cept as noted un-	e field completi der item 43.	ion survey have been applied t	o the manuscript. The manu-				
COMPILER Trene Ferk	inson	2/26/76	SUPERVISOR C. RO	unch.				
REVIEWED A. L. Shan	ds	3/09/76	Albert C. Rauck, J	r. /				
43. REMARKS								
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See Form 70-30	o, misturi	OR LIPTO O	PERATIONS, FIELD EDI	1, 10em #0.				



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

FIELD EDIT REPORT

TP-008119

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 the mean high water line were made. Because of the limited visibility into the water and lack of wire drag 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 sextant fixes or photo identification.

52. ADEQUACY OF COMPILATION

Compilation was generally adequate. Some of the shoreline areas were compiled including overhanging trees thus giving the shoreline an irregular appearance. Some of these areas are indicated on the field edit ozalid. Bulkhead areas are revised somewhat in both Stony and Rock Creeks. Numerous wrecks are indicated on this sheet, very few of which are significant hazards to navigation because most are located adjacent to the shoreline. Many areas were questioned as to whether they were landmark bluffs. Only one area was indicated as a bluff area. Compilation will be complete with the application of field edit notes.

56. GEOGRAPHIC NAMES

No comprehensive investigation of geographic names was made, however several questions pertaining to geographic names were answered. No discrepancies were found while editing this sheet, other than the questions which were answered.



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

57. LANDMARKS AND AIDS TO NAVIGATION

There is one aid to navigation to be charted on this sheet, Rock Creek Light 3.

There is one landmark to be charted on this sheet.

58.FIELD EDITOR

Field edit was performed by Lt. George W. Jamerson in October, 1975.

Respectfully submitted,

George W. Jamerson

Lt. NOAA

October 7, 1975

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REVIEW REPORT

TP-00849

SHORELINE

May 16, 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-5324, 1:10,000 scale, mapped from photography of April and May 1934. In 43 years, numerous changes have occurred - some are due to erosion, some are man-made.

In the area compared, TP-00849 supersedes T-5324 for nautical chart construction purposes. T-5324 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle CURTIS BAY, MD., 1:24,000 scale, dated 1969. A wreck mapped on the quadrangle at Lat. 39° 09' 35", Long. 76° 31' 48" is not visible on the photographs and was not observed by the field editor. No other significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the boatsheet for Survey H-9562 (AHP 10-5-75). At Lat. 39° 08' 44", Long. 76° 32' 49", two obstructions mapped as piers on the boatsheet were identified as wrecks by the field editor. This correction is reflected on the Class I and Final copies of Map TP-00849.

No other significant differences were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 12278 (549), 1:40,000 scale, 43rd Edition, dated April 3, 1976.

A wreck at Lat. 39° 09' 35", Long. 76° 31' 50" is not visible on the photographs and was not found by the field editor. This is probably the same wreck that is mapped on the USGS quadrangle, but displaced because of scale.

The name "Sloop Cove" is misplaced on the chart.

No other significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted:

Charles H. Bishop

Charles HBishop

Cartographer May 16, 1977

Approved for forwarding:

seple Woraack

Joseph W. Vonasek

Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division