TP 00121

TP 00121

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.	*Edition No.*
TP-00121	1

Job No.
PH-6905

Map Classification
FINAL

Type of Survey
SHORELINE

LOCALITY

State
DELAWARE

General Locality
DELAWARE BAY

Locality
REHOBOTH BEACH

1969 TO 1970

REGISTRY IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

MAP NOT INSPECTED BY

QUALITY CONTROL OF PHOTOGRAMMETRY DIVISION

PRIOR TO REGISTRATION

NOAA FORM 76-36A (3-72)

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

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [X] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TF-00121
MAP EDITION NO. (1)
MAP CLASS Final
JOB PH-6905

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division, Atlantic Marine Ctr.
Norfolk, VA

OFFICER-IN-CHARGE
Roy K. Matsushige

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation	December 10, 1969	Field	September 26, 1969
Compilation	May 12, 1970	Amendment I	October 7, 1969
Amendment I	April 1, 1971		
Memo (Cancel field edit)	December 14, 1979		
Memo (Compilation Schedule)	June 22, 1981		

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER; [X] MEAN LOW-WATER; [ ] MEAN LOWER LOW-WATER; [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Polyconic

4. GRID(S): STATE: Delaware; ZONE:

5. SCALE — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	D. O. Norman	April 1970
	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	J. Dempsey	Aug. 1970
	CHECKED BY	E. Homick	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	R. R. White	Sept. 1970
	CHECKED BY	A. L. Shands	Sept. 1970
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:10,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	F. P. Margiotta	Sept. 1970
	CHECKED BY	S. Kumer	Oct. 1972
METHOD: Smooth Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	F. P. Margiotta	Sept. 1970
	CHECKED BY	S. Kumer	Oct. 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	None	
6. APPLICATION OF FIELD EDIT DATA	BY	C. E. Blood	Oct. 1972
	CHECKED BY	S. Kumer	Oct. 1972
7. COMPILATION SECTION REVIEW	BY	S. Kumer	Oct. 1972
8. FINAL REVIEW	BY	L. O. Neterer, Jr.	April 1982
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L. O. Neterer, Jr.	May 1982
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	H. D. Wolfe	MAR 10 1983

H. D. Wolfe
Chief, Photo Map and Imagery Unit

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

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

NOAA FORM 76-36B
(3-72)

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

TP-00121

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"
focal length = 152.21 mm

TIDE STAGE REFERENCE
[X] PREDICTED TIDES
[ ] REFERENCE STATION RECORDS
[ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Eastern — [X] STANDARD
MERIDIAN: 75th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
70L(C) 1336 thru 1340	8 April 1970	1310	1:20,000	0.4 ft. above MLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was compiled from the above listed color photographs and was checked by traverse point submitted by the field party.

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

The mean low-water line was compiled from the above listed color photographs, which the stage of tide was computed from predicted tides.

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
TP-00062	No Survey	TP-00180	No Survey

REMARKS

NOAA FORM 76-36C
(3-72)

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

TP-00121

HISTORY OF FIELD OPERATIONS

I. [XX] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION.

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Wilson	July 1970
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 [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY	None	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
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)*: None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED: None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: [ ] REPORT [XX] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [XX] NONE

7. SUPPLEMENTAL MAPS AND PLANS: None

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*: Abstract of traverse positions

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36C
(3-72)

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

TP-00121

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	E. Hartford	Oct. 1970
	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	P. Walbolt	Oct. 1970
	LOCATED (*Field Methods*) BY		
	IDENTIFIED BY	P. Walbolt	Oct. 1970
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. K. Wilson	Oct. 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY		

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*)

70 L (C) 1336-1337, 1339-1340

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70L(C) 1336	Tower		
70L(C) 1340	Tower		
70L(C) 1339	Lewis and Rehoboth Canal East Jetty Light		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. 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
1 - form C & GS 567 C76-40)
4 - forms C & GS 526

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

TP-00121

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	Oct. 1970	Class III Superseded		
Field edit applied; compilation complete	Oct. 1972	Class I		
Final Review	April 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
2 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

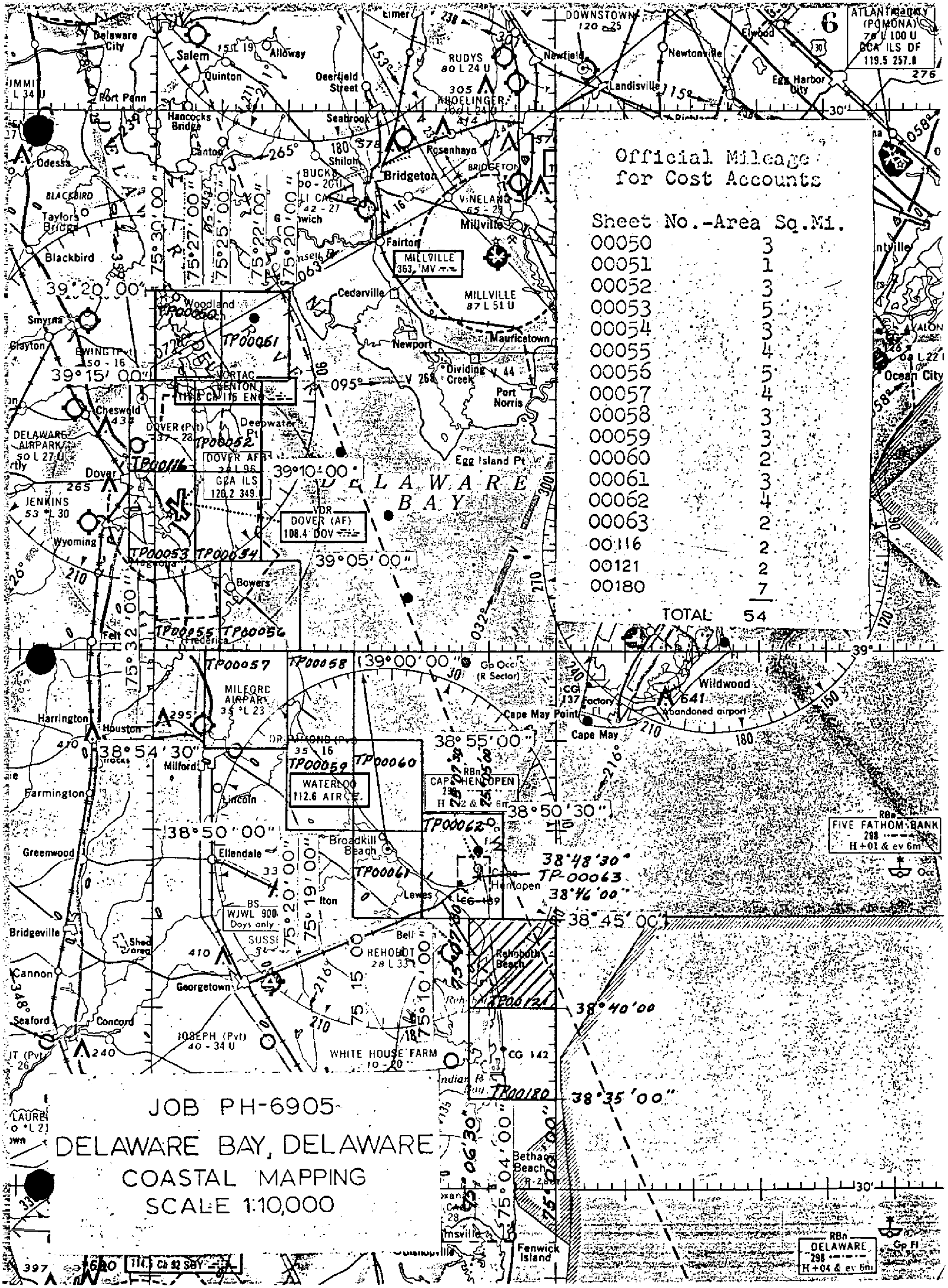
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C.
   ACCOUNT FOR EXCEPTIONS: 4 forms C&GS 526
   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)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

NOAA FORM 76-36D

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092



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

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00121

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°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 Class III maps. Maps TP-00059 through TP-00063, TP-00121 and TP-00180 were field edited and are to be registered as Class I maps. The purpose of the maps 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 establishment of horizontal control by premarking methods in order to meet aerotriangulation requirements.

Photographic coverage for aerotriangulation was provided in April 1970 using color film with the "L" camera, at 1:20,000 scale. This photography was flown near low water; this was determined from predicted tide tables.

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

Compilation was performed from office interpretation of April 1970 color photography. 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 was forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00121

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

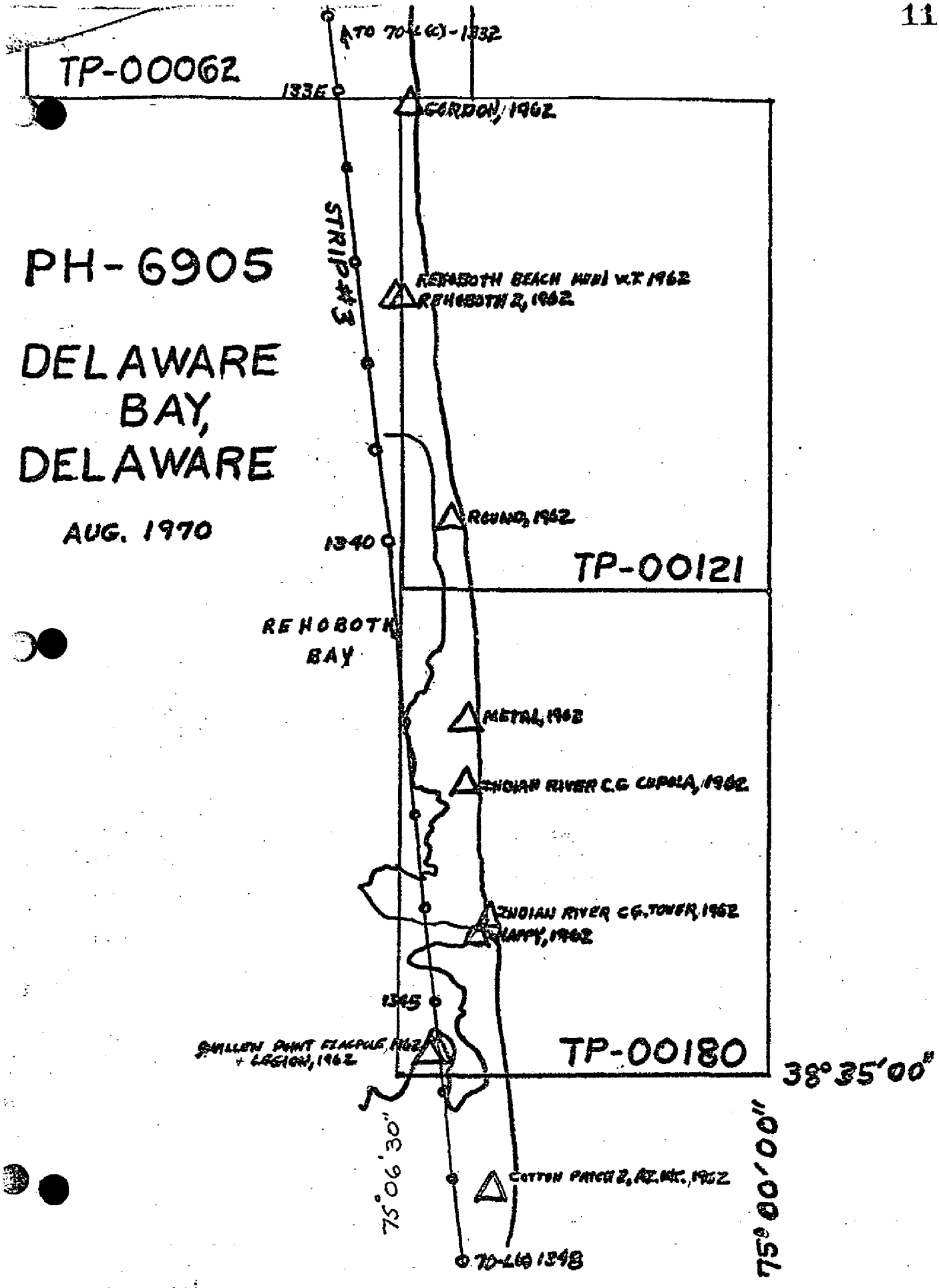
Photography was adequate as to coverage, overlap, definition and quality of diapositives.

Submitted by,

John D. Perrow, Jr.

Approved by,

H. P. Eichert
Chief, Aerotriangulation
Section


TP-00062
ATO 70-LG(C)-1332
1336
GORDON, 1962
STRIP #3
PH-6905
DELAWARE BAY, DELAWARE
AUG. 1970
REHOBOTH BEACH MUNI W.T. 1962
REHOBOTH 2, 1962
REUND, 1962
1340
TP-00121
REHOBOTH BAY
METAL, 1962
INDIAN RIVER C.G. CUPOLA, 1962
INDIAN RIVER C.G. TOWER, 1962
HAPPY, 1962
1345
SHALLEY POINT FLAGPOLE, 1962
+ LEGION, 1962
TP-00180
38°35'00"
75°06'30"
75°00'00"
COTTON PATCH 2, AZ. MK., 1962
70-LG 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.

25. Photography

The photography was adequate.

Respectfully submitted,

Don O. Norman

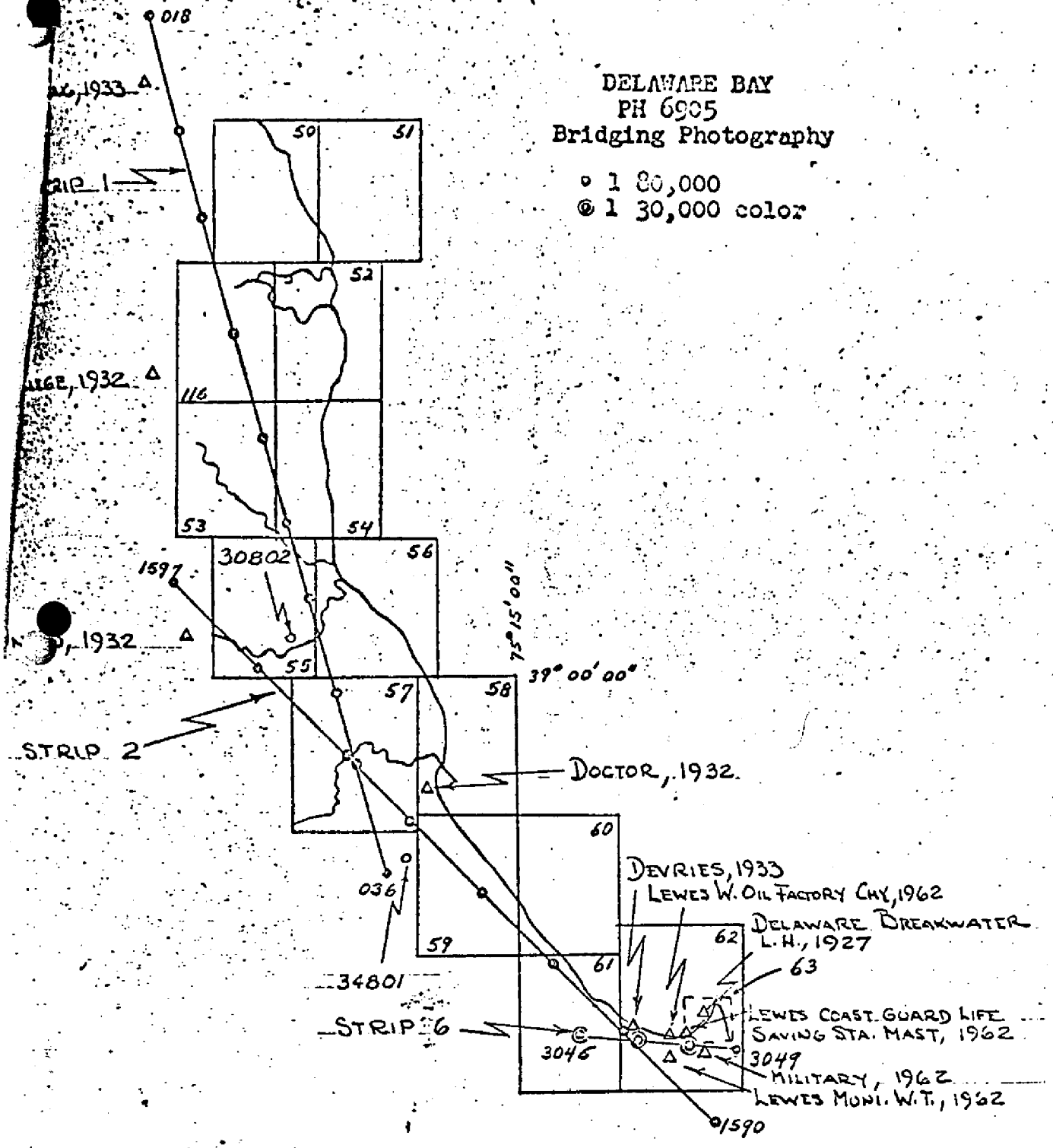
Don O. Norman

Approved and Forwarded,

Henry P. Eichert, Chief
Aerotriangulation Section

DELAWARE BAY
PH 6905
Bridging Photography

° 1 80,000
◎ 1 30,000 color



Legend

△ Control Used in Adjustment

Closures of Bridge To Control Shown in Parenthesis

△ Control Used as Check.

Strip 1

△ Fleming, 1933 Sub. A (-.40, +1.06)
△ College, 1932 RM 2 Sub. A (+2.20, -2.51)
△ 20802 Tie Point
△ Union Sta. A (-6.36, +2.28)
△ Doctor, 1932 RM 6 (-4.63, +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 Cnty., 1962 (+2.54, +.36)
△ Military, 1962 Sub. A (0.0, 0.0)
△ Military, 1962 Sub. B (-.81, +.45)
△ Delaware Break-water L.H., 1927 (-.76, +.39)

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00121	PH-6905	NA 1927	Coastal Mapping Division, AMC

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
ROUND (REHOBOTH BEACH SOUTH OBSERVATION TOWER), 1962	Quad 380751 Sta 1039 Page 135		x=	φ 38°40'40.93650"	1262.28 (587.82)
			y=	λ 75°04'17.39526"	420.48 (1029.84)
GORDON (REHOBOTH BEACH NORTH OBSERVATION TOWER), 1962	380751 1049 Page 145		x=	φ 38°44'57.43166"	1770.96 (79.19)
			y=	λ 75°04'53.84477"	1300.24 (148.64)
REHOBOTH 2, 1962	380751 1046 Page 142		x=	φ 38°43'00.69333"	21.38 (1828.78)
			y=	λ 75°04'58.25338"	1407.34 (42.20)
REHOBOTH BEACH, MUNICIPAL WATER TANK, 1962	380751 1048 Page 144		x=	φ 38°43'00.66745"	20.58 (1829.58)
			y=	λ 75°04'57.66551"	1393.14 (56.40)
ROUND R.M. 2, 1962	380751 1040 Page 135		x=	φ 38°40'41.59111"	1282.46 (567.64)
			y=	λ 75°04'18.91402"	457.19 (993.13)
GORDON R.M. 1, 1962	380751 1050 Page 145		x=	φ 38°44'56.62150"	1745.98 (104.18)
			y=	λ 75°04'55.46475"	1339.36 (109.52)
REHOBOTH BEACH STANDPIPE 1962	Computed from field pos.		x=	φ 38°43'00.31698"	9.8 (1840.3)
			y=	λ 75°04'57.16701"	1381.2 (68.4)
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
F. P. Margiotta	10/12/70	L. O. Neterer, Jr.	October 12, 1970
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

16

COMPILATION REPORT

TP-00121

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°05'00" to 75°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 mean high-water line and alongshore details were delineated from office interpretation of the color tide predicted low water 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 forms are being submitted with this descriptive report.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00121

39. JUNCTIONS

See the attached 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 U.S. Geological Survey Quadrangle, Rehoboth Beach, Delaware, dated 1954, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with National Ocean Survey Charts 411, 9th edition, dated May 16, 1970, (corrected through Notice to Mariners 20-1970), scale 1:40,000 and 1219, 23rd edition, dated August 1, 1970, scale 1:80,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Frank Margietta
Cartographic Technician

Date: October 16, 1970

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00121

FIELD EDIT

Field edit was adequate. The field edit gave M.H.W.L. checks by indicating distances from traverse points to the M.H.W.L. These measurements agreed with office compilation. The field editor designated two areas on photograph 70 L(C) 1337 as containing 7 piling; however, he did not identify these on the photo, so we were only able to locate two of them.

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

This report is submitted for Map Number TP-00121, which was field-edited in October 1970.

52 ADEQUACY OF COMPILATION

The compilation appears to be good.

A third-order traverse was run between stations ROUND RM 2 and GORDON RM 1. This traverse was run mainly for hydrographic signals; however, MHWL measurements were made from each station, and random stations were identified by the reverse method to acertain accuracy of photogrammetric methods.

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

56 SHORELINE AND ALONGSHORE FEATURES

Distances to the mean high water line were measured from each traverse point, as mentioned in item 52 above.

All groins, jettys, breakwaters, piers, bulkheads, etc., were verified. All necessary changes are shown on both the sheet and the referenced photographs.

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 report for TP-00062, except: Form 567 is submitted for one additional aid, LEWES AND REHOBOTH CANAL, EAST JETTY LIGHT.

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.

23 October 1970
Submitted by:

Joseph K. Wilson
Chief, Photo Party 62

TP-00121

55 GEOGRAPHIC NAMES

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

NEW NAMES

WHISKEY BEACH - WHISKEY BEACH is a well known picnic and surfing area. It is sufficiently prominent to warrant mention in an article on Rehoboth Beach in the August 1970 issue of THE WASHINGTONIAN.

DISPUTED NAMES

DEWEY BEACH(R)
Questioned on the Preliminary Names Sheet, DEWEY BEACH is both a beach and an incorporated village. It is also a Post Office Name.

INDIAN BEACH(R)
The name INDIAN BEACH was questioned on the Preliminary Names Sheet. It is a private resort community and beach.

THE SALT FLATS(R) - Please see report for TP-00062.

REFERENCES

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

Chester Davis - boatman - Ocean View, Delaware 19970

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

Fred Wagner - marina owner - Box 813 - Rehoboth 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

TP-00121

61. GENERAL STATEMENT

See Summary included with this report for final map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEY

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. quadrangle: Rehoboth Beach, Delaware, 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 the requirements of the National Standards of Map Accuracy.

Submitted by:

Lowell 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-00121

Atlantic Ocean

~~Bald Eagle Creek~~ not compiled

Bald Eagle Point

Dewey Beach (Ppl)

Dodd Marsh

Head of Bay Cove

Henlopen Acres

Henlopen Acres Yacht Basin

Holland Glade

Holland Neck

Indian Beach (Ppl)

Johnson Neck

Lake Comegys

Lake Gerar

Lewes and Rehoboth Canal

Rehoboth Bay

Rehoboth Beach (Ppl)

~~Rehobeth Flats~~ The Salt Flats see field edit report

See field edit report

Rehoboth Marsh

Silver Lake

Stockley Creek

Thompson Island

~~Wolfe Neck~~ Dodd Neck

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

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

[redacted] LANDMARKS FOR CHARTS

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)

☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	Coastal Mapping Section AMC, Norfolk, VA	Delaware	REHOBOTH	October 17 1972

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	PH-6905	TP-00121	NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE // D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE // D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TOWER	Tower, Concrete, Observation ht. = 67 (75) ft. (Gordon, 1962)	38-44	57.432 1770.96	75-04	53.848 1300.24		F-1 a. 6-15-70	12214 12216
TOWER	Tower, Concrete, Observation ht. = 50 (58)	38-44	48.5 1495.5	75-04	53.0 1279.9		P-1 b. 6-15-70 70 L(C) 1336	12214 12216
TANK	Rehoboth Beach Municipal Water Tank, 1962 (Steel) ht. = 121 (140)	38-43	00.667 20.58	75-04	57.665 1393.14		F-1 a. 6-12-70	12214 12216
STANDPIPE	Rehoboth Beach Standpipe, 1962 (Steel) ht. = 111 (130)	38-43	00.317 9.8	75-04	57.167 1381.2		F-1 a. 6-12-70	12214 12216
TOWER	Tower, Concrete, Observation ht. = 62 (70)	38-40	49.8 1535.6	75-04	18.4 444.7		P-1 b. 6-12-70 70 L(C) 1340	12214 12216
TOWER	Tower, Concrete, Observation ht. = 62 (70) (Round 1962)	38-40	40.936 1262.28	75-04	17.395 420.48		F-1 a. 6-12-70	12214 12216

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	Philip B. Walbolt	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☒ OTHER *(Specify)* Field Editor
POSITIONS DETERMINED AND/OR VERIFIED	Philip B. Walbolt	FIELD ACTIVITY REPRESENTATIVE
	Charles E. Blood	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

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

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

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

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.

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS [redacted] FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [XX] PHOTO FIELD PARTY
- [ ] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

[XX] TO BE CHARTED [ ] TO BE REVISED [ ] TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	Coastal Mapping Section AMC, Norfolk, VA	Delaware	REHOBOTH	Oct. 17, 1972

The following objects HAVE [?] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	PH-6905	TP-00121	NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	LEWIS AND REHOBOTH CANAL EAST JETTY * LIGHT	38-41.3		75-05.9				12216
	*This light was re-established in 1979.							

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	Philip B. Walbolt	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☒ OTHER *(Specify)* Field Editor
POSITIONS DETERMINED AND/OR VERIFIED	Philip B. Walbolt	FIELD ACTIVITY REPRESENTATIVE
	Charles E. Blood	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

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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

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

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

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

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.

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____________________

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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