TP-00180

NOAA FORM 76 (3-76) U.S. DEPARTMENT OF NATIONAL OCEANIC AND ATMOSPH NATIONAL OCEAN	COMMERCE IERIC ADMINISTRATION
DESCRIPTIVE	REPORT
Map No.	Edition No.
TP-00180	11
Job No.	
PH-6905 Map Classification	
FINAL	
Type of Survey	
SHORELINE	
LOCALIT	Y
State	
DELAWARE	
General Locality	
DELAWARE BAY	
Locality	
INDIAN RIVER INLET	
19 69 TO 19	770
REGISTRY IN AR	CHIVES
DATE	

ATT C. CANNED MARKET DE INTERNA CHERREN 1974_449...24

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-00180
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	X ORIGINAL	MAP EDITION NO. (1)
	M OKIGINAL	
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS FINAL
	REVISED	лов РН 6905
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division, AMC	TYPE OF SURVEY	JOB PH
Norfolk, VA	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE Roy K. Matsushige	RESURVEY	SURVEY DATES:
Roy R. Matsusinge	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation December 10, 1969	Field	September 26, 1969
Compilation May 12, 1970	Amendment 1	October 7, 1969
Amendment 1 April 1, 1971		
Memo (Cancel field edit) December 14, 1979		
Memo (Compilation Schedule) June 22, 1981		
II. DATUMS		
1. HORIZONTAL: XX 1927 NORTH AMERICAN	OTHER (Specify)	
1. HORIZONTAL: 1927 NORTH AMERICAN	A=U=0 /A // /A	
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER MEAN SEA LEVEL		
3. MAP PROJECTION	4.	GRID(S)
	STATE	ZONE
Polyconic	Delaware	
5. SCALE	STATE	ZONE
1:10,000		
III. HISTORY OF OFFICE OPERATIONS		DATE
OPERATIONS 1 AFROTRIANGULATION BY	D. Norman	April 1970
1. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by	D. Norman	
2. CONTROL AND BRIDGE POINTS PLOTTED BY	J. Dempsey	Sept. 1970
METHOD: Coradomat CHECKED BY	E. Homick	Sept. 1970
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	R. White	Sept. 1970
COMPILATION CHECKED BY	A. Shands	Sept. 1970
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
SCALE: 1:10,000 CHECKED BY	NA CI1-	Oct. 1970
4. MANUSCRIPT DELINEATION PLANIMETRY BY	A. Shands C. Blood	Oct. 1972
CHECKED BY CONTOURS BY	NA NA	000. 1772
METHOD: Smooth Draft CHECKED BY	NA NA	
	A. Shands	Oct. 1970
SCALE: 1:10,000 HYDRO SUPPORT DATA BY	C. Blood	Oct. 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	None	
6. APPLICATION OF FIELD EDIT DATA	S. Kumer	Oct. 1972
CHECKED BY	C. Blood	Oct. 1972 Oct. 1972
7. COMPILATION SECTION REVIEW BY	C. Blood	1000
8. FINAL REVIEW BY	L. O. Neterer, Jr L. O. Neterer, Jr	
	T. O. Mererer, DI	. Hay 1702
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		The state of the s
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	H. D. Wolfe	MAR 1 0 1983

NOAA FORM 76-36B (3-72)			NATIONAL OCE	U. ANIC AND	AT MOS PI	HERIC AD	
	COA	TP-00180 APILATION SO	URCES		NAT	TIONAL C	CEAN SURVE
1. COMPILATION PHOTOGRAPHY							
CAMERA(S) RC-8-L		TYPES OF	PHOTOGRAPHY	T			
ocal length = 152.21	mm		GEND		TIME	REFERE	NCE
		(C) COLOR		ZONE	tern		X STANDAR
A PREDICTED TIDES REFERENCE STATION RECOR	DS	(P) PANCHR	OMATIC	MERID			
TIDE CONTROLLED PHOTOGR	APHY	(1) INFRARE	ED	75 t l	h		☐ DAYLIGH
NUMBER AND TYPE	DATE	TIME	SCALE		STA	GE OF T	DE
70 L(C) 1341 thru 134	6 8 April, 70	13:10	1:20,000	0.4	4 ft.	above	MLW
REMARKS	<u> </u>						
		compiled t	From the abo	ove_list	ted co	olor ph	oto-
2. SOURCE OF MEAN HIGH-WATE The mean high- graphs and checked	water line was						noto-
The mean high-graphs and checked	water line was by traverse po	oints submit	ted by the	field p	party.		
The mean high- graphs and checked	water line was by traverse po RORMEAN LOWER LO	DW-WATER LINE: compiled fi	com the abov	field p	party.		
The mean high-graphs and checked 3. SOURCE OF MEAN LOW-WATE	water line was by traverse po RORMEAN LOWER LO	DW-WATER LINE: compiled fi	com the abov	field p	party.		
The mean high-graphs and checked 3. SOURCE OF MEAN LOW-WATE The mean low w graphs; the stage o	water line was by traverse po RORMEAN LOWER LO ater line was f tide was com	OW-WATER LINE: compiled from	com the above predicted to	re liste	ed col	or pho	oto-
The mean high-graphs and checked 3. SOURCE OF MEAN LOW-WATE The mean low w graphs; the stage o	water line was by traverse po RORMEAN LOWER LO ater line was f tide was com	DW-WATER LINE: compiled from puted from	com the above predicted to	re liste	ed col	or pho	oto-
The mean high-graphs and checked 3. SOURCE OF MEAN LOW-WATE The mean low w graphs; the stage of the stage o	water line was by traverse por surveys traverse por sater line was fitide was com	DW-WATER LINE: compiled from puted from	com the above predicted to	re liste	ed col	or pho	oto-
graphs and checked 3. SOURCE OF MEAN LOW-WATE The mean low w graphs; the stage o	water line was by traverse por surveys traverse por sater line was fitide was com	DW-WATER LINE: compiled from puted from only those surveys PY USED SUR	that are sources f	re liste	ed col	or pho	oto- ormation.)

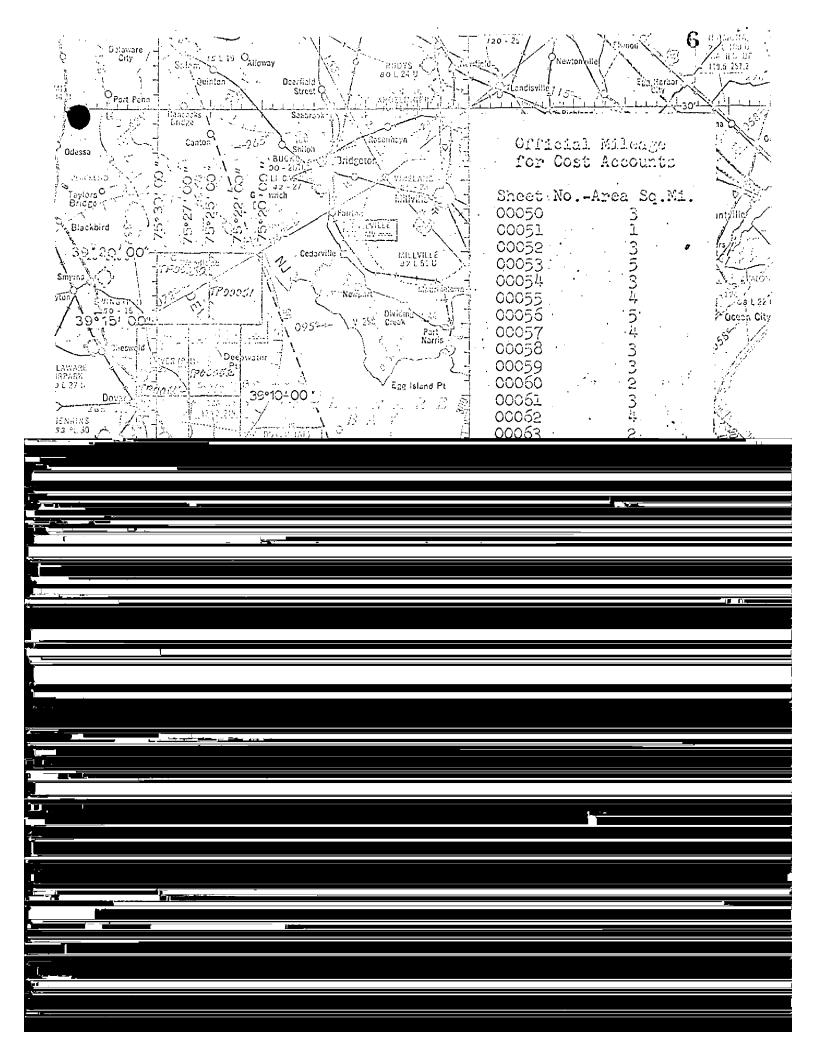
	HISTORY OF FIELD	OPERATIONS.	
X FIELD INSPECTION OF	PERATION FIEL	D EDIT OPERATION.	
	OPERATION	NA6	ME DATE
CHIEF OF FIELD PARTY		J. K. Wilson	1969
		None	1707
HODIZONEAL CONTROL	RECOVERED BY	None	
HORIZONTAL CONTROL	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	NA NA	
VERTICAL CONTROL	ESTABLISHED BY	NA NA	
VERTICAL CONTROL	PRE-MARKED OR IDENTIFIED BY	NA NA	
		None	
, LANDMARKS AND	RECOVERED (Triangulation Stations) BY	None	
AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None	
	TYPE OF INVESTIGATION	Hone	
. GEOGRAPHIC NAMES	COMPLETE		
INVESTIGATION	SPECIFIC NAMES ONLY		
	M NO INVESTIGATION		
		None	
PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	
. SOURCE DATA . HORIZONTAL CONTROL I	DENTIFIED	2. VERTICAL CONTE	ROL IDENTIFIED
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
PHOTO NUMBERS (Clarific	cation of details)	=	
None			
. LANDMARKS AND AIDS TO	O NAVIGATION IDENTIFIED		
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
	•		
1		1 1	
•		1	
			•
GEOGRAPHIC NAMES:	☐ REPORT X NONE	6. BOUNDARY AND L	LIMITS: □ REPORT ÄNON
. GEOGRAPHIC NAMES: . SUPPLEMENTAL MAPS AI		6. BOUNDARY AND L	LIMITS: REPORT 🖔 NON
. SUPPLEMENTAL MAPS A		6. BOUNDARY AND L	-IMITS: □ REPORT 🛣 NON
. Supplemental maps at None	ND PLANS		
. Supplemental maps at None			
. supplemental maps at None	ND PLANS (Sketch books, etc. DO NOT list date submit		

NOAA FORM 76-36C (3-72)	TP-00180 HISTORY OF FIELD		G AND ATMOSPHE	MENT OF COMMERCE RIC ADMINISTRATION DNAL OCEAN SURVEY
I FIELD INSPECTION OP	ERATION X FIEL	D EDIT OPERATION.		
0	PERATION	NA NA	ME	DATE
I. CHIEF OF FIELD PARTY				1070
II diller of Tibeb (All I		J. K. Wilson E. Hartford		1970 March 1970
4 HADISANTA CANTRA	RECOVERED BY	None		March 1970
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	RECOVERED BY	NA NA	·	
3. VERTICAL CONTROL	ESTABLISHED BY	NA		
01 12,0,12 00	PRE-MARKED OR IDENTIFIED BY	NA		
	RECOVERED (Triangulation Stations) BY	P. Walbolt		Aug. 1970
4. LANDMARKS AND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	P. Walbolt		Aug. 1970
	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES	COMPLETE			
INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. K. Wilson		Oct. 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None		
II. SOURCE DATA				
1. HORIZONTAL CONTROL ID	DENTIFIED	2. VERTICAL CONT	ROL IDENTIFIED	
None		NA		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION D	DESIGNATION
				<u> </u>
3. PHOTO NUMBERS (Claritics	stion of details)			
70 L(C) 1342-13	45			
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME
	th Bay Channel beacon 20			
		<u> </u>		-77
5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AND	LIMITS: REI	PORT X NONE
7. SUPPLEMENTAL MAPS AN	UPLANS			
None				
	ketch books, etc. DO NOT list data submi	tted to the Geodesy Divi	ision)	
l - field edit o l - field edit r 3 - forms C & GS	zalid 8 - forms C eport 4 - Forms C	& GS 526	•	

NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-00180 RECORD OF SURVEY USE

	с	OMPILATION STAGES	<u> </u>	DATE MANUSCR	IPT FORWARDED
	DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
-	ation complete g field edit	Oct. 1970	Class III superseded		
	edit applied ation complete	Oct. 20,1972	Class I		
Final F	Review	April 1982	Final		
II. LANDM	ARKS AND AIDS TO NAVIG	ATION			
	ORTS TO MARINE CHART D		DATA BRANCH		
NUMBER	CHART LETTER Number Assigned	DATE FORWARDED	REN	MARKS	
3 forms		Nov 1982	Appropriate forms (76-4 this Descriptive Report	40) are attac	hed with
		1			
		+			
			 	<u></u>	
					— <u>— — — — — — — — — — — — — — — — — — </u>
			PILOT BRANCH. DATE FORWARDED, AERONAUTICAL DATA SECTION.		
	RAL RECORDS CENTER DA		AERONAUTIONE DATA SESTEM	JATE FORMALILL.	
			BRIDGING REPORT; X COMPUTE X FORM NOS 567 SUBMITTED B		
			port) AS LISTED IN SECTION II, NOAA		
	Duplicate copies		40 forms.		
	DATA TO FEDERAL RECO			1982	-
			ach time e new map edition is registered		
RVEY NUMBI	ER JOB NUMBI	ER	TYPE OF SURVEY		



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00180

This 1:10,000 scale manuscript is one of seventeen maps that comprise 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 project was to provide contemporary shoreline data in 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 April 1970 using color film in the "L" camera, at 1:20,000 scale. This photography was flown near low water. This was determined from the predicted tide tables.

Analytic aerotriangulation was performed at the Washington Science Center in August 1970.

Compilation was performed at the Atlantic Marine Center in April 1970. During this time the limits of this map were extended westward 1'30" from 75°05'00' to 75°06'30' for a more comprehensive map. Preparations of hydrographic support photography was done at the Atlantic Marine Center and submitted to the field in October 1970.

Field Edit was completed in October 1970.

Field Edit was applied and completed at the Atlantic Marine Center in October 1972.

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-00180

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.

Job PH-6905 Delaware Bay, Delaware August, 1970

21. Area Covered

This report covers the coastal area of Delaware from Lewes to Bethany Beach. Included in this area are T-sheets, TP-00121 and TP-00180, at 1:10,000 scale.

22. Method

One strip (#3), 70-L(C)-1332 through 1348, was bridged on the STK-1B and adjusted on the CDC 6600. The strip was adjusted on seven horizontal control stations with seven companion stations and six office-identified stations as checks. All horizontal control held within National Map Accuracy Standards. No attempt was made to tie Strip #3, by pass points, with Strips #2 and #6, which cross Strip #3 on the north end. Strips #2 and #6 were not available in this office at the time of bridging. No junction problems should appear because of the use of common control points on all three strips. Estimated vertical control was selected along the beach and low inland areas. Positions for nine hydro-stations and sub-stations were located during bridging operations. All pass points were drilled by PUG methods. Positions for points were furnished on the Delaware (Transverse Mercator) state grid system.

23. Adequacy of Control

Horizontal control was adequate and complied with project instructions.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage, overlap, definition and quality of diapositives.

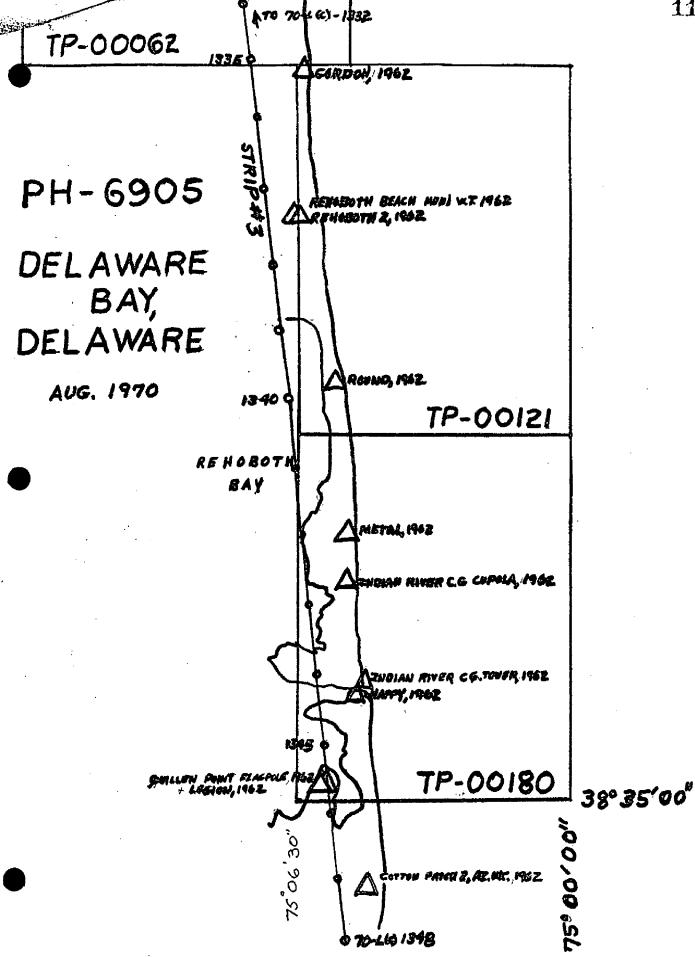
Submitted by

John D. Perrow, Jr.

Approved by

H. P. Eichert

Chief, Aerotriangulation Section



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.

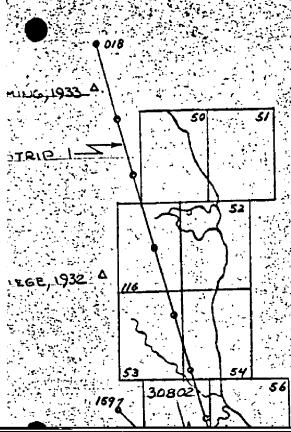
Respectfully submitted,

Don O. Norman

Don O. Norman

Approved and Forwarded,

Henry P. Eichert, Chief Aerotriangulation Section



DELAWARE BAY
PH 6905
Bridging Photography

• 1 80,000
• 1 30.000 color

- 1 80,000 1 30,000 color

)		
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		
TP-00180	PH-6905	5	NA 1927	.a.l	Mapping Division, AMC
	SOURCE OF	AEROTRI-	COORDINATES IN FEET		
N N N N N N N N N N N N N N N N N N N	INFORMATION (Index)	POINT	ZONE	φ LATITUDE λ LONGITUDE	AEMAKKS
	G. P.		χ=	\$38°36'32.67138"	1007.42 (842.67)
TOWER, 1962	(7)		η. I	λ75003'46.74341"	1130.91 (320.79)
			χ=	\$38°36'23,80138"	733.92 (1116.17)
HAPPY, 1962	voi. 11 p. 128		y=	λ75 ⁰ 03'53.03556"	1283.14 (168.56)
INDIAN RIVER COAST GUARD	٠.		=X	\$38°38'01.13767"	35,08 (1815.02)
	Vol. 11 p. 131		sh	175004'02,45523"	59.38 (1391.82)
			<i>=</i> χ	\$38°35'17.23880"	531.55 (1318.54)
LEGION, 1962	vol. 11 p. 109		y a	λ75004'33.35324"	807.21 (644.89)
OUILLEN POINT FLAGPOLE,	١.		-χ	\$38035'17.57322"	541.87 (1308.22)
1962	VO1. 11 p. 110		y=	λ75°04'33.46616"	809.94 (642.16)
BETHANY BEACH OBSERVATION	Ρ,		=X	\$38035'18.41676"	567.88 (1282.21)
i	vol. 11 p. 110		=ħ	λ 75003'41.81231"	1011.98 (440.12)
			<i>=</i> χ	ф	
			=h	γ	
			-χ	φ	
	į		<i>ή=</i>	٧	
			=X	ф	
			y=	γ	
			=X	ф	
			<i>ih=</i>	х.	
computed BY Arnold L. Shands		DATE 10/12/70	COMPUTATION CHECKED BY S. Kumer		DATE October 19, 1972
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.	CH IS OBSOLETE.	1

COMPILATION REPORT

TP-00180

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter using 1:20,000 scale color photography. The area compiled was extended westward from $75^{\circ}05'00''$ to $75^{\circ}06'30''$ for a more complete map. All compilation was by office interpretation of the photographs and the use of traverse points made available by the field party for the mean high-water line.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated August 1970.

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

The alongshore details were delineated from office interpretation of the color tide predicted low water photographs. The mean high-water line was compiled using traverse points and the compilation photographs.

36. OFFSHORE DETAILS

Offshore details were compiled from office interpretation of the color tide predicted low water photographs.

37. LANDMARKS AND AIDS

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

38. CONTROL FOR FUTURE SURVEYS

None

TP-00180

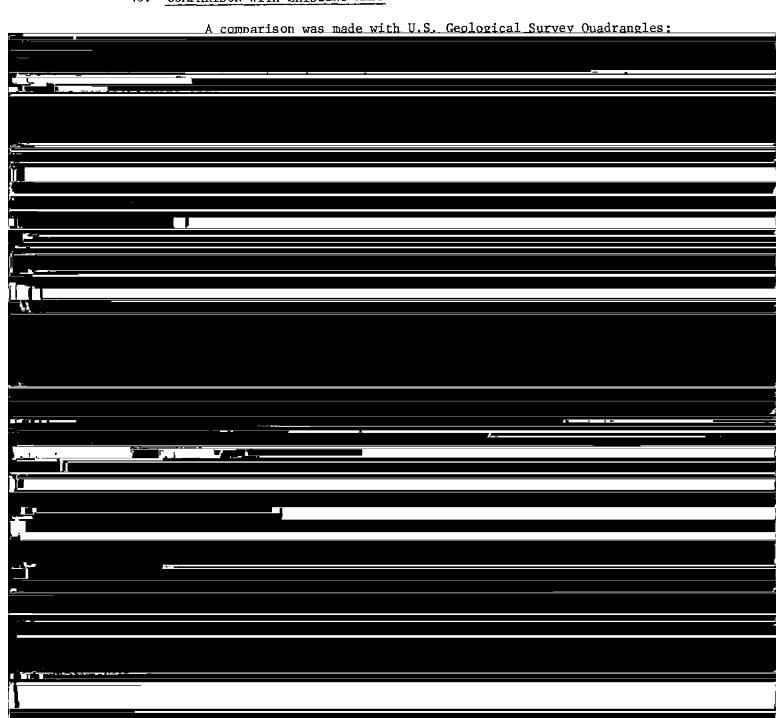
39. JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS



ADDENDUM TO THE COMPILATION REPORT

TP-00180

FIELD EDIT

The field edit was adequate. All questions posed by the compilation section were answered. The field editor identified a "Light" on photograph 70L(C) 1344 which was a daybeacon, as shown in the 1972 East Coast Light List.

FIELD EDIT REPORT
Job PH-6905
INDIAN RIVER INLET TO
CAPE HENLOPEN, DELAWARE
MAP TR-00080

52 ADEQUACY OF COMPILATION

The compilation appears to be good.

A third-order traverse was run between stations HAPPY, 1962 and ROUND RM 2, 1962. This traverse was run to provide hydrographic signal locations at intervals of about one-half mile. Mean high water line measurements were made from each traverse point, and random stations were identified by the reverse method to ascertain accuracy of photogrammetric data.

The above data was submitted to Chief, Division of Photogrammetry on 9 July 1970, Reference Number 62-2-71.

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 Nobs PH-6905 and PH-7002. This discrepancy type report is incorporated within this report.

56 SHORELINE AND ALONGSHORE FEATURES

All groins, jettys, piers, bulkheads, etc. were carefully checked by the field editor. All necessary changes are noted on the field edit sheet and referenced to a photograph.

The Delaware State Park Service maintains recreational areas along this section of the beach. They consist of parking areas with rest room privileges.

Piling which was shown in Indian River Inlet on Chart 411 have been removed. A very thorough investigation was made for submerged lines crossing the inlet, but none were found.

Distances to the high-water line were measured from each traverse point as stated in item 52.

57 OFFSHORE FEATURES

No offshore features are noted.

58 LANDMARKS AND AIDS

Form 567 was submitted for all nautical landmarks and fixed aids to navigation with the field edit data for TP-00062.

59 GENERAL STATEMENT

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

Horizontal control was not pre-marked for Maps TP-00121 and TP-00180. The photography was not flown with the same tidal accuracy as for the maps from TP-00062 northward.

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.

23 October 1970 Submitted by:

Joseph K. Wilson

Chief, Photo Party 62

TP-00180

55 GEOGRAPHIC NAMES

These names appear on parts of both the Rehoboth Beach, Delaware and the Bethany Beach, Delaware Preliminary Names Sheets.

BISPUTED NAMES

BURTON ISLAND(R)

This name is questioned on the Preliminary Names Sheet; it lies to the west of Indian River Yacht Basin, south of Old Ship Channel, and east of Little Ditch.

CEDAR ISLANDS(R)

BIG CEDAR ISLAND

LITTLE CEDAR ISLAND

The chart usage CEDAR ISLANDS is used locally. Few persons can distinguish between Big Cedar Island and Little Cedar Island.

RACK TURN POINT(R)

RAT TURN POINT:

ROCK TURN POINT

This dispute is caused by poor pronunciation; RACK TURN POINT is correct.

OBSOLETE NAMES

MELSON ISLAND

This name was not known by any local person contacted, including four men in their seventies. It should be removed from the charts.

REFERENCES

The following persons should be considered as local authorities, even though many others were contacted during the investigation:

Chester Davis - boatman - Ocean View, Delawate 19970

Bill Fogle - marina manager - Box 802 - Rehoboth Beach, Delaware 19971

Fred Wagner - marina owner - Box 813 - Reheboth Beach, Delaware 19971

Charles W. Ash - commercial fisherman - Dewey Beach, Delaware 19971

Ovide Willett - marina manager - Bethany Beach, Delaware 19930

Vernon C. Cobb - retired motel owner - Fenwick Island, Delaware 19944

Norman E. Calhoun - retired boatman - Ocean View, Delaware 19970

REVIEW REPORT

Shoreline

TP-00180

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. quadrangles: Rehoboth Beach, Delaware, and Bethany Beach, Delaware, both dated 1954, photorevised 1972, scale 1:24,000.

64. COMPARISON WITH HYDROGRAPHIC SURVEYS:

A comparison was made with verified copies of hydrographic surveys H-9136 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 and chart 12214, 33rd edition, dated June 7, 1980, 1:80,000 scale.

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:

Billy H. Barnes

Chief, Photogrammetric Branch, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00180

Atlantic Ocean Indian River Inlet

Bacon Island Creek Indian River Yacht Basin

Balders Pond Labens Point

Beach Cove see field edit report Little Codar Island

Big Bacon Island Little Ditch

Big Cedar Island see field edit report Little Reedy Island

Big Ditch Mare Marsh

Big Nose Island Massey Ditch

Big Reedy Island see field edit report Melson Island

Bottom Hills (Pp1) Middle Island

Bottom Hills Drain Old Basin Cove

Broken Marshes Old Ship Channel

Burton Island Pasture Point Cove

Bush Island Quillens Point

Cedar Neck Raccoon Cove

Hawkins Point Raccoon Point

Head of the Gut Rack Turn Point

Indian River Bay Rehobeth Bay

Approved by:

Charles E. Harrington Chief Geographer, OA/C3x5 GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00180

Salt Marsh

Sand Island

Sawpit Cove

Southwest Point

Station Cove

Stockley Gut

2 Ohf

Cedar Islands- see field edit report

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

•	ORIGINATING ACTIVITY		COMPILATION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP.	RANCH Sansible personnell			CHARTS	AFFECTED		12216		12216 12214	12216 12214	12216					
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TYPE OF ACTION	NAME
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EW POSITION DETERMINED nter the applicable dat P - Field P - Located Vis - Verified - Triangulation 5 -	<pre>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a tr angulation station is recovered, enter 'T, Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8~12~75</pre>
ction on sitions* and date	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods	**PHOTOGRAMMETRIC FIELD POSITIONS are dependendent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 75-40 (2-73) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION,

☆ U.S.GPO:1975-0~665-080/1155

NOAA FORM 76-40 (8-74)	40		NATIO	ONAL OCE	U.	S. DEPARTMI Atmospheri	ENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
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NOAA FORM 75-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISI

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(8-74)	2			NAT	NATIONAL OCE	OCEANIC AND A	V. DRFAK - MI	U.S. DEPAKIMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	ACTIVITY
Replaces C&GS Form 567	567.	NONFLOATING AIDS 0	S.O	OMARKS		RTS			HYDROGRAPHIC PAR GEODETIC PARTY PHOTO FIELD BARTY	ARI +
XXTO BE CHARTED	Γ		STATE		LOCALITY			DATE	COMPILATION AC	
TO BE REVISED		(Field Party, Ship or Office) Coastal Mappino Division	~=	-				Oct.	FINAL REVIEWER	
TO BE DELETED		k, VA] Delaware		Delawa	Delaware Bay		7/61	OUALITY CONTROL & REVIEW GRE	IL & REVIEW GRP.
The following objects	I		been inspected from seaward to determine their value as landmarks	ward to de	termine the	r value as	landmarks.		(See reverse for responsible personnel)	sible personnel)
OPR PROJECT N		Γ	UMBER	DATUM	<u> </u> 		•			
	PH-6905	TP-00180	180	NA 1	1927	1		METHOD AND DATE OF LOCATION	TE OF LOCATION	
					POSITION	NO		(See Instructions	(See instructions on reverse side)	CHARTS
	SEC	DESCRIPTION		LATITUDE	LOE	LONGITUDE	300			AFFECTED
CHARTING	Record reason for deletion of landmark or aid to navigation.	landmark or aid to	navigation.	}	"		"	OFFICE	FIELD	
NA ME	Show triangulation station names, where applicable, in perentheses)	nes, where applicable	e, in parenthoses)		D.M. Meters	`	D.P. Meters			
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LIGHT	South Jetty Light	Į.		38 36.5		75 03.5				12216 12214

OBJECTS INSPECTED FROM SEAWARD FUSITIONS DETERMINED AND/OR VERIFIED FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES OFFICE OFFICE (DENTIFIED AND LOCATED OBJECTS Enter the number and date (including month,	RESPONSIBLE PERSONNEL NAME INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF (Consult Photogrammetric Instructions No. 64, (Cont'd) B. Photogram entry of	METHOD AND DATE OF LOCATION' ric Instructions No. 64, FIELD (Cont'd) B. Photogrammetric ficentry of method of	ORIGINATOR ORIGINATOR PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify) FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE REVIEWER OUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE OF location or verification,
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	,		REVIEWER QUALITY CONTROL AND REVI
TSNI	RUCTIONS FOR ENTRIES UNDER 'M		
r	D OBJECTS ncluding month, raph used to ct.	(Cont'd) Photogran entry of date of f graph use EXAMPLE:	<pre>mmetric field positions** require method of location or verification, field work and number of the photo- ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>
EW POSITION DETERMINED nter the applicable dat P = - Located Vis - Verified - Triangulation 5 -	ED OR VERIFIED data by symbols as follows: - Photogrammetric is - Visually - Field identified	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	ION RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery. Rec.
3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of	Planetable Sextant ire entry of method of	<pre>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date. EXAMPLE: V-Vis. 8-13-75</pre>	WALLY ON PHOTOGRAPH
location and date EXAMPLE: F-2-6- 8-12-7		**PHOTOGRAMMETRIC FIELD PO	5-12-/5 IC FIELD POSITIONS are dependent in part, upon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	by field obser- und survey methods.	netric men	ods.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION,

☆ U.S.GPO:1975-0-565-080/1155

FORM C&G5-8352 (3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

17	
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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.

Drawing No. Full Part Before After Verification Review Inspection	F DATE CARTOGRAPHER	REMARKS
Full Part Before After Verification Review Inspection	F	ull Part Before After Verification Review Inspection Signed Vis
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