

TP-00062

TP-00062

| | |
|--|-------------------------|
| NOAA FORM 76-35 (3-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | |
| <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2> | |
| Map No. TP-00062 | Edition No. 1 |
| Job No. PH-6905 | |
| Map Classification FINAL | |
| Type of Survey SHORELINE | |
| <h3 style="text-align: center;">LOCALITY</h3> | |
| State DELAWARE | |
| General Locality DELAWARE BAY | |
| Locality LEWES | |
| <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1969 TO 1970 </div> | |
| <h3 style="text-align: center;">REGISTRY IN ARCHIVES</h3> | |
| DATE | |

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

1 of 28

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 TP. 00062

MAP EDITION NO. 1

MAP CLASS Final

JOB PH. 6905

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Roy K. 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 1 April 1, 1971
 Memo (Cancel field edit) December 14, 1979
 Memo (Completion Schedule) June 22, 1981

2. FIELD

Field September 26, 1969
 Amendment 1 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

ZONE

Delaware

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

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

NOAA FORM 76-36A

SUPERSEDES FORM C&GS 181 SERIES

Chief, Photo Map and
 Imagery Unit
 MAR 10 1983
 U.S. G.P.O. 1972-769380/547 REG. #6

TP-00062
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | | |
|--|-------------|---|----------|---|--|---|
| CAMERA(S) Wild RC-9 M Wild RC-8 E, K and L | | TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED | | TIME REFERENCE ZONE Eastern MERIDIAN 75th | | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT |
| TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | | | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | | |
| + 69E(C) 2889 thru 2890 | 23 Oct 1969 | 13:24 | 1:20,000 | 0.0 ft. at MLW | | |
| +* 69K(I) 4664 | 26 Oct 1969 | 10:40 | 1:20,000 | 4.1 ft. above MLW | | |
| 70L(C) 1334 and 1335 | 8 Mar 1970 | 13:10 | 1:20,000 | -1.0 ft. below MLW | | |
| Camera focal length: E = 152.71 mm, K = 151.77 mm, L = 152.21 mm, M = 88.20 | | | | | | |

REMARKS *Centers not shown on manuscript
+Tide coordinated photography

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was compiled from the above listed tide coordinated infrared photographs and the 1970 color photographs.

The mean high-water line was recompiled using measurements from traverse points determined during field edit July 1970, approximately between Longitude 75°07'30" and Longitude 75°10'00".

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 and predicted tide color photography.

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 | No Survey | TP-00121 | TP-00061 |

REMARKS A 1:5,000 scale manuscript inset falls between Latitude 38°46'30" and Latitude 38°48'30" and Longitude 75°05'00" and Longitude 75°07'30". This is TP-00063.

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

TP-00062

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION.

| OPERATION | NAME | DATE |
|--|-----------------------------|-----------|
| 1. CHIEF OF FIELD PARTY | J. K. Wilson | Oct. 1969 |
| RECOVERED BY | J. K. Wilson | Oct. 1969 |
| 2. HORIZONTAL CONTROL | ESTABLISHED BY | None |
| PRE-MARKED OR IDENTIFIED BY | P. Walbolt | Oct. 1969 |
| RECOVERED BY | NA | |
| 3. VERTICAL CONTROL | ESTABLISHED BY | NA |
| PRE-MARKED OR IDENTIFIED BY | NA | |
| RECOVERED (Triangulation Stations) BY | None | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | LOCATED (Field Methods) BY | None |
| IDENTIFIED BY | None | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION | |
| <input type="checkbox"/> COMPLETE | BY | |
| <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 |
| 69 M 1591 | De Vries RMI, 1962 | | |
| 69 M 1591 | De Vries, 1933 | | |

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
17 - forms C & GS 526

TP-00062

HISTORY OF FIELD OPERATIONS.

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION.

| OPERATION | NAME | DATE |
|-------------------------------------|--|-------------------------------------|
| 1. CHIEF OF FIELD PARTY | J. K. Wilson | Oct. 1970 |
| 2. HORIZONTAL CONTROL | RECOVERED BY J. K. Wilson ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None | 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 P. Walbolt LOCATED (Field Methods) BY R. Tibbetts, P. Walbolt IDENTIFIED BY P. Walbolt | Oct. 1970 Oct. 1970 Oct. 1970 |
| 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 R. Tibbetts | Oct. 1970 |
| 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)

69E(C) 2889-2890

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

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

1 - field edit ozalid 6 - forms C & GS 567
 1 - field edit report
 2 - forms C & GS 526

NOAA FORM 76-36D
(3-72)

TP-00062

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

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 | May 1970 | Class III Superseded | June 9, 1970 | |
| Field Edit applied Compilation complete | Nov. 1970 | Class I | | |
| Final Review | Mar 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 |
|------------|---------------------------------|-------------------|--|
| 3 Forms | | Nov 1982 | Appropriate forms (76-40) are attached with this Descriptive Report |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

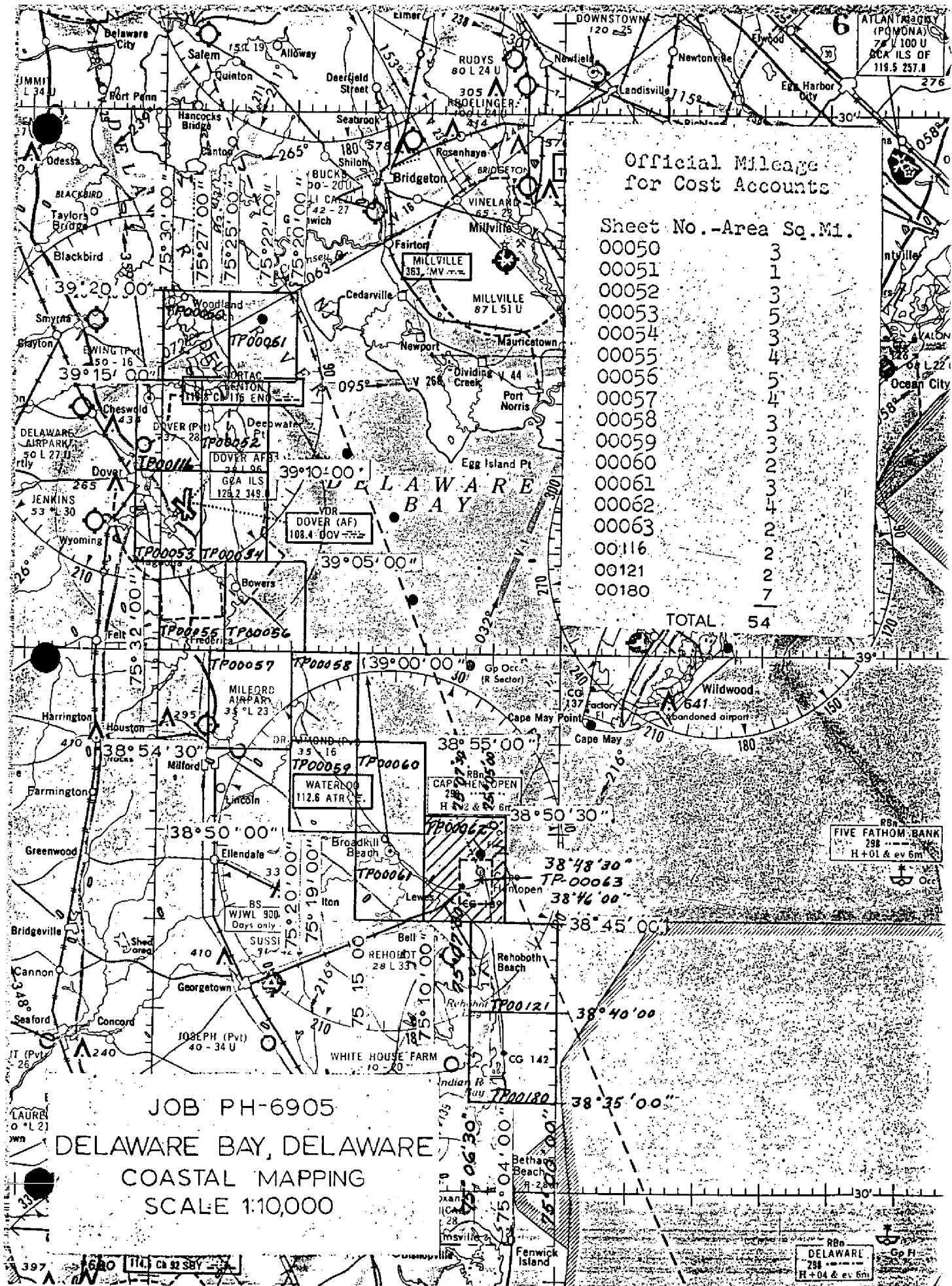
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. ⁷⁶⁻⁴⁰ SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS: 14 forms CdG 526, Photo 69M1591
 Duplicate copies of final 76-40 forms
 4. ☒ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: NOV 1982

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 MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |



7

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00062

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 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 the 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 requirements.

Photographic coverage for aerotriangulation was provided in October 1969 using Panchromatic film with the "M" camera at 1:80,000 scale and in March 1970 using color film in the "L" camera at 1:20,000 scale. Compilation photography was taken with color film in the "E" and "L" cameras at 1:20,000 scale.

Tide coordinated infrared 1:20,000 scale high water photography was taken in October 1969 with the "K" camera. It was used to compile the Delaware Bay shoreline.

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

Compilation was performed from office interpretation of both the October 1969 and March 1970 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.

TP-00062

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-00062

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

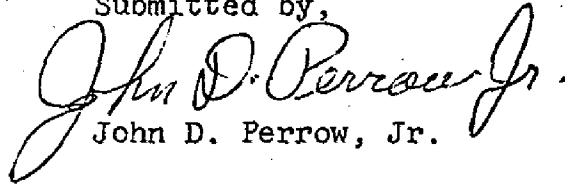
None

-2-


25. Photography

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

Submitted by,


John D. Ferrow, Jr.

Approved by,



H. P. Eichert
Chief, Aerotriangulation
Section

TP-00062

ATO 70-461-1832

13350

GORDON, 1962

PH-6905

DELAWARE
BAY,
DELAWARE

AUG. 1970

STRIP #3

REHOBOTH BEACH MUNI WT. 1962

REHOBOTH 2, 1962

13400

ROUND, 1962

TP-00121

REHOBOTH
BAY

METAL, 1962

INDIAN RIVER C.G. CAPLA, 1962

INDIAN RIVER C.G. TOWER, 1962

HAPPY, 1962

13450

MILLER POINT FLACOLS, 1962
+ LEGION, 1962

TP-00180

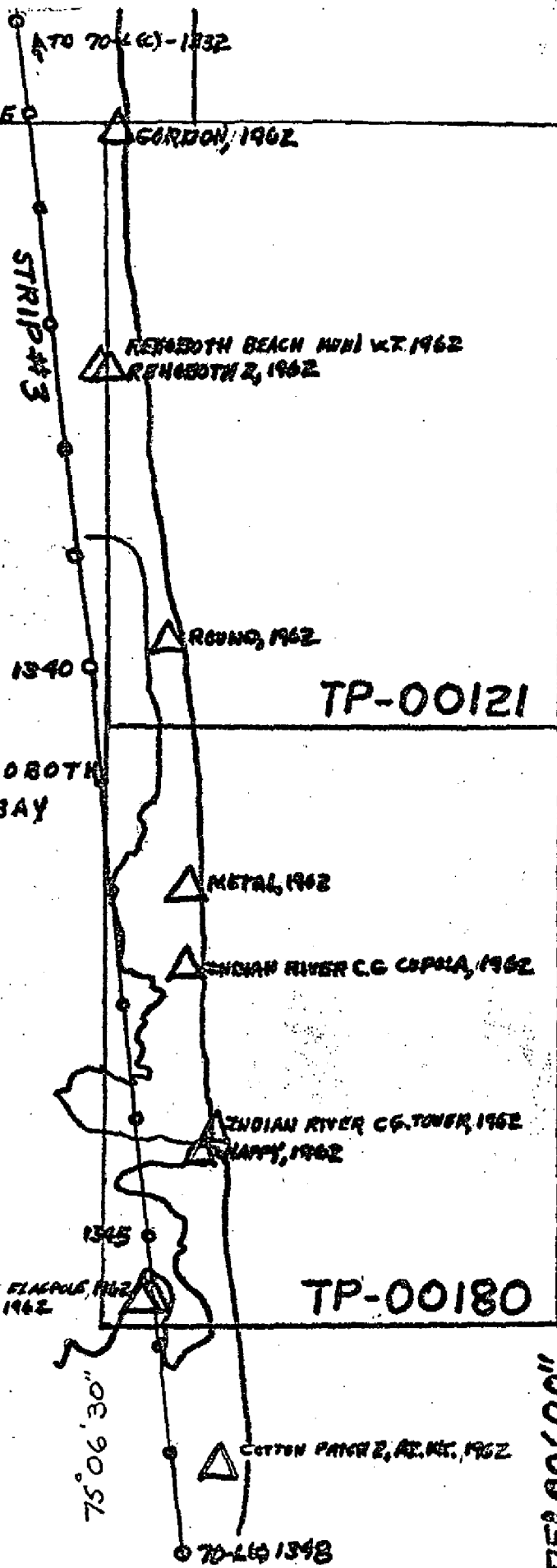
38° 35' 00"

75° 06' 30"

75° 00' 00"

COTTON PATCH 2, AT. WT. 1962

70-461-1348



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

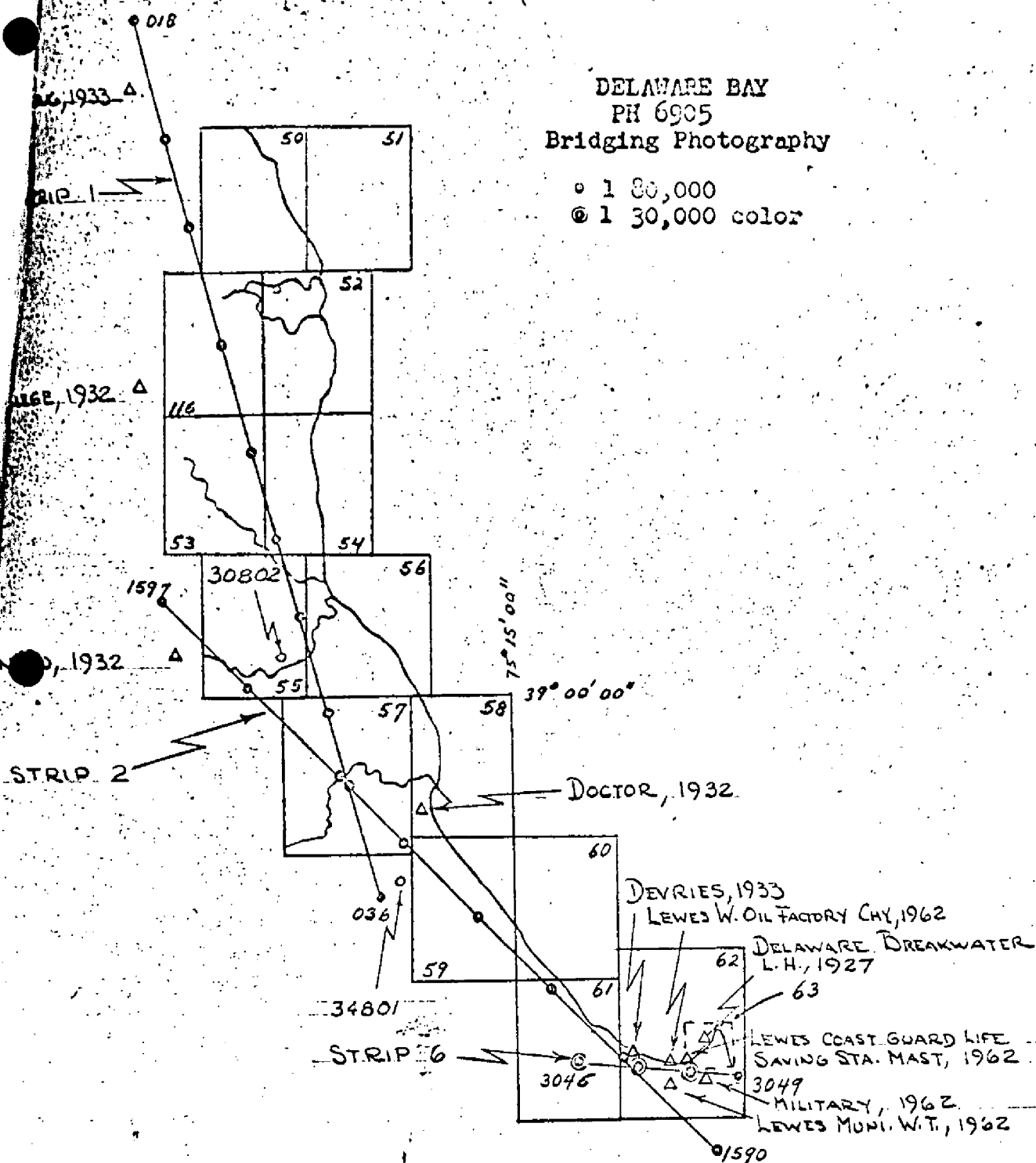
Approved and Forwarded,



Henry P. Eichert, Chief
Aerotriangulation Section

DELAWARE BAY
PH 6905
Bridging Photography

• 1 30,000
• 1 30,000 color



△ 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)
- △ 30802 TIE POINT
- △ UNION STA. A (-6.36, +2.28)
- △ DOCTOR, 1932 RM6 (-4.83, +6.75)
- △ 34801 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 RM6 (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)

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | STATION NAME | JOB NO. | AEROTRI- ANGULATION POINT NUMBER | GEODETIC DATUM | | ORIGINATING ACTIVITY | |
|--|-----------------------|---------|---|---------------------------------|--|--|-------------------------------|
| | | | | NA 1927 | COORDINATES IN FEET STATE _____ ZONE _____ | GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE | REMARKS |
| TP-00062 | | PH-6905 | | | | | Coastal Mapping Division, AMC |
| MILITARY (FORT MILES RANGE CONTROL TOWER) 1962 | 380751 Sta 1064 | | | x= | | φ 38°46'32.49613" | 1002.1 (848.1) |
| | | | | y= | | λ 75°06'03.39557" | 82.0 (1366.4) |
| LEWES WEST OIL FACTORY CHIMNEY, 1962 | 380751 1066 | | | x= | | φ 38°46'53.55492" | 1651.4 (198.8) |
| | | | | y= | | λ 75°07'00.10965" | 2.6 (1445.6) |
| DE VRIES, 1933 | 380751 1072 | | | x= | | φ 38°47'10.40145" | 320.7 (1529.4) |
| | | | | y= | | λ 75°09'32.10813" | 775.0 (673.2) |
| DE VRIES MONUMENT CENTER NEAR STATION DEVRIES, 1933 | 380751 1073 | | | x= | | φ 38°47'10.347" | 319.1 (1531.1) |
| | | | | y= | | λ 75°09'32.156" | 776.1 (672.1) |
| DE VRIES RM 1 1962 | 380751 1074 | | | x= | | φ 38°47'09.66817" | 298.1 (1552.1) |
| | | | | y= | | λ 75°09'31.17049" | 752.3 (695.9) |
| RADIO (DEL.), 1932 | GP Vo1 #1 Pg 3 | | | x= | | φ 38°47'24.892" | 767.6 (1082.6) |
| | | | | y= | | λ 75°05'28.820" | 695.6 (752.4) |
| LEWES EPISCOPAL CHURCH SPIRE, 1962 | GP Vo1 #1 Pg 91 | | | x= | | φ 38°46'31.09095" | 958.7 (891.4) |
| | | | | y= | | λ 75°08'27.94081" | 674.5 (773.9) |
| LEWES MUNICIPAL WATER TANK 1962 | 380751 1069 | | | x= | | φ 38°46'18.86083" | 581.6 (1268.6) |
| | | | | y= | | λ 75°08'11.44435" | 276.3 (1172.1) |
| LEWES UNIV. OF DEL LAB WATER TANK 1962 | 380751 1077 | | | x= | | φ 38°47'28.33597" | 873.8 (976.4) |
| | | | | y= | | λ 75°09'45.01485" | 1086.4 (361.7) |
| | | | | x= | | φ | |
| | | | | y= | | λ | |
| COMPUTED BY R. White | | | DATE 4/27/70 | COMPUTATION CHECKED BY C. Blood | | DATE 4/30/70 | |
| LISTED BY | | | DATE | LISTING CHECKED BY | | DATE | |
| HAND PLOTTING BY | | | DATE | HAND PLOTTING CHECKED BY | | DATE | |

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | JOB NO. | STATION NAME | SOURCE OF INFORMATION (Index) | AEROTRI- ANGULATION POINT NUMBER | GEODETTIC DATUM | | ORIGINATING ACTIVITY | |
|--|---------------------------|--|----------------------------------|---|------------------------------------|--|----------------------|--|
| | | | | | NA 1927 | Coastal Mapping Division, AMC | | |
| | | | | | COORDINATES IN FEET | GEOGRAPHIC POSITION | REMARKS | |
| | | | | | STATE _____ ZONE _____ | ϕ LATITUDE λ LONGITUDE | | |
| TP-00062 | PH-6905 | FORT MILES U.S. NAVY WATER TANK, 1962 | 380751 1053 | | X= | ϕ 38°46'07.94225" | 244.9 (1605.3) | |
| | | | | | Y= | λ 75°05'12.23621" | 295.4 (1153.1) | |
| | | | | | X= | ϕ 38°48'51.827" | 1598.1 (252.1) | |
| | | | | | Y= | λ 75°05'33.975" | 819.7 (627.9) | |
| HARBOR OF REFUGE LIGHTHOUSE, (DEL.), 1927 | G.P. Vol. #1 Pg. 73 | | | | X= | ϕ 38°47'49.215" | 1517.6 (332.6) | |
| | | | | | Y= | λ 75°06'01.243" | 30.0 (1418.0) | |
| | | | | | X= | ϕ 38°47'17.31306" | 533.9 (1316.3) | |
| | | | | | Y= | λ 75°05'42.83922" | 1033.9 (414.2) | |
| DELAWARE BREAKWATER LIGHT- HOUSE (DEL.) 1927 | G.P. Vol. #1 Pg. 73 | | | | X= | ϕ 38°46'45.28642" | 1396.5 (453.7) | |
| | | | | | Y= | λ 75°07'12.79928" | 309.0 (1139.3) | |
| | | | | | X= | ϕ 38°46'34.35507" | 1059.4 (790.8) | |
| | | | | | Y= | λ 75°05'35.30368" | 852.2 (596.1) | |
| FORT MILES OBSERVATION TOWER No. 13, 1962 | G.P. Vol. #1 Pg. 90 | | | | X= | ϕ 38°46'19.925" | 614.4 (1235.8) | |
| | | | | | Y= | λ 75°08'22.664" | 547.1 (901.3) | |
| | | | | | X= | ϕ 38°46'51.05840" | 1574.4 (275.8) | |
| | | | | | Y= | λ 75°07'15.52925" | 374.8 (1073.4) | |
| FORT MILES OBSERVATION TOWER No. 7, 1962 | G.P. Vol. #1 Pg. 90 | | | | X= | ϕ | | |
| | | | | | Y= | λ | | |
| | | | | | X= | ϕ | | |
| | | | | | Y= | λ | | |
| LEWES PRESBYTERIAN CHURCH SPIRE, 1896 | 380751 1067 | | | | X= | ϕ | | |
| | | | | | Y= | λ | | |
| | | | | | X= | ϕ | | |
| | | | | | Y= | λ | | |
| LEWES, COAST GUARD LIFE SAV- ING STATION, MAST 1962 | | | | | X= | ϕ | | |
| | | | | | Y= | λ | | |
| | | | | | X= | ϕ | | |
| | | | | | Y= | λ | | |
| COMPUTED BY R. White | | | | | COMPUTATION CHECKED BY C. Blood | DATE 4/30/70 | | |
| LISTED BY | | | | | LISTING CHECKED BY | DATE | | |
| HAND PLOTTING BY | | | | | HAND PLOTTING CHECKED BY | DATE | | |

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

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | JOB NO. | SOURCE OF INFORMATION (Index) | AEROTRI- ANGULATION POINT NUMBER | GEODETIC DATUM | | ORIGINATING ACTIVITY | | |
|------------------|--------------|----------------------------------|---|--|---------|---|-------------------------------|---------|
| | | | | COORDINATES IN FEET STATE _____ ZONE _____ | NA 1927 | GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE | Coastal Mapping Division, AMC | REMARKS |
| TP-00062 | PH-6905 | Field Comp. | | $x=$ | | ϕ 38049'56.87" | 1753.6 (96.5) | |
| | | | | $y=$ | | λ 75006'22.02" | 531.1 (916.1) | |
| | | | | $x=$ | | ϕ | | |
| | | | | $y=$ | | λ | | |
| | | | | $x=$ | | ϕ | | |
| | | | | $y=$ | | λ | | |
| | | | | $x=$ | | ϕ | | |
| | | | | $y=$ | | λ | | |
| | | | | $x=$ | | ϕ | | |
| | | | | $y=$ | | λ | | |
| | | | | $x=$ | | ϕ | | |
| | | | | $y=$ | | λ | | |
| | | | | $x=$ | | ϕ | | |
| | | | | $y=$ | | λ | | |
| | | | | $x=$ | | ϕ | | |
| | | | | $y=$ | | λ | | |
| COMPUTED BY | L. L. Graves | DATE | 11/10/70 | COMPUTATION CHECKED BY | | A. L. Shands | DATE | |
| LISTED BY | | DATE | | LISTING CHECKED BY | | | DATE | |
| HAND PLOTTING BY | | DATE | | HAND PLOTTING CHECKED BY | | | DATE | |

COMPILATION REPORT

TP-00062

PH-6905

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter using 1:40,000 scale color photography. Common points were pricked on 1:20,000 scale color photographs ratioed to 1:10,000 scale. Both sets of photography were of very good quality.

There was not enough photo coverage to allow the delineation of the Harbor of Refuge with its lights and breakwater.

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 inapplicable to the project. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line and all alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

Offshore detail was compiled from office interpretation of the photographs. There was no photograph coverage of the Harbor of Refuge area.

37. LANDMARKS AND AIDS

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

TP-00062

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

Comparisons have been made with U.S.G.S. Quadrangles Cape Henlopen, Delaware-New Jersey and Lewes, Delaware, scale 1:24,000, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart No. 411, scale 1:40,000, 9th edition, dated May 16, 1970 (corrected through Notice to Mariners 20-1970) and Chart No. 1218, 16th edition, 1:80,000 scale, dated October 25, 1969 (corrected through Notice to Mariners 43-1969).

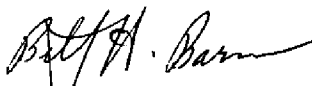
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

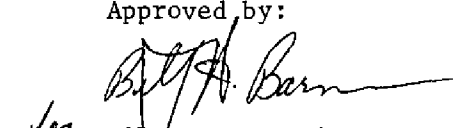
None

Submitted by:

for 
Arnold L. Shands
Cartographer

June 2, 1970

Approved by:

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

TP-00062

49. NOTES FOR THE HYDROGRAPHER

The detail in the area of THE SHEARS and HARBOR OF REFUGE was not delineated. There was no photography covering the area. The position and delineation of any details in this area will be accomplished by the hydrographer.

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.

57 OFFSHORE FEATURES

It was necessary to locate the angle points of the two offshore breakwaters and eleven 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 navigation.

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
Robert S. Tibbetts
Surveying Technician

TP-00062

55 GEOGRAPHIC NAMES

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

NEW NAMES

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 TP-00061.

DODD NECK(R)

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 SALT FLATS(R)

FLAT SANDS - quadrangle sheet

REHOBOTH FLATS - chart 411

THE SALT FLATS is the name used locally for this area. No one even 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 - Nassau, Delaware 19969

Howard E. Millman, Sr. - farmer - Nassau, Delaware 19969

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

ETJ:khp

cc: C141, C142, C14

27

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.

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E. T. Jenkins
Supervisory Cartographer

ETJ:khp

cc: C141, C142, C14

REVIEW REPORT

SHORELINE

TP-00062

61. GENERAL STATEMENT

See Summary included with this report for final 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: LEWES, DELAWARE, and 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 Survey H-9203 and 9154. No significant differences were noted.

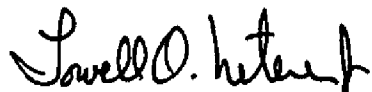
65. COMPARISON WITH NAUTICAL CHARTS

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

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

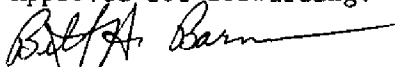
This map complies with project instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:



Lowell O. Neterer, Jr.
Final Reviewer

Approved for forwarding:



Billy H. Barnes
Chief, Photogrammetric Branch, AMC

July 29, 1981

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00062

Atlantic Ocean *SA hf.*

Breakwater Harbor

Broadkill River

Canary Creek

Conrail (RR)

Delaware Bay

Gills Neck

Harbor of Refuge

Lewes

Lewes and Rehobeth Canal

Lewes Beach (Ppl)

Roosevelt Inlet

~~Wolfe Glade~~-- See field edit report *SA hf.*

~~Wolfe Neck~~-- See field edit report *SA hf.*

Dodd Neck-- See field edit report *SA hf.*

Stauffer Glade-- See field edit report *SA hf.*

The Salt Flats-- See the field edit report *SA hf.*

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

| RESPONSIBLE PERSONNEL | |
|---|---|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | |
| POSITIONS DETERMINED AND/OR VERIFIED | Joseph K. Wilson |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES | Lawrence L. Graves |
| 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 Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 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 | II. 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. | |

| NOAA FORM 76-40 (8-74) | | | | U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | | | | ORIGINATING ACTIVITY | | | |
|--|--|---|--------|--|--------|---|------------------------|----------------------|--|----------------|--|
| NONFLOATING AIDS | | | | FOR CHARTS | | | | | | | |
| Replaces C&GS Form 567. | | REPORTING UNIT (Field Party, Ship or Office) | | STATE | | LOCALITY | | DATE | | | |
| <input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED | | Coastal Mapping Section | | DELAWARE | | South Shore Delaware Bay | | Nov. 1970 | | | |
| The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS. | | AMC, Norfolk, VA | | | | | | | | | |
| OPR PROJECT NO. | | JOB NUMBER | | SURVEY NUMBER | | DATUM | | | | | |
| PH-6905 | | TP-00062 | | NA 1927 | | | | | | | |
| DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.) | | LATITUDE | | LONGITUDE | | METHOD AND DATE OF LOCATION (See instructions on reverse side) | | CHARTS AFFECTED | | | |
| | | ° / ' " | | ° / ' " | | OFFICE | | FIELD | | | |
| | | D.M. Meters | | D.P. Meters | | | | | | | |
| | DELAWARE BAY ROOSEVELT INLET | | | | | | | | | 12216 | |
| LIGHT* | South Jetty Light | 38 47.6 | | 75 09.4 | | | | | | 12216 12304 | |
| LIGHT | North Jetty Light | 38 47 | 40.18 | 75 09 | 28.58 | October 3, 1969 69E(C) 2889 | F-V July 15, 1970 | | | 12216 12304 | |
| LIGHT+ | Range Front Light | 38 47.3 | | 75 09.7 | | | | | | 12216 12304 | |
| LIGHT+ | Range Rear Light | 38 47.2 | | 75 09.8 | | | | | | 12216 12304 | |
| | | | | | | | | | | | |
| | *This light reestablished in 1979. +These lights reestablished in 1974. | | | | | | | | | | |
| | DELAWARE BAY SOUTH APPROACH | | | | | | | | | | |
| | | | | | | | | | | | |
| LIGHT | Harbor of Refuge Light (Harbor of Refuge Lighthouse, 1927 | 38 48 | 51.827 | 75 05 | 33.975 | | F-V-1 July 15, 1970 | | | 12216 12304 | |
| | | | 1598.1 | | 819.7 | | | | | | |

| RESPONSIBLE PERSONNEL | |
|---|--|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | |
| POSITIONS DETERMINED AND/OR VERIFIED | Joseph K. Wilson |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW | Lawrence L. Graves |
| ACTIVITIES | |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' | |
| (Consult Photogrammetric Instructions No. 64.) | |
| OFFICE 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 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 L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 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. 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. |
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Replaces C&GS Form 567.

NONFLOATING AIDS 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)

DATE
Nov.
1970

LOCALITY
South Shore Delaware Bay

STATE
Delaware

REPORTING UNIT
Field Party, Ship or Office)
Coastal Mapping S
AMC Norfolk VA

AVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

DATUM

SURVEY NUMBER

JOB NUMBER

OPR PROJECT NO.

TP-00062

TP-00062

1927

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

| DESCRIPTION | |
|---|---|
| (Record reason for deletion of landmark or aid to navigation. | Show triangulation station names, where applicable, in parentheses) |

DESCRIPTION

DES

1

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UDE

-LONGIT-

30

11

AFFECTED

2333

2333

2333

2333

| RESPONSIBLE PERSONNEL | |
|--|---|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | |
| POSITIONS DETERMINED AND/OR VERIFIED | Joseph K. Wilson Lawrence L. Graves |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW | |
| 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 |
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