NQAA FORM 76-35 (3-76)					
U.S. DEPARTMENT OF COMMERCE					
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY					
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DESCRIPTIVE REPORT					
THIS MAP EDITION WILL NOT BE FIELD EDITED					
Map No. Edition No.					
TP-00053 1					
Job No.					
PH-6905 Map Classification					
•					
Class III (FINAL) Type of Survey					
SHORELINE					
LOCALITY					
State					
DELAWARE					
General Locality					
DELAWARE BAY					
Locality					
ST. JONES RIVER					
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1969 TO 19					
REGISTRY IN ARCHIVES					
DATE					

*U.S. GOVERNMENT PRINTING OFFICE:1976-669-24

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

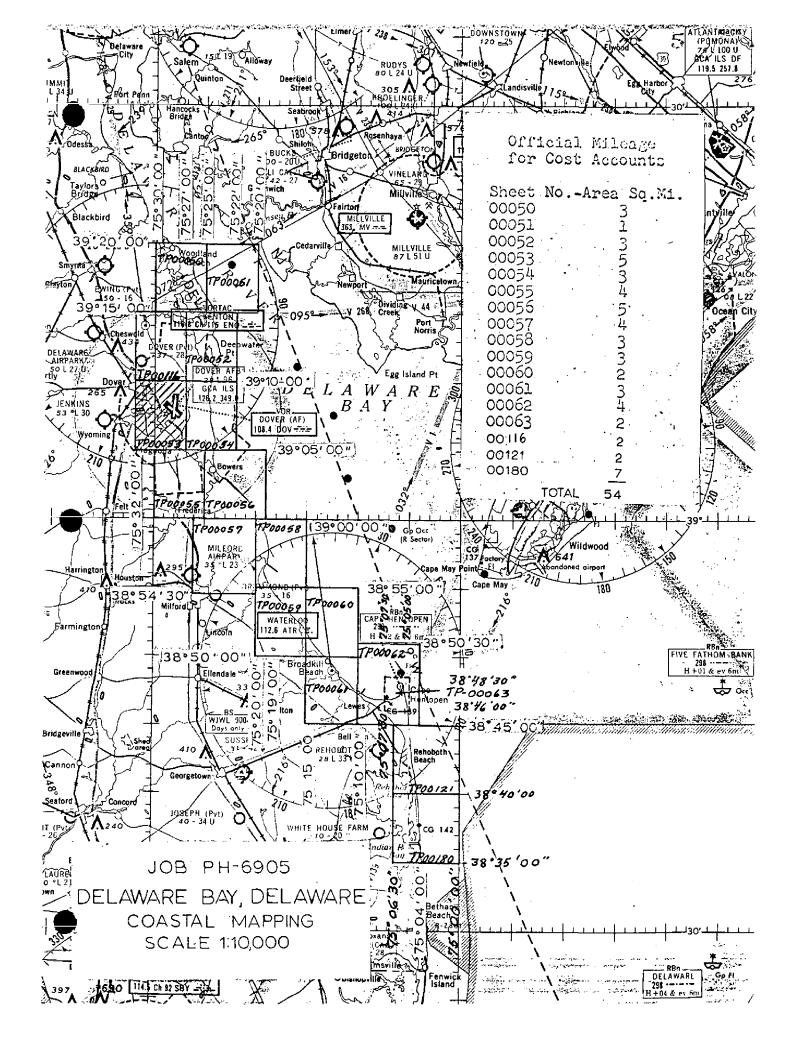
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Coastal Mapping Division, Norfolk, VA OFFICER-IN-CHARGE ROY K. Matsushige, CDR I. INSTRUCTIONS DATED 1. OFFICE Aerotriangulation Compilation May 12, 1970 Amendment I April 1, 1971 Memo (Cancel field edit) December 14, 1979 Memo (Completion Schedule) June 22, 1981 II. DATUMS 1. NORIZONTAL: MEAN LOW-WATER Delaware 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Annalytic LANDMARKS AND AIDS & TATE II. AEROTRIANGULATION METHOD: Coradomat COMPLIANT LANDMARKS AND LOW-WATER METHOD: Coradomat CHECKED BY J. Dempsey March 1971 METHOD: Coradomat PLANIMETRY BY E. Bichner Sept. 1971 NSTRUMENT: Wild B-8 SCALE: 1:10,000 4. MANUSCRIPT DELINEATION PLANIMETRY BY E. Bichner METHOD: Mar. 1972 CHECKED BY N. White & A. Shands Sept. 1971 NSTRUMENT: Wild B-8 SCALE: 1:10,000 PLANIMETRY BY E. Bichner METHOD: Mar. 1972 CHECKED BY N. White & A. Shands Sept. 1971 NSTRUMENT: Wild B-8 SCALE: 1:10,000 PLANIMETRY BY E. Bichner METHOD: Mar. 1972 CHECKED BY N. White & A. Shands Sept. 1971 NSTRUMENT: Wild B-8 SCALE: I. 10,000 PLANIMETRY BY E. Bichner MAR. 1972 CHECKED BY N. MA
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METHOD: Smooth Drafted
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SCALE: 1:10,000 HYDRO SUPPORT DATA BY E. Bichner March 1972
CHECKED BY B. Wilson April 19/2
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY B. Wilson April 1972
6. APPLICATION OF FIELD EDIT DATA CHECKED BY None None
7. COMPILATION SECTION REVIEW Class III BY B. Wilson April 1972
7. COMPILATION SECTION REVIEW Class III by B. Wilson April 1972 8. FINAL REVIEW Class III by L. O. Neterer, Jr. Sept. 1981
8. FINAL REVIEW Class III BY L. O. Neterer, Jr. Sept. 1981

SUPERSEDES FORM C&GS 181 SERIES CHUI, TUU.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B (3-72)				MATTORAL GOL			C ADMINISTRA	
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1. COMPILATION P	HOTOGRAPHY				<u> </u>			
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69 E (C)-3072	thru 3074	Oct. 24, 69	11:29	1:40,000	+3.	2 above	MLW	
69 E (C)-2981				1:20,000	+0.	l above	MLW	
6 9 к (I)-4553	thru 4560	Oct. 23, 69	14:59	1:20,000	+0.	l above	MLW	
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Camera focal	length: E	= 152.71, K	= 151.77		j			
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REMARKS + A11			om brearc	ted tides, at	. muraer	KTII KIV	er Entran	
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2. SOURCE OF MEA								
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OAA FORM 76-36C 3-72)	mp 00050	NATIONAL OCEA	U. S. DEPARTMEN NIC AND ATMOSPHERIC NATIONAL	
	TP-00053 HISTORY OF FIELD	OPERATIONS.		
TT FIELD INSPECTION	OPERATION (Premarking)	D EDIT OPERATION.		
	OPERATION	N	AME	DATE
. CHIEF OF FIELD PAR	TY			
	RECOVERED BY	J. K. Wilson None		1969_
. HORIZONTAL CONTRO		None		
NOMEON AL CONTIN	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	NA		
. VERTICAL CONTROL	ESTABLISHED BY	NA		
	PRE-MARKED OR IDENTIFIED BY	NA		
	RECOVERED (Triangulation Stations) BY	None		
LANDMARKS AND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
GEOGRAPHIC NAMES	COMPLETE		}	
INVESTIGATION	SPECIFIC NAMES ONLY			
	M NO INVESTIGATION			
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None		
BOUNDARIES AND LIM	ITS SURVEYED OR IDENTIFIED BY	None		
. SOURCE DATA				
HORIZONTAL CONTRO	DL IDENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
None		NA NA	·	·
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. PHOTO NUMBERS (Cla	rification of details)			
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None				
. LANDMARKS AND AIDS	TO NAVIGATION IDENTIFIED			
None				
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. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AND	LIMITS: REPORT	XX NONE
SUPPLEMENTAL MAPS	AND PLANS			
None				
	DS (Sketch books, etc. DO NOT list data submit	ted to the Geodesy Di	vision)	
None				
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NOAA FOI (3-72)	PRM 76-36D	_		NATIONAL OC	EANIC A		NT OF COMMERCE
			PP-00053 PRD OF SURVE	EY USE			
I. MANUS	CRIPT COPIES						
	CO	MPILATION STAGE	<u>.s</u>			DATE MANUSCR	IPT FORWARDED
	DATA COMPILED	DATE	R/	EMARKS		MARINE CHARTS	HYDRO SUPPORT
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00053

This 1:10,000 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°20' south to Indian River Inlet, latitude 38°35'.

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 Class III maps. Maps TP-00059 through TP-00063, TP-00121 and TP-00180 are to be registered as Class I.

No contemporary hydrographic survey was accomplished in the area commonito this Class III map.

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

Photographic coverage was provided in October 1969 for aerotriangulation using panchromatic film with the "M" camera at 1:80,000 scale. Compilation photography was color film with the "E" camera at 1:20,000 scale.

The low water infrared photography taken with the "K" camera and 1:20,000 color photography were taken in tandem. The predicted tide tables on the Murderkill River Entrance subordinate station, were used to determine the stage of tide, which was +0.1 foot above mean low water.

Analytic aerotriangulation was performed at the Washington Science $^{\circ}$ Center April 1970.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1969 photography in March 1972. No copies of this Class III map were submitted for field edit.

Final review was performed at the Atlantic Marine Center in July of 1981. Cancellation of field edit requires this map to be registered as a final Class III map.

This Descriptive Report contains all pertinent information used to compile this final Class III map.

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

FIELD INSPECTION

TP-00053

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.

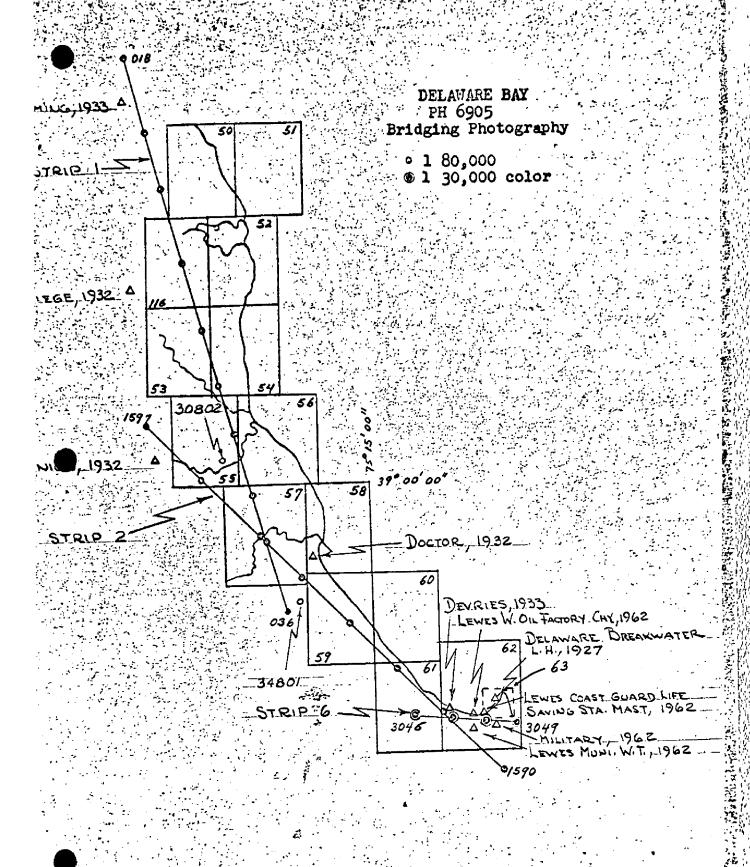
Respectfully submitted,

Don O. Norma

Don O. Norman

Approved and Forwarded,

Henry P. Eichert, Chief Aerotriangulation Section



CONTROL OSED IN CONTROL

CLOSURES OF BRIDGE TO CONTROL SHOWN.

CONTROL USED AS CHECK.

Francisco, 1933 Sus. 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) Δ Doctor, 1932 RMG (-4.63, +6.75)

▲ 34301 TIE POINT (+1.92, -. 57)

S. GARG

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

MILITARY, 1962 SUB. B (0.0, 0.0) LEWES COAST GUARD LIFE SAVING STA. SUB. A (-96, -.77)

Δ DEVERS, 1962 PM (+1.66, -1.83.)

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

STRIP 6

DEVRIES, 1962 RM (0,0,00)

DEVRIES, 1937 SUB. A (-.02,-,11)

LEWES COAST GUARD LIFE SAVING STA MAST SUULA (+ 1.05, 4.06). LEWES MUNI. WATER TAINE, 1962 (+.75, -1.22)

LEWES W. OIL FACTORY CHY, 1962 (+2.54, +.36)

MILITARY, 1962 SUE. A (0.0,0.0)

MILITARY, 1502 SUB. (-181; + 45)

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

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION Coastal Mapping Division, AMC REMARKS DATE DATE DATE ORIGINATING ACTIVITY λ LONGITUDE \$\phi\$ LATITUDE GEOGRAPHIC POSITION DESCRIPTIVE REPORT CONTROL RECORD Θ. Θ-Ф. ~ Φ-⊕ ~ 0 ~ ↔ ~ ⊕ ~ ⊕-~ Φ. \prec HAND PLOTTING CHECKED BY COMPUTATION CHECKED BY N. A. 1927 COORDINATES IN FEET LISTING CHECKED BY STATE_ ZONE ۲ Ë, ž £ ¥ *-b* ***** × £ ***** * 7 7 ž 'n ₩, £ ≒, £ £ AEROTRI-ANGULATION POINT NUMBER DATE DATE DATE SOURCE OF INFORMATION (Index) PH-6905 STATION NAME TP-00053 HAND PLOTTING BY None NOAA FORM 76-41 (6-75) COMPUTED BY LISTED BY

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

COMPILATION REPORT

TP-00053

DELINEATION

Delineation was by the Wild B-8 stereoplotter, using 1:40,000 scale photography to compile the streams in the northeast corner of the manuscript and using 1:20,000 scale color photography to compile the St. Jones River northwest to Lebanon.

Graphic compilation of the St. Jones River from Lebanon to the northwest limits of navigation using photographically identified points supplied from the analytic bridge.

32. CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated 3 April 1970.

33. SUPPLEMENTAL DATA

None

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.

The mean high water line and alongshore details were delineated by the Wild B-8 stereoplotter and by graphic compilation from office interpretation of the photographs.

36. OFFSHORE DETAILS

All offshore details were compiled from office interpretation of the photographs. No unusual problems were encountered.

37. LANDMARKS AND AIDS

Appropriate copies of 76-40 forms are being submitted with this Descriptive Report.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Refer to the Data Record 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 Quadrangles:

Dover, Delaware; Frederica, Delaware; Little Creek, Delaware; and Wyoming, Delaware, all 1:24,000 scale and dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey Chart: 1218, 16th edition, dated October 25, 1969 (corrected through Notice to Mariners 43-1969).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Eugene Bichner

Cartographic Technician

Date: March 2, 1972

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

REVIEW REPORT

SHORELINE

TP-00053

61. GENERAL STATEMENT:

See Summary included with this report for this final Class III map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangles; Dover, Delaware; Frederica, Delaware; Little Creek, Delaware; and Wyoming, Delaware, all are 1:24,000 scale and dated 1956.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area covered by this final Class III map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with N.O.S. chart 12304, 27th edition, March 28, 1981, 1:80,000 scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Lowell O. Neterer. Jr.

Final Reviewer

September 10, 1981

Approved, for forwarding:

Billy H. Barnes

Chief, Photogrammetric Branch, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00053

Barkers Landing

Beaver Gut Ditch

Capitol Park (Ppl)

Cypress Branch

Cypress Pond

Dover

Dover Air Force Base

Isaac Branch

Lebanon

Little River

Pipe Elm Branch

Puncheon Branch

St. Jones River

Tidbury Creek

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

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.

 2. In "Remarks" column cross out words that do not apply.

 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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