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#### I. PERIODS AND LIGHT CURVES OF TWENTY VARIABLES

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#### A STUDY OF THE VARIABLE STARS IN THE GLOBULAR CLUSTER MESSIER 14

I. Periods and Light Curves of Twenty Variables

BY HELEN SAWYER HOGG AND AMELIA WEHLAU

The globular cluster Messier 14, NGC 6402, (R.A.  $17^{h} 35^{m}_{..}0$ , Dec.  $-03^{\circ} 15'$ , 1950) is one of the clusters very rich in variable stars. It is exceeded in number of variables by only seven other clusters at present. Seventy-two variables were discovered by H. B. Sawyer (1938) from a series of plates taken with the 72-inch reflector of the Dominion Astrophysical Observatory at Victoria. A preliminary report of work on their periods appeared at the same time (Sawyer 1937), but circumstances delayed publication of further work until now.

For the past three years we have been making a study of the variables in the cluster to determine their periods and the form of their light curves. A total of 258 plates is now available, virtually all of which have been taken by one of us (H.S.H.). Of these, 31 were taken with the 72-inch reflector of the Dominion Astrophysical Observatory, 211 with the 74-inch reflector and 9 with the 19-inch of the David Dunlap Observatory, 2 with the 36-inch Steward Observatory reflector, and 5 early Mount Wilson plates were taken by F. G. Pease and H. Shapley. These plates span an interval of 52 years.

Four additional variables have now been found by Amelia Wehlau, bringing the total to 76. These are indicated on figure 1, and are given in Table I of this paper. The first 72 variables were identified in the original paper. One of the first results of the renewed study was the discovery of a nova (by A.W.) on the plates of 1938 taken with the David Dunlap Observatory 74-inch (Sawyer Hogg and Wehlau 1964).

All the available plates have been measured (by A.W.) with the Becker iris photometer at the Hume Cronyn Memorial Observatory of the University of Western Ontario. The magnitudes of the sequence previously published have now been revised from five plates taken with superimposed exposures on both the cluster and Kapteyn Area 61, one of the areas where the magnitude values have been standarized to the fainter magnitudes (Stebbins, Whitford and Johnson 1950). The comparison stars are identified on figure I, and their revised magnitudes are given in Table II, which includes four auxiliary stars added to the original sequence.



FIG. 1—The globular cluster Messier 14, photographed with the 74-inch reflector of the David Dunlap Observatory on June 23, 1938, when the nova was visible. (Plate 3263, exp. 40 min.) Four new variables, and comparison stars are also identified. Scale of the figure, 7".0/mm.

The variables in this paper are mainly those for which preliminary results were given in 1937, with many additional observations obtained since. They have large ranges, and three bright Cepheids with periods over one day are among them. Many of the preliminary periods derived

			NEW VAL	RIABLE S	STARS	
Variable	Co-ord	inates	λ	lagnituc	les	
No.	x''	У″	Max.	Min.	Mean	Remarks
73	+05	+07	16.5	18.0	17.25	Bright irregular?
74	+07	+91	16.5	17.2	16.85	Bright irregular?
75	+35	-12	16.7	18.5	17.60	RR Lyrae
76	-105	+03	16.1	17.0	16.55	Short period Cepheid
Nova	+30	+04	16 (ob	served)		Found only on plates of 1938

TABLE 1	
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	Co-ord	linates	Mean Mag.
Star	x''	y''	(pg)
а	-43	-86	14.52
b	-146	-150	14.70
С	-39	-57	15.35
d		-71	15.85
е	-9	-104	16.17
f	+110	-42	16.71
g	+11	-92	17.46
h	+21	93	17.98
j	+2	- 99	18.42
W	-80	-152	16.20
х	-105	-115	17.40
у	-139	-138	17.55
Z	+24	-79	17.56

TABLE II Magnitudes of Sequence Stars

some years ago are being brought up to date with the help of the IBM 7040 at the University of Western Ontario. Even though the magnitudes have been determined with the photometer it will be difficult to get periods for many of the stars with small ranges, located in the congested central region of the cluster, where background corrections are large; the congestion in the central region, even on a scale of 22".43 to the millimetre, is severe. Although the cluster has a relatively large angular diameter of 6'.7, the stars are faint, with the RR Lyrae stars ranging mostly from the 17th magnitude at maximum to the 18th at minimum. Since the twenty stars which appear in this paper have been selected for large ranges and unobscured position, this

material alone is not suitable for a discussion of the frequency of periods in this cluster.

Table III gives the observations on all available plates for the following twenty variables, numbers 1, 2, 4, 5, 7, 9, 10, 11, 15, 16, 19, 22, 23, 24, 25, 30, 32, 33, 36 and 43, giving the number of the plate, the Julian Date, and the observation derived from photometer readings. There are fewer plates listed in the second section of Table III for the stars with numbers 19 to 43 since on some of the poorer quality plates none of these stars could be measured.

Table IV gives for these variables the maximum, minimum and mean magnitudes, the epoch of maximum (chosen as the nearest maximum just before J.D. 2438200 in the 1963 series of observations), and the period, followed by remarks when pertinent.

The light curves of these twenty variables, in order of decreasing length of period, are shown in figures 2 and 3. The points are the computed weighted means of all observations at intervals in phase of 0.04 of the period of the star. Observations with colons in Table III have been assigned half weight. A filled circle represents at least three good observations, but averages about ten such. Open circles represent mean points derived from observations which are few in number or of low weight.

Of this first group of stars, three are Cepheids with periods longer than one day. Sixteen are type ab RR Lyrae stars with periods between 0.48 and 0.68 days, and one is a type c with period 0.36 days. A period change is noticeable only for Var. 1, the Cepheid with longest period in the cluster, 18.730 days, whose period seems to be steadily shortening at the rate of  $\beta = 14 \times 10^{-7}$  days/day.

In figure 2 two light curves are given for this star to illustrate graphically the change in period from an earlier to a later interval. In the case of this star, the figure shows many open circles which do not represent uncertainty in the magnitudes, but rather fewer observations in the means because of the division of material.

Joy (1949) studied spectroscopically variables 1, 2, 7, and 17 in this cluster. For Var. 1, his classification from two spectrograms was G2 and G0, with an average radial velocity of -115 km/sec, indicating cluster membership.

Variable 2, with period 2.79468 days, is the type of short period Cepheid in clusters mentioned by Joy and C. Payne Gaposchkin (1954). Joy gives the spectrum from one plate as F8, and the radial velocity as -129 km/sec.

Variable 7 seems to be a typical W Virginis star with period 13.596

			OBSERV	ATIONS OF	VARIABLI	E STARS IN	NGC 640	20			
Plate	Julian Day*	No. 1	No. 2	No. 4	No. 5	No. 7	No. 9	No. 10	No. 11	No. 15	No. 16
$\frac{103}{2617}$	19536.939 96795.811	16.0 15.05	16.45			15.0 16.05					
2637	26.750	15.05	16.05	18.7	18.7	16.15	18.15	18.9	18.0	18.6	18.2
2649	48.705	15.15	15.8	18.15	18.5	15.7	18.4	18.1	18.2	18.9:	18.2
4397	1690.895	15.85	16.0			16.3			18.1:		17.2:
20544	6915.824	15.1	16.85	18.4	16.9	15.85	17.1	17.2	17.1	18.3:	17.8
20559	21.824	15.95	15.85	17.6	17.9	15.55	17.7	18.0	16.6	17.45	17.5
20571	23.785	16.9:	17.0:			15.7:					
20584	24.758	16.2	15.9			16.4	18.8:	18.2:	18.4:		
20587	.824	16.8:	15.8		18.0:	16.5;	18.2:		16.85:		
70500	25 776	16 05	16.5	17 6.		16 55		17 6:		-6-71	
20647	44.781	15.95	15.95	17.75:		15.45		17.9:	16.5	18.35:	
20675	46.742	15.5	16.9:			15.4	17.8:		17.8:	18.5:	
21377	7272.784	15.1	16.65	17.8:	18.5;	15.6	18.5	17.8	18.1	18.2	
21380	F98.	15.0	16.9:	17.95:	18.9	15.5	18.1	18.4	18.6	18.05	
21386	73.788	15.0	16.4	18 4	17.7	15.55	18.0	17.7	17.7	17.8	17.9
21399	74.776	15.1	16.0:	17.45	17.5	15.4	18.05	18.3:	16.35	17.15	16.9
21406	168.	15.1	16.25	18.5	18.4	15.55	$\frac{1}{x}$	18.8:	17.4	18.1	17.7
21412	75.768	15.15	16.7	18.75	18.85	15.7	17.3	17.9:	18.45	18.95;	17.85
21416	.856	15.25	17.1	18.6	17.35	15.6	17.6	18.9	18.2	17.45	18.7
21515	306.776	14.7	16.9	18.1:	18.5	16.15	18.0;		16.6		
21538	07.700	14.85	15,85	18.0:	18.4	16.2	18.1	17.0	18.5:	18.1	17.5
21556	08,800	14.85	16.3:			15.9			17.2:		
23178	639.790	16.05	16.95	18.6	18.45	15.55	18.4	18.15	18.0	18.8	18.7
23237	6F7.82	15.65	16.85	18.9	19.1:	16.4	18.9	17.25	17.45	18.35	17.55
*Helic	centric										

TABLE III

Plate	Julian Day	No. 1	No. 2	No. 4	No. 5	No. 7	No. 9	No. 10	No. 11	No. 15	No. 16
0 <del>1</del> 55555 555555 555555 555555 55555 55555 5555	27658, 811 59, 760 823 840 64, 765	15.65 15.1 15.15 15.05 14.85	16.75; 15.95 15.95 15.95 16.95	18.55 17.9 18.3 18.3 18.3 18.3	$\begin{array}{c} 19.0;\\ 18.7\\ 18.6\\ 18.5;\\ 18.5$	16.3 16.5 16.8 15.45	122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 122.5 123.5	$\begin{array}{c} 17.6\\ 18.4\\ 18.3\\ 18.3\\ 18.25\\ 18.0\\ 18.0\end{array}$	$17.5 \\ 16.5 \\ 16.65 \\ 17.4 \\ 17.4$	$\frac{18.5}{18.1}$	$\frac{18.1}{17.15}$ $\frac{17.15}{17.5}$
23308 23309 23529 23529 23538	.802 85.730 713.649 14.663 15.661	$\begin{array}{c} 14.75\\ 15.15\\ 16.0\\ 15.95\\ 15.65\end{array}$	$\begin{array}{c} 17.4 \\ 16.45; \\ 17.4 \\ 15.75; \end{array}$	$\frac{18.5}{18.45}$	18.25	$\begin{array}{c} 15.45\\ 16.0;\\ 16.5;\\ 16.5;\\ 16.6\\ 16.45\end{array}$	17.0	18.5 18.4 17.1:	$\frac{17.45}{16.9};$	18.1 18.4:	17.7 17.9 17.2
$23600 \\ 91 \\ 92 \\ 100 \\ 101 $	28.630 8015.608 677 16.610 16.610	$ \begin{array}{c} 15.85\\ 15.35\\ 15.3\\ 14.9\\ 15.0\\ 15.0 \end{array} $	$\begin{array}{c} 16.8;\\ 16.3\\ 16.3\\ 16.9\\ 17.0\\ 17.0 \end{array}$	$\frac{18.05}{17.25}$	17.3 19.0:	$\begin{array}{c} 16.3\\ 16.0\\ 15.95\\ 15.95\\ 15.9\end{array}$	17.4 17.65 17.2	17.4 18.5	$\begin{array}{c} 17.2 \\ 18.0 \\ 17.7 \\ 17.7 \\ 17.7 \\ 17.8 \end{array}$	$\frac{17.85}{17.6}$	18.0 17.6 17.1
102 103 103 103 103 103 103	$\begin{array}{c} 674 \\ 693 \\ 711 \\ 732 \\ 37, 599 \end{array}$	$\begin{array}{c} 14.55; \\ 14.7 \\ 14.75 \\$	$\frac{17.2}{17.25}$		$\frac{17.8}{17.5}$	15.9 15.8 15.9 15.0 15.0	$\begin{array}{c} 17.0;\\ 17.2\\ 17.55;\\ 17.9;\end{array}$	18.3: 18.0:	$\begin{array}{c} 17.55;\\ 17.8;\\ 18.3;\\ 16.6\end{array}$		17.4 18.0 17.7 16.8
$170 \\ 186 \\ 186 \\ 187 \\ 189 \\ 189 \\ 180 $		$\begin{array}{c} 14.5 \\ 14.85 \\ 14.75 \\ $	$16.1 \\ 16.7 \\ 16.75 \\ 16.7 \\ 16.95;$	$\frac{19.5}{18.7}$	19.5: 18.5 17.2:	$\begin{array}{c} 15.6\\ 15.75\\ 15.8\\ 15.8\\ 15.75\\ 15.9\end{array}$	$\frac{18.25}{18.3}$	18.0 17.9:	17.85 17.85	19.0:	18.3 19.2 5:
$\begin{array}{c} 192\\ 2119\\ 223\\ 820\\ 820\\ 820\\ 820\\ 820\\ 820\\ 820\\ 820$	$\begin{array}{c} 701 \\ 43.571 \\ .610 \\ .677 \\ 308.751 \end{array}$	$\begin{array}{c} 14.75\\ 15.05\\ 15.05\\ 15.05\\ 15.4;\\ 15.4;\end{array}$	17.0: 16.35 16.3 16.1 16.1	1212	17.6:17.9:17.05 $17.5$	15.85 15.9 16.0 16.1 15.6	$17.0 \\ 16.95 \\ 17.3 $	$18.6; 19.0 \\ 17.15$	$\begin{array}{c} 17.3:\\ 16.45\\ 16.5\\ 16.55\\ 16.55\end{array}$	19.0: 18.45 18.5	17.3: 17.1 16.9 16.8

No. 16	17.2	17.3: 17.9 18.1:	17.9:	17.2 17.7 17.6	16.7 16.9 17.5	18.5 17.5 17.5
No. 15		$\begin{array}{c} 17.65;\\ 17.1;\\ 17.5;\\ 17.5;\\ 17.4;\\ 17.4;\end{array}$	18.4: 18.6: 18.5:	17.8 18.1 18.1 18.1	$\begin{array}{c} 17.0;\\ 17.15;\\ 18.0;\\ 17.95;\end{array}$	18.5 18.8 16.8 18.8 18.6 18.6 18.6 18.6 18.6
No. 11	$\frac{17.45}{18.0}$	18.3: 17.4 16.9: 16.65	17.5 17.8 19.0 19.0 19.0	$\frac{18}{12}, \frac{18}{5}, \frac{12}{5}, 1$	17.5: 17.6: 17.4: 18.1:	$\frac{16.5}{16.55}$ $17.6$
No. 10	17.45 17.9:	18.05: 18.45 18.15:	17.25 17.9	$\frac{19}{18}.05\\17.85;$	18.0: 18.9:	18.35 18.35 18.3; 17.7;
No. 9	17.2 16.7: 17.2	18.35 18.7: 17:75:	18.25 18.25 18.25	$\begin{array}{c} 16.75\\ 16.9;\\ 18.8;\\ 17.95\\ 17.85;\\ 17.85;\\ \end{array}$	$\begin{array}{c} 18.05; \\ 18.0; \\ 18.2; \\ 17.5; \\ 17.5; \end{array}$	18.4 18.15 17.9: 18.8:
No. 7	15.65 15.65 15.65 15.65	$\begin{array}{c} 15.9\\ 16.1\\ 16.0\\ 15.95\\ 15.95\end{array}$	16.35 16.15 16.4 15.6 15.6	15.8 15.8 15.9 15.9 15.9	16.1: 15.75 15.75 15.7	15.5 15.5 15.5 15.5 15.5 15.5 15.5
No. 5	17.0 18.05:	18.3: 19.0: 17.35: 17.35: 17.35:	18.45; 19.0; 19.0; 17.5; 17.9;	$\begin{array}{c} 19.0;\\ 17.85\\ 17.7;\\ 17.65\end{array}$	17.15	18.8 19.0: 19.5:
No. 4	17.85	18.5: 17.2 17.6: 18.15:		18 18 18 18 18 18 18 18 18 18 18 18 18 1		$\frac{17.25}{17.25}$
No. 2	$\begin{array}{c} 16.2 \\ 16.1 \\ 17.15 \\ 17.5 \\ 17.05 \end{array}$	$\frac{17}{15}$	$\begin{array}{c} 16.05\\ 15.95\\ 15.85\\ 17.05\\ 16.5\end{array}$	16.5 16.2 16.15 16.15 16.15	$\begin{array}{c} 16.25 \\ 16.3 \\ 16.5 \\ 16.5 \\ 16.4 \end{array}$	$\begin{array}{c} 17.25\\ 17.05\\ 15.95\\ 15.95\\ 16.05\\ 16.05\\ 16.05\\ 17$
No. 1	15.15 15.25 15.35 15.75	15.35 15.45 15.45 15.45	15.6 15.55 15.05 15.05	14.9 15.1 14.65 14.65	14.7: 14.95 14.95 14.95 15.0	$\begin{array}{c} 14.95\\ 15.05\\ 15.8\\ 15.$
Julian Day	28308, 769 843 09, 767 781 781 835	65 737 656 728 770	66.631 .653 .729 91.592 .613	678 699 623 695 695	93.623 98.587 .609 .653 .679	99, 582 630 695 688, 713 688, 713
Plate	824 825 825 825 825 825 825 825 825 825 825		1123 1124 1127 1226	$     \begin{array}{c}       1229\\       1230\\       1241\\       1244\\       1244     \end{array} $	1267 1267 1271 1271	1284 1287 1280 1980 1980

No. 16	18.0 18.6 17.5 17.7	$\frac{18.7}{16.75}$	$\begin{array}{c} 17.4 \\ 18.0 \\ 18.1 \\ 18.3 \\ 17.35 \\ 17.35 \end{array}$	8-88 1111111	18.1 16.8	18.3 17.9 17.9
No. 15	$\frac{17.1}{17.75}$	$\begin{array}{c} 17.9;\\ 19.0;\\ 18.3;\\ 18.8;\\ 18.8;\end{array}$	$\begin{array}{c} 18.6\\ 18.05\\ 17.4\\ 18.45\\ 18.45\\ 18.5\end{array}$	18.7 18.2 18.6	$\begin{array}{c} 16.9 \\ 18.7 \\ 18.1 \\ 18.4 \\ 18.8 \\ 18.8 \\ 18.8 \end{array}$	19.0: 19.0 17.35 17.6 17.6
No. 11	18.0: 16.55 17.0 16.4	17.5 18.1 16.8 16.7 16.7	$\begin{array}{c} 17.15\\ 16.5\\ 17.05\\ 18.1\\ 17.55\\ 17.55\end{array}$	17.7 17.4 17.35 18.0 17.1:	$\begin{array}{c} 18.05;\\ 16.6\\ 17.9\\ 18.05\\ 17.0\end{array}$	$\begin{array}{c} 17.8 \\ 17.9 \\ 17.1 \\ 17.1 \\ 17.35 \\ 17.35 \\ 17.35 \end{array}$
No. 10	17.35: 18.6 18.8 18.8	18.2 18.6 17.0	$\begin{array}{c} 17.05\\ 17.95\\ 18.1\\ 18.1\\ 18.05\\ 18.1\end{array}$	$\frac{17.2}{17.75}$ 18.65	$\frac{18.05}{18.3}$ .	$\frac{18.1}{18.45}$ $\frac{18.45}{17.85}$
No. 9	18.0: 17.9 18.2 18.2	$\begin{array}{c} 17.45;\\ 17.8\\ 17.8\\ 17.8;\\ 17.8;\\ 17.8;\\ \end{array}$	$\frac{18.2}{17.25}$	0-+++	$\begin{array}{c} 17.9 \\ 18.2 \\ 18.05 \\ 17.9 \\ 17.9 \end{array}$	$ \begin{array}{c} 18.0\\ 18.8\\ 18.25\\ 17.8\\ 17.8\\ 17.8\\ 17.8\\ 17.8\\ 18.0 25\\ 18.25\\$
No. 7	$\begin{array}{c} 15.35\\ 15.45\\ 15.45\\ 15.4\\ 16.3\\ 16.15\\ 16.15\end{array}$	$\begin{array}{c} 16.05\\ 15.95\\ 16.1\\ 15.3\\ 15.3\\ 15.35 \end{array}$	$\begin{array}{c} 15.4 \\ 15.7 \\ 15.95 \\ 16.15 \\ 16.35 \\ 16.35 \end{array}$	$\begin{array}{c} 16.45\\ 15.8\\ 15.8\\ 15.75\\ 15.55\\ 15.55\end{array}$	15.2 15.8 15.4 15.4 15.6	$\begin{array}{c} 15.35\\ 15.4\\ 15.4\\ 15.55\\ 15.55\\ 15.45\end{array}$
No. 5	12 12 12 12 12 12 12 12 12 12 12 12 12 1	17.0: 17.6: 18.0 19.0: 19.0:	18.8 18.1 18.3 17.6	17.8 19.5 18.6 18.6	17.8 18.6 19.0 18.8 18.8	$\begin{array}{c} 18.6;\\ 17.35\\ 18.35\\ 18.5\\ 17.7\end{array}$
No. 4	17.9: 18.8 18.5:	$\begin{array}{c} 17.6;\\ 18.2;\\ 18.3;\\ 18$	$\begin{array}{c} 18.8 \\ 17.4 \\ 18.25 \\ 17.3 \\ 17.3 \end{array}$	18.0 17.9 18.3	$\begin{array}{c} 18.65;\\ 18.4\\ 17.7\\ 19.0\\ 18.5;\\ 18.5; \end{array}$	$\begin{array}{c} 18.0;\\ 18.8\\ 18.05\\ 18.05\\ 17.9;\end{array}$
No. 2	$\begin{array}{c} 16.25\\ 16.7\\ 16.95\\ 15.9\\ 15.9\\ 16.95\\ 16.95 \end{array}$	16.0 15.85 17.0 16.8 16.8	$\begin{array}{c} 16.6\\ 16.2\\ 17.0\\ 16.1\\ 16.0\\ 16.0\end{array}$	$\begin{array}{c} 15.95\\ 15.9\\ 16.5\\ 17.1\\ 16.5\\ 16.55; \end{array}$	$\begin{array}{c} 16.05\\ 16.9\\ 16.05\\ 16.65\\ 16.65\\ 16.85\\ 16.85 \end{array}$	$\begin{array}{c} 15.9\\ 16.85\\ 15.95\\ 16.65\\ 16.65\\ 16.95\end{array}$
No. 1	$\frac{15.7}{15.75}$	$\begin{array}{c} 14.9 \\ 14.85 \\ 14.85 \\ 14.85 \\ 14.85 \\ 15.0 \end{array}$	$\begin{array}{c} 15.0 \\ 14.75 \\ 14.95 \\ 14.95 \\ 14.85 \end{array}$	$\begin{array}{c} 14.95\\ 15.1\\ 15.35\\ 15.35\\ 15.55\\ 14.6\end{array}$	$\frac{14}{15.1}$	$\begin{array}{c} 15.1 \\ 15.6 \\ 15.65 \\ 14.65 \\ 15.05 \\ 15.05 \end{array}$
Julian Day	28688.822 89.720 804 93.746 95.759	96.679 722 715.675 747	$\begin{array}{c} 770\\ 000\\ 720\\ 720\\ 720\\ 730\\ 700\\ 700\\ 700\\ 700\\ 700\\ 700\\ 70$	76.742 77.702 78.722 405.920	06.956 30.738 62.653 63.648 64.653	87.614 89.702 90.657 519.568 785.764
Plate	1984 1994 2013 2013	2033 2035 2111 2111	2115 3249 3252 3252 3252 3275	3278 3290 3303 3318 4209	$\begin{array}{c} 4228 \\ 4584 \\ 4684 \\ 4693 \\ 4703 \end{array}$	$\begin{array}{r} 4795 \\ 4807 \\ 4819 \\ 4973 \\ 5702 \end{array}$

No. 16	$\frac{16.75}{17.1}$	1.71 1.71 1.71	141-14 17-15 17-17	16.6 17.3 17.8 17.8 17.8 16.85	1212 1212 1212 1212 1212 1212 1212 121	17.1
No. 15	17.3 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	$   \begin{array}{c}     16.9 \\     17.55 \\     18.9 \\     18.9 \\     18.9   \end{array} $	$\frac{18.7}{18.45}$	17.55 17.55 18.65 19.05 19.05	18 1	17.3 18.7
No. 11	16.85 18.05 18.05 18.05 18.05 18.05 18.05 18.05	$   \begin{array}{c}     17.4 \\     17.9 \\     16.8 \\     18.7 \\     18.7 \\   \end{array} $		$\begin{array}{c} 16.95\\ 17.9;\\ 17.8;\\ 18.8;\\ 18.8; \end{array}$	$\frac{18}{120}$	18.0 18.3: 17.5
No. 10	17.4 18.3 18.8 17.15	19.2: 18.4 18.05 18.25	$\frac{17.05}{17.45}$	17.0 18.1: 18.1: 19.0: 18.4: 18.4: 18.4: 18.4:	84448 84448 8446	18.2 16.8 16.8
No. 9	$\begin{array}{c} 17.65\\ 17.35\\ 17.5\\ 17.5\\ 18.3\\ 18.3\end{array}$	$\frac{18.5}{17.25}$ $\frac{18.25}{18.7}$	$\frac{18}{18}, \frac{75}{15}$	18.8 18.8 18.8 18.4 18.4	$     \begin{array}{c}       18.5 \\       18.5 \\       18.35 \\       17.6 \\      $	17.9 18.1: 17.8
No. 7	15.25 15.4 15.25 15.25 15.25	15.3 15.4 15.55 15.25 15.45	$\begin{array}{c} 15.35\\ 15.45\\ 15.45\\ 15.5\\ 15.5\end{array}$	$\begin{array}{c} 15.45\\ 15.45\\ 15.35\\ 15.3\\ 15.4\\ 15.4\\ 15.4\end{array}$	15.4 15.4 15.3 15.5 15.5	15.65 15.55 15.65 15.7 15.35
No. 5	$\begin{array}{c} 17.7;\\ 17.75\\ 18.2\\ 19.0;\\ 19.0;\\ 19.0; \end{array}$	17.45 18.4 17.8 19.0	18.65 17.65 18.35 18.35 18.35 18.35	$\begin{array}{c} 17.35\\ 17.45\\ 17.25\\ 17.9\\ 17.9\\ 17.8\end{array}$	$\begin{array}{c} 18.4 \\ 17.45 \\ 18.6 \\ 17.95 \\ 18.7 \end{array}$	18.5 18.35
No. 4	14 18 18 18 18 18 18 18 18 18 18 18 18 18	19.5: 18.5: 18.15	18.45 19.0 17.8 17.8	17.8: 18.4: 18.6:	$\begin{array}{c} 18.4;\\ 18.45;\\ 18.5\\ 17.65\\ 17.9\end{array}$	18.1
No. 2	15.9 16.55 16.6 17.0 16.85	$\begin{array}{c} 15.9 \\ 16.05 \\ 16.45 \\ 16.45 \\ 16.65 \end{array}$	$\begin{array}{c} 16.7\\ 16.8\\ 16.95\\ 16.95\\ 15.95\end{array}$	16.4 16.45 16.05 16.0 16.0	$\begin{array}{c} 16.05\\ 16.75\\ 17.0\\ 16.9\\ 16.9\\ 16.9\end{array}$	16.0 15.5 16.8 16.8 16.0
No. 1	15.0 15.3 15.4 15.75 15.9	15.5 15.7 15.15 14.9 14.65	$\begin{array}{c} 14.65\\ 14.65\\ 14.8\\ 15.05\\ 15.05\end{array}$	15.3 15.25 15.6 15.7	15.65 15.5 15.05 15.05 15.0	14.6 14.9: 15.35 15.35 14.9
Julian Day	29786.812 87.784 .810 813.677 .784	14.672 770 15.657 16.631	.690 .733 41.688 42.703	$\begin{array}{c} 43.623\\ -732\\ 30169.693\\ -722\\ -751\end{array}$	$70, 715 \\ 71, 730 \\ 72, 642 \\ 72, 642 \\$	97 722 99 705 200 696 549 662
Plate	5717 5728 5729 5808 5812	5820 5825 5835 5836 5836 5836	5843 5846 5848 5948 5964	5974 5980 6836 6837 6838	$6839 \\ 6847 \\ 6861 \\ 6864 \\ 6864 \\ 6870 \\ $	6875 6930 6938 6951 7923

Plate	Julian Day	No. 1	No. 2	No. 4	No. 5	No. 7	No. 9	No. 10	No. 11	No. 15	No. 16
7927 7937 7940 7943 7949	30549.750 50.686 727 806 52.679	$\begin{array}{c} 14.95\\ 14.95\\ 15.05\\ 15.05\\ 15.0\end{array}$	$\begin{array}{c} 15.85\\ 16.4\\ 16.45\\ 16.45\\ 15.9\end{array}$	18.0 18.55 18.15 18.15 18.15 18.15	$\begin{array}{c} 18.6\\ 18.05\\ 18.15\\ 18.15\\ 17.1\\ 17.1\end{array}$	$\begin{array}{c} 15.35\\ 15.65\\ 15.65\\ 15.35\\ 15.45\\ 15.6\end{array}$	17.2 18.05 17.9 17.9	$17.4 \\ 18.45 \\ 18.55 \\ 17.65 \\ 17.4$	$\begin{array}{c} 17.6 \\ 16.55 \\ 16.55 \\ 17.35 \\ 17.4 \end{array}$	16.85 18.25 18.24 18.24 17.8 17.8	17.6 17.8 17.9 18.6;
7955 7961 7964 7974 7979	53.644 720 54.656 54.656	$\begin{array}{c} 15.1 \\ 15.05 \\ 14.95 \\ 15.05 \\ 15.0 \end{array}$	$\begin{array}{c} 16.65\\ 16.75\\ 16.65\\ 16.65\\ 16.6\\ 16.35\\ 16.35\end{array}$	$\frac{18.0}{17.85}$	$\begin{array}{c} 18.55\\ 18.3\\ 17.05\\ 18.6\\ 18.25\\ 18.25\end{array}$	$\begin{array}{c} 15.55\\ 15.65\\ 15.65\\ 15.6\\ 15.75\\ 15.75\end{array}$	18.0 18.0 17.95 17.55	18.5 17.7 17.25 18.35 18.1 18.1	$\begin{array}{c} 18.15\\ 16.35\\ 17.0\\ 18.05\\ 17.5\end{array}$	$\begin{array}{c} 16.8 \\ 17.35 \\ 17.4 \\ 18.75 \\ 16.95 \end{array}$	$\begin{array}{c} 17.35\\ 17.8\\ 17.9\\ 18.2\\ 17.1\\ 17.1\end{array}$
8014 8020 8117 8895 8902 8902	56.686 748 86.604 899.685 754	$\begin{array}{c} 15.3 \\ 15.35 \\ 14.8 \\ 16.15 \\ 16.3 \end{array}$	$\begin{array}{c} 16.85\\ 16.85\\ 16.05\\ 16.2\\ 16.2\\ 16.3 \end{array}$	$\begin{array}{c} 17.55\\ 17.35\\ 18.4\\ 18.35\\ 18.35\\ 18.35\\ 18.35\end{array}$	$\frac{18.5}{18.25}$	$\begin{array}{c} 16.3\\ 16.5\\ 15.9\\ 15.95\\ 15.85\end{array}$	17.25 17.2 18.2 18.25 18.25 18.25	${}^{17.05}_{17.8}_{18.2}_{18.2}_{18.2}_{18.2}_{18.2}_{18.2}$	$\begin{array}{c} 17.9 \\ 16.25 \\ 17.7 \\ 17.7 \\ 17.9 \\ 17.9 \end{array}$	18.35 18.45 17.1 18.25 18.25	$\begin{array}{c} 17.25\\ 18.05\\ 17.0\\ 17.6\\ 18.2\\ 18.2\end{array}$
8907 8919 8926 8930 9002	811 900.675 766 32.617	$\begin{array}{c} 16.35\\ 16.05\\ 16.0\\ 16.0\\ 16.0\\ 15.75\\ 15.75\end{array}$	$\begin{array}{c} 16.35\\ 16.9\\ 17.1\\ 17.05\\ 15.9\\ 15.9\end{array}$	$\begin{array}{c} 18.7 \\ 17.75 \\ 17.75 \\ 17.85 \\ 17.95 \end{array}$	$\begin{array}{c} 19.0\\ 17.45\\ 17.9\\ 17.55\\ 18.4\end{array}$	$\begin{array}{c} 15.85\\ 15.65\\ 15.7\\ 15.65\\ 15.45\\ 15.45\end{array}$	$\begin{array}{c} 18.4 \\ 18.4 \\ 18.4 \\ 17.95 \\ 18.25 \\ 18.25 \end{array}$	$\frac{18.5}{17.3}$ $\frac{17.85}{18.4}$ $18.4$	$\begin{array}{c} 18.1 \\ 16.55 \\ 17.15 \\ 17.45 \\ 17.85 \\ 17.85 \end{array}$	19.0 17.95 18.15 18.15 18.15	17.9: 17.35 17.3 17.3 17.3
9003 9005 9008 9008 9008	652 652 661 685 694	$\frac{15.6}{15.65}$	15.95 15.8 15.85 15.85 15.95	8.35 18.25 1	18.65 18.35 18.35 18.25 18.25 18.25 18.25	$\begin{array}{c} 15.35\\ 15.45\\ 15.55\\ 15.55\\ 15.45\\ 15.45\end{array}$	$\begin{array}{c} 18.4 \\ 18.3 \\ 18.15 \\ 18.45 \\ 18.45 \\ 18.65 \\ 18.65 \end{array}$	18.1 18.1 18.25 18.25 18.25 18.25	$\begin{array}{c} 17.95\\ 17.15\\ 16.75\\ 16.4\\ 16.4\\ 16.4\end{array}$	18.55 18.65 18.3 18.65 18.65	$\begin{array}{c} 17.6 \\ 17.35 \\ 17.4 \\ 17.65 \\ 17.55 \end{array}$
9013 9013 9023 9023 9023	724 724 734 333 600 610	$\begin{array}{c} 15.8 \\ 15.75 \\ 15.75 \\ 15.95 \\ 15.8 \end{array}$	15.85 15.8 15.85 16.5 16.5	$\begin{array}{c} 18.7\\ 18.45\\ 18.45\\ 18.45\\ 18.1\\ 18.1\end{array}$	$\frac{18.75}{18.35}$	15.45 15.5 15.55 15.55 15.6	$\begin{array}{c} 18.7\\ 18.4\\ 18.35\\ 18.35\\ 18.0\\ 18.0\end{array}$	18.3 18.3 18.3 18.3 17.9	$16.4 \\16.65 \\16.75 \\17.65 \\17.6$	18.85 18.65 18.95 18.2 18.2 17.9	$\begin{array}{c} 17.95\\ 17.75\\ 18.05\\ 18.2\\ 18.2\\ 18.2\\ 18.2 \end{array}$

Plate	Julian Day	No. 1	No. 2	No. 4	No. 5	No. 7	No. 9	No. 10	No. 11	No. 15	No. 16
9025 9027	30933.635 .658	15.9 15.9	16.55 16.5	$19.0 \\ 18.65$	17.5 17.6	15.7 15.65	18.5 18.15	18.15 18.25	18.1 18.15	18.25 18.25	18.1 18.05
9030 9033	.687	15.9 55	16.5 16.6	$\frac{18}{25}$	18, 15 18, 0 18	15.65 15.65	18.25 18.0	18.5 18.5 25	18.1	18,65 18,35	18.25
10134	1259.731	14.8	16.0		18.9	15.6	19.0:	18.1:	16.7	17.05	18.0
12045 12051 12051	$\begin{array}{c} 969.756 \\ .817 \\ .729 \end{array}$	15.95 15.8 15.8	16.1 16.15 16.85:	18.5:	17.7:	$\frac{16.65}{16.4}$	17.8:	17.7: 18.3:	17.25:	17.6:	16.55
12143	77.736 99.693	15.15 15.35	16.0 15.95	$\frac{18.75}{17.9}$	18,45 19,2;	15.6	$17.85 \\ 17.6 $	17.95:	$16.2 \\ 17.35$	$\frac{18.25}{18.9}$	$17.3 \\ 18.4$
12345 12349 12364 12364	2005.706 .758 06.641 .677 .747	$\begin{array}{c} 16.0\\ 16.1\\ 16.1\\ 16.05\\ 16.05\\ 16.05\\ 16.05\end{array}$	$\begin{array}{c} 15.85\\ 15.85\\ 16.45\\ 16.45\\ 16.45\\ 16.75\\ 16.75\\ 16.75\\ 10$	18.52 18.45 17.85	18.6 18.4 18.4 18.65 18.65	15.5 15.55 15.75 15.65	17.45 17.7 18.7 18.7 18.7 19.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	17.55 17.55 18.85 18.35 18.35	$\begin{array}{c} 17.45\\ 17.5\\ 18.0\\ 17.8$	18.35 18.5 17.95 18.15 18.15	18.2 18.05 18.05 18.05 18.05 19.05 19.05 19.05 19.05
13424 13431 13431 13445 13445 13445	355.697 756 828 56.657 710	15.25 15.25 15.85	16.25 16.15 16.1 16.85 17.0	5175 2175 2175 2175 2175 2175 2175 2175	12.55 12.55 17.65 17.65 17.95	15.45 15.45 15.35 15.45 15.45	$\begin{array}{c} 18.2 \\ 18.15 \\ 18.15 \\ 18.17 \\ 18.05 \\ 18.05 \end{array}$	$ \begin{array}{c} 18.7\\ 18.15\\ 17.25\\ 17.65 \end{array} $	a <sup>2</sup> 22-a 1222-9	8222 8222 8222 8222 8222 822 822 82 82 8	18.1 18.15 17.25 17.45
13460 13464 13484 13488 13492 13492	$\begin{array}{c} 57.655\\ 701\\ 60.659\\ .723\\ .793\\ .793\end{array}$	$\begin{array}{c} 15.95\\ 15.75\\ 16.15\\ 16.1\\ 16.1\\ 16.1\\ 16.1\end{array}$	$\begin{array}{c} 15.75\\ 15.45\\ 15.95\\ 15.85\\ 16.0\\ 16.0 \end{array}$	$\begin{array}{c} 17.55\\ 17.9\\ 18.4\\ 18.5\\ 18.5\end{array}$	$\frac{17}{188} \frac{55}{188} \frac{17}{158} \frac{55}{158} \frac{17}{158} \frac{55}{158} \frac{55}{158$	$\begin{array}{c} 15.55\\ 15.5\\ 15.7\\ 15.75\\ 15.75\end{array}$	$17.8 \\ 18.25 \\ 18.45 \\ 17.4 $	18.6 18.75 17.75 17.15 17.15	6.6.6.8.8 6.6.2.2 7.1.1.2 7.1.	18.55 18.95 17.95 17.5 17.9	18.05 18.7 18.15 17.2 17.2
14580 14584 14584 14591 14604 14609	740.637 683 41.683 41.638	917-1998 1917-1918 1917-19	15.75 15.85 15.85 16.35 16.35	$\frac{17.35}{18.55}$	18.5 18.6 17.05 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.	15.75 15.75 15.75 15.95	17.55 17.55 17.8 17.8 17.8	17.95 18.2 17.25 17.25 17.25	$\begin{array}{c} 17.1 \\ 17.45 \\ 17.6 \\ 17.75 \\ 16.35 \\ 16.35 \end{array}$	$\begin{array}{c} 17.9 \\ 18.1 \\ 18.45 \\ 17.15 \\ 17.7 \end{array}$	$\begin{array}{c} 17.95\\ 17.95\\ 18.15\\ 17.15\\ 17.4\end{array}$

Plate	Julian Day	No. 1	No. 2	No. 4	No. 5	No. 7	No. 9	No. 10	No. 11	No. 15	No. 16
14624 14629 14638 14756 14756	32742.621 673 70.616 .607	$\begin{array}{c} 14.95\\ 14.95\\ 14.95\\ 15.95\\ 15.95\\ 16.05\end{array}$	$\begin{array}{c} 17.0 \\ 16.95 \\ 16.75 \\ 16.75 \\ 16.8 \\ 16.8 \end{array}$	112.52 112.25 112.25 112.25	18.5 18.7 18.55 18.55 18.55 18.55	$\begin{array}{c} 16.15\\ 16.25\\ 16.1\\ 16.1\\ 16.4\\ 16.45\end{array}$	18.3 17.25 18.4 18.1 18.1	18.55 17.15 18.25 18.25 18.25 18.25 18.25 18.25 18.25 18.25 18.25 19.25	18.0 17.9 18.05 16.5	18.65 17.5 17.5 17.5	18.1 18.35 17.6 17.85 18.05
21395 21402 21426 21426 22343	4929, 638 752 31, 665 5273, 697	$\begin{array}{c} 15.65\\ 15.85\\ 15.2\\ 15.2\\ 14.95\\ 14.95\end{array}$	$\begin{array}{c} 16.25\\ 16.35\\ 15.8\\ 15.8\\ 16.95\\ 16.5\end{array}$	17.4 18.05 17.95 18.3	$     \begin{array}{c}       18.6 \\       18.2 \\       17.55 \\       19.0 \\       19.0 \\       19.1 \\       19.1 \\       10.1 \\      $	$\begin{array}{c} 15.5\\ 15.6\\ 16.05\\ 16.25\\ 16.25\end{array}$	17.6 17.8 17.55 17.05	18.1 18.4 18.25 16.9 18.25 18.25	17.65 16.6 17.25 16.8 17.25	17.7 17.95 19.0 17.25	17.05: 17.45 17.3: 18.5: 18.5: 18.3:
22348 22363 22351 22385	74.601 75.701 814	$\begin{array}{c} 14.9\\ 15.0\\ 15.0\\ 15.1\\ 15.1\end{array}$	$\begin{array}{c} 16.55\\ 16.85\\ 16.95\\ 16.0\\ 16.0\end{array}$	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	18.25 19.05 18.25 17.9 18.25 18.25	$\begin{array}{c} 16.45 \\ 16.1 \\ 16.25 \\ 16.1 \\ 16.1 \end{array}$	$\frac{17.8}{17.95}$ 17.95	$\frac{18.4}{17.45}$	17.1 18.0 17.6 17.6	17.8 18.8 18.45 18.45	18.05 18.0: 18.7 17.6 17.7:
22516 22521 22251 232540 233215 23315	309.632 	$ \begin{array}{c}             14.85\\             14.8\\             14.8\\             14.9             14.9            14.9            14.9             14.$	$\begin{array}{c} 16.05\\ 16.15\\ 17.05\\ 16.75\\ 16.65\end{array}$	$\frac{18.7}{18.45}$ $\frac{18.45}{17.65}$ $\frac{17.65}{18.65}$ $\frac{18.65}{18.65}$	18.4 17.25 18.6 18.55 18.55	15.45 15.45 15.55 15.95 15.9	$     \begin{array}{c}       18.5 \\       18.5 \\       18.05 \\       17.75 \\       $	$\begin{array}{c} 17.15\\ 17.4\\ 18.45\\ 18.05\\ 17.35\\ 17.35\end{array}$	$\begin{array}{c} 17.75\\17.65\\17.05\\17.05\\16.7\\16.7\end{array}$	18.9 18.55 18.15 18.05 17.7	18.2 18.25 17.85 17.05 17.05
23332 233909 23913 B1691 B1705	88.633 6044.661 49.660 51.660	14.95 15.0 15.05 15.7: 15.7:	8.97 8.99 91 91 91 91 91 91 91 91 91 91 91 91 9	17.95 17.95 17.2	18.6 18.6 18.15	15.35 15.5 15.45 16.65 16.25	17.3 17.95 17.15	19.0 18.35 18.2	18.1     17.65     17.65     17.65     1	$   \begin{array}{c}     16.75 \\     18.4 \\     18.5   \end{array} $	17.8 18.25 17.8
B1715 B1722 B1722 B1742 B1752 B1752	52,669 53,640 67,646 68,663 70,652	15.55: 16.2: 15.8 15.65: 15.95	15.9: 16.7:		17.55: 17.8:	16.15: 15.8: 15.5: 15.5:	17.2:	18.0: 17.9:	17.6: 18.25: 17.45:	17.5:	

Plate	Julian Day	No. 1	No. 2	No. 4	No. 5	No. 7	No. 9	No. 10	No. 11	No. 15	No. 16
B1782 B1789 24773 24779 24779	36072.686 73.680 750.679 52.640	15.75 15.4 14.6 14.8 14.8	16.15: 16.05 16.0 16.95	$\begin{array}{c} 17.4;\\ 17.95\\ 16.65\\ 17.75\end{array}$	$\begin{array}{c} 17.9;\\ 18.3\\ 18.45\\ 18.45\end{array}$	15.7 15.6 15.35 15.35	17.25 17.25 17.95	18.5: 17.1: 18.05 18.45 18.45	16.35 17.5: 17.35 16.3 16.3 16.3	18.15 18.15 18.25 18.25 18.25 18.25 18.25	$\frac{17.05}{17.6}$
24793 24808 24813 24813 26203 26203	53, 648 53, 648 7849, 648 .661	$\begin{array}{c} 14.9\\ 14.95\\ 14.95\\ 16.1\\ 16.1\end{array}$	$\begin{array}{c} 17.05\\ 15.9\\ 15.85\\ 15.85\\ 15.85\\ 15.9\end{array}$	$\begin{array}{c} 17.7\\ 18.45\\ 18.45\\ 18.15\\ 18.15\\ 18.05\end{array}$	18.3     18.3     18.65     18.65     18.65     18.65     18.65     19.65     1	15.65 15.65 15.6 15.6 15.25 15.35	$\begin{array}{c} 17.3 \\ 18.65 \\ $	$\begin{array}{c} 17.0\\ 18.4\\ 17.45\\ 17.45\\ 17.45\end{array}$	16.95 17.6 16.25 16.25	$\begin{array}{c} 17.35\\ 18.55\\ 19.05\\ 18.35\\ 18$	$\begin{array}{c} 17.85\\ 18.2;\\ 17.1\\ 18.15;\\ 18.0\\ 18.0\end{array}$
26205 26207 26210 26225 26225	. 682 707 707 750 50,672 700	$\begin{array}{c} 16.15 \\ 16.2 \\ 16.0 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 16.05 \\ 10.05 \\ 1$	$\begin{array}{c} 16.0\\ 16.15\\ 16.15\\ 16.65\\ 16.8\end{array}$	88888 88888 89999	12 2 2 3 2 1 2 1 2 2 3 2 1 2 2 3 2 1 2 2 3 2 1 2 2 3 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	202255 202255 202255	18.3 18.3 17.6 18.05 18.05	17.55 18.35 18.0 18.0 17.95 18.0	$\begin{array}{c} 16.4 \\ 16.65 \\ 17.15 \\ 17.6 \\ 17.85 \\ 17.85 \end{array}$	18.4 18.6 18.0 18.3 18.3 15.3 15.3	18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2
26227 26835 26835 26837 26837 26837 26837 26833	8198.704 8198.704 8198.704 810.600 90.600	$\begin{array}{c} 15.9 \\ 14.95 \\ 15.15 \\ 15.1 \\ 15.15 \\ 1$	15.88 15.888 15.8888 15.888 15.888 15.888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.8888 15.88888 15.88888 15.888888 15.88888 15.888888 15.888888888 15.	8822128 8822128 8822128	12 12 12 12 12 12 12 12 12 12 12 12 12 1	15.35 16.15 16.15 16.15 16.1 16.1 15.9	$\begin{array}{c} 17.85\\ 18.25\\ 18.45\\ 18$	22 20 22 22 22 22 22 22 22 22 22 22 22 2	$\begin{array}{c} 17.2\\ 17.5\\ 16.9\\ 17.05\\ 16.9\\ 17.05\\ 10.05\\$	19.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.000	$\begin{bmatrix} 8 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\$
27559 27559 Plate	587,693 Julian Day	19.2 14.85 No. 19	10. 5 16. 1 No. 22	18.4: 18.4: No. 23	17.65 No. 24	15.45 15.45 No. 25	18.0 18.0 No. 30	15.8 18.8: No. 32	16.8 16.8 No. 33	15.59 17.3 No. 36	14.5 No. 43
2637 2649 4397 20544 20559	20726, 750 48, 705 1690, 895 6915, 824 21, 824	18.5 19.0: 18.4 18.05	18.4 18.15 18.1: 18.1: 18.5	17.8 18.7: 18.65	19.0: 16.85 18.1: 17.9 18.2: 18.2:	8.8 2.5	18.9; 18.9; 17.0 17.1 17.0	18.3 17.0 18.65; 18.65; 18.65;	18.0 18.2: 17.8: 17.4:	18.3 17.5 17.25	$\frac{18.1}{17.7}$

Plate	Julian Day	No. 19	No. 22	No. 23	No. 24	No. 25	No. 30	No. 32	No. 33	No. 36	No. 43
20521 20581 20582 20582 20582	26923.785 24.755 25.776 25.776 44.781		17.8: 17.3: 18.2:	$\begin{array}{c} 17.45;\\ 17.0;\\ 17.7;\\ 18.05; \end{array}$	17.7: 19.0:		17.9: 18.0: 18.6: 17.8	18.2:		16.45:	$\begin{array}{c} 18.2;\\ 18.0;\\ 17.7;\\ 17.7;\\ 17.75; \end{array}$
20675 21377 21380 21386 21399	1272-742 7272-784 73-786 73-788 74-776	12.0 12.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3	$\frac{17.8}{17.45}$	18.0; 18.3; 17.55 18.8; 17.55 17.55	18.3 19.0 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	18.25: 18.05: 17.5 18.0	18.3; 17.7 17.9 17.45 17.45	18.5: 18.55: 17.5 18.25	18.1 18.0 18.7	18.0: 17.8 18.35	18.0: 17.8: 18.55: 17.65 18.05
21406 21412 21416 21515 21538	$\begin{array}{c} 891\\ 75.768\\ 306.776\\ 306.776\\ 306.776\\ 0.7.799\end{array}$	19.5: 19.0: 17.6	18.9 17.9 18.0 18.1 18.1	17.7 18.7 18.8 18.8	18.9 19.9 178.9 17	18.8; 18.0; 17.6	$\begin{array}{c} 17.4 \\ 18.15 \\ 16.9 \\ 18.1; \\ 17.9; \\ 17.9; \end{array}$	18.3 17.9 18.2 18.2	$\frac{18.15}{18.4}$	$\frac{17.4}{18.25}$	$\begin{array}{c} 18.3;\\ 17.85\\ 17.55\\ 17.75\\ 17.75;\\ 17.75;\\ \end{array}$
21556 23178 23237 23237 23237 23252 23252	08.800 639.790 58.749 58.749 59.760	$\frac{18.65}{17.9}$	18.0     17.2     17.65     18.55     18.55     1	18.6 18.4: 18.5 18.5	18.45 17.65 18.15 17.3	17.7 18.55 18.55 18.55	18.5 18.3 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6	$\frac{17.7}{17.45}$	17.8; 18.6 18.6	18.0 17.75 17.85 18.25	1.81 1.71 1.71 1.71 1.71 1.71 1.71 1.71
23255 23256 23306 23308 23522	.823 64.765 713.649	$\begin{array}{c} 17.9 \\ 18.6 \\ 17.95 \\ 17.95 \end{array}$	18.7	18.25 18.25 18.35 18.35 18.42	17.9: 17.9: 19.0: 19.0:	18.05 17.9: 17.9	$\begin{array}{c} 17.8 \\ 18.8 \\ 16.95 \\ 17.15 \\ 18.0 \end{array}$	$\begin{array}{c} 18.05\\ 17.9;\\ 17.6\\ 17.45\end{array}$	$\begin{array}{c} 17.9 \\ 18.8 \\ 17.6 \\ 17.65 \end{array}$	18.2: 17.9: 17.4 17.35	$\begin{array}{c} 17.85 \\ 17.95 \\ 17.85 \\ 17.85 \\ 17.8 \end{array}$
23520 23538 91 92 91 92	14 663 15 661 28 630 8015 608 677	18.7 17.6 17.8:	$\begin{array}{c} 18.15; \\ 19.0; \\ 17.35 \end{array}$	$\begin{array}{c} 17.65\\ 18.0;\\ 18.0;\\ 16.95\end{array}$	18.4 18.2	18.6: 17.95	18.1 17.6 18.1	18.1 17.0	17.6	18.6 16.95: 18.15:	18.0 17.35: 17.55 17.55

No. 43	17.35 17.45	17.5: 17.35 17.65	17.1: 17.3: 17.4: 17.6:	16.5: 16.75: 16.9: 16.9:	$\begin{array}{c} 17.5;\\ 17.95;\\ 17.95;\\ 17.45;\\ 17.0;\\ 17.0; \end{array}$	17.05 17.25 17.45 16.955 17.055
No. 36	$\frac{17.3}{17.2}$	17.4: 18.3 17.8	18.0: 17.75: 19.0	17.2:	$\begin{array}{c} 18.7; \\ 18.5; \\ 17.75; \\ 17.9; \end{array}$	$\frac{17.4:}{17.8:}$
No. 33	17.0	$\frac{18.5}{18.0}$	15.3 17.8 17.8	17.6:	17.8:	
No. 32	17.8 17.8 18.5	17.2	17.1: 18.8: 17.9	17.5: 17.75:	17.9: 19.0: 17.9:	17.55
No. 30	18.1 17.9 18.0 18.0	$     \begin{array}{c}       17.9\\       18.5\\       18.5\\       18.5\\       18.5     \end{array} $	$\begin{array}{c} 17.9 \\ 17.9 \\ 18.0 \\ 16.9 \\ 17.2 \\ 17.2 \end{array}$	17.6 17.7 18.4 18.4 18.4 17.4	17.5: 16.8 16.8 17.7: 18.3:	17.2: 17.2: 17.0: 17.0:
No. 25	18.3 18.2	18.05	19.0:	17.65	19.0: 17.4	17.9:
No. 24	18.5 19.0: 18.5:	19.5: 18.5	18.6: 18.7	18.15:	$\begin{array}{c} 17.9;\\ 17.25\\ 17.0;\\ 17.3;\\ 17.3;\\ 19.5;\\ 19.5;\\ 19.5;\\ 19.5;\\ 10$	18.8: 17.8: 19.0: 19.0:
No. 23	18.3 18.6: 17.65: 17.55:	17.15: 19.0: 18.3:	19.0: 19.0:	19.0: 17.9:	18,55 19,00 17,60 19,00	18.8: 18.0: 19.0:
No. 22	18.1	17.6 17.75	17.6: 19.0: 19.0:	$\begin{array}{c} 17.65\\ 17.85;\\ 17.75;\end{array}$	18-35 19-0: 17-5: 18-15:	17.7 18.2: 17.8:
· No. 19	$\begin{array}{c} 16.95\\ 17.25\\ 17.6;\\ 17.8;\\ 17.8; \end{array}$	17.7: 18.4 18.0	17.7 17.6 18.3 18.3	18.5 17.4 18.5	18.1 18.1:	19.0; 17.5; 18.0;
Julian Day	28016.610 .628 .674 .693 .711	37, 732 817, 599 38, 569 38, 569		767 102 102 102 102 103 103 103 103 103 103 103 103 103 103	022 052 052 052 052 052 052 052 052 052	
Plate	101 102 103 103 104	105 1120 1120 1120 1120 1120	$     \begin{array}{c}       187 \\       189 \\       211 \\       $	223 836 837 840 1109	1112 1113 1115 1115 1115	$\begin{array}{c} 1124 \\ 1127 \\ 1226 \\ 1227 \\ 1229 \\ 1229 \end{array}$

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Plate	Julian Day	No. 19	No. 22	No. 23	No. 24	No. 25	No. 30	No. 32	No. 33	No. 36	No. 43
1230	$\frac{28391.699}{92.603}$	x 1 1 - 1	18.1	18.3:	18.5: 18.5:	18.05	17.8	17.85	17.9:	18.3	17.2:17.65
1241 1244 1267	623 695 98,587	18.4	17.35: 17.35:	13.4: 19.0: 18.05:	18.6 17.65:	:0.01	0.21 12.6 18.0	17.2	12.55	$17.85 \\ 19.0;$	$\frac{17.9}{17.15}$
1268 1271 1272 1284 1284	. 609 . 653 . 679 . 679 . 630	$\begin{array}{c} 117\\18&0\\17&6\\17&7\end{array}$	$\begin{array}{c} 17.05; \\ 17.9 \\ 18.7 \\ 17.8 \end{array}$	$\begin{array}{c} 18.5\\ 18.6\\ 19.6\\ 18.0\\ 17.95 \end{array}$	$\begin{array}{c} 18.5; \\ 18.9; \\ 17.5; \\ 17.5; \end{array}$	$\begin{array}{c} 17.9 \\ 17.6; \\ 17.35 \\ 18.25 \\ 18.25 \end{array}$	17.9: 18.4: 18.0 18.1 17.9	$\begin{array}{c} 17.3;\\ 17.65\\ 18.15\\ 18.0;\\ 18.0;\end{array}$	17.2 17.7:	$\begin{array}{c} 18.1;\\ 18.1;\\ 18.35;\\ 17.3\end{array}$	$\begin{array}{c} 17.75\\ 17.35;\\ 18.0\\ 17.3\\ 17.3\\ 17.65\end{array}$
1980 1982 1984 1994	688.713 .759 .822 .822 .804 .804	128.00 100 100 100 100 100 100 100 100 100	$\begin{array}{c} 17.8 \\ 17.5 \\ 19.5 \\ 17.4 \\ 17.4 \end{array}$	18.4: 19.0: 18.8: 18.8: 18.8: 18.8: 18.8: 18.8: 18.8: 18.8: 19.0:	$\begin{array}{c} 17.8;\\ 18.8;\\ 19.5;\\ 17.8;\\ 18.55\\ 18.55\\ \end{array}$	17.2: 17.65 19.0: 17.6	19.5: 18.0: 17.9 18.3	17.5: 17.9: 18.9	18.1: 18.5	18.8: 17.6: 17.6: 17.6	$\begin{array}{c} 18.6;\\ 17.6;\\ 17.9\\ 17.75\end{array}$
2013 2021 2033 2035 2037	93.746 95.759 96.679 .722 .776	17.3: 18.6: 17.9 17.9 17.9	$\begin{array}{c} 16.85;\\ 17.5;\\ 18.8\\ 18.8\end{array}$	$\frac{18.5}{17.2}$	$\frac{18.3}{18.2}$ $\frac{18.2}{19.0}$	18.0 18.05	$\begin{array}{c} 17.0 \\ 18.5 \\ 18.3 \\ 18.0 \\ 18$	$\frac{17.15}{18.0}$	$\frac{17.4:}{17.5:}$	17.2: 17.2: 17.85	$\begin{array}{c} 16.85;\\ 17.55;\\ 17.4;\\ 17.5;\\ 17.95\end{array}$
2111 2114 2115 3249 3252	715.675 $747$ $770$ $9071.710$ $798$	17.8 18.2 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5	$\begin{array}{c} 18.5;\\ 18.5;\\ 17.5\\ 18.45\\ 18.45\end{array}$	8888171 8888171	$\begin{array}{c} 17.5;\\ 19.0;\\ 18.35\\ 17.8\\ 17.8 \end{array}$	18.2: 18.05: 18.25 17.6	0.21 6.21 1.81 0.21	$\frac{18.1}{17.15}$	$\frac{18.2}{17.9}$	$\begin{array}{c} 17.75;\\ 17.9\\ 17.9\\ 18.0\\ 17.85\end{array}$	$\begin{array}{c} 16.95;\\ 17.7;\\ 17.95\\ 17.65\\ 17.7\end{array}$
3263 3275 3278 3290 3303	$72.780 \\ 73.709 \\ 76.742 \\ 77.702 \\ 77.702 \\ 77.702 \\ 702 $	18.5 18.5 18.3 18.6 18.6 18.6	$\begin{array}{c} 18.35 \\ 18.15 \\ 17.45 \\ 17.45 \\ 17.45 \end{array}$	$\frac{17.7}{18.5}$	$\begin{array}{c} 17.25 \\ 19.0 \\ 18.7 \\ 19.5 \\ 18.5 \\ 18.5 \end{array}$	$\begin{array}{c} 18.15\\ 17.9\\ 18.15\\ 18.1;\\ 18.1;\\ 18.1;\\ 18.0 \end{array}$	$\frac{18.1}{17.8}$ $\frac{18.2}{18.2}$ $\frac{18.2}{18.3}$	18.0 17.95 17.4: 17.4:	18.3 18.2 18.3; 17.5	$\begin{array}{c} 18.15\\ 17.75\\ 18.10\\ 18.3\\ 17.6\\ 17.6\end{array}$	$18.1 \\ 17.7 \\ 18.0 \\ 17.05; \\18.7 \\ 18.7$

Plate	Julian Day	· No. 19	No. 22	No. 23	No. 24	No. 25	No. 30	No. 32	No. 33	No. 36	No. 43
3318 4209	$29078.722 \\ 405.920$	18.8:	17.8	18.25 18.3:	18.2	18.0	18.6 17.3:	18.0	17.7	17.9	18.0 18.0:
4228 4584 4684	406.956 30.738 62.653	1213	17.9: 18.5 17.2	17.9:17.15 $17.15$ $17.85$	18.4 18.5:	17.7: 18.0:	17.1: 18.0 17.6:	18.05	$18.1 \\ 17.7:$	18.6 18.1:	18.2:     17.85     17.85     18.0:     18.0:     18.0:     19.0:     19.0:     10.0:
4693 4703 4795 4807 4819	63.648 64.653 87.614 89.702 90.657	18.7 19.0: 18.15	18.4 18.3 18.6 18.6 18.9 17.35	$\begin{array}{c} 19.0;\\ 19.0;\\ 17.0;\\ 18.7\\ 18.35\end{array}$	18.65 18.9 19.0 18.5 18.5 18.4	$\frac{18.5}{17.9}$	$\begin{array}{c} 17.6\\17.15\\17.1\\16.85\\18.6\end{array}$	17, 75 17, 75 17, 8 17, 8 18, 3 18, 3	17.1 17.7 17.9:	$\begin{array}{c} 18.0\\ 18.5\\ 19.0\\ 18.9\\ 18.9\\ 17.65\\ 17.65\end{array}$	18.8 18.8 18.0 17.7
4973 5712 5717 5728 5729	519-568 785-764 86.812 87-784 87-784 810	18.6 18.1 18.0 17.5 17.5	$\frac{17.7}{17.9}$	18.9 18.5 18.5	$\begin{array}{c} 18.25\\ 18.0\\ 18.9\\ 18.1\\ 17.9\end{array}$	$\begin{array}{c} 18.25\\ 17.75;\\ 18.0;\\ 17.75;\\ 18.05\end{array}$	$\begin{array}{c} 18.6\\ 17.1\\ 16.8\\ 16.8\\ 16.8\end{array}$	$\begin{array}{c} 18.2 \\ 17.55 \\ 17.35 \\ 17.95 \\ 18.2 \\ 18.2 \end{array}$	$\frac{18.3}{17.0}$ $\frac{17.95}{18.3}$	18.5 17.25: 18.25 18.35	$\begin{array}{c} 17.75\\ 17.1\\ 17.1\\ 18.2$
5808 5812 5820 5825 5835	813.677 $14.672$ $14.672$ $15.657$	18.6 18.5 17.6 18.5	$\begin{array}{c} 19.0 \\ 18.4 \\ 17.7 \\ 17$	$\frac{18.15}{18.7}$ $\frac{17.4}{17.65}$	$17.2 \\ 18.2 \\ 17.1 \\ 17.6 \\ $	$\begin{array}{c} 18.4;\\ 18.0\\ 17.75\\ 17.75\end{array}$	$18.2 \\ 17.9 \\ 17.0 \\ $	$\begin{array}{c} 17.45\ 17.9\ 18.15\ 17.9\end{array}$	17.7 18.4 17.65 17.9	$\begin{array}{c} 18.9 \\ 6.71 \\ 17.6 \\ 17.6 \end{array}$	18.0     17.9     18.0
5836 5840 5843 5843 5848 5848	$16.631 \\ 6.631 \\ 7.33 \\ 7.733 \\ 7.780 \\ 7.78$	$\frac{17.2}{18.5}$	18.7 18.05 17.65 17.95 18.0	$\begin{array}{c} 17.4 \\ 18.7 \\ 19.1 \\ 18.85 \\ 18.15 \\ 18.15 \end{array}$	$\frac{17.5}{18.25}$ $\frac{18.25}{17.15}$	$ \begin{array}{c} 18.5 \\ 18.0 \\ 17.7 \\ 18.1 \\ 1$	$\begin{array}{c} 18.0\\ 17.15\\ 16.95\\ 17.4\\ 17.7\end{array}$	$\begin{array}{c} 18.05\\ 18.55\\ 18.55\\ 18.05\\ 18.5\\ 18.5\\ 18.15\end{array}$	18 1	$\begin{array}{c} 18.25\\ 17.65\\ 17.85\\ 17.7\end{array}$	$\begin{array}{c} 17.8 \\ 17.2 \\ 17.45 \\ 18.1 \\ 18.1 \\ 18.05 \end{array}$
5948 5964 5974 5980 6836	$\begin{array}{c} 41.688\\ 42.703\\ 43.623\\ 732\\ 30169.693\end{array}$	18.7 18.1 18.3 18.3	$\begin{array}{c} 17.45\\ 17.6\\ 18.0\\ 18.2\\ 18.2\\ \end{array}$	$\begin{array}{c} 17.05\\ 18.6\\ 18.0\\ 18.6\\ 18.6\end{array}$	$\begin{array}{c} 17.75\\ 19.5;\\ 18.2\\ 18.8;\\ 19.0;\\ 19.0; \end{array}$	$\frac{18.2}{18.0}$	18.5; 18.5; 18.3; 18.2; 18.2; 18.2; 18.2;	$\begin{array}{c} 17.65\\ 18.05\\ 17.6;\\ 17.4;\\ 17.4; \end{array}$	$\begin{array}{c} 17,5;\\ 18,1;\\ 17,1;\\ 17,8;\\ 17$	$\frac{17.6}{18.5}$	$\frac{17}{18} \frac{4}{23}$

Plate	Julian Day	No. 19	No. 22	No. 23	No. 24	No. 25	No. 30	No. 32	No. 33	No. 36	No. 43
6887 7686	30169.722	19.0:	19.0; 19.0;	<u>x 2</u> x 2	19.0;	18.0 18.9	18.8;	11.8	17.5:	18.1	17.4
0220	081	<u>c 1-</u>	9.2		0.71	6.1	16.9	16.95	12.9	18.4:	0.71
6847	70.715	XX	18.25	18.1	18.9	18.45	18.6	17.65	17.7:	18.05	18.0
6861	71.730	18.5	18.1	18.4	18.5	18.15	18, 15	17.1	18.1:	18.3	17.75
6864	262.	18.2	18.35	18_6	18,85	18.4	18.4	17.4	18.2:	18.5	18.25
6870	72.642	17.9	18, 15	17.25	18.4	17,85	17.75	17.7		212.5	
6875	242	+ x	17,95	18.15	18 6:	17.25	18.0	17.9	18.1:	17.8	18.15
6938	507,00			17.6;	18.5:	17.6;	16.9			17.1:	18.3:
7923	549.662	17.75	17.95	18.2	18.7	17.9	17.2	17.0	18.25:	17.5	17.7
7927	750	18.2	18.1	17.4	18.2	18,05	18.1	17.6	17.65:	17.8	17.7
78.67	50.686	16.91	17.45	18.4	18.4	17.55	16.75	17.65	18.0;	18.25	17.3
7940	727	17.3	17.8	18,15	18.3	17.7	17.25	17.9	17.7	18.3	17.5
20-02	806	18.0	18.0	18.55	18.1	18.25	17.85	17.6	17.35	18.6	11.8
$6 h 6 \frac{1}{2}$	52.679	18.9:	17.55	17.45	18 6	18, 35	18.4	17.8	17.3	18.05	18.0
7955	53,644	18.5	18.3	17.05	18.1	17.85	18.25	17.3	17.2	17.25	17.75
7961	.720	18.6	18.2	17.05	18.25	18.2	18.25	17.45	17.4	17.6	17.45
7964	6221	18.4:	х. х Т	17.5	18.0:	:- x 	1 <u>×</u> .3	17.7	17.7:	17.85	17.15
F707	54,656	18.05	17.7	18.4	6721		18,05	18,05	17.3	+ : x :	11. X
6262	. 739	18.5	17.9	17.0	18.0:	17.85	18.35	17.8	17.6:	17.95	$\frac{1}{x}$
F108	56.686	16.9	17.65	18.05	18.0	18.5	17.55	17.85	17.6:	18.1	17.65
8020	.748	17.45	18.25	18.4	18.0	17.85	17.85	17.3	18.15:		18.05
×114	86.604	18.5	18.3	18.05	18.25	18.15	17.9	17.55	18.15	18.15	X. N
SSEE	899.685	18.25	17.7	18.1	17.9	$\frac{1}{2}$	6.71	17.85	17.0	18.1	17.15
8902	.754	18.5	18.3	18.1	17.2	6.71	18.2	18.3	17.5	18,15	17.2
2068	118.	18.3	17.9	18.65	17.9	18.0	18.4	17.35	17.75	18.5	17.5
6168	900.675	18.6	18,35	6721	18.55	18.25	17.3	17.7	17.3	18.1	17.5
8926	.766	18.6	19.0	<u>x</u>	6 9 19	$\frac{x}{x}$	1.1	17.5	17.85	17.25	17.1
8020	SIS.	10	17.95:		:0.71	1.		14.001	10 05.	14.55	
2006	210.22	11.25	12.0	17.30	10.0	00.11	11.10	0.11	10.001	(14.11	11.10

| NO. 55 NO. 50 NO. 45  | 18.2: 17.2 17.1   | 17.3 17.65  |   | 17.65: 17.1 17.35  
  | 17.65: 17.1 17.35<br>17.85 17.3 17.65<br>17.85 17.3 17.65   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                     | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  
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17.4 18.2: 17.2	2 L -
  | [7.05 17.85 17.3<br>[7.07 17.07 17.0  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                     | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  
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   | $ \begin{bmatrix} 7.05 & 17.85 & 17.85 \\ 17.55 & 17.95 & 17.95 \\ 17.55 & 17.95 & 17.95 \\ 17.55 & 17.25 & 17.45 \\ 17.35 & 17.25 & 17.45 \\ 17.85 & 18.12 & 17.85 \\ 17.85 & 18.0 & 18.3 \\ 17.85 & 17.16 & 18.3 \\ 17.85 & 17.16 & 18.3 \\ 17.85 & 17.16 & 18.3 \\ 17.85 & 17.16 & 18.3 \\ 17.85 & 17.16 & 18.3 \\ 17.85 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.15 & 17.16 & 18.3 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.16 & 18.2 & 17.8 \\ 17.17 & 18.18 & 17.8 \\ 17.18 & 18.18 & 18.18 \\ 17.1$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   
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  | $ \begin{array}{c} [7.05]{(7.05)}{(7.56)}{(7.56)}{(7.95)}$   | $ \begin{bmatrix} 7.05 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 17.55 \\ 18.5 \\ 17.55 \\ 18.5 \\ 17.55 \\ 17.55 \\ 18.5 \\ 17.55 \\ 17.55 \\ 18.5 \\ 17.55 \\ 17.55 \\ 18.5 \\ 17.55 \\ 17.55 \\ 17.55 \\ 18.55 \\ 17.55 \\ 18.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 18.55 \\ 17.55 \\ 17.55 \\ 18.55 \\ 17.55 \\ 17.55 \\ 18.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 18.55 \\ 17.55 \\ $  
   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   
   | $ \begin{bmatrix} 7.05 & 17.85 & 17.85 \\ 17.55 & 17.75 & 17.95 \\ 17.55 & 17.75 & 17.65 \\ 17.65 & 17.95 & 17.65 \\ 17.6 & 18.3 & 17.85 \\ 17.8 & 17.85 & 17.85 \\ 17.8 & 17.85 & 17.85 \\ 17.75 & 18.0 & 18.3 \\ 17.75 & 17.7 & 18.3 \\ 18.05 & 17.7 & 18.3 \\ 17.75 & 17.7 & 18.95 \\ 17.75 & 18.95 & 17.3 \\ 17.55 & 17.7 & 18.95 \\ 17.75 & 18.95 & 17.3 \\ 17.55 & 17.7 & 18.95 \\ 17.75 & 18.95 & 17.3 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 18.95 \\ 17.6 & 17.75 & 17.95 \\ 17.75 & 17.95 & 17.95 \\ 17.6 & 17.75 & 17.95 \\ 17.75 & 17.95 & 17.95 \\$  | $ \begin{array}{c} 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.05 \\ 17.15 $   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 7.15 17.65: 17.1  | 1.11 :00.11 01.1  | 0 LT 00 LT 00 L   | 7.05 17.95 17.6  
  | 0.11 06.11 (a).1  |  | 7.55 17.7 17.4                                       | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 7.55 17.7 17.4<br>7.5 17.55 17.65<br>7.35 17.25 17.45 | 7.55 17.7 17.4<br>7.5 17.55 17.65<br>7.35 17.25 17.65<br>7.35 17.25 17.45 | 7.55         17.7         17.4           7.55         17.55         17.66           7.55         17.25         17.46           7.55         17.25         17.46           7.6         18.35         17.87           7.5         18.12         17.87 | 7,55 17,7 17,4<br>7,5 17,55 17,67<br>7,5 17,55 17,66<br>7,35 17,25 17,45<br>7,6 18,3 17,45<br>7,5 18,1; 17,8<br>7,5 18,1; 17,8<br>7,85 18,0; 18,3 | 7.55 17.7<br>7.55 17.55 17.46<br>7.55 17.25 17.46<br>7.5 18.25 17.45<br>7.6 18.3 17.85<br>7.5 18.01 18.3<br>7.6 18.01 18.3<br>7.6 18.01 18.3  | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55   | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55                                    | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55   
  | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55  | 7.55     17.7       7.55     17.7       7.55     17.55       7.55     17.55       7.55     17.55       7.55     17.55       7.55     17.25       7.5     17.25       7.5     17.25       7.5     17.45       7.5     17.65       7.5     17.65       7.5     17.15       7.8     17.75       8.8     17.75       8.8     17.45       7.8     17.15       8.8     17.75       8.8     17.45       17.45     17.13       8.8     17.45       17.45     17.13   
   | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55  | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55  
   | 7.55     17.7       7.55     17.55       7.55     17.55       7.55     17.55       7.5     17.55       7.5     18.1;       7.5     18.1;       7.5     18.1;       7.5     18.1;       7.5     18.1;       7.5     18.1;       7.5     17.1;       8.1;     17.1;       8.2;     17.1;       8.2;     17.1;       17.1;     18.3;       8.2;     17.1;       8.2;     17.1;       17.1;     18.3;       8.2;     17.1;       8.2;     17.1;       17.1;     17.3;       8.2;     17.1;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3;       17.1;     17.3; <td>7.55     17.7       7.55     17.7       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.15       8.1     17.25       17.1     17.1       8.1     17.1       8.2     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.4     17.1       8.5     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.3       8.3<td>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55</td><td>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55</td><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>7.55     17.7       7.55     17.55       7.55     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       8.17     17.6       8.25     18.0       8.25     17.75       8.25     17.75       17.75     18.8       8.25     17.75       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78</td><td>7.55     17.7       7.55     17.7       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.65       7.5     17.57       7.5     17.65       8.12     17.65       8.17     17.65       8.28     17.75       8.28     17.75       17.45     18.3       8.28     17.75       17.45     18.3       8.8     17.75       17.45     18.3       8.8     17.75       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45       17.45     17.</td><td>7.55     7.75       7.55     7.75       7.55     7.75       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.75     7.755       7.75     7.755       7.75     7.755       7.755     7.755    7.755     7.755    &lt;</td><td>7.55     17.7       7.55     17.7       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       17.1     17.1       17.1     17.1       8     17.6       17.1     17.1       17.1     17.</td></td> | 7.55     17.7       7.55     17.7       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.15       8.1     17.25       17.1     17.1       8.1     17.1       8.2     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.3     17.1       8.4     17.1       8.5     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3    
17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.15       8.3     17.3       8.3 <td>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55</td> <td>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55<br/>7.55</td> <td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td>7.55     17.7       7.55     17.55       7.55     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       8.17     17.6       8.25     18.0       8.25     17.75       8.25     17.75       17.75     18.8       8.25     17.75       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78</td> <td>7.55     17.7       7.55     17.7       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.65       7.5     17.57       7.5     17.65       8.12     17.65       8.17     17.65       8.28     17.75       8.28     17.75       17.45     18.3       8.28     17.75       17.45     18.3       8.8     17.75       17.45     18.3       8.8     17.75       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45       17.45     17.</td> <td>7.55     7.75       7.55     7.75       7.55     7.75       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.75     7.755       7.75     7.755       7.75     7.755       7.755     7.755    7.755     7.755    &lt;</td> <td>7.55     17.7       7.55     17.7       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       17.1     17.1       17.1     17.1       8     17.6       17.1     17.1       17.1     17.</td>   | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55   | 7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55<br>7.55   
  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 7.55     17.7       7.55     17.55       7.55     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       7.5     17.55       8.17     17.6       8.25     18.0       8.25     17.75       8.25     17.75       17.75     18.8       8.25     17.75       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     18.8       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78       17.75     17.78   | 7.55     17.7       7.55     17.7       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.57       7.5     17.65       7.5     17.57       7.5     17.65       8.12     17.65       8.17     17.65       8.28     17.75       8.28     17.75       17.45     18.3       8.28     17.75       17.45     18.3       8.8     17.75       17.45     18.3       8.8     17.75       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     18.3       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45     17.45       17.45       17.45     17.  
  | 7.55     7.75       7.55     7.75       7.55     7.75       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.55     7.755       7.75     7.755       7.75     7.755       7.75     7.755       7.755     7.755    7.755     7.755    <   | 7.55     17.7       7.55     17.7       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.5       7.5     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       8     17.1       17.1     17.1       17.1     17.1       8     17.6       17.1     17.1       17.1     17.   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 7.15 17.65: 1<br>7.05 17.85 1<br>7.05 17.95 1   | 7.05 17.95 1<br>7.05 17.95 1  | 7.05 17.95 1  |  
  |   | 7 55 17 7  | 1 . 1/1 1 (1/1 T                                     | 7.5 17.55 1  | 7.5 17.55 1<br>7.35 17.25 1                           | 7.5 17.55 1<br>7.35 17.25 1<br>7.8 18.3                                   | 7.55 17.55<br>7.35 17.255<br>7.66 18.33<br>7.6 18.33<br>7.5<br>8.1: 1   | 7155<br>7155<br>7155<br>7155<br>7155<br>7155<br>7155<br>7155  | 7.2.5.1.7.2.5.1.7.2.5.1.7.7.5.5.7.7.2.5.5.1.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7 | 7 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |   | 32     32     32     32       32     32     32     32 <td></td> <td>6     8     8     8     8     8     8       7     7     7     6     6     7     1       7     7     7     8     8     8     8       8     8     8     8     8     8     8       9     8     8     8     8     8     8       9     8     8     8     8     8     8       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1    <t< td=""><td>1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1</td></t<><td>22     2<!--</td--><td>22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>20     23     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       25     25     26     26     26     26       26     26     26     <td< td=""><td>22     23     24     &lt;</td><td>22     23     23     24   
 24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     &lt;</td><td>1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2<td>1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       2     2<td>1     1<td>1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1<td>2000 2000 2000 2000 2000 2000 2000 200</td></td></td></td></td></td<></td></td></td> |   | 6     8     8     8     8     8     8       7     7     7     6     6     7     1       7     7     7     8     8     8     8       8     8     8     8     8     8     8       9     8     8     8     8     8     8       9     8     8     8     8     8     8       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1 <t< td=""><td>1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1</td></t<> <td>22     2<!--</td--><td>22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>20     23     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       25     25     26     26     26     26       26     26     26     <td< td=""><td>22     23     24 
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 24     &lt;</td><td>22     23     23     24     &lt;</td><td>1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2<td>1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       2     2<td>1     1<td>1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1<td>2000 2000 2000 2000 2000 2000 2000 200</td></td></td></td></td></td<></td> | 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | 20     23     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24       21     24     24     24     24     24      
21     24     24     24     24     24       21     24     24     24     24     24       25     25     26     26     26     26       26     26     26 <td< td=""><td>22     23     24     &lt;</td><td>22     23     23     24     &lt;</td><td>1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2<td>1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       2     2<td>1     1<td>1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1<td>2000 2000 2000 2000 2000 2000 2000 200</td></td></td></td></td></td<> | 22     23     24     <   | 22     23     23     24     <  
   | 1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2 <td>1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       2     2<td>1     1<td>1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1<td>2000 2000 2000 2000 2000 2000 2000 200</td></td></td></td> | 1     1     1     1     1     1     1       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       1     2     2     2     2     2     2     2       2     2 <td>1     1<td>1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1<td>2000 2000 2000 2000 2000 2000 2000 200</td></td></td>  | 1     1 <td>1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1<td>2000 2000 2000 2000 2000
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| 17.4 18.2:<br>17.15 17.65:<br>17.05 17.85<br>17.05 17.85  | 17.15<br>17.05<br>17.05<br>17.95<br>17.95<br>17.95<br>17.95<br>17.95                              | 17.05 17.95<br>17.05 17.95<br>17.05 17.95   | 17.05 17.95<br>17.05 17.95  | 1<br>1<br>1<br>1<br>1  
  | 1 1 1   | 1.11 00.11   | 17.5 17.55   |  | 17.35 17.25   | 17.35 17.25<br>17.6 18.3  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 17.35 17.25<br>17.6 18.3<br>17.5 18.1;<br>17.5 18.1;<br>17.85 18.0;   | 17.35 17.25<br>17.6 18.3<br>17.5 18.1:<br>17.85 18.0:<br>17.65 18.0:<br>17.65 18.0:   | [7,35] [7,25]<br>[7,6] [8,3]<br>[7,5] [8,1;<br>[7,85] [8,0;<br>[7,6] [8,0;<br>[7,6] [8,0;<br>[7,6] [8,0;<br>[7,6] [8,0;<br>[7,6] [8,0; | 17.35 17.25<br>17.6 18.3<br>17.5 18.1:<br>17.85 18.0<br>17.6 18.0<br>17.5 18.0<br>17.5 17 -     | [7, 35] [7, 25]<br>[7, 6] [8, 15]<br>[7, 6] [8, 16]<br>[7, 8] [8, 10]<br>[7, 8] [8, 10]<br>[7, 8] [8, 10]<br>[7, 8] [8, 10]<br>[7, 15] [8, 10]<br>[7, 15] [17, 16]<br>[7, 17] [17, 16]<br>[17, 16] [17, 16] [17, 16]<br>[17, 16] [17, 16] [17, 16]<br>[17, 16]    
  | 17.35<br>17.6<br>17.6<br>17.6<br>18.0<br>17.8<br>17.6<br>17.8<br>17.6<br>17.8<br>17.1<br>17.6<br>17.7<br>17.1<br>17.6<br>17.7<br>17.7<br>17.7   | [7, 35]<br>[7, 6]<br>[7, 6]<br>[7, 6]<br>[7, 8]<br>[7, 8]<br>[7, 8]<br>[7, 1]<br>[8, 8]<br>[7, 1]<br>[8, 8]<br>[7, 1]<br>[8, 8]<br>[7, 1]<br>[1, 2]<br>[1, 2]<br>[   
   | 17.35<br>17.35<br>17.6<br>17.6<br>17.8<br>17.8<br>17.8<br>17.1<br>17.8<br>17.1<br>17.8<br>17.1<br>17.1  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   
   | 17.35<br>17.6<br>17.6<br>17.5<br>17.8<br>17.8<br>17.8<br>17.1<br>17.8<br>17.1<br>17.8<br>17.1<br>17.1   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  
  | $ \begin{array}{c} [7,35] \\ [7,5] \\ [7,5] \\ [7,5] \\ [7,25] $ | $ \begin{bmatrix} 7.35 \\ 17.55 \\ 17.56 \\ 17.55 \\ 17.56 \\ 18.25 \\ 17.58 \\ 17.58 \\ 17.56 \\ 18.25 \\ 17.57 \\ 17.56 \\ 17.57 \\ 17.56 \\ 17.57 \\ 17.57 \\ 17.56 \\ 17.57 \\ 17.57 \\ 17.56 \\ 17.57 \\ 17.56 \\ 17.57 \\ 17$   | $ \begin{array}{c} [7,35] \\ [7,5] \\ [7,5] \\ [7,5] \\ [7,25] \\
[7,25] \\ [7,25] $  | $ \begin{bmatrix} 7.35 \\ 17.55 \\ 17.56 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.55 \\ 17.75 \\ 17$  | $ \begin{array}{c} [7,35] \\ [7,56] \\ [7,56] \\ [7,56] \\ [7,75] \\ [7,7$   | 17.35<br>17.6<br>17.5<br>17.5<br>17.8<br>17.8<br>17.8<br>17.8<br>17.8<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.6<br>17.7<br>17.7  
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  | 17.55 17.7<br>17.5 17.55  | 17.5 17.55   |  | 17.35 17.25  |   | 17.6 18.5   | 17.6 18.1:<br>17.5 18.1:  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 17.6 18.0<br>17.5 18.1;<br>17.85 18.0;<br>17.6 18.0;<br>17.6 18.0  | 17.6<br>17.85<br>17.85<br>17.85<br>17.6<br>17.6<br>17.6<br>17.6<br>17.6<br>17.6<br>17.6<br>17.6 | 17.16<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15<br>17.15  
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  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 17.6     18.6       17.5     18.1       17.5     18.1       17.6     18.1       17.8     17.1       17.7     17.1       18.25     17.1       17.55     17.7       18.05     17.7       18.05     17.7       17.55     17.7       17.55     17.7       17.55     17.7       17.55     17.7       17.55     17.7       17.55     17.7       17.55     17.7   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  
  | 17.6     18.6       17.5     18.6       17.5     18.6       17.5     18.6       17.5     18.6       17.5     18.6       17.5     18.6       18.8     17.7       18.9     17.7       18.9     17.7       18.9     17.7       18.9     17.7       18.9     17.7       17.6     17.7       18.9     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.6     17.7       17.7     17.7       17.7     17.7       17.7     17.7       17.7     17.7       17.7     17.7       17.7     17.7       17.7     17.7       17.7     17.7       17.7     17.7       17.7     17.7 <t< td=""><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td></t<>  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   |
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   | 17         8         17         8           17         8         17         18         8           17         8         17         17         17           18         8         17         17         17         17           18         8         17         17         17         17         17           18         8         17  | 17         8           17         8           17         8           18         8           17         8           18         8           17         8           18         8           17         16           18         8           17         16           18         8           17         17           18         8           11         17           18         8           19         17           10         18           11         17           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10           18         10   
  | 17.8         17.8         17.8           17.1         17.1         16.1         17.1           17.1         17.1         16.2         17.1           17.1         17.1         16.2         17.1           17.1         17.1         16.2         17.1           17.1         17.1         16.2         17.1           17.1         17.1         17.2         17.1           17.1         17.1         17.2         17.2           17.1         17.2         17.3         17.4           17.1         17.2         17.2         17.2           18.0         18.1         17.1         17.3           18.1         17.1         17.3         18.2           18.1         17.1         17.3         18.2           19.1         17.1         17.3         18.2           19.1         17.1         17.3         18.2           19.1         17.1         17.3         19.2           19.1         17.1         17.3         19.3           19.1         17.1         17.3         19.3           19.1         17.1         18.3         19.3           19.1  | 17.85         18.00           17.18         17.16           17.18         17.16           17.18         17.16           18.25         17.17           18.25         17.17           18.25         17.17           18.25         17.17           18.25         17.17           18.25         17.17           17.16         17.17           18.25         17.17           17.17         18.26           18.25         17.17           17.17         18.26           17.17         18.26           18.25         17.17           18.26         17.17           18.26         17.17           18.26         17.17           18.26         17.18           18.26         17.18           18.26         18.27           18.88         17.18           18.88         18.88           17.18         18.88           17.17         18.88           17.18         18.88           18.88         18.88           18.88         18.88           18.88         18.88           18.88 <td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td>17     8       17     8       17     8       17     8       18     8       17     17       17     17       18     8       17     17       18     17       17     17       17     17       18     17       17     17       18     17       17     17       18     17       17     17       18     18       17     17       18     18       17     17       18     18       17     17       18     18       17     17       18     17       18     17       17     18       18     17       17     17       17     17       17     17       17     17       17     17       17     17       18     18       19     11       11     17       11     18       11     19       11     17       17     19       18     <t< td=""><td>17.8     17.8       17.1     17.1       17.1     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     18.2       17.1     17.1       17.1     18.2       17.1     17.1       17.1     17.1       18.25     17.1       19.1     17.1       11.1     17.1       11.1     17.1       11.1     17.1</td><td>17.85         17.15           17.15         17.15           17.15         17.15           17.15         17.15           18.85         17.15           18.85         17.15           18.85         17.15           17.15         17.15           18.85         17.15           17.15         17.15           18.85         17.15           17.15</td></t<><td>17.85         17.15           17.15</td></td> | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  
   | 17     8       17     8       17     8       17     8       18     8       17     17       17     17       18     8       17     17       18     17       17     17       17     17       18     17       17     17       18     17       17     17       18     17       17     17       18     18       17     17       18     18       17     17       18     18       17     17       18     18       17     17       18     17       18     17       17     18       18     17       17     17       17     17       17     17       17     17       17     17       17     17       18     18       19     11       11     17       11     18       11     19       11     17       17     19       18 <t< td=""><td>17.8     17.8       17.1     17.1       17.1     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     18.2       17.1     17.1       17.1     18.2       17.1     17.1       17.1     17.1       18.25     17.1       19.1     17.1       11.1     17.1       11.1     17.1       11.1     17.1</td><td>17.85         17.15           17.15         17.15           17.15         17.15           17.15         17.15           18.85         17.15           18.85         17.15           18.85         17.15           17.15         17.15           18.85         17.15           17.15         17.15           18.85         17.15           17.15</td></t<> <td>17.85         17.15           17.15</td> | 17.8     17.8       17.1     17.1       17.1     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       18.25     17.1       17.1     17.1       17.1     17.1       18.25     17.1       17.1     18.2       17.1     17.1       17.1     18.2       17.1     17.1       17.1     17.1       18.25     17.1       19.1     17.1       11.1     17.1       11.1     17.1       11.1     17.1   | 17.85         17.15           17.15         17.15           17.15         17.15           17.15         17.15           18.85         17.15           18.85         17.15           18.85         17.15           17.15         17.15           18.85         17.15           17.15         17.15           18.85         17.15           17.15   
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  | 1 . 1   | 17.45  | 17.6   | 17.7   | 18.4  | 9.81  |   | 18.4  | <u>x</u><br><u>x</u><br><u>x</u>  | 18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>1  | + 0.9 L-<br>2 X X L-<br>2 X X L-  | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  
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  | +60.  | .714   | -724   | .734   | 33,600  | 610   |   | .635  | .635<br>.655  | .635<br>.655<br>.657   | .635<br>.635<br>.658<br>.687<br>.717  | .635<br>.658<br>.658<br>.687<br>.717<br>.717   
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Plate	Julian Day	No. 19	No. 22	No. 23	No. 24	No. 25	No. 30	No. 32	No. 33	No. 36	No. 43
$\begin{array}{c} 13460\\ 13464\\ 13488\\ 13492\\ 13492\\ 13492\end{array}$	32357.655 701 60.659 723 793	81118 1881718 19441	$\begin{array}{c} 17.4 \\ 17.6 \\ 19.0 \\ 18.75 \\ 18.85 \\ 18$	17.5 17.75 18.5 18.5 18.5 17.55 17.55 18.55 17.55	18.55 18.45 17.2 18.35 17.2 18.35	$\frac{18.4}{17.45}$	18.3 18.5 17.05 17.6	17.75 17.75 17.75 17.75	17.8: 17.35 17.6: 17.6:	1212 1715 1715 1715 1715 1715 1715 1715	$\frac{18.0}{17.9}$
$\begin{array}{c} 14580 \\ 14584 \\ 14591 \\ 14604 \\ 14609 \end{array}$	740.637 .683 .41.638 .692	18.3 17.14 18.12 18.14 19.14 1	$\frac{18}{17}, \frac{45}{45}$	$\frac{17}{18} \frac{95}{17} \frac{17}{15}$	$\begin{array}{c} 18.45\\ 17.05\\ 17.05\\ 18.45\\ 18.45\\ 18.25\end{array}$	17.9 18.1 17.5 17.5 17.5 17.5	$\begin{array}{c} 17.7\\ 18.0\\ 18.3\\ 17.6\\ 17.95\end{array}$	17.15 17.5 17.9 17.9	$\begin{array}{c} 17.45\\ 16.85\\ 17.6\\ 17.0\\ 17.05 \end{array}$	$\begin{array}{c} 18.1 \\ 18.15 \\ 17.6 \\ 17.35 \\ 17.35 \\ 17.45 \end{array}$	$\begin{array}{c} 17.85\\ 18.25\\ 18.35\\ 18.35\\ 17.95\\ 17.95 \end{array}$
14624 14629 14638 14756 14764	$\begin{array}{c} 42.621 \\ .673 \\ .779 \\ .70.616 \\ .697 \end{array}$	$\begin{array}{c} 17.35\\ 17.1\\ 18.15\\ 18.0\\ 18.25\\ 18.25\end{array}$	<u>- 8 8 2 5 8 8 9 7 8 8 8 9 7 8 8 8 9 7 8 8 8 9 7 8 8 8 9 7 8 8 8 9 7 8 8 8 9 7 8 8 8 9 7 8</u>	17.15 18.6 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3	$\begin{array}{c} 18.45\\ 18.75\\ 16.75\\ 18.4\\ 18.4\\ 18.6\\ 18.6\end{array}$	17.95 17.7 17.8 17.8 17.95 17.95	$\begin{array}{c} 16.9\\ 17.4\\ 18.1\\ 18.15\\ 18.5\end{array}$	$\begin{array}{c} 17.35\\ 17.45\\ 17.85\\ 18.0\\ 18.0\\ 16.95 \end{array}$	16,95 17.2 18,25 18,25 18,25 18,25	$\frac{17.95}{15.2}$	$\begin{array}{c} 17.55\\ 17.5\\ 18.0\\ 18.15\\ 17.1\\ 17.1\end{array}$
21395 21402 21426 21431 22343	4929.638 31.665 5273.697	15.55 15.55 18.33 17.33 17.33 17.33 17.33 17.33 17.33 17.33 17.33 17.33 17.33	$\begin{array}{c} 17.55\\ 18.1\\ 18.25\\ 17.05;\\ 18.3\\ 18.3\end{array}$	18.55 17.9 18.35 17.85 18.35	$\frac{18}{128} \frac{15}{15}$	17.55 17.8 18.7 18.7 18.7 17.8 17.8 17.8 17.8		$\begin{array}{c} 17.4 \\ 17.45 \\ 17.6 \\ 17.85 \\ 17.85 \end{array}$	17.9: 18.1: 18.25:	$\begin{array}{c} 17.5 \\ 17.95 \\ 18.0 \\ 17.95 \\ 18.2 \\ 18.0 \\ 18.0 \\ 17.95 \\ 17.9$	17.2 18.0 18.55 17.8 18.3
22348 22363 22371 22380 22385	$\frac{74.691}{75.701}$	$\frac{18.65}{17.9}$ $\frac{18.85}{17.55}$	18.05 17.35 18.1: 18.1: 18.2: 17.0:	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	$\begin{array}{c} 18.0\\ 17.0\\ 17.55\\ 17.55\\ 17.3; \end{array}$	$\begin{array}{c} 17.7 \\ 18.05 \\ 17.8; \\ 17.9; \\ 17.9; \end{array}$	17.5 18.6 18.7 18.7 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2	$\begin{array}{c} 17.8 \\ 17.2 \\ 17.8 \\ 17.8 \\ 17.4 \end{array}$	18.35: 18.1: 18.1:	4.171 1.71 1.8 1.71 1.7 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	18.2 18.2 17.6 17.9
22516 22521 22540 23295 23315	$\begin{array}{c} 309.632\\ 679\\ 10.624\\ 685.610\\ 87.621\end{array}$	18.05 17.72 17.72 17.72 17.72	18.3 18.3 18.4 18.3 18.4 18.5 19.4 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6	$\frac{18.65}{17.7}$	$\begin{array}{c} 17.95\\ 18.15\\ 17.6\\ 19.1\\ 17.9\\ 17.9\end{array}$	18.25 18.25 17.5 18.0 18.0	17.5 17.65 17.3 18.35 18.35	$\begin{array}{c} 18.1 \\ 17.95 \\ 17.2 \\ 18.05 \\ 18.05 \end{array}$	17.9: 17.8: 17.85: 17.9: 17.9:	18.15 17.75 17.5 17.5 17.5	$\begin{array}{c} 18.0\\ 17.75\\ 17.2\\ 17.95\\ 18.0\\ 18.0 \end{array}$

Julian Day	No. 19	No. 22	No. 23	No. 24	No. 25	No. 30	No. 32	No. 33	No. 36	No. 43
819 58	$\frac{18.35}{18.7}$	17.9 17.9 17.75	18.5 18.5 18.1	18.0     17.1     17.15	F 21 99721 92721	17.15 17.15 17.45	$17.3 \\ 17.2 \\ 16.9$	17.4:18.2:18.2:17.9:	$\frac{18.15}{17.35}$	18.35 17.35 17.45 17.45
346 346		17.65:	17.0:	17.3:	18.1:	17.2:	16.35:			17.9:
652 856		18.9: 18.9:	17.9:	17.0:	17.6;	18.0:	17.65:	17 6.	17.15:	17.35:
629	17.6	10.4 1	101 101	101	17.8	17.95	91	17.05:	17.45	- 61 - 2 
. (39	18.5	18.25 18.25	17.35	66.91 10.61	60.01 17.9	15.5	17.55	17.15	17.15	17.05
.733	18.3	$\frac{18.25}{12.25}$	18.05	17.9	17.55	$\frac{18.15}{12.00}$	17.9	17.7	17.6	17.45
642 162	5,4 2,2 1	17.95	17.55	18. 15 18. 15	1.8	18.05	17.45	17.85:	18.69	11.80
.64S 661	17.45 17.85	17.6	17.75	19.5: 19.5:	17.45 17.75	18.3 18.6		$\frac{18.35}{18.25}$	$17.3 \\ 17.65$	18.2 18.1
.682		17.5	17.9	18.65	17.75	18.3 18.3	17.95	17.95	17.45	18.1
. 750	18.35	22.21		17.0	17.79	0.4. 18.0	15.85	17.25	6°21	6 e. 81
.672 700	16.85	17.9	17,05 17,35	18.85 18.35	17.45 $17.45$	18.6 18.4	$\frac{17.25}{17.5}$	17.6: 17.8:	$\frac{18.0}{18.15}$	17.9
.733	17.8	18.55	17.4	19.5:	17.75	18.5	17.25	17.85:	17.95	18.15
104		17.3	17.0	18.55	18.45:	인 11	17.23	i i	17.0	17.85
193 193	17.7	17.85	17.55	12, 40 12, 40	17.55 17.85	9.5 215		:7 :5: 	17-05	
690	18.6	18.55	18.35	17.8	18.55	18.3	17.15	17.8:	18.65	18.35
	18.7	18.3	17.45	17.55	18.2	17.1	17.7	17.6: 17.6:	17.9	18,05 18,33
. (94 . 693	15.5:	17.95: 17.95:	18.2 18.2	18.6	17.71	17.4	18.0:	0.11	17.85	17.85

#### NOTES TO TABLE III

- Plates 103-4397 taken by F. G. Pease and H. Shapley with Mt. Wilson 60-inch reflector.
- Plates 20544-23600 taken by H. Sawyer Hogg with Dominion Astrophysical Observatory, 72-inch reflector.
- Plates 4209 and 4228 taken by H. Sawyer Hogg with 36-inch reflector, Steward Observatory, University of Arizona.
- Plates B 1691 to B 1789 taken by various observers with 19-inch David Dunlap reflector.

All other plates taken by H. Sawyer Hogg with 74-inch David Dunlap reflector.

				F 1	D 1 1
		Magnitude		Epoch	Period
Var.	Max.	Min.	Mean	of Maximum	days
1	14.65	16.1	15.35	38191.8	18.730
2	15.8	17.0	16.4	38198.58	2.79468
4	17.2	18.6	17.9	38199.23	0.651313
5	17.1	18.7	17.9	38199.61	0.548796
7	15.4	16.5	15.95	38189.56	13.596
9	17.0	18.4	17.7	$3\overline{8}199.47$	0.538831
10	17.1	18.5	17.8	38199.34	0.585914
11	16.4	18.0	17.2	38199.59	0.604417
15	16.9	18.6	17.75	38199.51	0.557727
16	16.8	18.2	17.5	38199.40	0.600617
19	17.0	18.6	17.8	38199.34	0.545671
22	17.3	18.5	17.9	38199.23	0.655916
23	17.1	18.5	17.8	38199.72	0.552342
24	17.0	18.7	17.85	38199.64	0.519901
25	17.65	18.4	18.0	38199.48	0.360707
30	16.9	18.3	17.6	38199.72	0.534226
32	17.0	18.1	17.55	38199.55	0.655975
33	17.3	18.3	17.8	38199.59	0.479946
36	17.2	18.3	17.75	38199.33	0.677990
43	17.0	18.2	17.6	38199.46	0.521747

TABLE IV

#### Remarks to Table IV

- Var. 1 The period seems to be steadily shortening rapidly, and may be expressed as  $P = 18^{4}.730 14 \times 10^{-7} (T T_0)$ , where  $T_0 = 2438200.00$ , over the interval of 52 years represented by the observations.
- Var. 11 This variable, on the outskirts of the cluster, is more than half a magnitude brighter than the average of the other cluster-type variables.
- Var. 25 The period of 0.360350 days satisfied our observations almost as well, and it is difficult to determine which is the true period.
- Var. 33 The accuracy of measures for this star is less than average because it is a blended double.



FIG. 2—Mean light curves for the nine stars of longest period in this group of 20. Two curves are given for Var. 1 to show the change in period.

days, very similar to Var. 29 in Omega Centauri (Martin 1938), whose period is comparable. From two plates, Joy gives spectral types of F5 and G2e3, with an average radial velocity of -136 km/sec.

Our comments on the total picture of the variables in this cluster will be reserved till the final paper. The second paper of this series is



FIG. 3--Mean light curves for 11 variables, arranged by decreasing length of period.

in preparation. A summary of the results for the first forty periods determined in this cluster was presented at the Michigan meetings of the American Astronomical Society in August 1965 (Sawyer Hogg and Wehlau 1965).

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