TP-00054

NOAA FORM 76-35 (3-76)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED
Map No. Edition No.
TP-00054 1
Job No.
PH-6905
Map Classification
Class III (FINAL)
Type of Survey
SHORELINE
LOCALITY
State
DELAWARE
General Locality
DELAWARE BAY
Locality
LITTLE RIVER
<u></u>
1969 TO 19
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 ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP-00054
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	XX ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III (FINAL)
	REVISED	јов РН- <u>6905</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDI	NG MAP EDITION
Coastal Mapping Division Norfolk, VA	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL,	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
Roy K. Matsushige, CDR	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation December 10, 1969 Compilation May 12, 1970 Amendment April 1, 1971 Memo (Cancel field edit) December 14, 1979 Memo (Completion Schedule) June 22, 1981	Field Amendment I	September 26, 1969 October 7, 1969
II. DATUMS		
I. HORIZONTAL: XX 1927 NORTH AMERICAN	OTHER (Specify)	
MEAN HIGH-WATER XX MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)	
3. MAP PROJECTION	4. G	RID(S)
Polyconic	Delaware	ZONE
5. SCALE	STATE	ZONE
1:10,000		
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	D. Norman	April 1970
1. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by	D. NOLHAH	April 1970
2. CONTROL AND BRIDGE POINTS PLOTTED BY	J. Dempsey	March 1971
METHOD: Coradomat CHECKED BY	E. Homick	March 1971
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	E. Bichner	August 1971
COMPILATION CHECKED BY	R. White	August 1971
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
SCALE: 1:10,000 CHECKED BY	NA B. Bisland	A
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	E. Bichner A. L. Shands	August 1971 Sept. 1971
CONTOURS BY	NA	верс. 17/1
метноо: Smooth Draft снескер ву	NA	
HYDRO SUPPORT DATA BY	E. Bichner	August 1971
scale: 1:10,000 CHECKED BY	A. L. Shands	Sept. 1971
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	A, L. Shands	Sept. 1971_
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	None None	
7. COMPILATION SECTION REVIEW Class III BY	A. L. Shands	Sept. 1971
8. FINAL REVIEW Class III BY	L. O. Neterer, Jr	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L. O. Neterer, Jr	. May 1982
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		
	H. D. VISTA	Man 10 1983

SUPERSEDES FORM CAGS 181 SERIES Chici, Pario.S. G.P.O.d.1972-769382/582 REG.#6

NOAA FORM 76-36B (3-72)					HATIO			ATHOUGH	RTMENT	DMINISTRAT
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xBridging photo 2. SOURCE OF MEAN The mean high-water parts 3. SOURCE OF MEAN The mean infrared means	HYDROGRAPHI DATE(S)	R MEAN Leer line er line er phot	e was was (ograph	compiled W-WATER LIN compiled nly those surv	NE: from the	ne above	e liste	ed tid	le coo	rdinated
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NUAA FORM 76~36C (3-72)	TP-00054 HISTORY OF FIELD	NATIONAL OCEANIC AND A	DEPARTMENT OF COMMERCE TMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
I. XX FIELD INSPECTION OPE	RATION (Premarking) 🗀 FIEL	DEDIT OPERATION.	
01	PERATION	NAME	DATE
I. CHIEF OF FIELD PARTY		J. Wilson	Oct. 1970
	RECOVERED BY	None	
2. HORIZONTAL CONTROL	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
	RECOVERED BY	NA	
3. VERTICAL CONTROL	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY.	NA	
R	ECOVERED (Triangulation Stations) BY	None	
4. LANDMARKS AND	LOCATED (Field Methods) BY	None	
AIDS TO NAVIGATION	IDENTIFIED BY	None	
	TYPE OF INVESTIGATION		
5. GEOGRAPHIC NAMES	COMPLETE BY	·	
INVESTIGATION	SPECIFIC NAMES ONLY		•
	XX NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	<u></u>
II. SOURCE DATA		Le MESTICAL CONTROL (CE	WITH THE
1. HORIZONTAL CONTROL IDI	ENTIFIED	2. VERTICAL CONTROL IDE	N I I I I I I I
None		NA NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	TATION DESIGNATION
3. PHOTO NUMBERS (Clarifica)	tion of details)		
None			
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED		
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
	4414		
S GEOGRAPHIC NAMES:	C BERORT FM	4 BOUNDARY AND COURT	Depend Marie
5. GEOGRAPHIC NAMES: 7. SUPPLEMENTAL MAPS AND	PLANS	6. BOUNDARY AND LIMITS:	REPORT XX NONE
None 8. OTHER FIELD RECORDS (SI	ketch books, etc. DO NOT list data submit	ted to the Geodesy Division)	
None			·*·

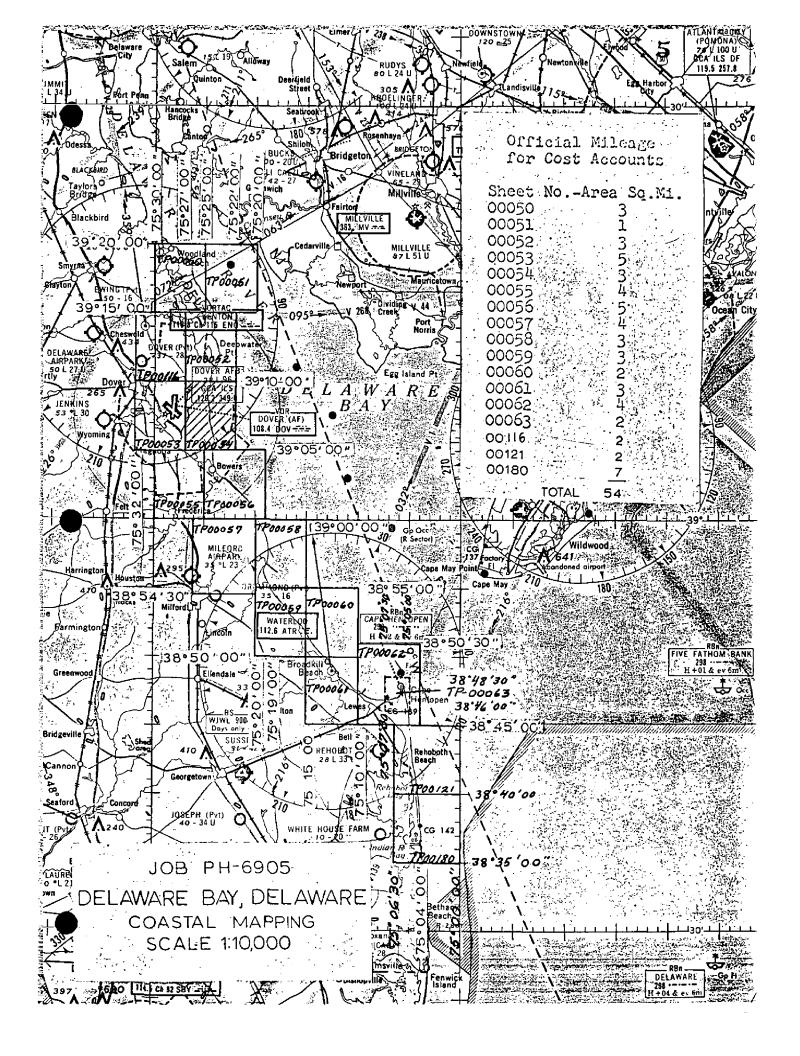
NOAA FORM 76-36D

(3-72)

TP-00054

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

		RECO	RD OF SURVE	Y USE		TP-00054
I. MANUSCRI	PT COPIES					
	CO	MPILATION STAGE	5		DATE MANUSCRI	IPT FORWARDED
	TA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPOR
	tion complete field edit	August 1971	Class	<u>III</u>		
Final Re	eview, Class III	Sept. 1981	Final Cla No field	ss III map edit performe	d	
	RKS AND AIDS TO NAVIGA					
1. REPOR	TS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		REM	ARKS	
		_				
=	PORT TO MARINE CHART					
	PORT TO AERONAUTICAL		<u>AERONAUTICAL</u>	L DATA SECTION. D	ATE FORWARDED:	
1. B	L RECORDS CENTER DAT RIDGING PHOTOGRAPHS; DINTROL STATION IDENTI DURCE DATA (except for G	X DUPLICATE FICATION CARDS; eographic Names Rej		S SOR SUBMITTED BY		
4. 🔀 D/	ATA TO FEDERAL RECOR	RDS CENTER. DAT	E FORWARDED:	NOU 190	82	-
	EDITIONS (This section s					· · · · · · · · · · · · · · · · · · ·
-··	SURVEY NUMBER	JOB NUMBER	a		TYPE OF SURVEY	
SECOND		(2) PH		. URE	VISED RES	SURVEY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT		MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBER	₹		TYPE OF SURVEY	
THIRD EDITION	TP.			∐ RE\	VISED RES	JURVEY
				□ս. □յո.	□ıv. □v.	FINAL
	SURVEY NUMBER	JOB NUMBER			TYPE OF SURVEY	
FOURTH	TP			LJ REV	VISED RES	URVĒY
EDITION					MAP CLASS □ìV. □V.	FINAL



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

TP-00054

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 $39^{\circ}20'$, south to Indian River, latitude $38^{\circ}35'$.

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. Map TP-00059 through TP-00063, TP-00121, and TP-00180 were field edited and are to be registered as Class I maps.

No contemporary hydrographic survey was accomplished in the area common to 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. Tide coordinated infrared high and low water photography was taken using the "K" camera at 1:20,000 scale; the low water infrared photographs were taken in tandem with the hydro support photography.

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

Compilation was performed at the Atlantic Marine Center, August 1971. No copies of this Class III map were submitted for field edit.

During final review, which was performed at the Atlantic Marine Center in September 1981, it was found that visible aids to navigation which were visible on the photography are no longer listed nor charted. These aids were removed. Cancellation of field edit requires this map to be registered as a final Class III map compiled from office interpretation of the 1969 photography.

This descriptive report contains all pertinent information used to compile the final Class III map.

The original base manuscript and all pertinent data was forwarded to Washington for final registration.

FIELD INSPECTION

TP-00054

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.

-2-

25. Photography

The photography was adequate.

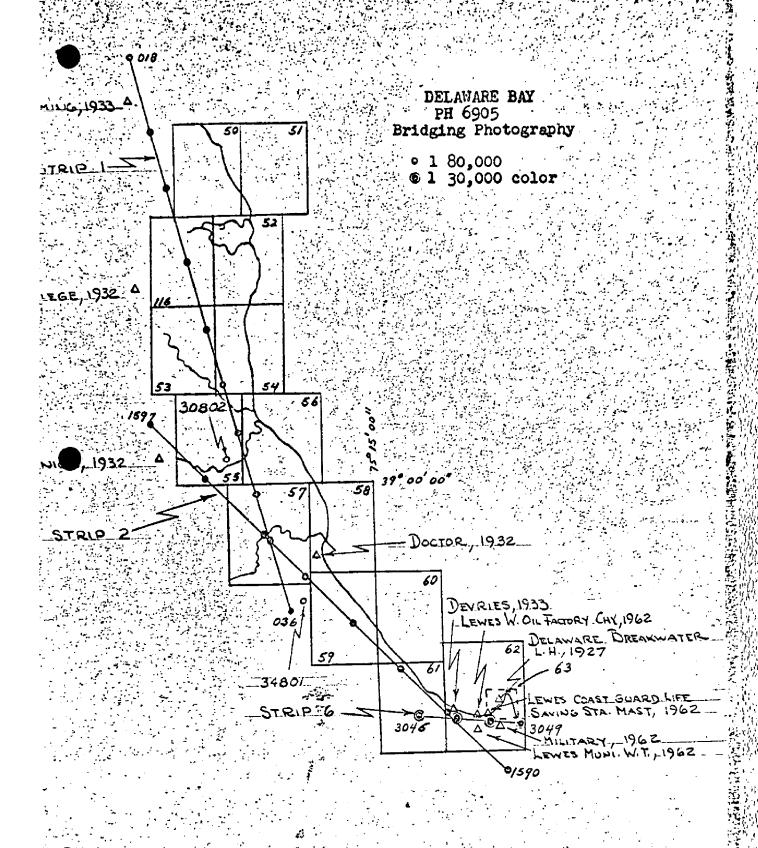
Respectfully submitted,

Don O Norma

Don O. Norman

Approved and Forwarded,

Henry P. Eichert, Chief Aerotriangulation Section



CONTROL COSCO IN COST MONTHON

CLOSURES OF BRIDGE TO CONTROL SHOWN

CONTROL USED AS CHECK.

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

1 30802 TIE POINT 1 UNION STA. A (-6.36, +2.28)

△ DOCTOR, 1952 RM6 (-4.83,+6.75) ▲ 34301 TIE POINT (+1.92, -.57)

STRIP 2

Δ MILITARY, 1962 DUB. A (+.56,+1.26)

MILITARY, 1962 DUB. B (0.0, 0.0)

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

Δ DEVRIES, 1962 RM (+1.66, -1.83.)

DEVRIES, 1933 (+1.86, +.94)

DOGTOR, 1932 RM 6 (0.0, 0.0)

STRIP 6

DEVRIES, 1962 RM (0,0,0.0)

DEVERIES, 1933 SUB A (-.02,-,11)

LEWES COAST GUARD LIFE SAVING STA MAST SUBA (+ 1.05, 4.06).

LEWES MUNI. WATER TANK, 1962 (+,75,-1,22)

LEWES MUNI. WATER TANK, 1962 (+2.54,+.36)

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

MILITARY, 1962 SUB. A (0.0,0.0)

MILITARY, 1962 SUB. D (-,81,+.46)

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

NOAA FORM 76-41				0.5. 0	DEPARTMENT OF COMMERCE
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	ON BOL		GEODETIC DATUM	ORIGINATING ACTIVITY	ITY
TP-00054	PH~6905	2	N. A. 1927	Coastal Mapping	ping Division, AMC
	SOURCE OF	AEROTRI-	COORDINATES IN FEET		
STATION NAME	INFORMATION (Index)	POINT NUMBER	STATE	φ LATITUDE λ LONGITUDE	REMARKS
			=χ	ф	
None			<i>β</i> =	γ	
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			y=	γ	
			=χ	ф	
			<i>i</i> h=	۲	
			=X	\$	
			= <i>h</i>	۲	
			-χ	ф	
			±ĥ	۲	
			-χ	ф	
			lys .	γ	
			-χ	ф	
			y=	٧	
			=χ	φ	
			<u>y</u> =	γ	
			χ=	ф	
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			-χ	ф	
	_		η=	~	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	TH IS OBSOLETE.	

COMPILATION REPORT

TP-00054

31. DELINEATION

The 1:40,000 scale color photography was used in the Wild B-8 stereoplotter to compile inshore detail and to drop detail points to control the 1:20,000 scale high and low water infrared photography. There were three strips of photography taken at 1:20,000 scale. The low-water infrared and the color strips were flown in tandem. The high water infrared was a singular strip. The 1:20,000 photography was ratioed to 1:10,000 scale with the infrared being used to compile the high and low-water lines and the color ratios being processed for hydro support.

There was no field inspection prior to compilation.

32. CONTROL

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

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line and alongshore details were compiled from office interpretaiton of the photographs using the stereoplotter.

36. OFFSHORE DETAILS

All offshore details were compiled by office interpretation of the photographs.

37. LANDMARKS AND AIDS

Appropriate copies of the 76-40's are submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00054

39. JUNCTIONS

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

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. quadrangles:

Frederica, Delaware, scale 1:24,000, dated 1956, and Little Creek, Delaware, scale 1:24,000, dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with chart 1218, scale 1:80,000, 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 W. Bichner Cartographic Technician

Bely A Barn

September 1,11971

Approved:

for A. C. Rauck, Jr.

Chief, Coastal Mapping Section

REVIEW REPORT

SHORELINE

TP-00054

61. GENERAL STATEMENT:

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with U.S.G.S. quadrangles, Frederica, Delaware and Little Creek, Delaware both dated 1956 at 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area pertaining to 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 the requirements for the National Standards of Map Accuracy.

Submitted by:

Lowell O. Neterer, Jr.

Final Review

October 7, 1981

Approved for forwarding:

Billy H. Barnes

Chief, Photogrammetric Branch, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00054

Cattail Gut

Delaware Bay

Kitts Hummock (Ppl)

Lewis Ditch

Little Creek (Ppl)

Little River

Pickering Beach (Ppl)

Pipe Elm Branch

St. Jones Neck

Sand Ditch

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
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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