TP-00063

NOAA FORM 76–35 (3–76)
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
DESCRIPTIVE REPORT
FIELD EDITED MAP
Map No. Edition No.
TP-00063 1
Job No. PH-6905
Map Classification
FINAL
Type of Survey
SHORELINE
LOCALITY
State
DELAWARE
General Locality
DELAWARE BAY
Locality CAPE HENLOPEN
CALE HENDOLEN
19 69. TO 19 70
REGISTRY IN ARCHIVES
DATE

*U. S. GOVERNMENT PRINTING OFFICE:1976-669-248

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOS PHERIC ADMIN			
	TYPE OF SURVEY	SURVEY	тр-00063
	ORIGINAL	MAPEDITI	ON NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	☐ RESURVEY	MARCIAS	s Final
DESCRIPTIVE REPORT - DATA RECORD			
PHOTOGRAMMETRIC OFFICE	REVISED		PH- <u>6905</u>
Coastal Mapping Division	LAST PRECEED		
Atlantic Marine Center Norfolk, VA	TYPE OF SURVEY	JOB MAP CLAS	PH
OFFICER-IN-CHARGE	□ RESURVEY	SURVEY D	The second secon
Roy K. Matsushige	REVISED	19TO 1	9
I. INSTRUCTIONS DATED			
1. OFFICE	2.	FIELD	
Aerotriangulation December 10, 1969 Compilation May 12, 1970 Amendment 1 April 1, 1971 Memo (Cancel field edit) December 14, 1979 Memo (Compilation Schedule) June 22, 1981		September October 7	26, 1969 7, 1969
II. DATUMS			
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	10	
2. VERTICAL: X MEAN HIGH-WATER X MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)		
3. MAP PROJECTION	4. 0	GRID(S)	
Polyconic	Delaware	ZONE	
5. SCALE 1:5,000	STATE	ZONE	
1.5,000			
III. HISTORY OF OFFICE OPERATIONS			
III. HISTORY OF OFFICE OPERATIONS OPERATIONS	NAME		DATE
OPERATIONS 1. AEROTRIANGULATION , BY	D. Norman		DATE April 1970
OPERATIONS 1. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by	D. Norman		
OPERATIONS 1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS PLOTTED BY	D. Norman J. Dempsey		
OPERATIONS 1. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	D. Norman J. Dempsey E. Homick		April 1970
OPERATIONS 1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS PLOTTED BY	D. Norman J. Dempsey E. Homick R. White		April 1970 May 1970
OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic Landmarks and aids by 2. Control and Bridge Points METHOD: Coradomat PLANIMETRY BY 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	D. Norman J. Dempsey E. Homick		April 1970
OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS METHOD: CORADOMAT 3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:5,000 CHECKED BY	D. Norman J. Dempsey E. Homick R. White A. Shands		April 1970 May 1970
OPERATIONS 1. AEROTRIANGULATION BY METHOD: ANALYTIC LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS METHOD: COTADOMAT CHECKED BY 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY SCALE: 1:5,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	D. Norman J. Dempsey E. Homick R. White A. Shands NA NA R. White		May 1970 May 1970 May 1970
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OPERATIONS 1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS METHOD: CORAdomat CHECKED BY CHECKED BY 3. STEREOSCOPIC INSTRUMENT COMPILATION CHECKED BY CHECKED BY SCALE: 1:5,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY CONTOURS BY CHECKED BY CONTOURS BY CHECKED BY CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY 6. APPLICATION OF FIELD EDIT DATA CHECKED BY 7. COMPILATION SECTION REVIEW BY	D. Norman J. Dempsey E. Homick R. White A. Shands NA NA R. White C. Bishop NA NA R. White C. Bishop L. Graves A. Shands A. Shands L. O. Neterer, Jr		May 1970 March 1972 March 1982 Mar, 1982
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(3-72)	COM	TP-00063	NATIONAL OCEAN	NC AND ATMOS	PHERIC AD	OF COMMERCE MINISTRATION DCEAN SURVEY
1. COMPILATION PHOTOGRAPHY						
CAMERA(S) Wild RC-9 "M"		TYPES OF F	HOTOGRAPHY	1	45 DESER	
Wild RC-8 "E" and "K"		LE	GEND		AE REFERE	NCE
J .		(C) COLOR		ZONE		XX STANDARD
PREDICTED TIDES REFERENCE STATION RECORDS	;	(P) PANCHRO		Eastern		·
TIDE CONTROLLED PHOTOGRA	PHY	(1) INFRARE	•	75th		DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	S ⁻	TAGE OF T	IDE
+ 69E(C)2847 thru 2851	23 Oct 1969	12:53	1:10,000	0.3 ft.	below N	1LW
69E(C)2854 thru 2858	23 Oct 1969		1:10,000	0.3 ft.	below N	1LW
69E(C)2868 thru 2873	23 Oct 1969	13:05	1:10,000	0.3 ft.	below N	IL W
69K(I)4423 thru 4427	23 Oct 1969	12:53	1:10,000	0.3 ft.	below M	1LW
69K(I)4430 thru 4434	23 Oct 1969		1:10,000	0.3 ft.		
69K(I)4456 thru 4457	23 Oct 1969		1:10,000	0.3 ft.		
69K(I) 4662 thru 4664	26 Oct 1969	09:41	1:20,000	0.1 ft.	below N	1HW
*Centers not show +Tide coordinate		-				
2. SOURCE OF MEAN HIGH-WATER		, 		·		
The mean high-w graphs. The entire	ater line was mean high-was					
3. SOURCE OF MEAN LOW-WATER OF The mean low-water p Infrared low water p The low-water l	ter line was	compiled fi			ide coo	ordinated
4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S)	SURVEYS (List o			photogrammetric		COPY USED
5. FINAL JUNCTIONS						
TP-00062	ast TP-00062	SOUT	н ТР-00062	wesi T	P-00062	
REMARKS		<u> </u>		L		
This map is an	inset of TP-0	00062.	•			

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JMBER	OBJECT NAME	
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2

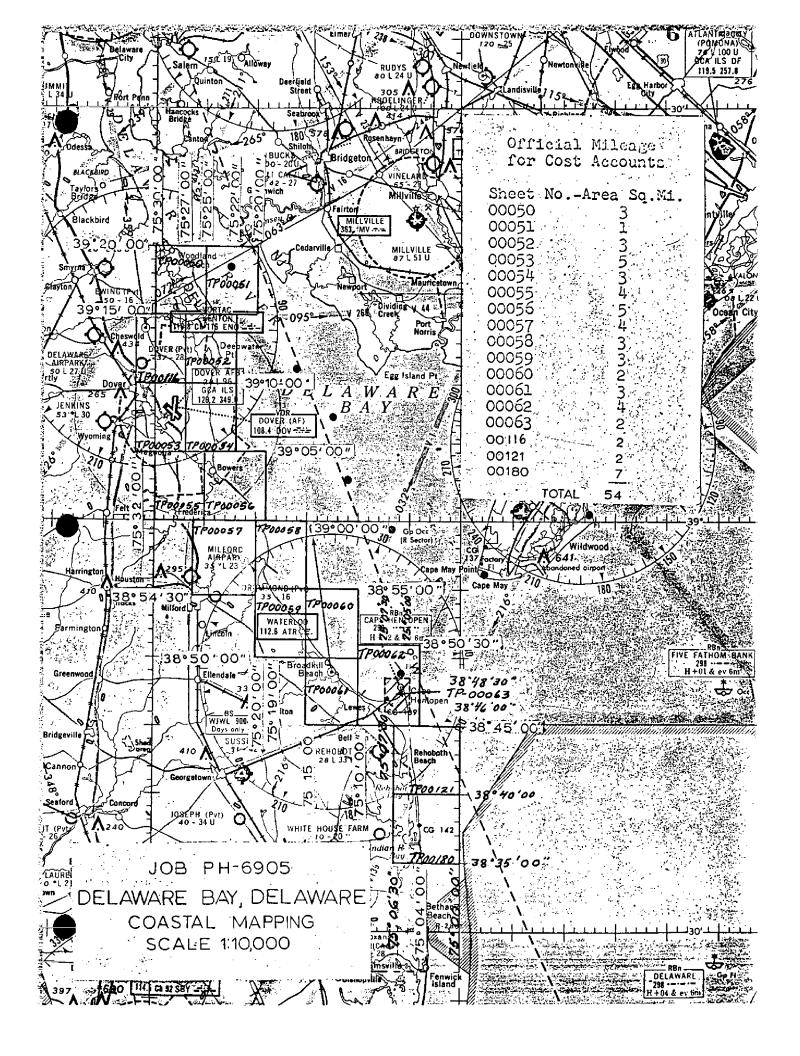
NOAA FORM 76-36C (3-72)	TP-00063	NATIONAL OCEA	NIC AND ATMOSPHERIO	NT OF COMMERCE ADMINISTRATION AL OCEAN SURVEY
	HISTORY OF FIELD	OPERATIONS	·	
I. TIELD INSPECTION OPE	RATION TELL	EDIT OPERATION		
OF	PERATION	ı	NAME	DATE
1. CHIEF OF FIELD PARTY		T 17 174.1		1070
	RECOVERED BY	J. K. Wilson None	1	Oct. 1970
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	NA	·· · ·····	
3. VERTICAL CONTROL	ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA		
		NA P. Walbolt		Oct. 1970
4. LANDMARKS AND	LOCATED (Field Methods) BY	R. Tibbetts.	P. Walbolt	Oct. 1970
AIDS TO NAVIGATION	IDENTIFIED BY	P. Walbolt		Oct. 1970
· · · · · · · · · · · · · · · · · · ·	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE BY			,
	MO INVESTIGATION		•	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Tibbetts		Oct. 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None		
II. SOURCE DATA	CNTIFIED	2 VERTICAL COL	TROL IDENTIFIED	
I. HORIZONTAL CONTROL IDE None	ENTIFIED	NA	THOE IDEATH IED	
PHOTO NUMBER	STATIONNAME	PHOTO NUMBER	STATION DES	SIGNATION
				i
3. PHOTO NUMBERS (Clarificat	tion of deteils)			
69 E(C) 2847, 28	869. 2870			
4. LANDMARKS AND AIDS TO				
See forms 76-40	for sheet TP-00062			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
			•	
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: T REPO	RT X NONE
7. SUPPLEMENTAL MAPS AND		<u> </u>		<u> </u>
8. OTHER FIELD RECORDS (SI lafield edit oza lafield edit oza		ted to the Geodesy D	ivision)	

NOAA FORM 76-36D (3-72)

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

TP-00063

			RECO	RD OF SURVE	Y USE				
I. MANUSCRI	IPT COPIES								
<u> </u>		MPIL	ATION STAGE	<u> </u>					PT FORWARDED
OA	ATA COMPILED	┼─	DATE	RE	EMA RKS		MARINE	CHARTS	HYDRO SUPPORT
_	tion complete field edit	Ма	у 1970	Class III Supersede			June 9	, 1970	<u></u>
	dit applied ion complete	No	v. 1970	Class I					
Final Re	eview	Ма	r. 1982	Final					
II. LANDMAI	RKS AND AIDS TO NAVIG	ATION							
	RTS TO MARINE CHART D			DATA BRANCH					
NUMBER	CHART LETTER NUMBER ASSIGNED	F	DATE DRWARDED			REM	ARKS		
2 Forms	<u> </u>	+		Appropriat	e forms iptive R	(76-40 eport)) are	attach	ed with
									
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	PORT TO AERONAUTICA	_	RT DIVISION,	, AERONAUTICAL	L DATA SEC	TION. D.	ATE FORW	ARDED:	
1. BF 2. CC 3. SO	RIDGING PHOTOGRAPHS; ONTROL STATION IDENT DURCE DATA (except for C CCOUNT FOR EXCEPTION	IFICA' Feograp	TION CARDS; phic Names Rep 1 Falma Ca	port) AS LISTED	s ^X 6 ∰ SUBMI	TTED BY		ARTIES.	76–40
	Duplicate copies ATA TO FEDERAL RECO				No	v 1	982		
	EDITIONS (This section :								
	SURVEY NUMBER		JOB NUMBER	₹		RE	TYPE OF S		
SECOND EDITION	DATE OF PHOTOGRAP	(2) HY	DATE OF FI	ELD EDIT	_	_	MAPCL	.ASS	URVEY
	SURVEY NUMBER		JOB NUMBER	₹		<u> </u>	□IV.	URVEY	FINAL
THIRD	TP	_ (3)	PH	·		REV		RES	JRVEY
EDITION	DATE OF PHOTOGRAP	Η̈́Υ	DATE OF FI	ELD EDIT	:ı.	□ .m.	MAP CL □IV.	ASS □v.	OFINAL .
	SURVEY NUMBER		JOB NUMBER	4		_	YPE OF S	URVEY	
FOURTH	TP	_ (4)	PH	FLD EDIT		LJ REV	ISED	RESU	RVÉY
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00063

This 1:5,000 scale shoreline manuscript is one of seventeen maps that comprise project PH-6905, Delaware Bay, Delaware. The project encompasses the western part of Delaware Bay from Woodland Beach, latitude $39^{\circ}20^{\circ}$, south to Indian River, latitude $38^{\circ}35^{\circ}$.

Correspondence from the Chief of Photogrammetry, dated December 14, 1979, called for the cancellation of field edit on TP-00050 through TP-00058 and TP-00116 and registering these as Final Class III maps. Maps TP-00059 through TP-00063, TP-00121 and TP-00180 were field edited and are to be registered as Final maps. The purpose of the maps was to provide contemporary shoreline data in the support of hydrographic operations and in nautical chart revision.

Field work prior to compilation was accomplished in October 1969. This involved the identification of horizontal control by premarking methods in order to meet aerotriangulation requirements.

Photographic coverage for aerotriangulation was provided in October 1969 using Panchromatic film with the "M" camera at 1:80,000 scale. Compilation photography was taken with color film in the "E" camera at 1:10,000 scale.

Tide coordinated, color and infrared 1:10,000 scale low water photographs, and infrared 1:20,000 scale photographs were taken in October 1969. The color photographs were taken with the "E" camera and the infrared were taken with the "K" camera.

Analytic aerotriangulation was performed at the Washington Science Center April 3, 1970.

Compilation was performed from office interpretation of both infrared and color October 1969 photography. Preparation of hydrographic support photography was done at the Atlantic Marine Center and submitted to the field in June 1970.

Field Edit was completed in October 1970. Field Edit was applied and completed at the Atlantic Marine Center in November 1970.

The final review was performed at the Atlantic Marine Center in March 1982.

This descriptive report contains all pertinent information used to compile this final map.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00063

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 PH-6905 Delaware Bay

April 3, 1970

21. Area Covered

The area covered in this project is the southwest shore of Delaware Bay. The manuscripts are TP-50 through TP-62 and TP-116 at 1:10,000 scale and TP-63 at 1:5,000 scale.

22. Method

Two strips of 1:80,000 scale panchromatic photography and one strip of 1:30,000 scale color photography were bridged by analytic aerotriangulation methods. Points were selected on the 1:80,000 scale photography common to the 1:40,000 and 1:20,000 scales to be used for compilation of the 1:10,000 scale manuscripts and as an aid during hydrography. Similarly, the 1:30,000 scale bridging photography was used to control the 1:10,000 scale photography for compilation of the 1:5,000 scale manuscript. Attached are sketches showing strips bridged and legend with fit to control.

23. Adequacy of Control

The horizontal control was adequate. Nevertheless, the following discrepancy should be noted: a substitute station was established for LEWES COAST GUARD LIFE SAVING STATION MAST, 1962 which appears in two strips. A discrepancy of 6.5 degrees in azimuth was found between the two azimuth stations from which angles were turned to the substitute station. When the position was computed using the azimuth from Delaware Breakwater West End Light, 1933 the discrepancy in both strips was approximately 13 feet. When the position was computed using the azimuth from LEWES WEST OIL FACTORY CHIMNEY, 1962 the fit to control was excellent. This latter position is evidently correct. No reason could be found for the discrepancy.

24. Supplemental Data

Elevations were taken from USGS topographic quadrangles to meet the vertical control requirements.

25. Photography

The photography was adequate.

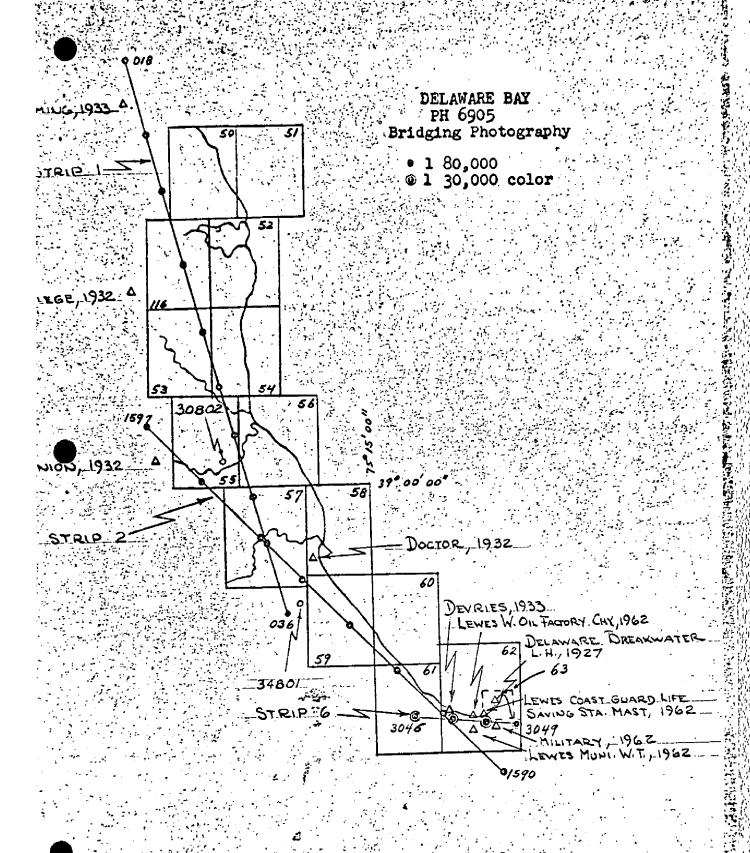
Respectfully submitted,

Don O. Norman

Don O. Norman

Approved and Forwarded,

Henry P. Eichert, Chief Aerotriangulation Section



CONTROL OSED IN ADJUSTMENT

LOSLIES OF BRIDGE TO CONTROL SHOWN

A : FLEMING 1933 SUB A (-40, +1.06) A : COLLEGE, 1932 RM2 SUB. A (+2,20,-2.51)

Δ 30802 TIE POINT Δ UNION STA. A (-6.36, +2.20)

DOCTOR, 1952 RMC (-403,16.75)

▲ 34301 TIE 120, WT (+1.92, -, 57)

MILITARY, 1962 SUB. A (+.56,+1.26)

MILITARY, 1962 SUB. B (0.0, 0.0)

A LEWES COAST GUARD LIFE SAVING STA. SUB. A (-96, -.77)

△ DEVERTES 1962 PM (+1.66, -1.83)

Δ DEVRIES, 1933 (+1.86, +.94)
Δ DOCTOR, 1932 RM 6 (0.0, 0.0)
Δ DOCTOR, 1932 RM 6 (0.0, 0.0)

STRIP 6

DEVRIES, 1962 RM (0.0,0.0)

DEVENES, 1937 SUB. A (-102,-11)

LEWES COAST GUARD LIFE SAVING STA. MAST SUULA (+ 1.05,4.06) LEWES MUNINDATER TANK, 1962 (+.75,-1.22) - Δ

LEWES W. OIL FACTORY, CAY, 1962 (+2.64, +1.36)

A

MILITARY, 1962 SUR. A (0.0,0,0) MILITARY, 1962 SUB. B (-. 81, +.46) Δ

DELAWAGE BREAKWATER L.H., 1927 (-.76, +.39)

)	
NOAA FORM 76-41 (6-75)		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD	NATIONAL	U.S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMINISTRATION	
MAP NO.	JOB NO.		GEODETIC DATUM			_
TP-00063	PH-6905		NA 1927	Coastal Mapping	ing Division, AMC	
STATION NAME	SOURCE OF	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE	GEOGRAPHIC POSITION	REMARKS	
	(Index)	NUMBER	ZONE	λ LONGITUDE		_
MILITARY (FORT MILES RANGE CONTROL TOWARD) 1962	Vol. II Pg. 156		=χ	\$38°46'32.49613"	1002.1 (848.1)	
	16. 150		=h	λ 75006'03.39557"	82.0 (1366.4)	
LEWES WEST OIL FACTORY	Vol. II		εχ	\$ 38°46'53.55492"	1651.4 (198.8)	!
CHIMNEY, 1902	Pg. 157		η̈́=	λ 75°07'00.10965"	02.6 (1445.6)	
RADIO (DEL.), 1932	GP 77 4.1		=X	φ 38 ⁰ 47'24.892"	767.6 (1082.6)	
	Vol. #1 Pg. 3		=ĥ	A 75°05"28.820"	695.6 (752.4)	
DELAWARE BREAKWATER LIGHT-			=χ	φ 38°47'49.215"	1517.6 (332.6)	
HOUSE (DEL.), 192/	Vol. #1 Pg. 73		±ĥ	λ 75°06'01.243"	30.0 (1418.0)	
FORT MILES OBSERVATION TOWER QUANT			<i>-</i> χ	\$ 38°47'17.31306"	533.9 (1316.3)	
NO 8, 1962	Fg. 154		=ĥ	λ 75005'42.83922"	1033.9 (414.2)	
FORT MILES OBSERVATION TOWER	Quad		=X	\$ 38°46'45.28642"	1396.5 (453.7)	
NO 13, 1962	Pg. 158		=ĥ	λ 75007'12.79928"	309.0 (1139.3)	
FORT MILES OBSERVATION	Quad 380751		=X	\$ 38°46'34.35507"	1059.4 (790.8)	
IOWEK, NU /, 1962	Pg. 155		y≠	λ 75 ⁰ 05'35,30368"	852.2 (596.1)	
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			ηs	γ		
			χε	ф		
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			=χ	Ф		
	:		<i>i</i> = <i>i</i>	х.		
computed by R. White		2/25/70	COMPUTATION CHECKED BY		DATE 4/30/70	
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	H IS OBSOLETE.		

NOAA FORM 76-41 (6-75)					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	/ITY
TP-00063	PH-6905		NA 1927	Coastal Mapping	ing Division, AMC
	AC ACRICO	AEROTR!~	COORDINATES IN FEET		
STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	STATE	¢ LATITUDE	REMARKS
LEWES COAST GUARD LIFE	380751		1 X		1574.4 (275.8)
	1067		<i>i</i> / _{<i>i</i>} =	λ 75007'15.52925"	374.8 (1073.4)
			χ=	ф	
			ý=	γ	
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COMPUTED BY R. White		DATE 5/20/70	COMPUTATION CHECKED BY F. Margiotta		B\$720/70
LISTED BY		DATE	ю		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	THIS OBSOLETE.] 上"

COMPILATION REPORT

TP-00063

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter and by graphic methods using color and infrared photography.

32. CONTROL

The horizontal control was adequate. See Photogrammetric Plot Report dated April 3, 1970.

33. SUPPLEMENTAL DATA

None

CONTOURS AND DRAINAGE

Contours are inapplicable to the project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line, mean low-water line, and alongshore details were compiled from office interpretation of the photographs using infrared photography that was flown at both mean high water and mean low water.

36. OFFSHORE DETAILS

Offshore details were compiled from office interpretation of the mean low water infrared and color photographs.

37. LANDMARKS AND AIDS

Appropriate copies of 76-40 forms are being submitted with this descriptive report.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00063

39. JUNCTIONS

See the attached form 76-36B, Item 5 of the descriptive report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U. S. Geological Survey Quadrangle:

Cape Henlopen, Delaware-New Jersey, scale 1:24,000, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey Charts:

No. 411, scale 1:40,000, 9th edition dated May 16, 1970 (corrected through Notice to Mariners 20-1970) and No. 1218, scale 1:80,000, 16th edition, dated October 25, 1969 (corrected through Notice to Mariners 13-1969).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by: A. White

R. White

Cartographic Technician

Date: May 21, 1970

Approved:

Albert C. Rauck, Jr.

Bit A. Barn

Chief, Coastal Mapping Section

49. NOTES FOR THE HYDROGRAPHER

Because of insufficient photo coverage in the offshore area of Cape Henlopen, the position of the breakwater is weak. The two ends of this breakwater are tied into position by two triangulation stations, but the break in tangents at the turning points are weak.

Please recover the two triangulation stations, "South Range West, 1918" and "Delaware Breakwater Front Range Lighthouse (Old tower), 1882" and give distances to the mean high water line on either side of the breakwater at those points. If the stations are not recoverable, locate the breaks in the tangents by ground survey methods. Also give measurements to the mean high water line on either side and at the ends of the breakwater from the two stations.

FIELD EDIT REPORT Job PH-6905 West Shore Delaware Bay Delaware

This report is submitted for Map Number TP-00062; it includes a 1:5,000 scale map TP-00063. The field edit was accomplished during the Summer season of 1970.

52 ADEQUACY OF COMPILATION

The compilation is generally good; and after application of field edit corrections, additions, and deletions; compilation will be adequate.

A third order traverse was run between triangulation stations RADIO 1932 and DE VRIES 1933 to test the horizontal accuracy of the maps. Thirteen points were tested, and the data was submitted to the Atlantic Marine Center for comparison and evaluation.

54 RECOMMENDATIONS

None.

55 GEOGRAPHIC NAMES

After conferring with the Chief of Division and The Geographer, it was determined that a Discrepancy Names Investigation would be adequate for all work in Jobs PH-6905 and PH-7002. This discrepancy type report is incorporated within this report.

56 SHORELINE AND ALONGSHORE FEATURES

Distances were measured to the mean high water line from a few traverse points; however in some instances it was necessary to supplement these with distances from photo points. These have been pricked on 1:5,000 ratio photos No. 69-E-2847, 2869, and 2870; and on 1:10,000 ratio photos 69-E-2889 and 2890.

All cables, docks, piers, piling, etc., were investigated and either shown or deleted on the field-edit sheet.

SUPPLEMENT TO FIELD EDIT REPORT

On October 21, 1970, the Chief of Photogrammetry, Atlantic Marine Center requested that I scale the x and y coordinates of 11 mapped points. These points had been selected by a survey party to determine the horizontal accuracy of two maps.

Maps T-00062 and T-00063 were tested by making a comparison of the scaled position with the position of these points derived from a traverse that closed better than 1 part in 39,000.

Of seven detail points located on Map sheet T-00062 (1:10,000 scale), two points were thought to be poor selections prior to scaling (62-07 is the corner of an ill-defined parking lot, 62-13 is the tangential junction of two roads). As anticipated, these two points failed to check by 17 and 34 feet respectively. Of the remaining five points of comparison, errors range from a minimum of 2 feet to a maximum of 13 feet. The average error is 8 feet.

Positions for four detail points were furnished on Map sheet T-00063 (1:5,000 scale). The errors range from a minimum of 2 feet to a maximum of 5 feet. The average error is 4 feet.

E. T. Jenkins

E. T. Jenkins

Supervisory Cartographer

ETU: khp

cc: C141, C142, C14

55 GEOGRAPHIC NAMES

These names appear on parts of both the Lewes, Delaware and the Care Henlopen, Delaware-New Jersey Preliminary Names Sheets.

NEW MANES

THE CAPES - This name applies to the area immediately northeast of the Lewes and Rehoboth Canal, to the south of Lewes, and to the North of Rehoboth.

DISPUTED NAMES

BROADKILL RIVER - Please see report for TF-00061.

DODD NECK(S)

WOLFE NECK

The family name DODD is used for this feature.

STAUFFER GLADE(R)

STAUFFERS GLADE

WOLFE GLADE

Everyone contacted locally uses the family name STAUFFER GLADE.

THE SALF FLATS(R)

FLAT SAMDS - quadrangle sheet

PEHODOTH FLATS - chart 411

THE SALT FLATS is the name used locally for this area. No one erven knew the other names.

REFERENCES

Although many persons were contacted while investigating the names, the following persons are considered as references due to both their knowledge and interest in local names and lore:

Norman H. Thomas - contractor - Milton, Delaware 19968

Joseph Lank Marshall - The Postmaster - Lewes, Delaware 19958

Carl R. Davidson - The Postmaster - Nassau, Delaware 19969

Thomas Best - store owner - Massau, Delaware 19969

Howard E. Hillman, Sr. - farmer - Massau, Delaware 19969

57 OFFSHORE FEATURES

It was necessary to locate the angle points of the two offshore breakwaters and elleven ice breakers by ground survey methods. The positions were computed by A.M.C. and by the SHIP WHITING, and are enclosed with the field edit data.

58 LANDMARKS AND AIDS

Form 567 is submitted for all nautical landmarks and fixed aids to navagation.

Harbor of Refuge North End Light was razed in August 1970 and a new light erected about 25 feet to the south-southeast. A new third-order position was determined.

The radar towers in the southeast portion of the map were razed during the 1970 Summer season.

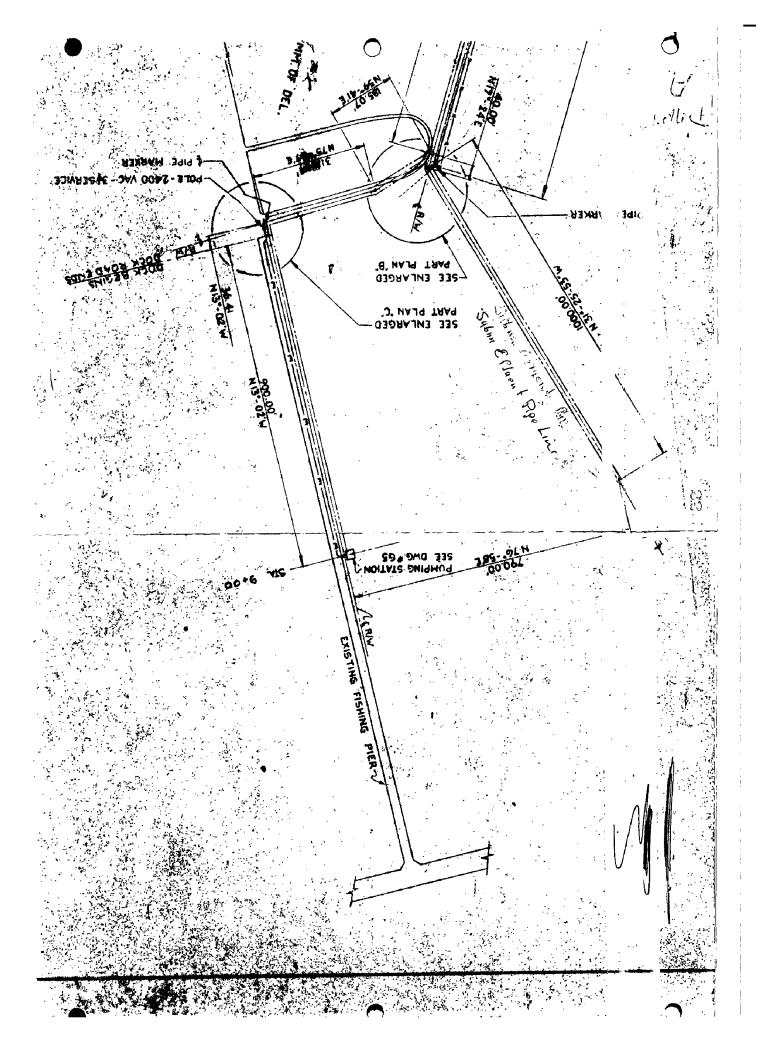
59 GENERAL STATEMENT

All field edit notes have been made in violet ink both on the field edit sheet and ratio photographs.

The Commanding Officer of the SHIP WHITING has been kept informed of all field edit operations. He has selected the Nautical Landmarks and has been furnished copies of all pertinent data.

15 October 1970 Submitted by:

Robert S. Tibbetts Surveying Technician



FIXES FOR HIGH AND LOW WATER LINE, WEST SIDE, CAPE HENLOPEN

```
1 - LEWES WEST OIL FACTORY CHIMNEY, 1962
2 - DELAWARE BREAKWATER LIGHTHOUSE, 1927
3 - HARBOR OF REFUGE LICHTHOUSE (1927)
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4 - LEWES MUNICIPAL, WATER TANK, 1962 5 - ICEBEEAKER NUMBER 1, 1970 (see field edit for TP-00062 for position)

7 - HAI	RBOR		NORTH E			(see field edit for TP-00 for position)
	1 2	#ater Line 62-21 65-20 60-142	Fix 2	2	53-44 74-34 51-25	= 2 ?
- `	2 5 4+2	28-05 78-32 23-00 ater Line F	v	6 2 5 2-3	61-28 103-30 138-56	Fix 6 6 50-53 2 5 113-51 2-7 126-40
Fix 7	6 2 5	45-42 123-00 136-15	.Fix 8	2	55-20 112-55 125-49	Fix 9 6 77-16 2 5 90-23 2-7 103-43
Fix 10	6 2 5	94-14 72-53	Fix 11 tvifle shaky	6 2 5 2	104-34 63-18	Fix 12 1 58-00 2 90 00 5 17-28

73-28 Fix 13 bup 3 4-2 60-38 70-42

REVIEW REPORT

SHORELINE

TP-00063

61. GENERAL STATEMENT:

See summary included with this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangle: Cape Henlopen, Delaware-New Jersey both 1:24,000 scale and dated 1954.

64. COMPARISON WITH HYDROGRAPHIC SURVEYS:

A comparison was made with verified copies of hydrographic surveys H-9203, H-9204 and H-9154. No significant differences were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Charts 12216, 20th edition, dated June 27, 1981, scale 1:40,000; Chart 12304, 27th edition, dated March 25, 1981, scale 1:80,000 and Chart 12214, 33rd edition, dated June 7, 1980, scale 1:80,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Lowell Neterer, Jr.

Final Reviewer

Approved for forwarding:

- 83am

Billy H. Barnes

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch, Rockville Chief, Photogrammetry Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00063

Atlantic Ocean

Breakwater Harbor

Cape Henlopen

Conrail (RR)

Delaware Bay

Lewes

The Capes See field edit report \$0hh

Approved by:

Charles E. Harrington Chief Geographer, OA/C3x5

Information of Dissemination of Project Material PH-6905

Delaware Bay

NATIONAL ARCHIVE/FEDERAL RECORD CENTER

Computer Readout
Control Station Identification Cards
Field Edit Ozalids
Field Photographs
NOAA Form 76-41 (Descriptive Report Control Record)

Project Diagrams

Plot Report

Bureau Archives

Descriptive Report Registered Maps

Reproduction Division

8x Reduction Negative of Each Maps

Office of Staff Geographer
Geographer Names Standard

)					
NOAA FORM 76-40 (8-74)	-40		FAN	JONAL OCE	U.S	. DEPARTME	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
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	ľ	TSTATE		LOCALITY			DATE		>
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	PH-6905	TP-00063	NA 1927	7			METHOD AND DATE OF LOCATION	E OF LOCATION	
				POSITION	NOI		(See instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION	NO	LATITUDE	UDE	LONGITUDE	'UD€		_	AFFECTED
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LIGHT	Delaware Breakwater West *	est End Light l	38 48.0		75 07.0				12216 12304 12214
				15.0		8 9			12216
LIGHT	Lewes Breakwater Front Light	t Light	38 47	13.0	75 07	0.		<u>.</u>	12304
!				486	- 1	163		July 15, 19/0	12214
LIGHT	Lewes Breakwater Middle Light	le Light	38 47	6.7	75 07	18.7		F-L July 15, 1970	12216 12304 12214
									12216
BELL	Lewes Ferry Terminal]	Fog Signal	38 47.0		75 07.2				12304 12214
	*This light was reest	reestablished in 1973.							
									19916
RADIO BEACON	Cape Henlopen Radio beacon	eacon	38 47.6		75 05.5				12304 12214
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4 - Resection 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field obser-	EW POSITION DETERMINED nter the applicable dat P - Located Vis Verified - Triangulation 5 - Traverse 6 - Traverse 6 - Traverse 7	OFFICE DENTIFIED AND LOCATED OBJECTS 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	INSTRUCTIONS FI	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FUSITIONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	RESPONS
Enter 'V-Vis.' and date. Example: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by obotogrammetric methods.	<pre>## When a landmark or aid which is also a tri- angulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</pre>	B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)	NAME	RESPONSIBLE PERSONNEL

NOAA FORM 75-40 (8-74)

HYDROGRAPHIC PARTY

GEODETIC PARTY

PHOTO FIELD PARTY

COMPILATION ACTIVITY

FINAL REVIEWER

GUALITY CONTROL & REVIEW GRP. (See reverse for responsible personnel) AFFECTED CHARTS 12216 ORIGINATING ACTIVITY 12216 12304 12216 12304 12304 12214 12304 12214 12304 12214 7777 12214 1970 1970 1970 1970 1970 1970 METHOD AND DATE OF LOCATION (See instructions on reverse side) FIELD une 15, une 15, une 15, rune 15, une 15, fune 15, F - V - 1'-V-1 F-V-1-V-1F-V-1U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION CHARTS 1970 DATE OFFICE May South Shore Delaware Bay D.P. Meters been inspected from seaward to determine their value as landmarks SURVEY NUMBER DATUM 1033.9 309.0 03.40 35.30 852.2 00.11 12,80 42.84 02.6 30.4 82.0 735 LONGITUDE 30 05 05 90 07 07 75 75, 75 75 75 75 ۰ POSITION 1651.4 1396.5 1059.4 LOCALITY D.M. Meters 1002.1 53,55 34,36 32,50 533.9 45.28 17.31 38.9 1201 NA 1927 LATITUDE 46 46 46 94 47 47 ۰ 38 38 38 38 38 38 Delaware Show triangulation station names, where applicable, in perentheses) 13, Tower, concrete, with white frame bldg. on top Ht. = 60 (80) ft. Lewes, West Oil Factory Chimney, 1962) Ht. = 180 (188) ft. <u>«</u> 7, ft. DESCRIPTION (Record reason for deletion of landmark or aid to navigation. No. No. Š. Ht. = 85 (120)TP-00063 (Fort Miles, Observation Tower 1962) Ht. = 85 (95) ft. (Fort Miles, Observation Tower REPORTING UNIT (Field Part, Ship or Office) Coastal Mapping Section (Fort Miles Observation Tower Tower, concrete, observation Tower, concrete, observation Tower, concrete, observation Tower, concrete, observation (1962) 'Ht. = 74 (120) ft. Ht. = 85 (92) ft. The following objects HAVE HAVE NOT OPR PROJECT NO. JOB NUMBER AMC, Norfolk, VA Stack, red brick (Military, 1962) PH-6905 1962) Replaces C&GS Form 567. X TO BE CHARTED TO BE REVISED TO BE DELETED NOAA FORM 76-40 CHARTING NAME TOWER TOWER TOWER TOWER TOWER STACK

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD			PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)
FUSITIONS DETERMINED AND/OR VERIFIED			FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
Z.	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF (Consult Photogrammetric Instructions No. 64,	METHOD AND DATE OF LOCATION'	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month,	TED OBJECTS (including month,	" = 1	Cont'd) Photogrammetric field positions** require entry of method of location or verification,
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FIELD i. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as F - Field P - Photogrammetric L - Located Vis - Visually V - Verified l - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	ON STATION RECOVERED mark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery. Triang. Rec. P-12-75
on 7 - sitions* requ	Planetable Sextant ire entry of method of field work.	<pre>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V*Vis.' and date. EXAMPLE: V-Vis. 8-12-75</pre>	UALLY ON PHOTOGRAPH te.
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD PO entirely, or in part, up	IC FIELD POSITIONS are dependent in part, upon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	d by field obser- round survey methods.	3	Ġ.

NOAA FORM 70-40 (8-74)

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	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
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			Full Part Before After Verification Review Inspection Signed Via
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