TP-00061

NOAA FORM 76 (3-76)	i -3 5
U.S. DEPARTMENT OF	
NATIONAL OCEANIC AND ATMOSPI NATIONAL OCEAN	HERIC ADMINISTRATION SURVEY
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FIELD EDITED MAP	
Map No.	Edition No.
TP-00061	1
Job No.	
PH-6905 Map Classification	
FINAL	
Type of Survey	·
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*U. S. GOVERNMENT PRINTING OFFICE:1976-669-248

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY SURVEY	TF-00061
	☑ ORIGINAL MAPEDIT	ION NO. (1)
DESCRIPTIVE REPORT DATA RECORD	☐ RESURVEY MAP CLA	ss Final
DESCRIPTIVE REPORT - DATA RECORD	_	
PHOTOGRAMMETRIC OFFICE	REVISED JOB	Рн- 6905
Coastal Mapping Division	LAST PRECEEDING MAP ED	
Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY JOB ORIGINAL MAP CLA	PH
OFFICER-IN-CHARGE	RESURVEY SURVEY	
Roy K. Matsushige, CDR	REVISED 19_TO	19
I. INSTRUCTIONS DATED		
1. OFFICE	2. FIELD	
Aerotriangulation December 10, 1969 Compilation May 12, 1969 Amendment 1 April 1, 1971 Memo (Cancel field edit) December 14, 1979 Memo (Completion Schedule) June 22, 1981	Field September Amendment 1 October	26, 1969 7, 1969
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Z VERTICAL: MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)	
3. MAP PROJECTION	4. GRID(S)	
Polyconic	Delaware	
5. SCALE 1:10,000	STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	D. O. Norman	April 1970
METHOD: Analytic LANDMARKS AND AIDS BY		1 1070
2. CONTROL AND BRIDGE POINTS PLOTTED BY CHECKED BY	J. Dempsey F. Homick	April 1970 April 1970
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	A. L. Shands	May 1970
COMPILATION CHECKED BY	L. O. Neterer, Jr.	May 1970
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
SCALE: 1:10,000 CHECKED BY	NA R. R. White	June 1970
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	R. J. Pate	June 1970
CONTOURS BY	NA NA	
METHOD: Smooth Drafted CHECKED BY	NA	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY	R. R. White	June 1970
CHECKED BY	R. J. Pate R. J. Pate	June 1970 June 1970
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R. J. Pate A. L. Shands	April 1972
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	S. S. Kumer	Dec. 1972
7. COMPILATION SECTION REVIEW BY	S. S. Kumer	Dec. 1972
8. FINAL REVIEW BY	L. O. Neterer, Jr.	Jan. 1982
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L. O. Neterer, Jr.	May 1982
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	H, D. Wolfe	MAR 1 0 1983
NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES		- 0 1003

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	PRE-MARKED OR IDENTIFIED BY	NA			
	RECOVERED (Triangulation Stations) BY	None			
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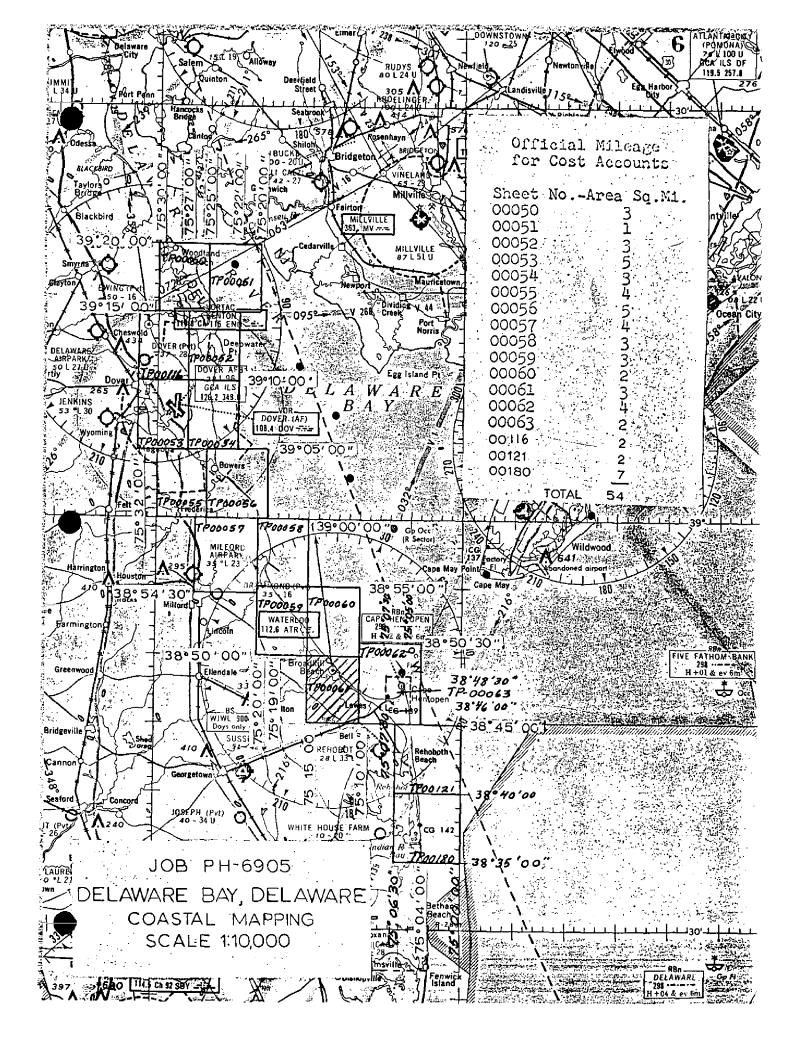
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	RECOVERED (Triangulation Stations) BY	None		
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NOAA FORM 76-36D (3-72)

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

TP-00061

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I. MANUSCRIPT COPIES	·	<u> </u>						
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00061

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 39020', south to Indian River, latitude 38035'.

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 will 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 in 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. 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 December 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 was forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00061

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.

25. Photography

The photography was adequate.

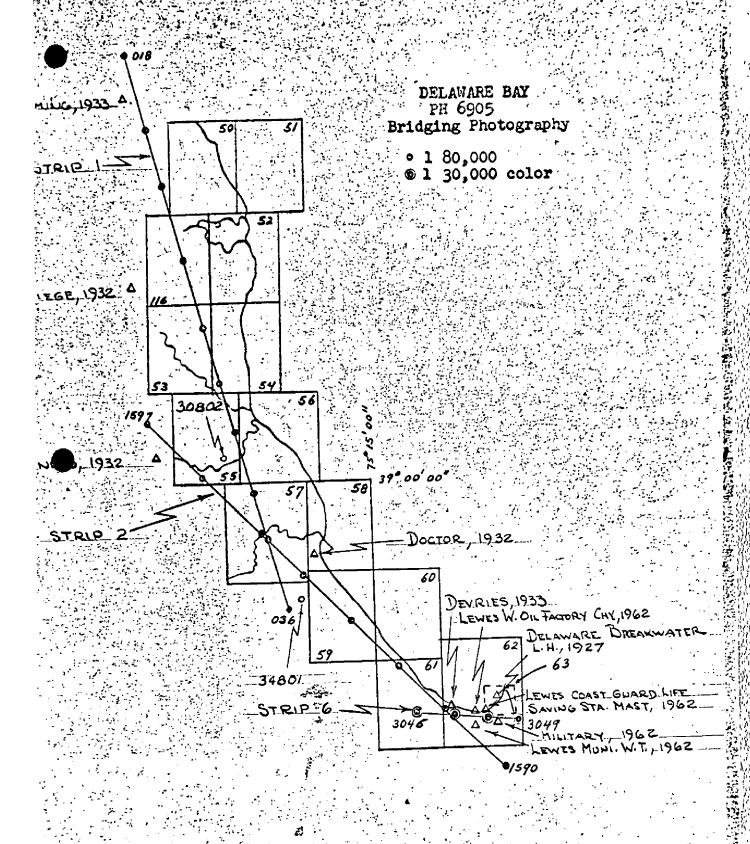
Respectfully submitted,

Don O. Norman

Don O. Norman

Approved and Forwarded,

Henry P. Eichert, Chief Aerotriangulation Section



Contract Oses in ADJUSTMENT

CLOSURES OF BRIDGE TO CONTROL SHOWN IN DAREHTHESIS

COLTROL USED AS CHECK

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

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

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NOAA FORM 76-41 (6-75)					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		
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COMPILATION REPORT

TP-00061

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 the mean high and mean low water lines graphically.

32. CONTROL

The horizontal control was adequate. Refer to the Photogram-metric Plot Report, dated 3 April 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to this 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 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-00061

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 WIH 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 23, 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: June 1970

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

FIELD EDIT REPORT
Job PH-6905
West Shore Delaware Bay
Delaware
Map TP-00061

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

52. ADEQUACY OF COMPILATION

The compilation appears to be good; and after application of field edit corrections, additions, and deletions; compilation will be adequate.

A second-order traverse was run between triangulation stations BAYSIDE LAB, 1962 and DOCTOR, 1933. Two traverse stations, which are within the limits of this map, were established and monumented, namely: GROIN and CURVE, 1970. 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.

Two third-order traverses were run. One from BAYSIDE LAB, 1962 to GROIN, 1970 and one from CURVE, 1970 to WHITE, 1970. These traverses were run to provide hydrographic signal locations and to test the horizontal accuracy of the maps. Points tested are 61-03 and 61-04, and 61-06 thru 61-10. 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. The Geographic Name Sheet and a copy of the report was forwarded to Rockville on October 13, 1970, reference 62-4-71.

56. SHORELINE AND ALONGSHORE FEATURES

Distances were measured to the mean high-water line from many of the hydrographic signal locations. A copy of the measurements is included with the field edit data.

In all exposed areas, the shoreline is generally fast, even though backed by large marshes. This is due to the piling up of sand across the seaward side of the marshes by storm and wind tides. In the narrow protected creeks, there is considerable shoreline marsh.

There appears on the photographs several areas that one would take to be ledge, however these areas are what some people call Sabellarrid Reefs and are made by a marine worm, Sabellaria buldaris, that builds vertical tubes to live in by collecting grains of sand that are suspended in the water by turbulence, and bonds them

TP-00061

55 GEOGRAPHIC NAMES

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

DISPUTED NAMES

BLACK OAK GUT(R)

BLACK HOG GUT

The descriptive name BLACK CAK GUT is the only name used for this feature.

BROADKILL RIVER(R)

BROADKILL CREEK

Although disputed locally, most residents call this feature BROADKILL RIVER. Also, please see <u>DELAWARE PLACE NAMES</u>, Geological Survey Bulletin 1245, page 21.

OLD MILL CREEK(R)

RED MILL CREEK

The name OLD MILL CREEK is used locally. Please see also DELAWARE PLACE NAMES, Geological Survey Bulletin 1245, page 83.

STAR LANDING(R)

BLACK HOG LANDING

STAR LANDING is located at the southern point of the confluence of OLD MILL CREEK and BLACK OAK GUT. Where it is placed on the quadrangle sheet is not even navigable to a rowboat. The name Black Hog Landing is not known locally.

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:

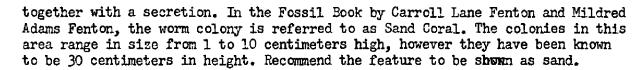
Norman H. Thomas - contractor - Milton, Delaware 19968

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



57. OFFSHORE FEATURES

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No offshore features are noted. A wreck, located at approximate Latitude 38-48.2 and Longitude 75-10.5 was not visible. This item is a pre-survey review item which will be completely investigated by the Hydrographer.

58. LANDMARKS AND AIDS

There are no nautical landmarks or fixed aids to navigation within the limits of this map. The Tower at Broadkill Beach is gone and the landmark shown as a Stack is an aeronautical aid which can not be seen well from seaward and is not recommended for nautical charts. Form 567, recommending deletion of these two landmarks, was forwarded to Atlantic Marine Center in October 1970 along with the field edit data for Map TP-00062.

59. GENERAL STATEMENT

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

Horizontal control was pre-marked 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 2, 1971 Submitted by:

Robert S. Ilbettz Robert S. Tibbetts Surveying Technician

REVIEW REPORT

SHORELINE

TP-00061

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; 12216 20th edition, June 27, 1981, 1:40,000 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

January 22, 1982

Approved for forwarding;

Billy H. Barnes

Chief, Photogrammetric Branch, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00061

Black Hog Gut-see field edit report FUW Hazzard Landing

Black Hog Landing -see field edit report

Broadkill Beach Long Reach

Broadkill Beach (Ppl)

No Mans Friend Reach

Broadkill Neck Old Mill Creek

Broadkill River Oyster Rocks (locality)

Broadkill Sound Oyster Rocks Neck

Canary Creek Petersfield Island

Covington Neck Wall Island

Crooked Creek White Neck

Davidson Marsh Wiltbank Landing

Delaware Bay see field edit report - Drapers Ditch

Ditch Creek see field edit report - Petersfield Ditch

Doty Glade see field edit report - Star Landing

Fisher Creek see field edit report - Black Oak Gut

latiand Posch

Flatland Reach

Great Marsh

Green Hill (Ppl)

Approved by:

Charles E. Harrington Chief Geographer, OA/C3x5

Information of Dissemination of Project Material PH-6905

Delaware Bay

NATIONAL ARCHIVE/FEDERAL RECORD CENTER

Computer Readout
Control Station Identification Cards
Field Edit Ozalids
Field Photographs
NOAA Form 76-41 (Descriptive Report Control Record)

Project Diagrams

Plot Report

Bureau Archives

Descriptive Report Registered Maps

Reproduction Division

8x Reduction Negative of Each Maps

Office of Staff Geographer
Geographer Names Standard

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*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	ed by field obser- ground survey methods.		ds.

NOAA FORM 75-40 (8-74)

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

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
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