10829

Diag. Cht. Nos. 685 and 1243-2.

Porm 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-5802 Office No. T-10829

LOCALITY

State Flroida

General locality St. Johns River

Locality Arlington Heights

19 58 - 59

CHIEF OF PARTY
J.P.Randall, Chief of Field Party
A.L.Wardwell, Tampa District Office

LIBRARY & ARCHIVES

DATE October 1961

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T-10829

Project No. (II): PH-5802

Quadrangle Name (IV):

Field Office (II): Jacksonville Florida

Chief of Party: James P. Randall

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): 3 July 1958

Copy filed in Division of: Photogrammetry (iV)

Method of Compilation (III):

Stereoscopic Instrument (Kelsh Plotter)

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (iil): 1:5,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

1/18/61

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

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): MITCHELL 1926

Lat.: 30°22 124.465" (753.4m) Long.: 81°34130.021" (801.6m)

Adjusted

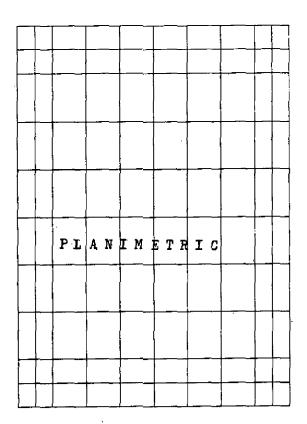
Plane Coordinates (IV):

Y= 2,196,120.43 Ft.

x= 318,669.67 Ft.

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.



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Jerome E. Tolodziecki

Joseph E. Wilson

Oliver J. Weber

Date: Oct. 1958

Jan. 1959

Jan. 1959

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (il): Inappl

Inapplicable

Date:

Mean High Water Location (III) (State date and method of location): Air photo compilation

Date of Photographs: 8 May 1958

Projection and Grids ruled by (IV): P. Dempsey (W.O.)

Date: Aug. 1958

Projection and Grids checked by (IV): Shoup (W.O.)

Date: . Aug. 1958

Control plotted by (III): E. Pursel

Date: Feb. 1959

Control checked by (III): E. Pursel

Date: Feb. 1959

Radial Plot-or Stereoscopic

Control extension by (III): Washington Office

Date: Jan. 1959

Planimetry E. T. Ogilby

Date: July 1959

Stereoscopic Instrument compilation (III):

Contours

Inapplicable

Date:

Manuscript delineated by (III): E. T. Ogilby

Date: July 1959

of compilation
Photogrammetric Office Review by (III): I. Saperstein

Date: Nov. 1959

Elevations on Manuscript

checked by (II) (III):

Inapplicable

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Single-lens Wild "S"

Diapositives

		THO TO GITTING (III	r	
Number	Date	Time	Scale	Stage of Tide
58s29 7 5 /	8 May 1958	10:21	1:25,000/	0.7 -
58s2976/	11	10:22'	u	0.7
58s2977′	18	10:22 (ti .	1.2
58529981	18	10:35′	ţ1	inapplicable
58S29991	11	10:35'	u	0,6
58s3000'	17	10:36'	n ,	0.6

Predicted Tide (III)

Reference Station: Mayport

Subordinate Station: Jacksonville (Dredge Depot)
Subordinate Station: Jacksonville (R.R. Bridge)

Dame Point Phoenix Park (Cummers Mill) Review by (IV):

Washington Office Review by (IV):

Final Drafting by (+v): R. E. Smith, Tampa District Office

" Reviewed: W. H. Shearouse Tampa District Office

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 12.7

Shoreline (More than 200 meters to opposite shore) (III): 12.6

Shoreline (Less than 200 motors to opposite shore) (IK).

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 16

Number of BMs searched for (II): 9 Recovered: 9'

Number of Recoverable Photo Stations established (III): 2 * <

Number of Temporary Photo Hydro Stations established (III): Non e

Remarks: * Not monumented

Ratio of Range Ran

Date: March 1960

Date: Sept - 1960

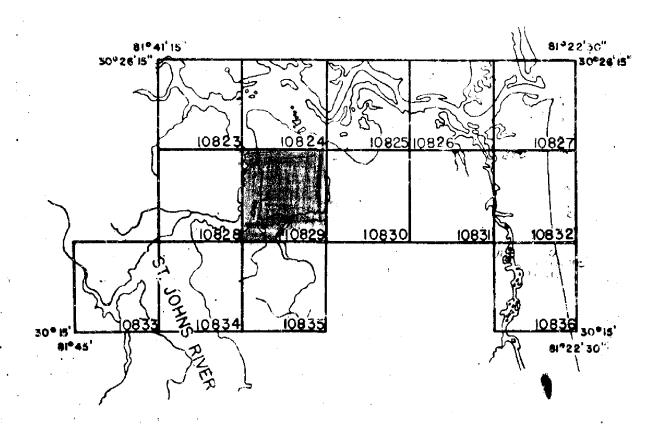
Date: 18 for. 1961

Identified: 7

Recovered:12 -

COMM- DC- 57842

PROJECT PH-5802 Planimetric Mapping Florida, St. Johns River



Official Milage for Cost Accounts

Sheet	Area	Lin. M.
No.	Sq. Mi.	Shorline
10823	11.9	16.7
10824	8.0	23.4
10825	11.9	34.1
10826	14.3	27.1
10827	6.4	15.8
10828	13.5	9.2
10829	12.7	12.6
10830	12.7	3.8
10831	15.6	10.1°
10832	11.1	8.2
10833	10.3	21.5
10834	8.0	7.6
10835	15.6	6.3
10c W	13.7	5.3

SUNNARY To Accompany Planimetric Nap Hammscripts T-10823 through T-10836

Subject surveys represent Planimetric Mapping Project PE-5802. It consists of fourteen (14) T-sheets, which cover the northern pertion of the St. Johns River - from the entrance on the Atlantic Coast to the city of Jackson-ville - in the State of Florida.

T-10823 through T-10836 were compiled by stereoscopic instrument methods (Welsh Plotter) in 1958-59 at the Tampa District Office. The compilations are based on single-lens photography of May 1958 and field inspection of 1958-59. Advanced shoreline information and control (compiled at the Washington Office by stereoplanigraph) was made available to support hydrographic surveys of 1958-59.

The submitted map manuscripts are the result of adequately scribed sheet and after miner corrections and improvements during Washington Office Review, suitable for direct reproduction of permanent file copy.

Crener film positives at the compilation scale of 1:10,000 and the Descriptive Reports will be registered and filed in the Bureau Archives.

October 1960

FIFED INSPECTION REPORT

IS SUBMITTED WITH

T-10824

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) 17 Plotta, FORWARD R. GR 0/ SCALE FACTOR PROM GRID OR PROJECTION LINE (BACK) 0 0 N.A. 1927 - DATUM d m 40. 130 M 86 409 425 224 714 m IN METERS 00 DATE 402 29 00 72 2/2 73 -N 1 FORWARD 03 00 00 667 93 M 80 3 SCALE OF MAP /- 10000 10 0 0 mins. S. DATUM COAST AND GEODETIC SURVEY OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. CONTROL RECORD (BACK) P CHECKED BY: 400 3 80 704 200 ex 66 00 0 FORWARD DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE DATE 16 February, 1959 PROJECT NO. 5802 LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE 24 0 0 W 016 144 0 306 30 30 001 20 216 N CX N 27 DATUM 27 de (H) 118 1/4 MA 4/4 1/2 11/11 1/4 1/11 SOURCE OF 36 20 30 1/ 36 30 39 (INDEX) 0 MAP T. 10829 DC 00 DO. 00 20 00 DC 00 COMPUTED BY. E. PUYSEL 2 (456)1926 1909 RM 30 34/1/26 (USE) 1908 1900 926 1921 1926 1926 1 FT. = 3048006 METER STATION 193 FORM 164 (4-23-54) Priggs カカ

COMPILATION REPORT - T-10829

PHOTOGRAMMETRIC PLOT REPORT

Stereoscopic bridge report submitted by the Washington Office is included in report for T-10827.

31. DELINEATION

The Kelsh Plotter was used for the compilation. The field inspection was adequate. The photographs were clear and no difficulty was encountered with their interpretation.

32. CONTROL

The primary and secondary control was adequate and placement was very good.

33. SUPPLEMENTAL DATA

None was used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage that was difficult to see on the photographs was indicated by the field inspector. Some of the drainage in Struwberry Creek was changed from the field inspection by the compiler where it could definitely be seen under the Kelsh Plotter.

35. SHORELINE AND ALONGSHORE DETAILS

The field inspector indicated and labeled the shoreline and alongshore features on the photographs. They were compiled as noted.

36. OFFSHORE DETAILS

All offshore details as noted by the field inspection have been shown.

37. LANDMARKS AND AIDS

All landmarks and aids not previously located by triangulation were located by the Kelsh Plotter. Forms 567 are submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

Two photo-stations were located by Kelsh Plotter. Being natural objects no Form 524 was submitted. The stations and descriptions are listed under Item 49.

39. JUNCTIONS

Junctions have been made with T-10824 to the north, T-10828 to the west, T-10830 to the east and T-10835 to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison had been made with USGS quadrangle ARLINGTON 1:24,000 edition of 1950. Many man made changes have occurred including the development of new subdivisions and new bridges across the St. Johns and Arlington Rivers.

Comparison has been made with planimetric maps T-5667, T-5669, T-5670 surveyed to 1939 and T-5671 surveyed to 1934, all of 1:10,000 scale. The same differences were noted as referred to in the above.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison had been made with Chart 577 1:40,000 edition of 25 Feb. 1957 revised to 22 June 1959. The chart compares favorably with the manuscript and was evidently prepared from later surveys than that listed under Item 46.

A wreck shown on the chart at approximate Lat. 30°19.1' Long. 31°36.5' does not appear on the manuscript.

Huffs shown on the chart at Empire Pt. and Floral Bluff were omitted from the manuscript as they were believed to be of insufficient importance to map, after examination under the Kelsh Plotter.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None

Submitted by

E. T. Ogiaby Cartographer

Approved and Forwarded

Arthur L. Wardwell Chief of Party

48. GEOGRAPHIC NAME LIST

Arlington Arlington River

Clifton

Duval County

Eggleston Heights Empire Point

Floral Bluff Florida

Indian Mound

*Jacksonville

Lake Lucina Little Fottsburg Creek

Mitchell Bluff

Newcastle Creek

Pauline Island Pottsburg Greek

Red Bay Eranch

Silversmith Creek Southern Fond *St Johns River *Strawberry Creek

Woodland Acres

* B.G.N. Decision

GEOGRAPHIC NAMES SECTION
30 OCTOBER 1960

49. NOTES TO THE HYDROGRAPHER

Two (2) topographic stations were established.

SOUTHFAST APEX OF BRIDGE 1958

CHIMNEY, CENTER OF LARGE TWO STORY RED BRICK HOUSE 1958

Photogrammetric Review Branch

OF COMMERCE U.S. DEPARTN

COAST AND GEODETIC SURVEY

NONFLOATING AIDS ORCEANDMENKS FOR CHARTS

STRIKE OUT TWO ATOME DELIENCE TO BE CHARTED

Tampa Florida

1960

I recommend that the following objects which have (national) been inspected from seaward to determine their value as landmarks be charted on (desirence) the charts indicated.

E. T. Ogilby The positions given have been checked after listing by __

Chief of Party. Arthur L. Mardsell

	St courts			_	POSITION						2314 H
d - -			5	LATITUDE *	Lon	LONGITUDE +		LOCATION	DATE		
CHARTING	DESCRIPTION	SIGNAL	•	D. M. METERS	•	D. P. METERS	DATUM .	BURVEY No.	LOCATION	OBRAN	M8140
,	ST JOHNS, RIVER				<u> </u>					 	
LIGHT 73	LONG BRANCH RANGS PRONT		30 21	127.9	8 3¢	1333	1927	T-10829	1958	M	577 1243
LIGHT	LONG BRANCH RANGE REAR		30 21	30.132	81 36	24.595 924.5	9	Triang. T-10829	=	M	577 1263
	is also										
	ABLINOTON CUT RANGS REAR (BEACON 1926	926)									
	60 60 60 60										
LIGHT	ARLINOTOR CUT RANGE FRONT	-	30 ZZ	0.55	81 36	1181	E	Pro-Plot T-10829	•	M	577 1,24,3
LIGHT	CITY LIMITS RANDE REAR		30 19	50,32		1299		\$	e	M	211 1243
LICHT	CITY LIMITS RANDE PRONT		30 20	16.11	8 36	50.20 1341	5	5	t	M M	577 1243
<u>.</u>							* .	١	!		
			,		;						
•	No date of location from flaid ins	spector.	Date to	Ken fro	field	Date taken from fileld imspection.	i i			<u> </u>	

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. USCOMM DC 27126

Photogrammetric Review Branch Form 567 (10-15-58)

COAST AND GEODETIC SURVEY U.S. DEPARTM

OF COMMERCE

MONELO MENTINA DE LANDMARKS FOR CHARTS STRIKE OUT TWO 19.85.85¥559 19.85.954.5469× TO BE CHARTED

Tamps Plorids

19.60

I recommend that the following objects which have (httant) been inspected from seaward to determine their value as landmarks be charted on (deintedution) the charts indicated.

The positions given have been checked after listing by

Arthur L. Carduell

					NOLLING					<u>"</u>	130.4
STATE	PLORIDA.							METHOD PF	DATE	CHA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			3	+ 100	2			AND	L O	386	·
CHARTING	DESCRIPTION	BIGNAL	0	D.M. METERS	•	D. P. METERS	DATUM	AURVEY No.	LOCATION	HEH	18410
	Skaleton steel, water			58.49		65.50	N.A.	20-F10t	Awe.	M	577
TARE	Rt# 112 (162)		30 19	1801	2 36	167	1927	1-10029	1958	K	1243
	Gacksonville, Eppinger & Sussell			12.57		23.60		Trieng.	•	14	577
CTACK	creamoting orks, enokestack 1926		30 22	130.9	2	630.2	8	T-10529	•	M	1243
•	Bt- 100 (105)		•								
	(Jacksonville, Armong Pertiliser Co			la.617		28.961			•	M	577
TARK			30 20	1261.5	ft 37	773.5	ŧ	¢	Œ	R	1243
	200	Liser		36.00		26.864			•	M	577
TAUK	Co. water tank, 1932) Ht 160(16)	()	30 20	1108.1	B 33	1.199	¢	#	đ	M	1253
EADIO				21.31		56.43	C-,	bo-Flot	•	M	577
	(AIE) Ht- 205(2h7)		30 21	1550	9	1501	8	L-1 0829	ā	Ħ	1213
	Jacksonville Infraraity, shelpton			17.15		17.60				M	21
TARK	steel water tank Htm [35(180)		30 21	528	a 36	цп	#	8	8	×	1213
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					4 4 6	-	•				
	* so date given by itels inspector. Month taken ive itels inspection sale.	TON: NOT	TED CEL	1 12.21 S	T DIST	nanarder	42 C.			_	

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. USCOMM-DC 27126

14.

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

T. 10829

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS
4a Classification label unclassif
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy
than third-order accuracy (topographic stations) <u>IIS</u> 7. Photo hydro stations <u>XX</u> 8. Bench marks <u>WHS</u>
9. Plotting of sextant fixes XX 10. Photogrammetric plot report W 11. Detail points XX
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline WHS 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges WHS 16. Alds
to navigation <u>WHS</u> 17. Landmarks <u>WHS</u> 18. Other alongshore physical features <u>WHS</u> 19. Other along—
shore cultural features XX_
PHYSICAL FEATURES
20. Water features <u>WHS</u> 21. Natural ground cover <u>WHS</u> 22. Planetable contours <u>XX</u> 23. Stereoscopic
instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical
featuresWHS
· · · · · · · · · · · · · · · · · · ·
CULTURAL FEATURES
27. Roads <u>WHS</u> 28. Buildings <u>WHS</u> 29. Railroads <u>WHS</u> 30. Other cultural features <u>WHS</u>
BOUNDARIES
31. Boundary lines XX 32. Public land lines XX
MISCELLANEOUS
33. Geographic names <u>WHS</u> 34. Junctions <u>WHS</u> 35. Legibility of the manuscript <u>WHS</u> 36. Discrepancy
overlay XX 37. Descriptive Report MMS 38. Field inspection photographs WHS 39. Forms
40. William N. Sherrouse Millow My Stairs
WILLIAM H. SHEAROUSE 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.
Compiler Supervisor

Review Report of Flanimetric Map Manuscripts T-19823 through T-10836 October 1960

62. Comparison with Registered Tonographic Surveys:

7-411	1:10,000	1853
T-550	1:10,000	1855
1-551	1:10,000	1855
T-552	1:10,000	1855-56
1-712	1:10,000	1858
1-713	1:10,000	1858
T-963	1:10,000	1864
7-965	1:10,000	1864
T-1232b	1:29,000	1571
T-1459a	1:20,000	1876-77
7-2027	1:50,000	1875
T-4068	1:20,000	1924
T-1004	1:20,000	192h
T-5235	1:10,000	1933
7-566li	1:10,000	1935
T-5665	1:10,000	1933-39
T-5666	1:10,000	1933-39
T-5667	1:10,000	1933-39
T-5669	1:10,000	1933-39
T-5670	1:10,000	1939
7-5671	1:10,000	1933
T-5672	1:10,000	1933
T-6376b	1:10,000	1934
T-6487akb	1:10,000	1934
T-6488aab	1:10,000	1934
T-11093	1:20,000	1957-58
T-11454	1:10,000	1951-54
ारण स्वरू श व्य		The second second

Cultural and shereline changes have been continuous and extensive. Considerable differences exist between topigraphic survey of 1951-54 and the land area of effected sheet of subject surveys. T-10823 through T-10836 are to supersede above-listed surveys of identical areas and detailing for nautical charting purposes.

63. Comparison with Name of Other Agencies:

Trout River, Fla.,	1:24,000,	1948,	U.S.	Geological	Burvey
Restport, Flac,	1:24,000,	1948.	- 1	•	2
Mayport, Pla.,	1:2h,000,	1948.	. #	*	* 🖷 *
Jackson ville, Fla.,	1:24,000,	1948,	8	G	**
Arlington, Pla., Jacksonville Beach,	1:24,000,	1948.	* .	Ħ	#
Pla.,	1:24,000,	1948,	Ħ	#	**

These topographic quadrangles seem inadequate in consideration of all the changes caused by growth and development of subject area.

64. Comparison with Contemporary Hydrographic Surveys:

K-8107 K-8h12	(plus add work)	1:10,000		1954 1 9 58-59
H-8162		1:20,000	-	1958-59
		1:10,000	•	1958-59
H-8463	*	1:10,000		1959

Fort George Inlet as shown on H-3107 has been subjected to considerable changes - see T-10827 for shore-line of 1956-59. Advanced shereline and control of subject surveys was furnished to sid in the construction of remaining hydrographic surveys (H-8412, 8462 through 8464) and in the comparison, no major differences were noted.

65. Comparison with Nautical Charts:

569 577 685 1243	•	1:40,000	Revised to	12/8 1958 12/21 1959
577		1:40,000 1:40,000	19 10	12/21 1959
685		1:40,000	2nd Kd.	12/7 1959
1243	. •	1:80,000	 Revised to	2/22 1960

There are minor shoreline differences throughout. Considerable differences exist at Fort George Inlet and at the entrance of St. Johns River as depicted on Chart 569 (with inset of these features at soale 1:10,000). Charts 577 and 12k) are effected accordingly. The position of "RISAULT CHARMED DIRECTIONAL LIGHT" at the southwest corner of Hayport Basin - as shown on Chart 569 - should be corrected also from available information from 1958 and as indicated on T-10827.

Dome Peint - Fulton Cutoff Light 40, 1958 at the mouth of Alligator Creek should be added to Chart 577 (see T-10825).

66. Adequacy of Results and Puture Surveys:

Subject T-sheets (14) have been compiled according to instructions and meet the requirements of adequacy and accuracy. Future frequent surveys of subject area are recommended because of continuous growth and development.

Reviewed by:

Sheef Streetier

Approved:

Chief, Heview & Drafting Sec. Photogrammetry Division Guler, Nautical Charts Division

Ass + Chief, Photogrametry Division

Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>T-10</u>829

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-4-70	685	C.L. Beese	Fully Apple- No Corr. Superseded by BP 63704 Refere 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
			· · · · · · · · · · · · · · · · · · ·
			

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.

M-2168-1