

TP-00060

TP-00060

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. TP-00060	Edition No. 1
Job No. PH-6905	
Map Classification FINAL	
Type of Survey SHORELINE	
LOCALITY	
State DELAWARE	
General Locality DELAWARE BAY	
Locality PRIMEHOOK BEACH	
1969 TO 1971	
REGISTRY IN ARCHIVES	
DATE	

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

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

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

☒ ORIGINAL☐ RESURVEY☐ REVISED

SURVEY TF-00060

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH-6905

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Roy Matsushige, CDR

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

☐ ORIGINAL☐ RESURVEY☐ REVISED

JOB PH-_____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation December 10, 1969
 Compilation May 12, 1970
 Amendment I April 1, 1971
 Memo (Cancel field edit) December 14, 1979
 Memo (Completion Schedule) June 22, 1981

2. FIELD

Field September 26, 1969
 Amendment I October 7, 1969

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER☒ MEAN LOW-WATER☐ MEAN LOWER LOW-WATER☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

Delaware

ZONE

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	D. Norman	April 1970
METHOD: Analytic	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	J. Dempsey	
METHOD: Coradomat	CHECKED BY	E. Homick	
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	R. White	June 1970
COMPILATION	CHECKED BY	L. Neterer, Jr.	June 1970
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:10,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. White	June 1970
	CHECKED BY	R. Pate	June 1970
METHOD: Smooth Draft	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	R. White	June 1970
	CHECKED BY	R. Pate	June 1970
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	R. Pate	June 1970
6. APPLICATION OF FIELD EDIT DATA	BY	S. Kumer	Oct. 1972
	CHECKED BY	C. Blood	Nov. 1972
7. COMPILATION SECTION REVIEW	BY	C. Blood	Nov. 1972
8. FINAL REVIEW	BY	L. O. Neterer, Jr.	Jan. 1982
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L. O. Neterer, Jr.	Jan. 1982
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	H. D. Wolfe	
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	Chief, Photogrammetric Branch	

NOAA FORM 76-36A

SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769380/547 REG.#6

MAR 10 1983

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00060
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-9 "M" Wild RC-8 "E" and "K"	TYPES OF PHOTOGRAPHY LEGEND (C) COLOR X (P) PANCHROMATIC (I) INFRARED X	TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		ZONE Eastern MERIDIAN 75th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
+ 69-E(C)-2900-2902	23 Oct. 69	13:34	1:20,000	0.0 ft. at MLW
*+ 69-K(I)-4477-4478	23 Oct. 69	13:34	1:20,000	0.0 ft. at MLW
*+ 69-K(I)-4673-4674	26 Oct. 69	10:51	1:20,000	4.4 ft. above MLW
*x 69-E(C)-3058 & 3059	24 Oct. 69	11:04	1:40,000	2.7 ft. above MLW

Camera focal length: E = 152.71 mm, K = 151.77 mm, M = 83.20 mm

REMARKS *Centers not shown on manuscript
+Tide coordinated photography
xBridging photography used in the Wild B-8

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was compiled from the above-listed tide coordinated infrared mean high-water photographs.

The mean high-water line recompiled using measurements from traverse points determined during Field edit of July 1970.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean low-water line was compiled from the above-listed tide coordinated infrared and color mean low-water photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	TP-00062	TP-00061	TP-00059

REMARKS *There is no shoreline or detail junction with TP-00062.

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00060
HISTORY OF FIELD OPERATIONS.I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	Oct. 1970
2. HORIZONTAL CONTROL	RECOVERED BY PBW	Oct. 1970
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY PBW	Oct. 1970
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
69E(C)2901	LW-08, Sub Station A		
69E(C)2902	LW-04, Sub Station A		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

2 - forms C & GS 152
1 - form C & GS 525

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00060
HISTORY OF FIELD OPERATIONS.I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	Aug. 1971
2. HORIZONTAL CONTROL	RECOVERED BY: None	
	ESTABLISHED BY: None	
	PRE-MARKED OR IDENTIFIED BY: None	
3. VERTICAL CONTROL	RECOVERED BY: NA	
	ESTABLISHED BY: NA	
	PRE-MARKED OR IDENTIFIED BY: NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY: None	
	LOCATED (Field Methods) BY: None	
	IDENTIFIED BY: None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	
	R. Tibbetts	Aug. 1971
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY: R. Tibbetts	Aug. 1971
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY: None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

69 E02900

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 - field edit ozalid
1 - field edit report

NOAA FORM 76-36D (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION			
TP-00060 RECORD OF SURVEY USE					
I. MANUSCRIPT COPIES					
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED		
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT	
Compilation Complete pending field edit	June 23, 1970	Class III Superseded	June 24, 1970	June 24, 1970	
Field Edit Applied Compilation Complete	Oct. 27, 1972	Class I			
Final Review	Jan. 1982	Final			
II. LANDMARKS AND AIDS TO NAVIGATION					
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH					
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS		
1 <i>form</i>		NOV 1982	Appropriate form (76-40) are attached with this Descriptive Report		
2. <input type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____ 3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____					
III. FEDERAL RECORDS CENTER DATA					
1. <input type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input checked="" type="checkbox"/> COMPUTER READOUTS. 2. <input checked="" type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input checked="" type="checkbox"/> FORM NOS 76-40 SUBMITTED BY FIELD PARTIES. 3. <input checked="" type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS: <i>1 form C & GS 525</i> 4. <input checked="" type="checkbox"/> DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: <i>NOV 1982</i>					
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)					
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL		
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL		
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL		

Official Mileage for Cost Accounts

Sheet No.-Area Sq.Mi.

00050	3
00051	1
00052	3
00053	5
00054	3
00055	4
00056	5
00057	4
00058	3
00059	3
00060	2
00061	3
00062	4
00063	2
00116	2
00121	2
00180	7

TOTAL 54

JOB PH-6905
DELAWARE BAY, DELAWARE
COASTAL MAPPING
SCALE 1:10,000

DELAWARE
288
H+04 & ev 6m

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00060

This 1:10,000 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°20', south to Indian River, 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. These maps are to be registered 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 shoreline data in support of hydrographic operations and to aid 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 control 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 taken using color film in the "E" camera at 1:20,000 scale.

Tide coordinated infrared high and low water photography was taken using the "K" camera. The low water infrared photography was taken in tandem with the hydro support photography.

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

Compilation was performed from office interpretation of the 1969 photography and 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 August 1971.

Field Edit was applied and completed in November 1972.

The final review was performed at the Atlantic Marine Center in January 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-00060

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

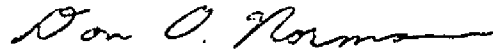
Elevations were taken from USGS topographic quadrangles to meet the vertical control requirements.

-2-

25. Photography

The photography was adequate.

Respectfully submitted,



Don O. Norman

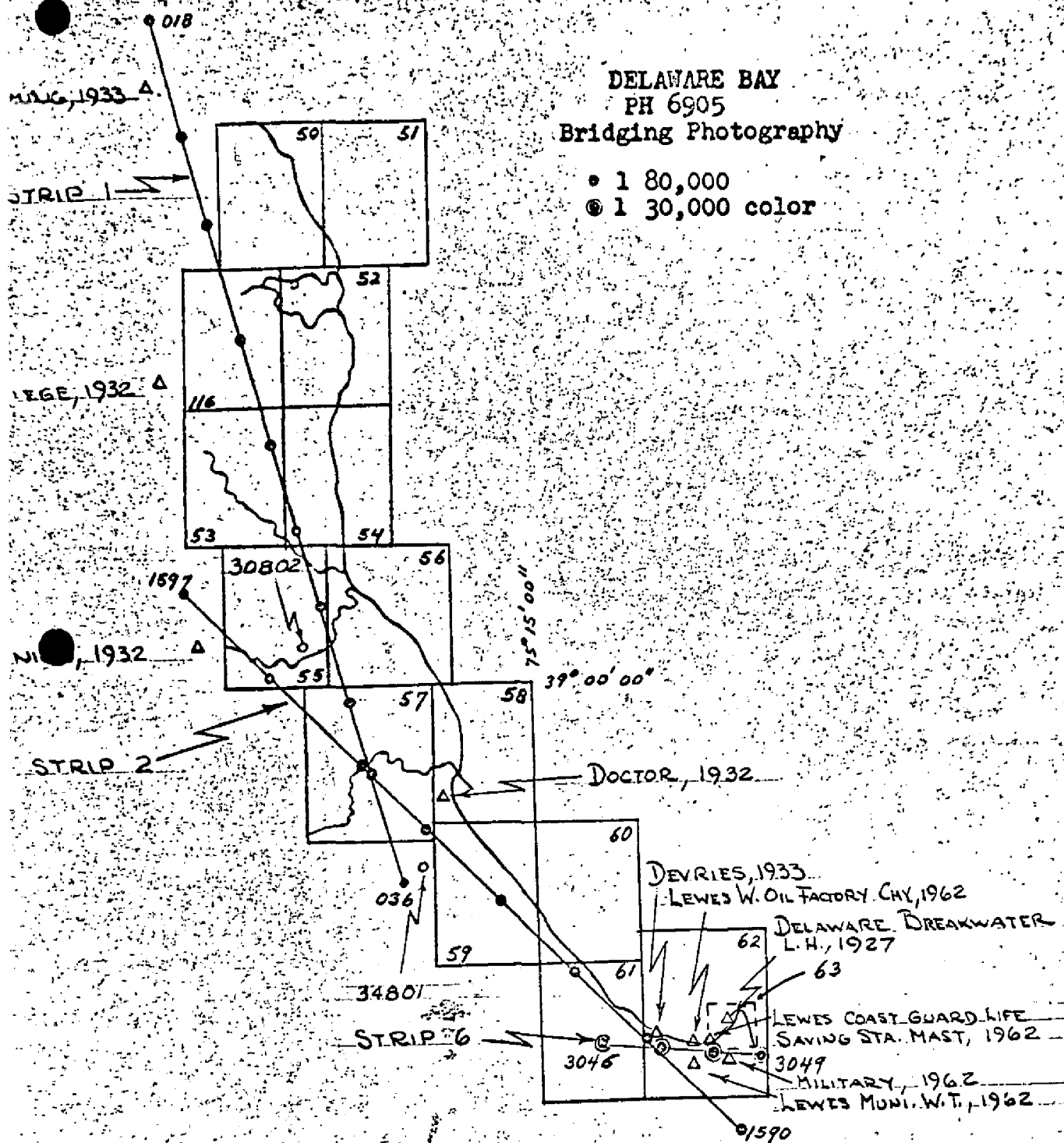
Approved and Forwarded,



Henry P. Eichert, Chief
Aerotriangulation Section

DELAWARE BAY
PH 6905
Bridging Photography

- 1 80,000
- ⊙ 1 30,000 color



LEGEND

▲ CONTROL USED IN ADJUSTMENT

CLOSURES OF BRIDGE TO CONTROL SHOWN
IN PARENTHESES

△ CONTROL USED AS CHECK

STRIP 1

- ▲ FLEMING, 1933 SUB. A (-40, +1.06)
- ▲ COLLEGE, 1932 RM2 SUB. A (+2.20, -2.51)
- ▲ 30302 TIE POINT
- △ UNION STA. A (-6.36, +2.20)
- △ DOCTOR, 1932 RM6 (-4.23, +6.75)
- ▲ 34201 TIE POINT (+1.92, -.57)

STRIP 2

- △ 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)
- △ DEVRIES, 1962 RM (+1.66, -1.83)
- △ DEVRIES, 1933 (+1.86, +.94)
- ▲ DOCTOR, 1932 RM 6 (0.0, 0.0)
- ▲ UNION, 1932 SUB. A (0.0, 0.0)

STRIP 6

- ▲ DEVRIES, 1962 RM (0.0, 0.0)
- ▲ DEVRIES, 1933 SUB. A (-.02, -.11)
- △ LEWES COAST GUARD LIFE SAVING STA. MAST SUB. A (+1.05, 4.06)
- △ LEWES MUNI. WATER TANK, 1962 (+.75, -1.22)
- △ LEWES W. OIL FACTORY CHY., 1962 (+2.54, +.36)
- ▲ MILITARY, 1962 SUB. A (0.0, 0.0)
- △ MILITARY, 1962 SUB. B (-.81, +.45)
- △ DELAWARE BREAKWATER L.H., 1927 (-.76, +.39)

COMPILATION REPORT

TP-00060

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter, using 1:40,000 scale, 1969 photography. Common detail points were selected and transferred to the 1:20,000 scale 1969 color hydro support and infrared photography which were used to compile both mean high and mean low-water lines graphically.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated 3 April 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated using 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 office interpretation of the photographs.

36. OFFSHORE DETAILS

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

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

TP-00060

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 Quadrangle: Lewes, Delaware, 1:24,000 scale dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey charts 411, scale 1:40,000, 9th edition dated May 16, 1970 (corrected through Notice to Mariners 20-1970); and 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:

Richard R. White

Richard R. White
Cartographic Technician

Date: 23 June 1972

Approved:

for *Bill A. Barn*

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

FIELD EDIT REPORT
Job PH-6905
West Shore Delaware Bay
Delaware
Map TP-00060

This map was field-edited during the summer season of 1971.

52. ADEQUACY OF COMPILATION

The compilation is believed to be good. It will be adequate after applying the field edit corrections.

A second-order traverse was run between triangulation stations BAYSIDE LAB, 1962 and DOCTOR, 1933. Traverse station WHITE, 1970, which is within the limits of this map, was established and monumented. Original records and data were forwarded to the Geodesy Division in Rockville in November, 1970. A copy of the station description, plus an unadjusted field position, is included with the field edit data.

One third-order traverse was run between LYNCH, 1970 to CURVE, 1970. The traverse was run to provide hydrographic signal locations and to test the horizontal accuracy of the map. Points tested are: 60-01, 60-03 and 60-04. This original data was forwarded to the Atlantic Marine Center on transmittal 62-16-71, dated November 6, 1970.

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 many of the hydrographic signal locations. An abstract of these measurements was included with the field edit data for Map TP-00061 (for that part of the west shore of Delaware Bay between Big Stone Beach and Roosevelt Inlet).

Shoreline reference measurements taken from second-order traverse stations in 1970 generally agree with the 1971 measurements. This would indicate that the shoreline is reasonably stable, however at some points there is evidence that the shoreline has eroded as much as one to two hundred feet since 1932. It appears however that the majority of erosion takes place during the major storms, such as the 1962 storm that devastated much of the east coast between the Carolinas and New Jersey.

57. OFFSHORE FEATURES

No offshore features were noted during field edit.

TP-0006055. GEOGRAPHIC NAMES

These names appear on part of the Lewes, Delaware Preliminary Names Sheet.

Disputed NamesPETERSFIELD DITCH (R)

The name PETERSFIELD DITCH is not disputed but the placement of the name. The ditch, formerly shown on the Quadrangle Map as PETERSFIELD DITCH, has filled with mud. Local residents now associate the name PETERSFIELD DITCH to the ditch linking PRIMEHOOK CREEK and BROADKILL RIVER. The feature falls on Maps TP-00060 and TP-00061.

New NamesDRAPERS DITCH (R)

The name DRAPERS DITCH applies to the new ditch that has been dug just north and nearly parallel to the ditch shown on the Lewes Quadrangle Map as PETERSFIELD DITCH. This name is especially well known to people visiting the Primehook National Wildlife Refuge.

REFERENCES

Many persons were contacted during the investigation, but the following persons were considered as excellent references:

Otis Clifton - Farmer - Milton, Delaware

Richard Nugent - Assistant Director Primehook National Wildlife Refuge
Milford, Delaware

James Reed - Farmer - RD #1, Milton, Delaware

58. LANDMARKS AND AIDS

There are no nautical landmarks or fixed aids to navigation within the limits of this map.

59. GENERAL STATEMENT

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

Horizontal control was premarked prior to photography in 1969. Tide-controlled photography was flown at both high and low water.

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.

August 9, 1971

Submitted by:

Robert S. Tibbetts
Robert S. Tibbetts
Surveying Technician

REVIEW REPORT

SHORELINE

TP-00060

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 Lewes, Delaware, 1:24,000 scale, dated 1954.

64. COMPARISON WITH HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of H-9202. No significant differences were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with N.O.S. charts 12304 27th edition, March 28, 1981, 1:80,000 scale, and 12216 20th edition, June 27, 1981, 1:40,000 scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Lowell O. Neterer, Jr.
Lowell O. Neterer, Jr.
Final Reviewer

January 18, 1982

Approved for forwarding:

Billy H. Barnes
Billy H. Barnes
Chief, Photogrammetric Branch, AMC

July 29, 1981

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00060

Broadkill Beach (Ppl)

Delaware Bay

Primehook Beach

Primehook Beach (Ppl)

Roach Marsh

Primehook Creek *Long*

Petersfield Ditch *Long*

see field edit report for these two names *Long*

Drapers Ditch *Long*

Approved by:

Charles E. Harrington

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

Replaces C&GS Form 567.

LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH
- (See reverse for responsible personnel)

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	Robert S. Tibbets
POSITIONS DETERMINED AND/OR VERIFIED	Robert S. Tibbets
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	Susan Kumer
ACTIVITIES	

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) 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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

