

8157

Diag'd. on Diag. Ch. No. 1220-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. \_\_\_\_\_ Office No. T-8157

LOCALITY

State Virginia

General locality Chincoteague

Locality Chincoteague East

194 2

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

Lieut. Comdr. William D. Patterson

LIBRARY & ARCHIVES

DATE September 18, 1946

## DATA RECORD

T- 8157

Quadrangle (II): Chincoteague East Project No. (II): CS-278-C

Field Office: Salisbury, Md. Chief of Party: F.L.Gallen

Compilation Office: Tampa, Fla. Chief of Party: K.G.Crosby

Instructions dated (II III): 3/4/42 Copy filed in Descriptive  
Report No. T- (VI)

Completed survey received in office: 11/16/42

Reported to Nautical Chart Section: 11/42

Reviewed: 3/30/43 Applied to chart No. Date:

Redrafting Completed: 5/31/43

Registered: Published: 12/14/43

Compilation Scale: 1:20,000 Published Scale: 1:31,680

Scale Factor (III): 1:00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L.

Reference Station (III): BLAKE, 1934

Lat.: 37°57' 08.437" (260.1 m) Long.: 75°21' 25.526" (623.2 m) Adjusted  
Unadjusted

State Plane Coordinates (VI):

Virginia coordinate system, South Zone

X = 2,906,110.95 Feet Y = 604,557.39 Feet

Military Grid Zone (VI) A

769  
803  
381

# PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8780	4/14/42	2:19	1:20,000	-0.5 Ft.
8781	"	2:21	1:20,000	"
8782	"	2:23	1:20,000	"

Tide from (III): Predicted tides, Piney Island, Virginia

Mean Range: 2.1 ft.

Spring Range: 2.5 feet

Camera: (Kind or source) U.S.C. & G. S. Nine lens (focal length 8 1/2")

Field Inspection by: C. Silver, C. A. Moritz date: June 1942

Field Edit by: Wendell Bever, Photogrammetric Aid date: Dec.1942

Date of Mean High-Water Line Location (III): 4/14/42

Projection and Grids ruled by (III) Washington Off. date: 9/12/42

" " " checked by: " " date:

Control plotted by: A.L.Kidwell, Jr. Topo. Engr. date: 9/16/42

Control checked by: E.L.Maxwell, Deck Officer date: 9/16/42

Radial Plot by: Tampa Office Personnel date: 9/18/42

Detailed by: C.A.J. Pauw, Senior Engr. Aid date: Oct.1942

A.L.Kidwell, Jr. Topo Engr.

Reviewed in compilation office by: J.H.S. Billmeyer date: Nov.1942  
Princ. Engr. Drafts.

Elevations on Field Edit Sheet

checked by: Wendell Bever, Photogrammetric Aid

date: Dec.1942

STATISTICS (III)

Land Area (Sq. Statute Miles): 16.55

Shoreline (More than 200 meters to opposite shore): 54.80

Shoreline (Less than 200 meters to opposite shore): 14.25

Number of Recoverable Topographic Stations established: 10

Number of Temporary Hydrographic Stations located by radial plot: 6

Leveling (to control contours) - miles: 0

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

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

Remarks:



## RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

### Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.  
published quadrangle at 1:20,000 scale.  
Black and white cloth-mounted copy of the ~~map~~ <sup>manuscript</sup>. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For ~~political boundaries,~~ woodland, ~~march, and swamp limits,~~ refer to the published quadrangle for the finally adopted positions. outlines.

Descriptive Report.

Division

Filed in the Photogrammetric Section — Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit. Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions  
to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T.  
Adams, 1944.~~

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L.  
Gallen, 1944.

Season's report on field work by Commander R. L.  
Schoppe, 1944.

Delivered to the Army Map Service in accordance  
with the contract

Film negatives and film positives of the color  
separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the  
first edition of the quadrangle with notes in red  
indicating changes desirable at the next printing.



COMPILATION REPORT  
TO ACCOMPANY  
SHEET NO. T-8157  
Chincoteague East

CONTROL

Control on this sheet was abundant, there being eight triangulation stations within the detail limits and four stations which fall on the borders.

"Assateague Island Old Life Saving Station" is shown as a triangulation station on single lens photograph No. A-147. No geographic position was available, and therefor this station was located by radial plot only. It is shown on this map drawing as an H & T station, and should be changed if it proves to be a triangulation station.

*Changed to  $\Delta$  Assateague Coast Guard, 1902.*

RADIAL PLOT

*(See Review)*

The discussion of the main radial plot, which included this sheet was made a part of the descriptive report for sheet No. T-8165.

A complete and independent check of the main radial plot was made, while additional radial points were being intersected. Because the nine lens photographs did not adequately cover the area, liberal use was made of the single-lens photographs.

Along the northern most portion of this map drawing the radial positions are doubtful. We did not have all the photographs required to complete the radial plot. Consequently a large number of green (doubtful) radials appear in this area.

Of all the radial points, 35% resulted from the main radial plot. Of the 65% additional radials, 30% are doubtful, these being mostly two-cut fixes. All H & T stations resulted from the main radial plot, with the single exception of station "Mon", which was plotted from co-ordinates furnished to us by the Baltimore office.

DETAILING

The Baltimore office furnished a copy of the southern edge of sheet T-8155 to a scale of 1:19,720. With the aid of the projector this strip was matched to this map drawing (scale 1:20,000).

This map drawing was extended on the southern border beyond the detailing limits, so as to include Fishing Point. Hence the western edge of this sheet joins sheet No. T-8158 north of Latitude  $37^{\circ} 52' 30''$ , and sheet No. T-8168 south of same latitude.

SUPPLEMENTAL DATA

No graphic control surveys by this Bureau, or maps or plans of other organizations were used to supplement the photographs.

LANDMARKS AND AIDS TO NAVIGATION

Three aids to navigation have been listed upon form 567, which has been made a part of this report.



### HYDROGRAPHIC CONTROL

There are twelve monumented and six temporary topographic stations along the shores, as well as four triangulation stations, which are conveniently located for the control of hydrographic surveys.

Toms' Cove Light (~~also known as H & T station "Zip"~~) apparently was moved, for its present location does not agree with position as plotted from coordinate of 1934. (*Zip destroyed*)

No picking cards were furnished for stations Law, Ron and Fill.

### COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLE

Allowing for minor variations in the shoreline of the marsh islands, this map drawing compares favorably with the Chincoteague Island Quadrangle, compiled by the Corps of Engineers, U. S. Army, revised edition of 1938.

### COMPARISON WITH NAUTICAL CHART

This map drawing and U.S.C. & G.S. Chart 1220 (scale 1:80,000) compare favorably, no important changes having been observed. Due to difference in scale, minor discrepancies are not distinguishable.

Respectfully submitted,

*Cornelius A. J. Pauw*  
Cornelius A. J. Pauw,  
Sr. Engineering Aid

Forwarded by:

*Kenneth G. Crosby*  
Kenneth G. Crosby,  
Chief of Party....



FIELD EDIT REPORT  
Quadrangle T-8157  
Project CS-278-C  
F.L.Gallen, Chief of Party

1. The land area of this sheet comprises three large islands, southern Assateague, Piney Island, and eastern Chincoteague Island. The greater part of the area is marshy ground with no cultivated land present. The highest elevations are located on the sand dunes of southern Assateague Island. Some of the largest dunes exceed 40 feet in elevation, however they were not shown by contours due to their unstability both vertically and horizontally. Wooded areas of pine are fairly common, but scattered, over the area. *(see Review)*
4. The compilation report states that no geographic position was available for "Assateague Island Old Life Saving Station". However, the geographic position for this station was found in the list of geographic positions for the States of Maryland and Virginia, under accession No. of Computation G-1800, page 124. Its position shown as an H & T station was changed to that of a triangulation station. Its plotted position checks with its geographic position. *Listed in G.P. as Coast Guard 1902*
15. Bridge classification was carried out in accordance with the instructions.
16. In Chincoteague numerous large chicken houses are indicated on the sheet. Though large and substantial it may be questionable whether their presence on the final print would be desirable.
17. Political boundaries were obtained from maps issued by the Virginia State Roads Commission and were verified in the field.
18. Geographic names were taken from a special report CS-278-C, submitted by A. J. Wraight, Photogrammetric Aid.
19. At the Assateague Coast Guard Station a buried cable is shown in its approximate position. As no method of actual location was possible information was obtained from Coast Guard officials as to its general location.
46. Field edit consisted of visual inspection of the area. Where necessary taped distances were used in location. All additions, deletions, and corrections were made on the map manuscript and transferred to the smooth copy after the field work had been accomplished.

The inking on the field edit sheet was done in accordance with the following scheme:

<u>FEATURES</u>	<u>COLORS</u>
Additions, classification and notes	Black
Water Culture	Blue
Deletions	Green
Political boundaries	Purple

47. The location of the detail is believed to be accurate and complete.

48. For horizontal accuracy tests refer to sheets T-8154 and T-8159.

As no contours were present, a vertical accuracy test was not run.

Submitted by

Wendell Bever per F.A.P.  
Wendell Bever,  
Photogrammetric Aid

Approved

F. L. Gallen

F. L. Gallen, Chief of Party



GEOGRAPHIC NAME LIST FOR SHEET T-8157

✓ Archie Cove  
 ✓ Assateague Bay  
 ✓ Assateague Island  
 ✓ Assateague Channel  
 ✓ Atlantic Ocean  
 ✓ Big Harmons Cove  
 ✓ Birch Town  
 ✓ Black Duck Creek  
 ✓ Black Duck Marsh  
 ✓ Blake Point  
 ✓ Blake Point Cove  
 ✓ Booths Bay  
 ✓ Bow Beach  
 ✓ Buzzard Swamp  
 ✓ Calpen Bay  
 ✓ Camp Fletcher  
 ✓ Carpenters Drain  
 ✓ Carrs Marsh  
 ✓ Cherry Tree Hill  
 ✓ Cherry Tree Hill Bay  
 ✓ Chincoteague  
 ✓ Chincoteague Bay  
 ✓ Chincoteague Island  
 ✓ Chincoteague Wildlife Refuge  
 ✓ Coards Marshes  
 ✓ Deep Hole  
 ✓ Deep Hole Creek  
 ✓ East Gut  
 ✓ Eastern Channel  
 ✓ Eel Creek  
 ✓ Fykes Cove  
 ✓ Green Marsh  
 ✓ Greenbank Bay  
 ✓ Hairy Head Pond  
 ✓ Horse Marsh  
 ✓ Janey's Creek  
 ✓ Janey's Creek Marsh  
 ✓ Jeans Creek  
 ✓ Jim Blades Point  
 ✓ Little Harmons Cove  
 ✓ Little Morris Island Creek  
 ✓ Little Oyster Bay  
 ✓ Mink Tump Point  
 ✓ Morris Island  
 ✓ Morris Island Creek  
 ✓ North Marsh Island  
 ✓ Old Cove  
 ✓ Oyster Bay  
 ✓ Peach Creek  
 ✓ Piney Island

✓ Point Woods Gut  
 ✓ Ragged Point Marshes  
 ✓ Sheepshead Creek  
 ✓ Ship Shoal  
 ✓ Sign Gut  
 ✓ Smalleys Drain  
 ✓ Smiths Bay  
 ✓ Smith Hummocks  
 ✓ Thurf Marsh Islands  
 ✓ Tom Cove  
 ✓ Tumps  
 ✓ Wildcat Gut  
 ✓ Wildcat Point  
 ✓ Wildcat Marsh  
 ✓ Woods Grave

Assateague Beach  
 Corner Guard Sta.  
 Assateague Light

Ragged Point

Smith Bay Tumps

Toms Cove Light

Part of Assateague Channel  
 Fishing Point



GEOGRAPHIC NAMES NOT SHOWN ON T-8157

~~Booths Bay Island~~ (no island could be located in this vicinity) omit



T-8157

No. 1  
Decisions

Remarks

1	Exact application of this name pending with USGB: <u>apply at extremity of neck</u>	378753 U.S.G.B.
2		"
3	Apply this name instead of Assateague Anchorage pending USGB decision	" U.S.G.B.
4		"
5		"
6		"
7		"
8	Per USGB decision, name applied to outer beach as far as Ocean City Inlet	379752 USGB
9		"
10		"
11		"
12		"
13		"
14		379753
15	Pending with USGB with respect to Cords: apply Cords pending its decision	" U.S.G.B.
16		"
17	Note that feature apparently does not now exist	"
18		"
19	Apply this form pending USGB decision (Chinco- teague Island for <u>town</u> is found on many maps).	" U.S.G.B.
20		"
21		"
22		"
23	According to USGB decision of 1940, it extends to lat. 37° 57' 15" N., long. 75° 19' 30" W. De- leter Eastern Channel on compilation.	" USGB
24		"
25		"
26		"
27		"



# GEOGRAPHIC NAMES

Survey No. T-8157

CHINCOTEAGUE EAST quadrangle

No. 1

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A,	B,	C,	D	E	F	G	H	K
Fishing Point									1
Assateague Beach Coast Guard Station									2
<del>Top Cove</del> Assateague Cove	X								3
Fykes Cove	X								4
Old Cove	X								5
Chincoteague Wildlife Refuge									6
Ship Shoal									7
Assateague Island	X								8
Ragged Point Marshes									9
Ragged Point	X								10
Calpen Bay	X								11
Peach Creek	X								12
Cherrytree Hill	X								13
Chincoteague Bay	X								14
Coards Marshes	X								15
Wildcat Point	X								16
<del>Bose Bay</del> Island									17
Chincoteague Island	X								18
Chincoteague	X								19
Morris Island	X								20
Piney Island	X								21
Assateague Bay	X								22
Assateague Channel	X								23
Assateague Light house	X								24
North Marsh Island	X								25
Greenbank Bay	X								26
Cherrytree Hill Bay	X								27

T-8157

Remarks

No. 2  
Decisions

1		379753
2		"
3	Omit Big	"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

# GEOGRAPHIC NAMES

Survey No. T-8157

No..2

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A,	B,	C,	D	E	F	G	H	K	
<u>Smith Bay</u>	X								1
<u>Smith Bay Tumps</u>	X								2
<u>Big Harmon Cove</u>	X								3
<u>Little Harmon Cove</u>	X								4
<u>Wildcat Marsh</u>	X								5
<u>Wildcat Gut</u>	X								6
<u>Sign Gut</u>	X								7
<u>Booths Bay</u>	X								8
<u>Point Woods Gut</u>	X								9
<u>East Gut</u>	X								10
<u>Hairy Head Pond</u>	X								11
<u>Woods Grave</u>	X								12
<u>Archie Cove</u>	X								13
<u>Smith Hammocks</u>	X								14
<u>Thurf Marsh Islands</u>	X								15
<u>Green Marsh</u>	X								16
<u>Oyster Bay</u>	X								17
<u>Morris Island Creek</u>	X								18
<u>Little Morris Island Creek</u>	X								19
<u>Jim Blades Point</u>	X								20
<u>Bow Beach</u>	X								21
<u>Carr Marsh</u>	X								22
<u>Jeans Creek</u>	X								23
<u>Janey Creek</u>	X								24
<u>Janey Creek Marsh</u>	X								25
<u>Sheepshead Creek</u>	X								26
<u>Eel Creek</u>	X								27



## Remarks.

1		379753
2		"
3		"
4		"
5	Suburb district of Chincoteague	"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15	This spelling used in Light List: see line 3	
16	of page No. 1 for case pending with USGB.	
17	Accomack approved by Va. Legislature Jan. 15, 1940	
18		
19		
20		
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22		
23		
24		
25		
26		
27		

# GEOGRAPHIC NAMES

Survey No. T-8157

No. 3

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNelly Atlas	U. S. Light List	
A.	B.	C.	D.	E.	F.	G.	H.	K.	
<u>Birch Town</u>	X								1
<u>Camp Fletcher</u>	X								2
<u>Buzzard Swamp</u>	X								3
<u>Little Oyster Bay</u>	X								4
<u>Deep Hole</u>	X								5
<u>Deep Hole Creek</u>	X								6
<u>Blake Point</u>	X								7
<u>Blake Cove</u>	X								8
<u>Horse Marsh</u>	X								9
<u>Carpenter Drain</u>	X								10
<u>Smalley Drain</u>	X								11
<u>Black Duck Creek</u>	X								12
<u>Black Duck Marsh</u>	X								13
<u>Mink Tump Point</u>	X								14
<u>Toms Cove Light</u>									15
<u>Accomack County</u>	X								16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

Transmitted in recd.  
by L. Heck on 1/21/43

## General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C. 3273-0, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

### FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

### COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore-Tampa Photogrammetric Office.

### FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

#### PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.



# DIVISION OF CHARTS

## SURVEYS BRANCH

### REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8157

#### CHINCOTEAGUE EAST QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy Refer to page 6 of the Descriptive Report for quadrangle T-8154 for the nearest horizontal accuracy test. With the exception of a small strip of land on Assateague Island, the land area in this quadrangle is less than 20 ft. above mean sea level. This strip of land mentioned above is comprised chiefly of sand dunes, subject to constant change. A vertical accuracy test, therefore, was thought to be unnecessary.

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-522	1:20,000	1847	T-2897	1:20,000	1908
T-524	1:20,000	1847	T-2897a	1:20,000	1914
T-704	1:20,000	1857	T-3533	1:20,000	1915
T-723	1:20,000	1858	T-4797	1:20,000	1933
T-763	1:20,000	1859	T-4798	1:20,000	1933
T-2615	1:20,000	1902	T-5200	1:10,000	1933
T-2896	1:20,000	1908	T-5201	1:10,000	1933

Chincoteague Island	1:62,500	1938	U.S.E.
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#### Comparison with Nautical Charts Nos. 1220 and 1221

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

Two wrecks shown on the Atlantic coastline just off Assateague Island could not be located on the nine-lens photographs and, therefore, were omitted from the quadrangle.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Investigation of the radial plot during review revealed errors of 15 meters in some of the main radial points in the central portion of the quadrangle. Points found to be in error were replotted and the area redetailed.

The corrected positions were found to agree more closely with the 1933 survey than the original plot.

The Coast Guard telephone line, added during the field edit of this quadrangle, was found to be in error. This line was corrected to agree with reference distances given at some of the numerous topographic stations along this line.

Reviewed 3/30/43 By Ray E. Ellison  
under direction of D. H. Benson *per J.H.S.*

Inspected by B. G. Jones *B.G. Jones 8/46*

Examined and approved:

K.T. Adams  
Chief, ~~Surveys Branch~~  
Division of Photogrammetry

~~Chief, Topography Section~~

Robert W. King  
Chief, Div. of Charts  
Nautical Chart Branch

Raymond B. Egan  
Chief, Div. of Coastal  
Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. 7-8157

## Record of Application to Charts

[illegible]

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.