10359

Orig

Diag. Cht. Nos. 5902-2 & 6002-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No. Ph-155 *Office No.* T-10359

LOCALITY

State Oregon

General locality Columbia River

Locality Fort Stevens Park

19 ~~57~~ 55-1958

CHIEF OF PARTY

V. Ralph Sobieralski, Chief of Party
Lorne G. Taylor, Photogrammetric Office

DATE

USCOMM-DC 5087

10359

FORM 181
(4-23-54)

2.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 10359

Project No. (II): Ph-155 Quadrangle Name (IV):

Field Office (II): Astoria, Oregon

Chief of Party: V. Ralph Sobieralski
Unit Chief: W. P. James

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III): 5 Oct. 1955)
12 Oct. 1955) II & III
3 July 1957)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:5000
Pantograph Scale: 1:10,000

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Date registered (IV): 3/27/62

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): GALENA (ASTOR) RM 2, 1958

Lat.: 46° 08' 59.2908" Long.: 123° 57' 16.7875" Adjusted X
Unadjusted

Plane Coordinates (IV): State: Oregon Zone: North

Y= 924,044.93 X= 1,124,593.83

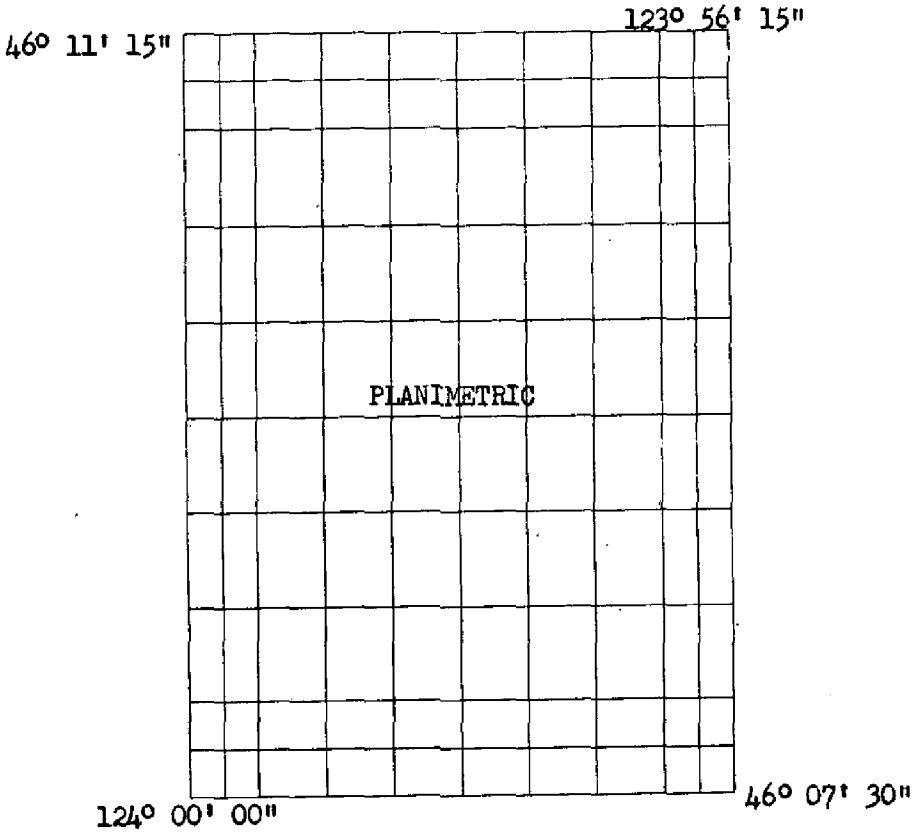
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



Areas contoured by various personnel
(Show name within area)
(II) (III)

FORM 181b
(4-23-54)

4.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. P. James & C. H. Bishop Date: Sept. 1957

Planetable contouring by (II): Date:

Completion Surveys by (II): Supplementary landmarks located Date: 1958

Mean High Water Location (III) (State date and method of location): Sept. 1957 by field inspection and compilation by Kelsh Instrument.

Projection and Grids ruled by (IV): J. B. Phillips Date: 8-30-57

Projection and Grids checked by (IV): J. B. Phillips Date: 8-30-57

Control plotted by (III): D. N. Williams Date: 11-22-57

Control checked by (III): L. L. Graves Date: 11-22-57

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr. Date: 10-28-57

Stereoscopic Instrument compilation (III):
Planimetry L. L. Graves, shoreline Date: 1-6-58
D. N. Williams, Interior 10-13-58
Contours Date:

Manuscript delineated by (III): L. L. Graves, Scribing Date: 3-10-60
C. C. Harris, Stick-up 7-1-60

Photogrammetric Office Review by (III): J. E. Deal Date: 8-30-60

Elevations on Manuscript checked by (II) (III): Date:

COMM-DC-57842

FORM 181c
(4-23-54)

5.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Single lens "W" & "L"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55-W-8596	6-6-55	11:05	1:10,000 ratio	3.2' above M.L.L.W.
55-W-8600 & 8601	"	11:05	"	"
55-W-9781 & 9782	9-24-55	11:50	1:25,000 contact	3.0' "
55-W- 9785	"	11:50	"	"
57-L-1819 thru 1821	8-18-57	14:45	1:10,000 ratio	5.5' "

Tide (III)

Ratio of Ranges	Mean Range	~~Spring~~ Range
	6.5	8.2
	6.0	7.6

Reference Station: Astoria, Oregon
Subordinate Station: Entrance North Jetty
Subordinate Station:

Washington Office Review by (IV): A C Hayward Date: 2/23/62

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

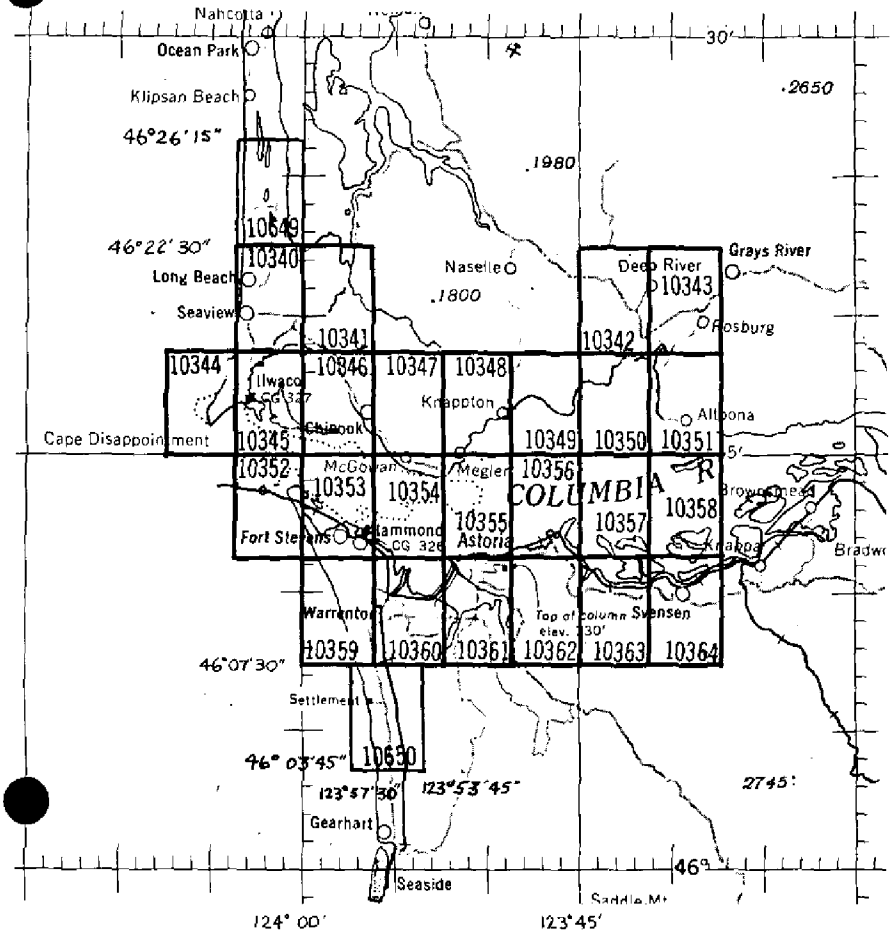
Land Area (Sq. Statute Miles) (III): 6
Shoreline (More than 200 meters to opposite shore) (III): 5
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 4 Recovered: 2 Identified: 2
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

COMM-DC-57842

PLANIMETRIC PROJECT PH-155

MOUTH OF COLUMBIA RIVER, WASH.-OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS		
SHEET NO.	LIN. MI. SHORELINE	AREA SQ. MILES
10340	9	10
10341	8	12
10342	4	13
10343	7	13
10344	6	2
10345	13	3
10346	11	6
10347	3	12
10348	4	11
10349	4	8
10350	6	3
10351	8	9
10352	3	1
10353	9	4
10354	3	1
10355	4	2
10356	5	5
10357	8	1
10358	21	3
10359	5	6
10360	14	11
10361	15	9
10362	8	12
10363	17	10
10364	12	12
10649	8	8
10650	4	8
TOTAL	219	193

FIELD INSPECTION REPORT

Map Manuscript T-10359

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth of Columbia River to Altoona, July to November 1957. (IN T-10699) DKH

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10359

Project Ph-155

Refer to the Stereoplanigraph Bridge Reports for Strips #1 and #2 which are included in the Descriptive Report for T-10353 1957.

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 10359 PROJECT NO. Ph-155 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
GALENA (ASTOR)	Field	N.A.	924,044.96	4044.96 (955.04)		1232.9 (291.1)	
RM 2, 1958	Comp.	1927	1,124,593.80	4593.80 (406.20)		1400.2 (123.8)	
DO	"	"	924,071.14	4071.14 (928.86)		1240.9 (283.1)	
Sub Station			1,124,582.78	4582.78 (417.22)		1396.8 (127.2)	
MIT, 1958	"	"	46 11 02.641			81.5 (1771.1)	
			123 58 09.662			207.2 (1079.6)	
DO	"	"	46 11			72.3 (1780.3)	
Sub Station			123 58			208.3 (1078.5)	

1 FT. = .3048006 METER

COMPUTED BY: J.L.H. DATE 1-30-59 CHECKED BY: J.ED 1-30-59 DATE

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10359

Project Ph-155

31. Delineation:

The Kelsh Instrument was used for the compilation of planimetry.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

1. Exhibit #87, Fort Stevens Park, Scale 1" = 800' Oregon State Highway Department.

2. Hammond, Map, Scale unknown

3. Fort Stevens Addition, Paper Tracing 1" = 200'

4. City of Warrenton, Map 1" = 1000' Approx.

5. Part of Fort Stevens - Hammond Boundary, Paper Tracing 1" = 200'.

6. Exception to Map of Fort Stevens, Portland District C. of E. Scale 1" = 50'.

7. Ft. Stevens Management Area, 4" = 1 Mile.

8. Real Estate, Columbia River at the Mouth, (Fort Stevens) Scale 1" = 300'.

9. 6 Blueprints, Scale 1" = 400' and 1" = 200', Sections 4, 9, 29, 32 and 33 of T-7N, R-10-W and T-8N, R-10-W.

34. Contours and Drainage:

Contours are not applicable.

Most of the drainage was field inspected. Any drainage not field inspected was interpreted in the compilation office assisted by reference to the Warrenton, Oreg. - Wash. 7½ minute U.S.G.S. quadrangle.

35. Shoreline and Alongshore Details:

The shoreline was adequately field inspected.

Foreshore areas visible on the photographs were compiled.

None of the photographs were taken at or near M.L.L.W. and no approximate low-water lines were compiled.

36. Offshore Details:

The "Peter Iredale" wreck, which is a landmark in the area, is shown just offshore from the M.H.W. line. There are no other offshore features visible on the photographs.

37. Landmarks and Aids:

Forms 567 are submitted for two landmarks.

38. Control for Future Surveys:

Forms 524 are submitted for two monumented recoverable topographic stations. They are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made to the north with T-10353, to the east with T-10360 and to the south with T-10650. The Pacific Ocean is to the west.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable. There are no areas believed to be of sub-normal horizontal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute Warrenton, Oreg.-Wash. quadrangle, Scale 1:24,000, published in 1953.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, 34th Edition Oct. 10, 1960, Corrected through Jan. 7, 1961 and Nautical Chart No. 6002, Scale 1:180,789, 10th Edition July 9, 1942, Revised May 23, 1960, Corrected through Jan. 7, 1961.

Items to be Applied to Nautical Charts Immediately:

None.

Items to be Carried Forward:

None.

Approved:

Fred Natella

Fred Natella, CAPT, C&GS
Portland District Officer
for
Lorne G. Taylor, CDR, C&GS

Respectfully submitted:

J. Edward Deal

J. Edward Deal
Cartographer

MAP Manuscript T-10359

49. Notes to the Hydrographer:

Two recoverable topographic stations were located by Kelsh Instrument and the sub station method. They are:

DUNE, 1957
JEEP, 1957

The station BEACH ROAD (USE) 1935 is considered to be of less than 3rd order accuracy and has been shown as a recoverable topographic station.

GALENA (ASTOR R.M. 2) 1942 was recovered and identified by sub station method.

Form 7-8

PHOTOGRAMMETRIC PROJECT REVIEW

T-10359

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations None 8. Bench marks None

9. Plotting of sextant fixes ✓ 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges None 16. Aids to navigation None 17. Landmarks None 18. Other alongshore physical features ✓ 19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Plantable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features ✓

CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads None 30. Other cultural features ✓

BOUNDARIES

31. Boundary lines ✓ 32. Public land lines None

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay None 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Plotter ✓

40. _____ Hydrographer _____ Edward Deal Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

_____ Cartographer _____ Supervisor

43. Remarks

Form 567
(10-15-5

U.S. DEPARTMENT OF COMMERCE
COAST AND [illegible]DETIC SURVEY

T-10359

[illegible] LANDMARKS FOR CHARTS

TO BE CHARTED
[illegible]
} STRIKE OUT TWO

Portland, Oregon 17 Aug., 1961

I recommend that the following objects which have [illegible] been inspected from seaward to determine their value as landmarks be charted on [illegible] the charts indicated.

The positions given have been checked after listing by J. E. Deal

Fred Natella *Chief of Party.*

STATE OREGON

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	″ D.M. METERS	LONGITUDE* ° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
DAYMARK	Large Daymark on Triangulation Sta. GALENA R.M. 2 (1942) 1958 Ht. = 21'(93')		46 08	59.291 1830.7	123 57	16.788 360.3	N.A. 1927	Triang-ulation	1958		X		6151.
DAYMARK	Large Daymark on Triangulation Sta. MIT, 1958 Ht. = 25'(106')		46 11	02.643 61.5	123 58	09.662 207.2	"	"	"		X		"

Note: Inquiry was made at the Portland District, C. of E. on 8-17-61 and the Daymarks are in position and in good condition.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 27128

T-10359

48. Geographic Names:

Abbot Lake
Burke Lake
Camp Clatsop Military Reservation
Cemetery Lake
Clear Lake
Coffenbury Lake
Crabapple Lake
Creep and Crawl Lake
Fort Stevens State Park
Kyle Lake
Leinenweber Lake
Long Lake
*Neacoxie Creek
Wild Ace Lake

* B.G.N. Decision

George M. Bacon
Geographic Names Section
25 January 1963

REVIEW REPORT
T-10352 through 10364 and T-10650
Planimetric December 18, 1961

62. Comparison with Registered Topographic Surveys

Map No.	Scale	Year	Map No.	Scale	Year
317	1:22,962	1850-51	1806	1:10,000	1887
1112	1:10,000	1868	4226	1:20,000	1926
1123	"	1868	4250	"	"
1138	"	1869	4251	"	"
1139a&b	"	1869	4263	1:10,000	1926
1234	"	1870	4264	"	"
1235	"	1870	6521a	"	"
1249	"	1870	6521b	"	1936

The manuscripts covered by this review report supersede the surveys listed above for purposes of nautical chart construction.

63. Comparison with Maps of Other Agencies

Comparison was made with the latest existing maps during the photogrammetric review. Each report lists under "Comparison with Maps, etc." the quadrangles that were used.

64. Comparison with Contemporary Hydrographic Surveys

Where applicable, each map was compared with the latest hydrographic survey. All available hydrographic surveys are unverified. Discrepancies are listed under the heading of each map. If the map is not listed, no discrepancies exist during review.

T-10352 - The submerged rocks shown on the manuscript which appear to once have been part of the jetty were compiled in the photogrammetric office from a U.S. Engineer Survey dated 1956. This feature was not developed by hydro on sheets H-8421 through H-8423. See the Descriptive Report for this survey for details.

T-10354 - A pile is shown on the manuscript above MHW whereas hydro shows this pile submerged at latitude 46°14'37" and longitude 123°55'16". The pile was field inspected.

T-10356 - A rock is shown on the manuscript as awash MHW and on hydro sheet H-8420 as (4) with a position difference of approximately 5 meters. The rock is located at latitude 46° 12'45" and longitude 123°45'18". The height of the rock was given by the field inspector.

T-10357 - Piles and/or shags shown on Chart 6151 in the vicinity of latitude 46°13'30" and longitude 123°42'30" and latitude 46°12'30" and longitude 123°42'30" are not shown on the unverified smooth sheet. They are too far offshore for photogrammetric location.

65. Comparison with Nautical Charts

Comparison was made with Charts 6151 and 6152, 34 Edition October 10, 1960 corrected June 26, 1961. Nautical Charts did not use these surveys for the construction of the new edition. Many minor changes in offshore features and planimetric detail were noted. Only dangers to navigation or significant changes in detail have been noted for each sheet.

T-10354 - Some differences were noted in; shoreline features in the vicinity of Hammond at latitude 46°11'30", longitude 123°56'00". The pile area in the vicinity of latitude 46° 12'30", longitude 123°52'30" is incomplete. It is a shoal area and of no danger to navigation.

T-10361 - A difference exists in the position of a shag at latitude 46°11'03" and longitude 123°51'46" in Youngs Bay. Landmark "Drum" should be deleted from Chart as recommended on Form 567.

66. Adequacy of Results and Future Surveys

These maps comply with instructions and meet National Standards of Map Accuracy.

Respectfully submitted:

A. K. Heywood

Approved:

Chief, Review and Edit Sec.

Chief, Div. of Nautical Charts

6/6/62

Chief, Div. of Photogrammetry

Chief, ~~Div. of Coastal Surveys~~ Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10359

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.