



# Astrodienst Ephemeris Tables for the year 2153

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming  
Dieter Koch and Alois Treindl  
based on Swiss Ephemeris  
Code D5EPX

# ASTRODIENST EPHEMERIS for the year 2153

## geocentric

JANUARY 2153

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 43 35	10°34'13	20°11'20	22°32'32	24°08'08	8°17'00	17°17'25	8°18'34	17°17'35	10°10'26	23°17'52	17°17'01	15°15'51	8°17'57	9°26'26	M 1
T 2	6 47 32	11°45'22	2°11'14	24°08'08	24°49'08	8°05'05	17°17'34	8°18'30	17°17'39	10°10'28	23°17'51	16°16'59	15°15'48	9°03'03	9°32'32	T 2
W 3	6 51 28	12°46'31	14°03'14	25°04'03	25°29'03	8°09'09	17°17'44	8°18'26	17°17'42	10°10'31	23°17'50	16°16'58	15°15'45	9°10'10	9°38'38	W 3
T 4	6 55 25	13°47'39	25°03'53	27°20'20	26°07'07	8°12'12	17°17'54	8°18'22	17°17'46	10°10'33	23°17'49	16°16'59	15°15'42	9°17'17	9°45'45	T 4
F 5	6 59 21	14°48'48	7°18'50	28°55'28	26°44'04	8°15'15	18°04'04	8°18'18	17°17'49	10°10'35	23°17'48	17°00'00	15°15'39	9°23'23	9°51'51	F 5
S 6	7 3 18	15°49'56	19°58'00	27°19'19	27°19'19	8°16'16	18°14'14	8°18'13	17°17'52	10°10'38	23°17'47	17°00'00	15°15'36	9°30'30	9°57'57	S 6
S 7	7 7 15	16°51'04	2°11'22	2°03'03	27°54'04	8°17'17	18°24'24	8°09'09	17°17'56	10°10'40	23°17'46	16°16'59	15°15'32	9°37'37	10°03'03	S 7
M 8	7 11 11	17°52'12	15°06'06	3°36'36	28°26'26	8°18'18	18°35'35	8°04'04	17°17'59	10°10'42	23°17'45	16°16'55	15°15'29	9°43'43	10°10'10	M 8
T 9	7 15 8	18°53'19	28°12'12	5°08'08	28°57'57	8°17'17	18°45'45	8°02'02	18°02'02	10°10'44	23°17'44	16°16'49	15°15'26	9°50'50	10°16'16	T 9
W10	7 19 4	19°54'27	11°11'20	6°38'38	29°27'27	8°16'16	18°56'56	7°55'55	18°06'06	10°10'47	23°17'43	16°16'40	15°15'23	9°57'57	10°22'22	W10
T 11	7 23 1	20°55'34	25°28'28	8°06'06	29°55'55	8°14'14	19°07'07	7°51'51	18°09'09	10°10'49	23°17'42	16°16'30	15°15'20	10°03'03	10°28'28	T 11
F 12	7 26 57	21°56'41	9°12'32	9°33'33	0°11'21	8°11'11	19°18'18	7°46'46	18°12'12	10°10'51	23°17'41	16°16'18	15°15'16	10°10'10	10°34'34	F 12
S 13	7 30 54	22°57'47	23°48'48	10°56'56	0°45'45	8°08'08	19°28'28	7°42'42	18°15'15	10°10'53	23°17'40	16°16'08	15°15'13	10°17'17	10°41'41	S 13
S 14	7 34 51	23°58'54	8°17'17	12°17'17	1°07'07	8°03'03	19°40'40	7°37'37	18°18'18	10°10'56	23°17'39	15°15'09	15°15'10	10°23'23	10°47'47	S 14
M15	7 38 47	25°00'00	22°30'30	13°33'33	1°28'28	7°58'58	19°51'51	7°32'32	18°22'22	10°10'58	23°17'38	15°15'02	15°15'07	10°30'30	10°53'53	M15
T 16	7 42 44	26°01'07	6°14'48	14°46'46	1°46'46	7°52'52	20°02'02	7°27'27	18°25'25	11°00'00	23°17'37	15°14'58	15°15'04	10°37'37	10°59'59	T 16
W17	7 46 40	27°02'13	20°58'58	15°53'53	2°03'03	7°46'46	20°13'13	7°23'23	18°28'28	11°00'02	23°17'36	15°14'47	15°15'01	10°43'43	11°05'05	W17
T 18	7 50 37	28°03'19	5°11'00	16°54'54	2°17'17	7°38'38	20°25'25	7°18'18	18°31'31	11°00'04	23°17'35	15°14'47	15°15'00	10°50'50	11°11'11	T 18
F 19	7 54 33	29°04'25	18°54'54	17°49'49	2°29'29	7°30'30	20°36'36	7°13'13	18°34'34	11°00'07	23°17'34	15°14'47	15°15'00	10°57'57	11°17'17	F 19
S 20	7 58 30	0°53'31	2°17'38	18°36'36	2°39'39	7°20'20	20°48'48	7°08'08	18°37'37	11°00'09	23°17'33	15°14'46	15°15'00	11°03'03	11°23'23	S 20
S 21	8 2 26	1°06'37	16°15'15	19°15'15	2°47'47	7°10'10	21°00'00	7°03'03	18°40'40	11°00'11	23°17'32	15°14'43	15°15'00	11°10'10	11°29'29	S 21
M22	8 6 23	2°07'42	29°42'42	19°45'45	2°53'53	6°59'59	21°12'12	6°58'58	18°43'43	11°00'13	23°17'31	15°14'36	15°15'00	11°17'17	11°35'35	M22
T 23	8 10 20	3°08'47	12°59'59	20°04'04	2°56'56	6°48'48	21°23'23	6°53'53	18°46'46	11°00'15	23°17'30	15°14'27	15°15'00	11°23'23	11°41'41	T 23
W24	8 14 16	4°09'52	26°04'04	20°13'13	2°56'56	6°35'35	21°35'35	6°48'48	18°48'48	11°00'17	23°17'29	15°14'15	15°15'00	11°30'30	11°47'47	W24
T 25	8 18 13	5°10'55	8°11'55	20°11'11	2°54'54	6°22'22	21°48'48	6°43'43	18°51'51	11°00'20	23°17'28	15°14'08	15°15'00	11°37'37	11°53'53	T 25
F 26	8 22 9	6°11'58	21°36'36	19°57'57	2°50'50	6°08'08	22°00'00	6°39'39	18°54'54	11°00'22	23°17'28	14°47'47	15°14'32	11°43'43	11°59'59	F 26
S 27	8 26 6	7°13'00	4°11'00	19°31'31	2°43'43	5°53'53	22°12'12	6°34'34	18°57'57	11°00'24	23°17'27	14°47'47	15°14'29	11°50'50	12°05'05	S 27
S 28	8 30 2	8°14'01	16°13'13	18°55'55	2°34'34	5°38'38	22°24'24	6°29'29	19°00'00	11°00'26	23°17'26	14°47'47	15°14'26	11°57'57	12°11'11	S 28
M29	8 33 59	9°15'01	28°13'13	18°08'08	2°22'22	5°22'22	22°37'37	6°24'24	19°02'02	11°00'28	23°17'25	14°47'47	15°14'22	12°03'03	12°17'17	M29
T 30	8 37 55	10°16'00	10°17'00	17°11'11	2°07'07	5°05'05	22°49'49	6°19'19	19°05'05	11°00'30	23°17'25	14°47'47	15°14'18	14°19'19	12°22'22	T 30
W31	8 41 52	11°16'58	21°17'58	16°08'08	1°11'51	4°17'51	23°17'52	6°14'14	19°08'08	11°00'32	23°17'24	14°47'47	15°14'16	12°27'27	12°28'28	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	22s59	7s45	4s17	23s41	2s10	13s46	0s20	11n39	3n20	6s 4	1s11	18n36	0n31	22s52	0s 1	22s 5
T 2	22 54	2 25	3 37	23 24	2 10	13 25	0 11	11 40	3 22	6 0	1 11	18 37	0 31	22 52	0 1	22 5
W 3	22 48	2n58	2 47	23 5	2 8	13 3	0 2	11 40	3 24	5 56	1 11	18 38	0 31	22 53	0 1	22 5
T 4	22 42	8 16	1 51	22 45	2 6	12 41	0n 7	11 41	3 27	5 52	1 10	18 40	0 31	22 53	0 1	22 5
F 5	22 36	13 20	0 49	22 23	2 4	12 20	0 17	11 42	3 29	5 48	1 10	18 41	0 31	22 53	0 1	22 5
S 6	22 29	17 58	0n16	22 0	2 1	11 58	0 27	11 43	3 31	5 43	1 10	18 42	0 31	22 53	0 1	22 4
S 7	22 22	21 57	1 21	21 35	1 57	11 37	0 37	11 45	3 33	5 39	1 10	18 43	0 31	22 54	0 1	22 4
M 8	22 14	24 59	2 24	21 9	1 53	11 16	0 48	11 47	3 35	5 35	1 10	18 45	0 32	22 54	0 1	22 4
T 9	22 5	26 46	3 21	20 42	1 47	10 55	0 58	11 49	3 38	5 31	1 10	18 46	0 32	22 54	0 1	22 4
W10	21 57	27 2	4 9	20 14	1 41	10 34	1 9	11 51	3 40	5 27	1 10	18 47	0 32	22 55	0 1	22 4
T 11	21 48	28 40	4 43	19 45	1 35	10 14	1 21	11 54	3 42	5 22	1 9	18 48	0 32	22 55	0 1	22 3
F 12	21 38	22 40	5 0	19 15	1 27	9 54	1 32	11 57	3 44	5 18	1 9	18 50	0 32	22 55	0 1	22 3
S 13	21 28	18 17	5 0	18 44	1 19	9 35	1 44	12 1	3 46	5 13	1 9	18 51	0 32	22 56	0 1	22 3
S 14	21 18	12 50	4 40	18 13	1 9	9 15	1 56	12 4	3 48	5 9	1 9	18 52	0 32	22 56	0 1	22 3
M15	21 7	6 42	4 3	17 41	0 59	8 56	2 9	12 8	3 51	5 4	1 9	18 54	0 32	22 56	0 1	22 3
T 16	20 56	0 14	3 11	17 9	0 48	8 38	2 21	12 12	3 53	5 0	1 9	18 55	0 33	22 56	0 1	22 3
W17	20 44	6s12	2 8	16 38	0 36	8 20	2 34	12 17	3 55	4 55	1 9	18 56	0 33	22 57	0 1	22 2
T 18	20 32	12 17	0 57	16 7	0 22	8 3	2 48	12 22	3 57	4 51	1 8	18 58	0 33	22 57	0 1	22 2
F 19	20 20	17 42	0s16	15 37	0 8	7 46	3 1	12 27	3 59	4 46	1 8	18 59	0 33	22 57	0 2	22 2
S 20	20 7	22 7	1 28	15 8	0n 7	7 29	3 15	12 32	4 1	4 41	1 8	19 0	0 33	22 58	0 2	22 2
S 21	19 54	25 16	2 34	14 40	0 23	7 14	3 29	12 37	4 3	4 37	1 8	19 2	0 33	22 58	0 2	22 2
M22	19 40	26 55	3 30	14 15	0 40	6 59	3 43	12 43	4 5	4 32	1 8	19 3	0 33	22 58	0 2	22 1
T 23	19 26	27 0	4 14	13 53	0 57	6 44	3 57	12 49	4 7	4 27	1 8	19 4	0 33	22 58	0 2	22 1
W24	19 12	28 34	4 44	13 33	1 15	6 31	4 11	12 56	4 8	4 22	1 8	19 6	0 33	22 59	0 2	22 1
T 25	18 57	22 48	4 58	13 17	1 33	6 18	4 26	13 2	4 10	4 17	1 8	19 7	0 34	22 59	0 2	22 1
F 26	18 43	18 59	4 58	13 4	1 51	6 6	4 40	13 9	4 12	4 12	1 7	19 8	0 34	22 59	0 2	22 1
S 27	18 27	14 25	4 43	12 55	2 9	5 55	4 55	13 16	4 14	4 7	1 7	19 10	0 34	22 59	0 2	22 1
S 28	18 12	9 21	4 16	12 50	2 26	5 44	5 9	13 24	4 15	4 2	1 7	19 11	0 34	23 0	0 2	22 0
M29	17 56	4 2	3 37	12 49	2 42	5 35	5 23	13 31	4 17	3 57	1 7	19 13	0 34	23 0	0 2	22 0
T 30	17 39	1n24	2 49	12 52	2 56	5 27	5 38	13 39	4 18	3 52	1 7	19 14	0 34	23 0	0 2	22 0
W31	17s23	6n45	1s55	12s59	3n 9	5s19	5n52	13n46	4n20	3s47	1s 7	19n15	0n34	23s 0	0s 2	22s 0

Julian Day Number = 2507427.5, Delta T = 123.74 sec  
 Ecliptic obliquity = 23°25'16", Nutation = - 0°00'12", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 26°52'42", Lahiri = 25°59'42"

# ASTRODIENST EPHEMERIS for the year 2153

## geocentric

FEBRUARY 2153

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 45 49	12 <sup>22</sup> 17'55	3 <sup>8</sup> 42	14 <sup>2</sup> R58	1 <sup>0</sup> R31	4 <sup>0</sup> R29	23 <sup>11</sup> 15	6 <sup>0</sup> R 9	19 <sup>27</sup> 10	11 <sup>23</sup> 34	23 <sup>0</sup> R23	14 <sup>0</sup> R 4	14 <sup>8</sup> 13	12 <sup>17</sup> 23	12 <sup>23</sup> 34	T 1
F 2	8 49 45	13 <sup>0</sup> 18'51	15 <sup>0</sup> 36	13 <sup>2</sup> 45	1 <sup>1</sup> 10	4 <sup>1</sup> 10	23 <sup>27</sup>	6 <sup>1</sup> 4	19 <sup>13</sup>	11 <sup>36</sup>	23 <sup>11</sup> 22	14 <sup>8</sup> 4	14 <sup>10</sup>	12 <sup>30</sup>	12 <sup>39</sup>	F 2
S 3	8 53 42	14 <sup>0</sup> 19'45	27 <sup>0</sup> 42	12 <sup>0</sup> 31	0 <sup>0</sup> 46	3 <sup>0</sup> 51	23 <sup>40</sup>	5 <sup>0</sup> 59	19 <sup>15</sup>	11 <sup>38</sup>	23 <sup>22</sup>	14 <sup>0</sup> 3	14 <sup>0</sup> 7	12 <sup>37</sup>	12 <sup>45</sup>	S 3
S 4	8 57 38	15 <sup>0</sup> 20'38	10 <sup>11</sup> 5	11 <sup>0</sup> 17	0 <sup>0</sup> 20	3 <sup>0</sup> 31	23 <sup>53</sup>	5 <sup>0</sup> 54	19 <sup>18</sup>	11 <sup>40</sup>	23 <sup>21</sup>	14 <sup>0</sup> 2	14 <sup>0</sup> 3	12 <sup>43</sup>	12 <sup>51</sup>	S 4
M 5	9 1 35	16 <sup>0</sup> 21'30	22 <sup>0</sup> 50	10 <sup>0</sup> 6	29 <sup>22</sup> 51	3 <sup>0</sup> 10	24 <sup>0</sup> 6	5 <sup>0</sup> 50	19 <sup>20</sup>	11 <sup>42</sup>	23 <sup>20</sup>	13 <sup>0</sup> 58	14 <sup>0</sup> 0	12 <sup>50</sup>	12 <sup>56</sup>	M 5
T 6	9 5 31	17 <sup>0</sup> 22'21	6 <sup>22</sup> 1	8 <sup>0</sup> 59	29 <sup>21</sup>	2 <sup>0</sup> 49	24 <sup>19</sup>	5 <sup>0</sup> 45	19 <sup>22</sup>	11 <sup>44</sup>	23 <sup>20</sup>	13 <sup>0</sup> 51	13 <sup>0</sup> 57	12 <sup>57</sup>	13 <sup>0</sup> 2	T 6
W 7	9 9 28	18 <sup>0</sup> 23'10	19 <sup>0</sup> 39	7 <sup>0</sup> 58	28 <sup>0</sup> 50	2 <sup>0</sup> 28	24 <sup>32</sup>	5 <sup>0</sup> 40	19 <sup>25</sup>	11 <sup>46</sup>	23 <sup>19</sup>	13 <sup>0</sup> 42	13 <sup>0</sup> 54	13 <sup>0</sup> 3	13 <sup>0</sup> 7	W 7
T 8	9 13 24	19 <sup>0</sup> 23'58	3 <sup>12</sup> 42	7 <sup>0</sup> 4	28 <sup>0</sup> 16	2 <sup>0</sup> 6	24 <sup>45</sup>	5 <sup>0</sup> 35	19 <sup>27</sup>	11 <sup>48</sup>	23 <sup>18</sup>	13 <sup>0</sup> 31	13 <sup>0</sup> 51	13 <sup>0</sup> 10	13 <sup>0</sup> 13	T 8
F 9	9 17 21	20 <sup>0</sup> 24'44	18 <sup>0</sup> 8	6 <sup>0</sup> 18	27 <sup>0</sup> 42	1 <sup>0</sup> 44	24 <sup>59</sup>	5 <sup>0</sup> 31	19 <sup>29</sup>	11 <sup>50</sup>	23 <sup>18</sup>	13 <sup>0</sup> 18	13 <sup>0</sup> 48	13 <sup>0</sup> 17	13 <sup>0</sup> 18	F 9
S 10	9 21 18	21 <sup>0</sup> 25'30	2 <sup>11</sup> 50	5 <sup>0</sup> 39	27 <sup>0</sup> 6	1 <sup>0</sup> 21	25 <sup>12</sup>	5 <sup>0</sup> 26	19 <sup>31</sup>	11 <sup>51</sup>	23 <sup>17</sup>	13 <sup>0</sup> 6	13 <sup>0</sup> 44	13 <sup>0</sup> 23	13 <sup>0</sup> 23	S 10
S 11	9 25 14	22 <sup>0</sup> 26'14	17 <sup>0</sup> 39	5 <sup>0</sup> 10	26 <sup>0</sup> 30	0 <sup>0</sup> 58	25 <sup>25</sup>	5 <sup>0</sup> 21	19 <sup>34</sup>	11 <sup>53</sup>	23 <sup>17</sup>	12 <sup>0</sup> 56	13 <sup>0</sup> 41	13 <sup>0</sup> 30	13 <sup>0</sup> 29	S 11
M 12	9 29 11	23 <sup>0</sup> 26'57	2 <sup>12</sup> 27	4 <sup>0</sup> 48	25 <sup>0</sup> 53	0 <sup>0</sup> 35	25 <sup>39</sup>	5 <sup>0</sup> 17	19 <sup>36</sup>	11 <sup>55</sup>	23 <sup>16</sup>	12 <sup>0</sup> 49	13 <sup>0</sup> 38	13 <sup>0</sup> 37	13 <sup>0</sup> 34	M 12
T 13	9 33 7	24 <sup>0</sup> 27'39	17 <sup>0</sup> 7	4 <sup>0</sup> 34	25 <sup>0</sup> 16	0 <sup>0</sup> 12	25 <sup>52</sup>	5 <sup>0</sup> 12	19 <sup>38</sup>	11 <sup>57</sup>	23 <sup>16</sup>	12 <sup>0</sup> 44	13 <sup>0</sup> 35	13 <sup>0</sup> 43	13 <sup>0</sup> 39	T 13
W 14	9 37 4	25 <sup>0</sup> 28'20	1 <sup>13</sup> 33	4 <sup>0</sup> D28	24 <sup>0</sup> 38	29 <sup>10</sup> 48	26 <sup>0</sup> 5	5 <sup>0</sup> 8	19 <sup>40</sup>	11 <sup>59</sup>	23 <sup>15</sup>	12 <sup>0</sup> 42	13 <sup>0</sup> 32	13 <sup>0</sup> 50	13 <sup>0</sup> 44	W 14
T 15	9 41 0	26 <sup>0</sup> 28'59	15 <sup>0</sup> 43	4 <sup>0</sup> 30	24 <sup>0</sup> 1	29 <sup>24</sup>	26 <sup>0</sup> 19	5 <sup>0</sup> 3	19 <sup>42</sup>	12 <sup>0</sup> 0	23 <sup>15</sup>	12 <sup>0</sup> D42	13 <sup>0</sup> 28	13 <sup>0</sup> 57	13 <sup>0</sup> 49	T 15
F 16	9 44 57	27 <sup>0</sup> 29'38	29 <sup>0</sup> 36	4 <sup>0</sup> 38	23 <sup>0</sup> 24	29 <sup>0</sup> 0	26 <sup>0</sup> 33	4 <sup>0</sup> 59	19 <sup>44</sup>	12 <sup>0</sup> 2	23 <sup>14</sup>	12 <sup>0</sup> R42	13 <sup>0</sup> 25	14 <sup>0</sup> 3	13 <sup>0</sup> 54	F 16
S 17	9 48 53	28 <sup>0</sup> 30'16	13 <sup>17</sup> 12	4 <sup>0</sup> 53	22 <sup>0</sup> 48	28 <sup>0</sup> 36	26 <sup>0</sup> 46	4 <sup>0</sup> 55	19 <sup>46</sup>	12 <sup>0</sup> 4	23 <sup>14</sup>	12 <sup>0</sup> 41	13 <sup>0</sup> 22	14 <sup>0</sup> 10	13 <sup>0</sup> 59	S 17
S 18	9 52 50	29 <sup>0</sup> 30'53	26 <sup>0</sup> 33	5 <sup>0</sup> 14	22 <sup>0</sup> 13	28 <sup>0</sup> 12	27 <sup>0</sup> 0	4 <sup>0</sup> 50	19 <sup>47</sup>	12 <sup>0</sup> 6	23 <sup>14</sup>	12 <sup>0</sup> 38	13 <sup>0</sup> 19	14 <sup>0</sup> 17	14 <sup>0</sup> 4	S 18
M 19	9 56 47	0 <sup>1</sup> 31'28	9 <sup>23</sup> 41	5 <sup>0</sup> 41	21 <sup>0</sup> 39	27 <sup>0</sup> 48	27 <sup>0</sup> 14	4 <sup>0</sup> 46	19 <sup>49</sup>	12 <sup>0</sup> 7	23 <sup>13</sup>	12 <sup>0</sup> 33	13 <sup>0</sup> 16	14 <sup>0</sup> 23	14 <sup>0</sup> 9	M 19
T 20	10 0 43	1 <sup>0</sup> 32'02	22 <sup>0</sup> 37	6 <sup>0</sup> 12	21 <sup>0</sup> 7	27 <sup>0</sup> 24	27 <sup>0</sup> 28	4 <sup>0</sup> 42	19 <sup>51</sup>	12 <sup>0</sup> 9	23 <sup>13</sup>	12 <sup>0</sup> 24	13 <sup>0</sup> 13	14 <sup>0</sup> 30	14 <sup>0</sup> 14	T 20
W 21	10 4 40	2 <sup>0</sup> 32'35	5 <sup>22</sup> 21	6 <sup>0</sup> 48	20 <sup>0</sup> 36	27 <sup>0</sup> 1	27 <sup>0</sup> 41	4 <sup>0</sup> 38	19 <sup>53</sup>	12 <sup>0</sup> 11	23 <sup>13</sup>	12 <sup>0</sup> 13	13 <sup>0</sup> 9	14 <sup>0</sup> 37	14 <sup>0</sup> 19	W 21
T 22	10 8 36	3 <sup>0</sup> 33'06	17 <sup>0</sup> 55	7 <sup>0</sup> 29	20 <sup>0</sup> 7	26 <sup>0</sup> 37	27 <sup>0</sup> 55	4 <sup>0</sup> 34	19 <sup>54</sup>	12 <sup>0</sup> 12	23 <sup>12</sup>	12 <sup>0</sup> 1	13 <sup>0</sup> 6	14 <sup>0</sup> 43	14 <sup>0</sup> 23	T 22
F 23	10 12 33	4 <sup>0</sup> 33'36	0 <sup>1</sup> 18	8 <sup>0</sup> 14	19 <sup>0</sup> 39	26 <sup>0</sup> 14	28 <sup>0</sup> 9	4 <sup>0</sup> 30	19 <sup>56</sup>	12 <sup>0</sup> 14	23 <sup>12</sup>	11 <sup>0</sup> 48	13 <sup>0</sup> 3	14 <sup>0</sup> 50	14 <sup>0</sup> 28	F 23
S 24	10 16 29	5 <sup>0</sup> 34'05	12 <sup>0</sup> 30	9 <sup>0</sup> 2	19 <sup>0</sup> 14	25 <sup>0</sup> 51	28 <sup>0</sup> 23	4 <sup>0</sup> 26	19 <sup>57</sup>	12 <sup>0</sup> 15	23 <sup>12</sup>	11 <sup>0</sup> 35	13 <sup>0</sup> 0	14 <sup>0</sup> 57	14 <sup>0</sup> 33	S 24
S 25	10 20 26	6 <sup>0</sup> 34'31	24 <sup>0</sup> 34	9 <sup>0</sup> 54	18 <sup>0</sup> 51	25 <sup>0</sup> 28	28 <sup>0</sup> 37	4 <sup>0</sup> 22	19 <sup>59</sup>	12 <sup>0</sup> 17	23 <sup>11</sup>	11 <sup>0</sup> 25	12 <sup>0</sup> 57	15 <sup>0</sup> 3	14 <sup>0</sup> 37	S 25
M 26	10 24 22	7 <sup>0</sup> 34'56	6 <sup>17</sup> 29	10 <sup>0</sup> 49	18 <sup>0</sup> 30	25 <sup>0</sup> 6	28 <sup>0</sup> 51	4 <sup>0</sup> 19	20 <sup>0</sup> 0	12 <sup>0</sup> 18	23 <sup>11</sup>	11 <sup>0</sup> 17	12 <sup>0</sup> 54	15 <sup>0</sup> 10	14 <sup>0</sup> 42	M 26
T 27	10 28 19	8 <sup>0</sup> 35'19	18 <sup>0</sup> 18	11 <sup>0</sup> 47	18 <sup>0</sup> 12	24 <sup>0</sup> 44	29 <sup>0</sup> 5	4 <sup>0</sup> 15	20 <sup>0</sup> 2	12 <sup>0</sup> 20	23 <sup>11</sup>	11 <sup>0</sup> 11	12 <sup>0</sup> 50	15 <sup>0</sup> 17	14 <sup>0</sup> 46	T 27
W 28	10 32 16	9 <sup>1</sup> 35'40	0 <sup>18</sup> 5	12 <sup>2</sup> 48	17 <sup>2</sup> 56	24 <sup>12</sup> 22	29 <sup>1</sup> 19	4 <sup>1</sup> 11	20 <sup>2</sup> 3	12 <sup>2</sup> 21	23 <sup>11</sup>	11 <sup>1</sup> 8	12 <sup>2</sup> 47	15 <sup>2</sup> 23	14 <sup>2</sup> 50	W 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s 6	11n53	0s55	13s 9	3n20	5s13	6n 6	13n54	4n21	3s42	1s 7	19n16	0n34	23s 0	0s 2	22s 0	0n56	14n54	8s22	16n 3	16n 6	2n23	16s48	6n 4			
F 2	16 49	16 38	0n 8	13 22	3 28	5 8	6 20	14 3	4 22	3 37	1 7	19 18	0 34	23 1	0 2	21 59	0 56	14 54	8 22	16 3	16 5	2 27	16 47	6 4			
S 3	16 31	20 48	1 12	13 37	3 34	5 4	6 33	14 11	4 24	3 32	1 7	19 19	0 34	23 1	0 2	21 59	0 56	14 54	8 22	16 3	16 4	2 30	16 46	6			
S 4	16 13	24 8	2 13	13 54	3 37	5 1	6 46	14 19	4 25	3 27	1 6	19 20	0 35	23 1	0 2	21 59	0 56	14 54	8 22	16 2	16 3	2 33	16 45	6 5			
M 5	15 55	26 23	3 10	14 12	3 38	4 59	6 58	14 28	4 26	3 21	1 6	19 22	0 35	23 1	0 2	21 59	0 56	14 54	8 21	16 1	16 2	2 36	16 44	6 5			
T 6	15 37	27 15	3 58	14 31	3 37	4 58	7 10	14 36	4 27	3 16	1 6	19 23	0 35	23 1	0 2	21 59	0 56	14 55	8 21	15 59	16 1	2 40	16 43	6 5			
W 7	15 18	26 31	4 35	14 49	3 33	4 58	7 21	14 45	4 27	3 11	1 6	19 24	0 35	23 2	0 2	21 59	0 56	14 55	8 21	15 56	16 0	2 43	16 43	6 6			
T 8	14 59	24 6	4 56	15 8	3 28	4 59	7 32	14 53	4 28	3 6	1 6	19 25	0 35	23 2	0 2	21 58	0 56	14 55	8 21	15 53	15 59	2 46	16 42	6 6			
F 9	14 40	20 7	4 59	15 26	3 21	5 1	7 42	15 2	4 29	3 0	1 6	19 27	0 35	23 2	0 2	21 58	0 56	14 55	8 21	15 49	15 58	2 50	16 41	6 6			
S 10	14 21	14 51	4 43	15 44	3 12	5 5	7 51	15 11	4 29	2 55	1 6	19 28	0 35	23 2	0 2	21 58	0 56	14 55	8 20	15 46	15 57	2 53	16 40	6 7			
S 11	14 1	8 41	4 8	16 0	3 3	5 9	7 59	15 19	4 30	2 50	1 6	19 29	0 35	23 2	0 2	21 58	0 56	14 56	8 20	15 43	15 56	2 56	16 39	6 7			
M 12	13 42	2 1	3 16	16 16	2 52	5 14	8 7	15 28	4 30	2 44	1 6	19 30	0 35	23 3	0 2	21 58	0 56	14 56	8 20	15 40	15 55	2 59	16 38	6 7			
T 13	13 22	4s42	2 11	16 30	2 41	5 20	8 13	15 37	4 30	2 39	1 6	19 31	0 35	23 3	0 2	21 58	0 56	14 56	8 20	15 39	15 54	3 3	16 37	6 8			
W 14	13 1	11 5	0 59	16 43	2 29	5 27	8 19	15 45	4 31	2 33	1 6	19 33	0 35	23 3	0 2	21 57	0 56	14 56	8 20	15 38	15 53	3 6	16 36	6 8			
T 15	12 41	16 47	0s16	16 54	2 17	5 34	8 23	15 54	4 31	2 28	1 6	19 34	0 35	23 3	0 2	21 57	0 56	14 56	8 19	15 38	15 52	3 9	16 36	6 9			
F 16	12 20	21 29	1 28	17 4	2 5	5 43	8 27	16 2	4 30	2 22	1 5	19 35	0 36	23 3	0 2	21 57	0 56	14 56	8 19	15 38	15 51	3 13	16 35	6 9			
S 17	11 59	24 55	2 34	17 12	1 53	5 52	8 30	16 10	4 30	2 17	1 5	19 36	0 36	23 3	0 2	21 57	0 56	14 57	8 19	15 38	15 50	3 16	16 34	6 9			
S 18	11 38	26 53	3 30	17 19	1 40	6 1	8 31	16 18	4 30	2 11	1 5	19 37	0 36	23 4	0 2	21 57	0 56	14 57	8 19	15 37	15 49	3 19	16 33	6 10			
M 19	11 17	27 17	4 14	17 25	1 28	6 11	8 32	16 26	4 30	2 6	1 5	19 38	0 36	23 4	0 2	21 57	0 56	14 57	8 18	15 35	15 48	3 22	16 32	6 10			
T 20	10 55	26 12	4 44	17 29	1 16	6 21	8 32	16 34	4 29	2 0	1 5	19 39	0 36	23 4	0 2	21 56	0 56	14 57	8 18	15 33	15 48	3 26	16 31	6 11			
W 21	10 34	23 45	5 0	17 32	1 4	6 31	8 31	16 42	4 28	1 55	1 5	19 40	0 36	23 4	0 2	21 56	0 56	14 57	8 18	15 30	15 47	3 29	16 30	6 11			
T 22	10 12	20 12	5 0	17 33	0 52	6 42	8 29	16 49	4 28	1 49	1 5	19 41	0 36	23 4	0 2	21 56	0 56	14 58	8 18	15 26	15 46	3 32	16 29	6 12			
F 23	9 50	15 49	4 46	17 33	0 41	6 53	8 26	16 57	4 27	1 44	1 5	19 42	0 36	23 4	0 2	21 56	0 56	14 58	8 18	15 22	15 45	3 35	16 28	6 12			
S 24	9 28	10 51	4 20	17 31	0 29	7 4	8 23	17 4	4 26	1 38	1 5	19 43	0 36	23 4	0 2	21 56	0 56	14 58	8 17	15 18	15 44	3 39	16 27	6 12			
S 25	9 6	5 33	3 41	17 28	0 18	7 15	8 19	17 10	4 25	1 32	1 5	19 44	0 36	23 5	0 2	21 56	0 56	14 58	8 17	15 15	15 43	3 42	16 26	6 13			
M 26	8 43	0 5	2 54	17 23	0 8	7 26	8 14	17 17	4 24	1 27	1 5	19 45	0 36	23 5	0 2	21 55	0 56	14 58	8 17	15 12	15 42	3 45	16 25	6 13			
T 27	8 21	5n20	1 59	17 17	0s 3	7 37	8 8	17 23	4 22	1 21	1 5	19 46	0 36	23 5	0 2	21 55	0 56	14 59	8 17	15 10	15 41	3 49	16 25	6 14			
W 28	7s58	10n34	0s59	17s10	0s13	7s47	8n 2	17n29	4n21	1s16	1s 5	19n47	0n36	23s 5	0s 2	21s55	0n56	14n59	8s16	15n10	15n40	3n52	16s24	6n14			

## ASTRODIENST EPHEMERIS for the year 2153

**MARCH 2153**

00:00 UT

Day	Sid.t	☉	☽	♈	♀	♊	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	Day
T 1	10 36 12	10 <del>✕</del> 36°00	11 <del>♁</del> 52	13 <del>≈</del> 51	17°R42	24°R 1	29 <del>✕</del> 34	4°R 8	20 <del>♁</del> 4	12 <del>♁</del> 23	23°R11	11°D 8	12 <del>♁</del> 44	15 <del>♁</del> 30	14 <del>♁</del> 55	T 1	
F 2	10 40 9	11°36'17	23°45	14°56	17 <del>≈</del> 31	23 <del>♁</del> 41	29°48	4 <del>♁</del> 4	20° 6	12°24	23 <del>II</del> 11	11 <del>♁</del> 8	12°41	15°37	14°59	F 2	
S 3	10 44 5	12°36'33	5 <del>II</del> 49	16° 4	17°22	23°21	0 <del>♁</del> 2	4° 1	20° 7	12°25	23°10	11° 9	12°38	15°43	15° 3	S 3	
S 4	10 48 2	13°36'46	18° 9	17°14	17°16	23° 1	0°16	3°58	20° 8	12°27	23°10	11°R 9	12°34	15°50	15° 7	S 4	
M 5	10 51 58	14°36'58	0 <del>♁</del> 50	18°26	17°12	22°42	0°31	3°55	20° 9	12°28	23°10	11° 8	12°31	15°57	15°11	M 5	
T 6	10 55 55	15°37'07	13°57	19°40	17°D10	22°24	0°45	3°52	20°10	12°29	23°10	11° 4	12°28	16° 3	15°15	T 6	
W 7	10 59 51	16°37'15	27°33	20°55	17°11	22° 7	0°59	3°49	20°11	12°31	23°D10	10°58	12°25	16°10	15°19	W 7	
T 8	11 3 48	17°37'20	11 <del>♁</del> 37	22°12	17°15	21°50	1°13	3°46	20°12	12°32	23°10	10°51	12°22	16°17	15°23	T 8	
F 9	11 7 45	18°37'23	26° 9	23°31	17°20	21°34	1°28	3°43	20°13	12°33	23°10	10°42	12°19	16°23	15°27	F 9	
S 10	11 11 41	19°37'25	11 <del>♁</del> 2	24°51	17°28	21°18	1°42	3°40	20°14	12°34	23°10	10°34	12°15	16°30	15°31	S 10	
S 11	11 15 38	20°37'24	26° 8	26°13	17°38	21° 3	1°57	3°38	20°14	12°35	23°10	10°27	12°12	16°37	15°34	S 11	
M12	11 19 34	21°37'21	11 <del>♁</del> 17	27°36	17°51	20°49	2°11	3°35	20°15	12°36	23°11	10°22	12° 9	16°43	15°38	M12	
T 13	11 23 31	22°37'17	26°20	29° 1	18° 5	20°36	2°25	3°33	20°16	12°37	23°11	10°19	12° 6	16°50	15°41	T 13	
W14	11 27 27	23°37'11	11 <del>♁</del> 7	0 <del>♁</del> 27	18°22	20°23	2°40	3°31	20°16	12°38	23°11	10°D18	12° 3	16°57	15°45	W14	
T 15	11 31 24	24°37'03	25°35	1°55	18°40	20°11	2°54	3°29	20°17	12°39	23°11	10°19	12° 0	17° 3	15°48	T 15	
F 16	11 35 20	25°36'54	9 <del>♁</del> 40	3°23	19° 1	20° 0	3° 9	3°26	20°17	12°40	23°11	10°20	11°56	17°10	15°51	F 16	
S 17	11 39 17	26°36'43	23°21	4°53	19°23	19°50	3°23	3°24	20°18	12°41	23°11	10°R21	11°53	17°17	15°55	S 17	
S 18	11 43 14	27°36'31	6 <del>♁</del> 41	6°25	19°47	19°41	3°38	3°23	20°18	12°42	23°12	10°21	11°50	17°23	15°58	S 18	
M19	11 47 10	28°36'17	19°42	7°57	20°13	19°32	3°52	3°21	20°19	12°43	23°12	10°19	11°47	17°30	16° 1	M19	
T20	11 51 7	29°36'01	2 <del>≈</del> 26	9°31	20°40	19°24	4° 7	3°19	20°19	12°44	23°12	10°14	11°44	17°37	16° 4	T 20	
W21	11 55 3	0 <del>♁</del> 35°43	14°56	11° 6	21° 9	19°17	4°21	3°18	20°19	12°45	23°12	10° 9	11°40	17°43	16° 7	W21	
T 22	11 59 0	1°35'24	27°14	12°43	21°40	19°10	4°36	3°16	20°19	12°46	23°13	10° 2	11°37	17°50	16°10	T 22	
F 23	12 2 56	2°35'02	9 <del>♁</del> 22	14°20	22°12	19° 5	4°50	3°15	20°20	12°46	23°13	9°55	11°34	17°57	16°12	F 23	
S 24	12 6 53	3°34'39	21°23	15°59	22°45	19° 0	5° 5	3°13	20°20	12°47	23°13	9°48	11°31	18° 3	16°15	S 24	
S 25	12 10 49	4°34'14	3 <del>♁</del> 18	17°39	23°20	18°56	5°20	3°12	20°R20	12°48	23°14	9°42	11°28	18°10	16°18	S 25	
M26	12 14 46	5°33'46	15° 8	19°21	23°56	18°53	5°34	3°11	20°20	12°48	23°14	9°38	11°25	18°16	16°20	M26	
T 27	12 18 42	6°33'17	26°55	21° 4	24°33	18°50	5°49	3°10	20°20	12°49	23°15	9°35	11°21	18°23	16°22	T 27	
W28	12 22 39	7°32'46	8 <del>♁</del> 42	22°48	25°12	18°49	6° 3	3°10	20°19	12°50	23°15	9°D34	11°18	18°30	16°25	W28	
T 29	12 26 36	8°32'12	20°32	24°33	25°52	18°48	6°18	3° 9	20°19	12°50	23°16	9°35	11°15	18°36	16°27	T 29	
F 30	12 30 32	9°31'36	2 <del>II</del> 28	26°20	26°32	18°D47	6°32	3° 8	20°19	12°51	23°16	9°36	11°12	18°43	16°29	F 30	
S 31	12 34 29	10 <del>♁</del> 30°58	14 <del>II</del> 34	28 <del>✕</del> 8	27 <del>≈</del> 14	18 <del>♁</del> 48	6 <del>♁</del> 47	3 <del>♁</del> 8	20 <del>♁</del> 19	12 <del>♁</del> 51	23 <del>II</del> 17	9 <del>♁</del> 38	11 <del>♁</del> 9	18 <del>♁</del> 50	16 <del>♁</del> 31	S 31	

Day	☾	☾			♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat
T 1	7s35	15n27	0n 4	17s 1	0s22	7s58	7n55	17n35	4n20	1s10	1s 5	19n48	0n36	23s 5	0s 2	21s55	0n56	14n59	8s16	15n 9	15n39	3n55	16s23	6n15			
F 2	7 12	19 47	1 7	16 51	0 31	8 8	7 48	17 41	4 18	1 4	1 5	19 49	0 37	23 5	0 2	21 55	0 56	14 59	8 16	15 9	15 38	3 58	16 22	6 15			
S 3	6 49	23 22	2 8	16 39	0 40	8 18	7 40	17 46	4 17	0 59	1 5	19 50	0 37	23 5	0 2	21 55	0 56	15 0	8 16	15 10	15 37	4 2	16 21	6 16			
S 4	6 26	25 58	3 5	16 26	0 49	8 28	7 32	17 51	4 15	0 53	1 5	19 51	0 37	23 5	0 2	21 55	0 56	15 0	8 16	15 10	15 36	4 5	16 20	6 16			
M 5	6 3	27 19	3 54	16 12	0 57	8 37	7 24	17 55	4 13	0 47	1 5	19 51	0 37	23 5	0 2	21 54	0 56	15 0	8 15	15 9	15 35	4 8	16 19	6 17			
T 6	5 40	27 13	4 33	15 56	1 5	8 46	7 15	18 0	4 12	0 41	1 5	19 52	0 37	23 5	0 2	21 54	0 56	15 0	8 15	15 8	15 34	4 12	16 18	6 17			
W 7	5 17	25 30	4 58	15 39	1 12	8 54	7 6	18 4	4 10	0 36	1 5	19 53	0 37	23 6	0 2	21 54	0 56	15 0	8 15	15 6	15 33	4 15	16 17	6 18			
T 8	4 53	22 11	5 6	15 21	1 19	9 2	6 56	18 8	4 8	0 30	1 4	19 54	0 37	23 6	0 2	21 54	0 56	15 1	8 15	15 4	15 32	4 18	16 16	6 18			
F 9	4 30	17 25	4 55	15 2	1 26	9 9	6 47	18 11	4 6	0 24	1 4	19 54	0 37	23 6	0 2	21 54	0 56	15 1	8 14	15 1	15 31	4 21	16 15	6 19			
S 10	4 6	11 30	4 25	14 41	1 32	9 16	6 37	18 14	4 4	0 18	1 4	19 55	0 37	23 6	0 2	21 54	0 56	15 1	8 14	14 59	15 30	4 25	16 14	6 20			
S 11	3 43	4 49	3 35	14 19	1 38	9 23	6 27	18 17	4 2	0 13	1 4	19 56	0 37	23 6	0 2	21 54	0 56	15 1	8 14	14 57	15 29	4 28	16 13	6 20			
M12	3 19	2s10	2 30	13 55	1 44	9 29	6 17	18 20	4 0	0 7	1 4	19 56	0 37	23 6	0 2	21 54	0 56	15 2	8 14	14 55	15 28	4 31	16 12	6 21			
T 13	2 56	9 0	1 15	13 31	1 49	9 34	6 7	18 22	3 57	0 1	1 4	19 57	0 37	23 6	0 2	21 53	0 56	15 2	8 14	14 54	15 27	4 35	16 11	6 21			
W14	2 32	15 13	0s 4	13 5	1 54	9 39	5 57	18 24	3 55	0n 4	1 4	19 57	0 37	23 6	0 2	21 53	0 56	15 2	8 13	14 54	15 26	4 38	16 10	6 22			
T 15	2 8	20 28	1 22	12 38	1 58	9 43	5 47	18 25	3 53	0 10	1 4	19 58	0 37	23 6	0 2	21 53	0 56	15 2	8 13	14 54	15 25	4 41	16 9	6 22			
F 16	1 45	24 23	2 32	12 9	2 2	9 46	5 37	18 27	3 51	0 16	1 4	19 58	0 37	23 6	0 2	21 53	0 56	15 3	8 13	14 55	15 24	4 44	16 9	6 23			
S 17	1 21	26 47	3 32	11 39	2 6	9 49	5 27	18 28	3 48	0 22	1 4	19 59	0 37	23 6	0 2	21 53	0 56	15 3	8 13	14 55	15 23	4 48	16 8	6 23			
S 18	0 57	27 33	4 18	11 9	2 9	9 52	5 16	18 29	3 46	0 28	1 4	19 59	0 37	23 6	0 2	21 53	0 56	15 3	8 12	14 55	15 22	4 51	16 7	6 24			
M19	0 33	26 46	4 50	10 37	2 11	9 53	5 6	18 29	3 44	0 33	1 4	20 0	0 37	23 6	0 2	21 53	0 56	15 3	8 12	14 54	15 21	4 54	16 6	6 25			
T20	0 10	24 35	5 7	10 3	2 14	9 55	4 56	18 30	3 41	0 39	1 4	20 0	0 37	23 6	0 2	21 53	0 56	15 4	8 12	14 53	15 20	4 57	16 5	6 25			
W21	0n14	21 16	5 9	9 29	2 15	9 55	4 46	18 30	3 39	0 45	1 4	20 1	0 37	23 6	0 2	21 53	0 56	15 4	8 12	14 51	15 19	5 1	16 4	6 26			
T 22	0 38	17 3	4 56	8 53	2 17	9 55	4 36	18 29	3 37	0 51	1 4	20 1	0 37	23 6	0 2	21 52	0 56	15 4	8 11	14 49	15 19	5 4	16 3	6 26			
F 23	1 2	12 13	4 30	8 17	2 18	9 54	4 26	18 29	3 34	0 56	1 4	20 1	0 37	23 6	0 2	21 52	0 56	15 4	8 11	14 47	15 18	5 7	16 2	6 27			
S 24	1 25	6 59	3 53	7 39	2 18	9 53	4 16	18 28	3 32	1 2	1 4	20 2	0 38	23 6	0 2	21 52	0 56	15 4	8 11	14 44	15 17	5 11	16 1	6 27			
S 25	1 49	1 31	3 5	7 0	2 18	9 51	4 6	18 27	3 29	1 8	1 4	20 2	0 38	23 6	0 2	21 52	0 56	15 5	8 11	14 43	15 16	5 14	16 0	6 28			
M26	2 12	3n58	2 10	6 19	2 18	9 49	3 56	18 26	3 27	1 14	1 4	20 2	0 38	23 6	0 2	21 52	0 56	15 5	8 11	14 41	15 15	5 17	15 59	6 29			
T 27	2 36	9 18	1 9	5 38	2 17	9 46	3 47	18 24	3 25	1 19	1 4	20 3	0 38	23 6	0 2	21 52	0 56	15 5	8 10	14 40	15 14	5 20	15 59	6 29			
W28	3 0	14 19	0 5	4 56	2 15	9 42	3 37	18 23	3 22	1 25	1 4	20 3	0 38	23 6	0 2	21 52	0 57	15 5	8 10	14 40	15 13	5 24	15 58	6 30			
T 29	3 23	18 50	1n 0	4 12	2 14	9 38	3 28	18 21	3 20	1 31	1 4	20 3	0 38	23 6	0 2	21 52	0 57	15 6	8 10	14 40	15 12	5 27	15 57	6 31			
F 30	3 46	22 38	2 2	3 28	2 11	9 33	3 18	18 18	3 17	1 37	1 4	20 3	0 38	23 6	0 2	21 52	0 57	15 6	8 10	14 41	15 11	5 30	15 56	6 31			
S 31	4n10	25n31	3n 0	2s42	2s 8	9s28	3n 9	18n16	3n15	1n42	1s 4	20n 3	0n38	23s 6	0s 2	21s52	0n57	15n 6	8s 9	14n41	15n10	5n34	15s55	6n32			

Julian Day Number = 2507486.5, Delta T = 123.86 sec

Ecliptic obliquity =  $23^{\circ}25'17$ . Nutation =  $-0^{\circ}00'11$ , out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°52'50, Lahiri = 25°59'50

# ASTRODIENST EPHEMERIS for the year 2153

## geocentric

APRIL 2153

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 38 25	11°30'18	26°11'54	29°57'57	27°58'57	18°01'49	7°11'01	3°R 7	20°R18	12°52'52	23°11'17	9°8'40	11°8'5	18°17'56	16°38'33	S 1
M 2	12 42 22	12°29'36	9°58'32	1°17'48	28°41'18	18°51'18	7°16'30	3°D 7	20°18'18	12°52'52	23°18'18	9°R40	11°2'2	19°3'3	16°35'16	M 2
T 3	12 46 18	13°28'51	22°33'13	3°40'29	29°26'18	18°54'18	7°30'45	3°7	20°17'17	12°52'52	23°18'18	9°40'39	10°59'19	19°10'10	16°37'16	T 3
W 4	12 50 15	14°28'04	6°01'11	5°34'00	0°11'11	18°57'18	7°45'30	3°D 7	20°17'17	12°52'52	23°19'19	9°39'39	10°56'19	19°16'16	16°39'16	W 4
T 5	12 54 11	15°27'15	19°57'29	7°29'00	0°58'19	19°1'7	7°59'30	3°7	20°16'16	12°52'52	23°19'19	9°36'36	10°53'19	19°23'23	16°41'16	T 5
F 6	12 58 8	16°26'23	4°17'20	9°25'14	1°45'19	19°6'6	8°14'30	3°7	20°16'16	12°52'52	23°20'20	9°33'33	10°50'19	19°30'30	16°42'16	F 6
S 7	13 2 5	17°25'29	19°7'7	11°22'23	2°34'19	19°12'12	8°28'30	3°8	20°15'15	12°52'52	23°21'21	9°30'30	10°46'19	19°36'36	16°44'16	S 7
S 8	13 6 1	18°24'32	4°13'13	13°21'13	3°23'19	19°18'18	8°43'30	3°8	20°15'15	12°52'52	23°21'21	9°27'27	10°43'19	19°43'43	16°45'16	S 8
M 9	13 9 58	19°23'34	19°27'15	15°21'41	4°12'19	19°24'24	8°57'30	3°8	20°14'14	12°52'52	23°22'22	9°26'26	10°40'19	19°50'50	16°47'16	M 9
T 10	13 13 54	20°22'34	4°17'40	17°23'50	5°3'19	19°32'32	9°11'30	3°9	20°13'13	12°52'52	23°23'23	9°D25	10°37'19	19°56'56	16°48'16	T 10
W11	13 17 51	21°21'31	19°42'19	19°25'55	5°54'19	19°40'40	9°26'30	3°10	20°12'12	12°52'52	23°23'23	9°25'25	10°34'19	20°3'3	16°49'16	W11
T 12	13 21 47	22°20'27	4°17'26	21°29'6	6°46'19	19°48'48	9°40'30	3°11	20°11'11	12°52'52	23°24'24	9°26'26	10°31'19	20°10'10	16°50'16	T 12
F 13	13 25 44	23°19'21	18°46'23	23°33'7	7°38'19	19°57'57	9°54'30	3°12	20°10'10	12°52'52	23°25'25	9°27'27	10°27'19	20°16'16	16°51'16	F 13
S 14	13 29 40	24°18'14	2°34'00	25°38'8	8°31'20	20°7'7	10°9'9	3°13	20°9'9	12°R55	23°26'26	9°28'28	10°24'19	20°23'23	16°52'16	S 14
S 15	13 33 37	25°17'05	16°7'7	27°44'9	9°25'20	20°17'17	10°23'23	3°14	20°8'8	12°55'55	23°27'27	9°29'29	10°21'19	20°30'30	16°53'16	S 15
M16	13 37 34	26°15'54	29°11'29	29°50'10	10°19'20	20°28'28	10°37'37	3°15	20°7'7	12°55'55	23°27'27	9°R29	10°18'19	20°36'36	16°54'16	M16
T 17	13 41 30	27°14'41	11°53'18	11°14'20	11°14'20	20°40'40	10°51'51	3°16	20°6'6	12°54'54	23°28'28	9°29'29	10°15'19	20°43'43	16°54'16	T 17
W18	13 45 27	28°13'27	24°17'40	4°3'12	12°9'9	20°51'51	11°6'6	3°18	20°5'5	12°54'54	23°29'29	9°28'28	10°11'19	20°50'50	16°55'16	W18
T 19	13 49 23	29°12'10	6°17'27	6°9'13	13°5'21	21°4'4	11°20'20	3°19	20°4'4	12°54'54	23°30'30	9°26'26	10°8'19	20°56'56	16°56'16	T 19
F 20	13 53 20	0°10'52	18°27'8	8°15'14	14°1'21	21°17'17	11°34'34	3°21	20°2'2	12°54'54	23°31'31	9°25'25	10°5'19	21°3'3	16°56'16	F 20
S 21	13 57 16	1°9'33	0°17'20	10°19'14	14°58'21	21°30'30	11°48'48	3°23	20°1'1	12°54'54	23°32'32	9°24'24	10°2'19	21°10'10	16°56'16	S 21
S 22	14 1 13	2°8'11	12°9'9	12°23'15	15°55'21	21°44'44	12°2'2	3°25	20°0'0	12°54'54	23°33'33	9°23'23	9°59'59	21°16'16	16°57'16	S 22
M23	14 5 9	3°6'48	23°56'14	14°24'16	16°53'21	21°59'59	12°16'16	3°27	19°58'58	12°53'53	23°34'34	9°22'22	9°56'56	21°23'23	16°57'16	M23
T 24	14 9 6	4°5'22	5°14'16	16°24'17	17°51'22	22°14'14	12°30'30	3°29	19°57'57	12°53'53	23°35'35	9°D22	9°52'52	21°29'29	16°R57	T 24
W25	14 13 3	5°3'55	17°36'18	18°22'18	18°50'22	22°29'29	12°44'44	3°31	19°55'55	12°53'53	23°36'36	9°22'22	9°49'49	21°36'36	16°57'16	W25
T 26	14 16 59	6°2'26	29°32'20	17°19'49	22°45'12	22°58'58	12°58'58	3°34	19°54'54	12°52'52	23°37'37	9°22'22	9°46'46	21°43'43	16°57'16	T 26
F 27	14 20 56	7°0'55	11°11'36	22°9'20	20°48'23	23°1'1	13°12'12	3°36	19°52'52	12°52'52	23°38'38	9°22'22	9°43'43	21°49'49	16°56'16	F 27
S 28	14 24 52	7°59'22	23°50'23	23°58'21	21°47'23	23°18'18	13°26'26	3°39	19°51'51	12°52'52	23°39'39	9°23'23	9°40'40	21°56'56	16°56'16	S 28
S 29	14 28 49	8°57'48	6°17'25	25°44'22	22°47'23	23°35'35	13°40'40	3°41	19°49'49	12°51'51	23°40'40	9°R23	9°37'37	22°3'3	16°56'16	S 29
M30	14 32 45	9°56'11	19°50'0	27°26'23	23°48'23	23°53'53	13°54'54	3°44	19°48'48	12°51'51	23°41'41	9°R23	9°33'33	22°17'17	16°55'16	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	4n33	27n14	3n51	1s56	2s 5	9s22	3n 0	18n13	3n13	1n48	1s 4	20n 3	0n38	23s 6	0s 2	21s52	0n57	15n 6	8s 9	14n42	15n 9	5n37	15s54	6n32	
M 2	4 56	27 36	4 32	1 8	2 1	9 15	2 51	18 10	3 10	1 54	1 4	20 4	0 38	23 6	0 2	21 52	0 57	15 7	8 9	14 42	15 8	5 40	15 53	6 33	
T 3	5 19	26 29	5 1	0 20	1 57	9 8	2 42	18 7	3 8	1 59	1 4	20 4	0 38	23 6	0 2	21 52	0 57	15 7	8 9	14 42	15 7	5 43	15 53	6 34	
W 4	5 42	23 49	5 14	0n30	1 52	9 1	2 33	18 4	3 5	2 5	1 4	20 4	0 38	23 6	0 2	21 51	0 57	15 7	8 9	14 41	15 6	5 47	15 52	6 34	
T 5	6 5	19 43	5 10	1 20	1 47	8 52	2 24	18 0	3 3	2 11	1 4	20 4	0 38	23 6	0 2	21 51	0 57	15 7	8 8	14 41	15 5	5 50	15 51	6 35	
F 6	6 28	14 21	4 46	2 11	1 41	8 44	2 16	17 57	3 1	2 16	1 5	20 4	0 38	23 6	0 2	21 51	0 57	15 8	8 8	14 40	15 4	5 53	15 50	6 36	
S 7	6 50	8 1	4 3	3 3	1 34	8 34	2 7	17 53	2 58	2 22	1 5	20 4	0 38	23 6	0 2	21 51	0 57	15 8	8 8	14 39	15 3	5 56	15 49	6 36	
S 8	7 13	1 7	3 2	3 55	1 27	8 25	1 59	17 49	2 56	2 28	1 5	20 4	0 38	23 6	0 2	21 51	0 57	15 8	8 8	14 38	15 2	6 0	15 48	6 37	
M 9	7 35	5s56	1 48	4 49	1 20	8 14	1 51	17 44	2 54	2 33	1 5	20 3	0 38	23 6	0 2	21 51	0 57	15 8	8 8	14 37	15 1	6 3	15 48	6 37	
T 10	7 57	12 39	0 26	5 42	1 12	8 4	1 43	17 40	2 51	2 39	1 5	20 3	0 38	23 6	0 2	21 51	0 57	15 9	8 7	14 37	15 0	6 6	15 47	6 38	
W11	8 19	18 33	0s57	6 36	1 4	7 52	1 35	17 35	2 49	2 45	1 5	20 3	0 38	23 6	0 2	21 51	0 57	15 9	8 7	14 37	14 59	6 9	15 46	6 39	
T 12	8 41	23 12	2 14	7 31	0 55	7 40	1 27	17 30	2 47	2 50	1 5	20 3	0 38	23 6	0 2	21 51	0 57	15 9	8 7	14 37	14 58	6 13	15 45	6 39	
F 13	9 3	26 17	3 21	8 26	0 46	7 28	1 20	17 25	2 45	2 56	1 5	20 3	0 38	23 6	0 2	21 51	0 57	15 9	8 7	14 38	14 57	6 16	15 45	6 40	
S 14	9 25	27 37	4 14	9 20	0 36	7 15	1 12	17 20	2 43	3 1	1 5	20 3	0 38	23 6	0 2	21 51	0 57	15 10	8 7	14 38	14 56	6 19	15 44	6 41	
S 15	9 46	27 16	4 51	10 15	0 26	7 2	1 5	17 15	2 40	3 7	1 5	20 2	0 38	23 6	0 2	21 51	0 57	15 10	8 6	14 38	14 55	6 23	15 43	6 41	
M16	10 8	25 23	5 12	11 9	0 16	6 48	0 57	17 9	2 38	3 12	1 5	20 2	0 38	23 6	0 2	21 51	0 57	15 10	8 6	14 38	14 54	6 26	15 42	6 42	
T 17	10 29	22 17	5 17	12 3	0 6	6 34	0 50	17 4	2 36	3 18	1 5	20 2	0 38	23 6	0 2	21 51	0 57	15 10	8 6	14 38	14 53	6 29	15 42	6 43	
W18	10 50	18 14	5 6	12 57	0n 5	6 20	0 43	16 58	2 34	3 23	1 5	20 1	0 38	23 6	0 3	21 51	0 57	15 10	8 6	14 38	14 52	6 32	15 41	6 43	
T 19	11 11	13 30	4 42	13 49	0 16	6 5	0 37	16 52	2 32	3 29	1 5	20 1	0 38	23 5	0 3	21 51	0 57	15 11	8 6	14 38	14 51	6 36	15 40	6 44	
F 20	11 32	8 20	4 6	14 40	0 27	5 49	0 30	16 46	2 30	3 34	1 5	20 1	0 38	23 5	0 3	21 51	0 57	15 11	8 5	14 37	14 50	6 39	15 40	6 44	
S 21	11 52	2 56	3 20	15 30	0 38	5 33	0 23	16 39	2 28	3 40	1 5	20 0	0 38	23 5	0 3	21 51	0 57	15 11	8 5	14 37	14 49	6 42	15 39	6 45	
S 22	12 12	2n34	2 25	16 19	0 49	5 17	0 17	16 33	2 26	3 45	1 5	20 0	0 38	23 5	0 3	21 51	0 57	15 11	8 5	14 36	14 48	6 45	15 38	6 46	
M23	12 32	7 58	1 25	17 6	1 0	5 1	0 11	16 26	2 24	3 51	1 5	19 59	0 38	23 5	0 3	21 51	0 57	15 12	8 5	14 36	14 47	6 49	15 38	6 46	
T 24	12 52	13 7	0 20	17 51	1 10	4 44	0 5	16 19	2 22	3 56	1 5	19 59	0 38	23 5	0 3	21 51	0 57	15 12	8 5	14 36	14 46	6 52	15 37	6 47	
W25	13 12	17 48	0n46	18 34	1 20	4 26	0s 1	16 12	2 20	4 1	1 5	19 59	0 38	23 5	0 3	21 51	0 57	15 12	8 4	14 36	14 45	6 55	15 36	6 48	
T 26	13 31	21 49	1 50	19 15	1 30	4 9	0 7	16 5	2 18	4 7	1 6	19 58	0 38	23 5	0 3	21 51	0 57	15 12	8 4	14 36	14 44	6 58	15 36	6 48	
F 27	13 51	24 58	2 50	19 53	1 39	3 51	0 13	15 58	2 16	4 12	1 6	19 57	0 38	23 5	0 3	21 51	0 57	15 12	8 4	14 36	14 43	7 2	15 35	6 49	
S 28	14 10	26 59	3 43	20 30	1 48	3 52	0 19	15 51	2 14	4 17	1 6	19 57	0 38	23 5	0 3	21 51	0 57	15 13	8 4	14 36	14 42	7 5	15 35	6 49	
S 29	14 28	27 42	4 26	21 3	1 56	3 14	0 24	15 43	2 12	4 23	1 6	19 56	0 38	23 4	0 3	21 51	0 57	15 13	8 4	14 36	14 41	7 8	15 34	6 50	
M30	14n47	26n59	4n58	21n35	2n 4	2s55	0s29	15n36	2n10	4n28	1s 6	19n56	0n39	23s 4	0s 3	21s51	0n57	15n13	8s 4	14n36	14n40	7n11	15s33	6n51	

ASTRODIENST EPHEMERIS for the year 2153  
geocentric

MAY 2153

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 36 42	10♌54'31	2♈ 1	29♌ 4	24♌48	24♈11	14♌ 7	3♈47	19♌R46	12♌R50	23♌42	9♌R23	9♌30	22♌16	16♌R55	T 1
W 2	14 40 38	11°52'50	15°24	0♌39	25°49	24°29	14°21	3°50	19♌44	12♌50	23°43	9°D23	9°27	22°23	16♌54	W 2
T 3	14 44 35	12°51'07	29°10	2°10	26°50	24°48	14°35	3°53	19°42	12°49	23°44	9♌23	9°24	22°29	16°54	T 3
F 4	14 48 32	13°49'21	13♏19	3°36	27°52	25° 8	14°48	3°56	19°40	12°48	23°45	9°23	9°21	22°36	16°53	F 4
S 5	14 52 28	14°47'34	27°50	4°59	28°54	25°27	15° 2	3°59	19°39	12°48	23°46	9°24	9°17	22°43	16°52	S 5
S 6	14 56 25	15°45'44	12♏40	6°17	29°56	25°47	15°15	4° 2	19°37	12°47	23°47	9°24	9°14	22°49	16°51	S 6
M 7	15 0 21	16°43'53	27°42	7°31	0♏58	26° 7	15°29	4° 6	19°35	12°46	23°48	9°24	9°11	22°56	16°50	M 7
T 8	15 4 18	17°42'00	12♏48	8°40	2° 1	26°28	15°42	4° 9	19°33	12°46	23°50	9♌R25	9° 8	23° 3	16°49	T 8
W 9	15 8 14	18°40'05	27°49	9°45	3° 4	26°49	15°55	4°13	19°31	12°45	23°51	9°24	9° 5	23° 9	16°48	W 9
T 10	15 12 11	19°38'09	12♏38	10°45	4° 7	27°10	16° 9	4°16	19°29	12°44	23°52	9°23	9° 2	23°16	16°46	T 10
F 11	15 16 7	20°36'11	27° 6	11°41	5°10	27°32	16°22	4°20	19°27	12°43	23°53	9°22	8°58	23°23	16°45	F 11
S 12	15 20 4	21°34'12	11♏10	12°32	6°14	27°54	16°35	4°24	19°25	12°42	23°54	9°21	8°55	23°29	16°44	S 12
S 13	15 24 1	22°32'11	24°46	13°18	7°18	28°16	16°48	4°28	19°23	12°42	23°56	9°19	8°52	23°36	16°42	S 13
M14	15 27 57	23°30'09	7♏56	13°59	8°22	28°39	17° 1	4°32	19°21	12°41	23°57	9°18	8°49	23°42	16°41	M14
T 15	15 31 54	24°28'06	20°42	14°36	9°26	29° 2	17°14	4°36	19°18	12°40	23°58	9°D18	8°46	23°49	16°39	T 15
W16	15 35 50	25°26'01	3♏ 7	15° 7	10°30	29°25	17°27	4°40	19°16	12°39	23°59	9°18	8°43	23°56	16°37	W16
T 17	15 39 47	26°23'56	15°16	15°34	11°35	29°49	17°40	4°45	19°14	12°38	24° 1	9°19	8°39	24° 2	16°35	T 17
F 18	15 43 43	27°21'48	27°13	15°56	12°40	0♏13	17°53	4°49	19°12	12°37	24° 2	9°20	8°36	24° 9	16°34	F 18
S 19	15 47 40	28°19'40	9♏ 3	16°12	13°45	0°37	18° 6	4°53	19°10	12°36	24° 3	9°21	8°33	24°16	16°32	S 19
S 20	15 51 36	29°17'30	20°50	16°24	14°50	1° 1	18°18	4°58	19° 7	12°35	24° 4	9°23	8°30	24°22	16°30	S 20
M21	15 55 33	0♏15'20	2♏37	16°31	15°56	1°26	18°31	5° 3	19° 5	12°34	24° 6	9°24	8°27	24°29	16°28	M21
T 22	15 59 30	1°13'07	14°29	16°R33	17° 1	1°51	18°43	5° 7	19° 3	12°33	24° 7	9°R24	8°23	24°36	16°25	T 22
W23	16 3 26	2°10'54	26°27	16°30	18° 7	2°16	18°56	5°12	19° 0	12°31	24° 8	9°23	8°20	24°42	16°23	W23
T 24	16 7 23	3° 8'39	8♏34	16°23	19°13	2°41	19° 8	5°17	18°58	12°30	24°10	9°21	8°17	24°49	16°21	T 24
F 25	16 11 19	4° 6'24	20°52	16°11	20°19	3° 7	19°21	5°22	18°56	12°29	24°11	9°17	8°14	24°56	16°18	F 25
S 26	16 15 16	5° 4'06	3♏21	15°55	21°25	3°33	19°33	5°27	18°53	12°28	24°12	9°13	8°11	25° 2	16°16	S 26
S 27	16 19 12	6° 1'48	16° 3	15°36	22°31	3°59	19°45	5°32	18°51	12°27	24°14	9° 9	8° 8	25° 9	16°14	S 27
M28	16 23 9	6°59'27	28°59	15°13	23°38	4°25	19°57	5°37	18°49	12°26	24°15	9° 5	8° 4	25°16	16°11	M28
T 29	16 27 6	7°57'06	12♏ 9	14°47	24°44	4°52	20° 9	5°42	18°46	12°24	24°16	9° 2	8° 1	25°22	16° 8	T 29
W30	16 31 2	8°54'43	25°35	14°18	25°51	5°19	20°21	5°48	18°44	12°23	24°18	9° 0	7°58	25°29	16° 6	W30
T 31	16 34 59	9♏52'18	9♏17	13♏47	26°Y58	5♏46	20°Y33	5♏53	18♏41	12♏22	24♏19	8°D59	7♏55	25°Y36	16♏ 3	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	15n 5	24n49	5n15	22n 4	2n11	2s35	0s35	15n28	2n 8	4n33	1s 6	19n55	0n39	23s 4	0s 3	21s51
W 2	15 23	21 14	5 16	22 30	2 17	2 16	0 40	15 20	2 6	4 38	1 6	19 54	0 39	23 4	0 3	21 51
T 3	15 41	16 25	4 59	22 54	2 22	1 56	0 44	15 12	2 4	4 44	1 6	19 54	0 39	23 4	0 3	21 51
F 4	15 59	10 37	4 24	23 15	2 26	1 36	0 49	15 4	2 3	4 49	1 6	19 53	0 39	23 4	0 3	21 51
S 5	16 16	4 5	3 31	23 34	2 30	1 16	0 54	14 55	2 1	4 54	1 6	19 52	0 39	23 4	0 3	21 51
S 6	16 33	2s48	2 23	23 51	2 32	0 55	0 58	14 47	1 59	4 59	1 6	19 51	0 39	23 4	0 3	21 51
M 7	16 49	9 38	1 5	24 5	2 34	0 34	1 3	14 38	1 57	5 4	1 6	19 51	0 39	23 3	0 3	21 51
T 8	17 6	15 58	0s19	24 17	2 35	0 13	1 7	14 30	1 55	5 9	1 7	19 50	0 39	23 3	0 3	21 51
W 9	17 22	21 18	1 40	24 26	2 34	0n 8	1 11	14 21	1 54	5 14	1 7	19 49	0 39	23 3	0 3	21 51
T 10	17 38	25 10	2 54	24 34	2 33	0 29	1 15	14 12	1 52	5 19	1 7	19 48	0 39	23 3	0 3	21 52
F 11	17 53	27 18	3 55	24 40	2 31	0 51	1 19	14 3	1 50	5 24	1 7	19 47	0 39	23 3	0 3	21 52
S 12	18 9	27 36	4 39	24 43	2 28	1 13	1 23	13 54	1 49	5 29	1 7	19 46	0 39	23 3	0 3	21 52
S 13	18 23	26 11	5 7	24 45	2 23	1 34	1 26	13 44	1 47	5 34	1 7	19 45	0 39	23 3	0 3	21 52
M14	18 38	23 22	5 17	24 44	2 18	1 57	1 29	13 35	1 45	5 39	1 7	19 45	0 39	23 2	0 3	21 52
T 15	18 52	19 29	5 11	24 42	2 11	2 19	1 33	13 25	1 44	5 44	1 7	19 44	0 39	23 2	0 3	21 52
W16	19 6	14 51	4 50	24 38	2 4	2 41	1 36	13 16	1 42	5 49	1 7	19 43	0 39	23 2	0 3	21 52
T 17	19 20	9 45	4 17	24 33	1 55	3 4	1 39	13 6	1 41	5 53	1 7	19 42	0 39	23 2	0 3	21 52
F 18	19 33	4 22	3 33	24 26	1 46	3 26	1 42	12 56	1 39	5 58	1 8	19 41	0 39	23 2	0 3	21 52
S 19	19 46	1n 8	2 40	24 17	1 35	3 49	1 45	12 46	1 37	6 3	1 8	19 40	0 39	23 2	0 3	21 52
S 20	19 59	6 34	1 41	24 6	1 23	4 11	1 47	12 36	1 36	6 8	1 8	19 38	0 39	23 1	0 3	21 52
M21	20 11	11 47	0 37	23 55	1 11	4 34	1 50	12 26	1 34	6 12	1 8	19 37	0 39	23 1	0 3	21 52
T 22	20 23	16 37	0n28	23 41	0 57	4 57	1 52	12 15	1 33	6 17	1 8	19 36	0 39	23 1	0 3	21 52
W23	20 35	20 51	1 33	23 27	0 43	5 20	1 55	12 5	1 31	6 21	1 8	19 35	0 39	23 1	0 3	21 53
T 24	20 46	24 15	2 34	23 11	0 28	5 43	1 57	11 54	1 30	6 26	1 8	19 34	0 39	23 1	0 3	21 53
F 25	20 57	26 35	3 29	22 54	0 12	6 6	1 59	11 44	1 29	6 31	1 8	19 33	0 39	23 1	0 3	21 53
S 26	21 8	27 37	4 14	22 36	0s 5	6 29	2 1	11 33	1 27	6 35	1 9	19 32	0 39	23 0	0 3	21 53
S 27	21 18	27 14	4 48	22 17	0 22	6 52	2 2	11 22	1 26	6 39	1 9	19 30	0 39	23 0	0 3	21 53
M28	21 28	25 23	5 8	21 57	0 39	7 15	2 4	11 11	1 24	6 44	1 9	19 29	0 39	23 0	0 3	21 53
T 29	21 37	22 8	5 13	21 37	0 57	7 38	2 6	11 0	1 23	6 48	1 9	19 28	0 39	23 0	0 3	21 53
W30	21 46	17 41	5 0	21 16	1 14	8 0	2 7	10 49	1 21	6 53	1 9	19 27	0 39	23 0	0 3	21 53
T 31	21n55	12n15	4n31	20n55	1s32	8n23	2s 8	10n38	1n20	6n57	1s 9	19n25	0n39	22s59	0s 3	21s53

Julian Day Number = 2507547.5, Delta T = 123.97 sec  
Ecliptic obliquity = 23°25'17, Nutation = - 0°00'12, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°52'58, Lahiri = 25°59'59



# ASTRODIENST EPHEMERIS for the year 2153

## geocentric

JUNE 2153

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 38 55	10II49'52	23III17	13°R15	28Y 5	6III13	20Y44	5II59	18°R39	12°R20	24II21	9R 0	7R52	25Y42	16°R 0	F 1
S 2	16 42 52	11°47'24	7II32	12II42	29°12	6°41	20°56	6° 4	18°36	12°19	24°22	9° 1	7°49	25°49	15°57	S 2
S 3	16 46 48	12°44'55	22° 1	12° 8	0R19	7° 9	21° 8	6°10	18°34	12°18	24°23	9° 2	7°45	25°55	15°54	S 3
M 4	16 50 45	13°42'25	6III41	11°34	1°27	7°37	21°19	6°15	18°32	12°16	24°25	9°R 3	7°42	26° 2	15°51	M 4
T 5	16 54 41	14°39'54	21°28	11° 2	2°34	8° 5	21°31	6°21	18°29	12°15	24°26	9° 3	7°39	26° 9	15°48	T 5
W 6	16 58 38	15°37'21	6X13	10°30	3°42	8°33	21°42	6°27	18°27	12°14	24°27	9° 1	7°36	26°15	15°45	W 6
T 7	17 2 35	16°34'48	20°51	10° 1	4°49	9° 2	21°53	6°33	18°24	12°12	24°29	8°57	7°33	26°22	15°42	T 7
F 8	17 6 31	17°32'14	5II31	9°33	5°57	9°30	22° 4	6°38	18°22	12°11	24°30	8°51	7°29	26°29	15°39	F 8
S 9	17 10 28	18°29'39	19°17	9° 9	7° 5	9°59	22°15	6°44	18°19	12° 9	24°32	8°45	7°26	26°35	15°36	S 9
S 10	17 14 24	19°27'03	2II55	8°47	8°13	10°29	22°26	6°50	18°17	12° 8	24°33	8°39	7°23	26°42	15°33	S 10
M 11	17 18 21	20°24'26	16° 8	8°30	9°21	10°58	22°37	6°57	18°14	12° 6	24°34	8°34	7°20	26°49	15°29	M 11
T 12	17 22 17	21°21'49	28°57	8°16	10°30	11°27	22°48	7° 3	18°12	12° 5	24°36	8°30	7°17	26°55	15°26	T 12
W 13	17 26 14	22°19'11	11X25	8° 6	11°38	11°57	22°58	7° 9	18° 9	12° 4	24°37	8°27	7°14	27° 2	15°23	W 13
T 14	17 30 10	23°16'32	23°35	8° 0	12°46	12°27	23° 9	7°15	18° 7	12° 2	24°39	8°D27	7°10	27° 9	15°19	T 14
F 15	17 34 7	24°13'54	5Y32	7°D59	13°55	12°57	23°19	7°21	18° 4	12° 1	24°40	8°27	7° 7	27°15	15°16	F 15
S 16	17 38 4	25°11'14	17°22	8° 2	15° 3	13°27	23°29	7°28	18° 2	11°59	24°41	8°29	7° 4	27°22	15°12	S 16
S 17	17 42 0	26° 8'34	29°10	8°10	16°12	13°57	23°39	7°34	18° 0	11°57	24°43	8°30	7° 1	27°29	15° 9	S 17
M 18	17 45 57	27° 5'54	11R 0	8°22	17°21	14°28	23°50	7°41	17°57	11°56	24°44	8°R30	6°58	27°35	15° 5	M 18
T 19	17 49 53	28° 3'14	22°56	8°39	18°30	14°58	24° 0	7°47	17°55	11°54	24°46	8°29	6°55	27°42	15° 2	T 19
W 20	17 53 50	29° 0'33	5II 3	9° 0	19°39	15°29	24° 9	7°54	17°52	11°53	24°47	8°26	6°51	27°48	14°58	W 20
T 21	17 57 46	29°57'52	17°22	9°26	20°48	16° 0	24°19	8° 0	17°50	11°51	24°49	8°20	6°48	27°55	14°54	T 21
F 22	18 1 43	0R55'10	29°55	9°57	21°57	16°31	24°29	8° 7	17°47	11°50	24°50	8°13	6°45	28° 2	14°51	F 22
S 23	18 5 39	1°52'28	12R34	10°32	23° 6	17° 3	24°38	8°14	17°45	11°48	24°51	8° 4	6°42	28° 8	14°47	S 23
S 24	18 9 36	2°49'45	25°47	11°11	24°16	17°34	24°48	8°21	17°43	11°46	24°53	7°55	6°39	28°15	14°43	S 24
M 25	18 13 33	3°47'01	9R 3	11°55	25°25	18° 6	24°57	8°27	17°40	11°45	24°54	7°46	6°35	28°22	14°40	M 25
T 26	18 17 29	4°44'18	22°32	12°42	26°34	18°38	25° 6	8°34	17°38	11°43	24°56	7°38	6°32	28°28	14°36	T 26
W 27	18 21 26	5°41'33	6III11	13°34	27°44	19° 9	25°15	8°41	17°36	11°42	24°57	7°32	6°29	28°35	14°32	W 27
T 28	18 25 22	6°38'48	20° 0	14°30	28°53	19°42	25°24	8°48	17°33	11°40	24°58	7°29	6°26	28°42	14°28	T 28
F 29	18 29 19	7°36'02	3II59	15°31	0II 3	20°14	25°32	8°55	17°31	11°38	25° 0	7°D28	6°23	28°48	14°24	F 29
S 30	18 33 15	8R33'15	18II 5	16II35	1II13	20III46	25Y41	9R 2	17R29	11R37	25II 1	7R28	6R20	28Y55	14R21	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
F 1	22n 3	6n 6	3n45	20n34	1s49	8n46	2s10	10n26	1n19	7n 1	1s 9	19n24	0n39	22s59	0s 3	F 1
S 2	22 11	0s28	2 44	20 13	2 6	9 9	2 11	10 15	1 17	7 5	1 10	19 23	0 39	22 59	0 3	S 2
S 3	22 19	7 9	1 32	19 53	2 22	9 31	2 12	10 3	1 16	7 10	1 10	19 21	0 39	22 59	0 3	S 3
M 4	22 26	13 32	0 13	19 33	2 38	9 54	2 13	9 52	1 15	7 14	1 10	19 20	0 39	22 59	0 3	M 4
T 5	22 32	19 12	1s 7	19 14	2 52	10 16	2 13	9 40	1 13	7 18	1 10	19 19	0 39	22 58	0 3	T 5
W 6	22 39	23 40	2 23	18 56	3 6	10 38	2 14	9 28	1 12	7 22	1 10	19 17	0 40	22 58	0 3	W 6
T 7	22 45	26 34	3 28	18 39	3 19	11 0	2 14	9 16	1 11	7 26	1 10	19 16	0 40	22 58	0 3	T 7
F 8	22 50	27 38	4 19	18 24	3 30	11 22	2 15	9 4	1 9	7 30	1 11	19 14	0 40	22 58	0 3	F 8
S 9	22 55	26 52	4 53	18 10	3 40	11 44	2 15	8 52	1 8	7 34	1 11	19 13	0 40	22 58	0 3	S 9
S 10	23 0	24 30	5 9	17 58	3 49	12 6	2 15	8 40	1 7	7 38	1 11	19 11	0 40	22 57	0 3	S 10
M 11	23 4	20 52	5 7	17 48	3 57	12 27	2 16	8 28	1 6	7 42	1 11	19 10	0 40	22 57	0 3	M 11
T 12	23 8	16 22	4 51	17 39	4 4	12 49	2 16	8 15	1 4	7 45	1 11	19 8	0 40	22 57	0 3	T 12
W 13	23 12	11 17	4 21	17 33	4 9	13 10	2 15	8 3	1 3	7 49	1 11	19 7	0 40	22 57	0 3	W 13
T 14	23 15	5 54	3 39	17 28	4 13	13 31	2 15	7 50	1 2	7 53	1 12	19 5	0 40	22 57	0 3	T 14
F 15	23 18	0 23	2 49	17 25	4 15	13 51	2 15	7 38	1 1	7 56	1 12	19 4	0 40	22 56	0 3	F 15
S 16	23 20	5n 5	1 52	17 24	4 17	14 12	2 15	7 25	1 0	8 0	1 12	19 2	0 40	22 56	0 3	S 16
S 17	23 22	10 23	0 50	17 26	4 17	14 32	2 14	7 12	0 58	8 4	1 12	19 0	0 40	22 56	0 3	S 17
M 18	23 23	15 20	0n13	17 28	4 16	14 52	2 14	6 59	0 57	8 7	1 12	18 59	0 40	22 56	0 3	M 18
T 19	23 24	19 44	1 17	17 33	4 14	15 11	2 13	6 47	0 56	8 11	1 12	18 57	0 40	22 55	0 3	T 19
W 20	23 25	23 23	2 18	17 39	4 11	15 31	2 12	6 34	0 55	8 14	1 13	18 56	0 40	22 55	0 3	W 20
T 21	23 25	26 2	3 14	17 47	4 7	15 50	2 11	6 20	0 54	8 18	1 13	18 54	0 40	22 55	0 3	T 21
F 22	23 25	27 26	4 1	17 56	4 2	16 8	2 10	6 7	0 53	8 21	1 13	18 52	0 40	22 55	0 3	F 22
S 23	23 24	27 24	4 36	18 7	3 56	16 27	2 9	5 54	0 51	8 24	1 13	18 50	0 40	22 55	0 3	S 23
S 24	23 23	25 52	4 59	18 19	3 49	16 45	2 8	5 41	0 50	8 27	1 13	18 49	0 40	22 54	0 3	S 24
M 25	23 22	22 53	5 5	18 32	3 42	17 3	2 7	5 27	0 49	8 31	1 14	18 47	0 40	22 54	0 3	M 25
T 26	23 20	18 38	4 55	18 46	3 34	17 20	2 6	5 14	0 48	8 34	1 14	18 45	0 40	22 54	0 3	T 26
W 27	23 18	13 23	4 28	19 1	3 25	17 37	2 5	5 0	0 47	8 37	1 14	18 44	0 40	22 54	0 3	W 27
T 28	23 15	7 25	3 46	19 17	3 16	17 54	2 3	4 47	0 46	8 40	1 14	18 42	0 40	22 54	0 3	T 28
F 29	23 12	1 1	2 49	19 33	3 6	18 10	2 2	4 33	0 45	8 43	1 14	18 40	0 40	22 53	0 3	F 29
S 30	23n 9	5s31	1n42	19n50	2s56	18n26	2s 0	4n20	0n44	8n46	1s15	18n38	0n41	22s53	0s 3	S 30

Julian Day Number = 2507578.5, Delta T = 124.03 sec

Ecliptic obliquity = 23°25'16, Nutation = - 0°00'11, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°53'02, Lahiri = 26°00'03

ASTRODIENST EPHEMERIS for the year 2153  
geocentric

JULY 2153

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	18 37 12	9 <sup>53</sup> 0'28	2 <sup>11</sup> 18	17 <sup>11</sup> 42	2 <sup>11</sup> 23	21 <sup>11</sup> 18	25 <sup>11</sup> 49	9 <sup>11</sup> 9	17 <sup>11</sup> R27	11 <sup>11</sup> R35	25 <sup>11</sup> 2	7 <sup>11</sup> R29	6 <sup>11</sup> 16	29 <sup>11</sup> Y 2	14 <sup>11</sup> R17	S 1
M 2	18 41 8	10 <sup>52</sup> 7'41	16 <sup>52</sup> 37	18 <sup>52</sup> 54	3 <sup>52</sup> 32	21 <sup>52</sup> 51	25 <sup>52</sup> 58	9 <sup>52</sup> 16	17 <sup>52</sup> A24	11 <sup>52</sup> 34	25 <sup>52</sup> 4	7 <sup>52</sup> B29	6 <sup>52</sup> 13	29 <sup>52</sup> 8	14 <sup>52</sup> 313	M 2
T 3	18 45 5	11 <sup>52</sup> 24'53	0 <sup>52</sup> A59	20 <sup>52</sup> 10	4 <sup>52</sup> 42	22 <sup>52</sup> 24	26 <sup>52</sup> 6	9 <sup>52</sup> 23	17 <sup>52</sup> 22	11 <sup>52</sup> 32	25 <sup>52</sup> 5	7 <sup>52</sup> 27	6 <sup>52</sup> 10	29 <sup>52</sup> 15	14 <sup>52</sup> 9	T 3
W 4	18 49 2	12 <sup>52</sup> 22'05	15 <sup>52</sup> 21	21 <sup>52</sup> 29	5 <sup>52</sup> 52	22 <sup>52</sup> 57	26 <sup>52</sup> 14	9 <sup>52</sup> 30	17 <sup>52</sup> 20	11 <sup>52</sup> 30	25 <sup>52</sup> 7	7 <sup>52</sup> 22	6 <sup>52</sup> 7	29 <sup>52</sup> 22	14 <sup>52</sup> 5	W 4
T 5	18 52 58	13 <sup>52</sup> 19'17	29 <sup>52</sup> 37	22 <sup>52</sup> 53	7 <sup>52</sup> 2	23 <sup>52</sup> 30	26 <sup>52</sup> 22	9 <sup>52</sup> 38	17 <sup>52</sup> 18	11 <sup>52</sup> 29	25 <sup>52</sup> 8	7 <sup>52</sup> 15	6 <sup>52</sup> 4	29 <sup>52</sup> 28	14 <sup>52</sup> 1	T 5
F 6	18 56 55	14 <sup>52</sup> 16'28	13 <sup>52</sup> 342	24 <sup>52</sup> 19	8 <sup>52</sup> 13	24 <sup>52</sup> 3	26 <sup>52</sup> 30	9 <sup>52</sup> 45	17 <sup>52</sup> 16	11 <sup>52</sup> 27	25 <sup>52</sup> 9	7 <sup>52</sup> 6	6 <sup>52</sup> 1	29 <sup>52</sup> 35	13 <sup>52</sup> 58	F 6
S 7	19 0 51	15 <sup>52</sup> 13'40	27 <sup>52</sup> 31	25 <sup>52</sup> 50	9 <sup>52</sup> 23	24 <sup>52</sup> 36	26 <sup>52</sup> 37	9 <sup>52</sup> 52	17 <sup>52</sup> 14	11 <sup>52</sup> 25	25 <sup>52</sup> 11	6 <sup>52</sup> 55	5 <sup>52</sup> 57	29 <sup>52</sup> 41	13 <sup>52</sup> 54	S 7
S 8	19 4 48	16 <sup>52</sup> 10'51	11 <sup>52</sup> 31	27 <sup>52</sup> 24	10 <sup>52</sup> 33	25 <sup>52</sup> 9	26 <sup>52</sup> 45	9 <sup>52</sup> 59	17 <sup>52</sup> 12	11 <sup>52</sup> 24	25 <sup>52</sup> 12	6 <sup>52</sup> 45	5 <sup>52</sup> 54	29 <sup>52</sup> 48	13 <sup>52</sup> 50	S 8
M 9	19 8 44	17 <sup>52</sup> 8'03	24 <sup>52</sup> 10	29 <sup>52</sup> 2	11 <sup>52</sup> 43	25 <sup>52</sup> 43	26 <sup>52</sup> 52	10 <sup>52</sup> 7	17 <sup>52</sup> 10	11 <sup>52</sup> 22	25 <sup>52</sup> 13	6 <sup>52</sup> 35	5 <sup>52</sup> 51	29 <sup>52</sup> 55	13 <sup>52</sup> 46	M 9
T 10	19 12 41	18 <sup>52</sup> 5'15	6 <sup>52</sup> A57	0 <sup>52</sup> 343	12 <sup>52</sup> 54	26 <sup>52</sup> 16	26 <sup>52</sup> 59	10 <sup>52</sup> 14	17 <sup>52</sup> 8	11 <sup>52</sup> 21	25 <sup>52</sup> 15	6 <sup>52</sup> 26	5 <sup>52</sup> 48	0 <sup>52</sup> B 1	13 <sup>52</sup> 42	T 10
W11	19 16 38	19 <sup>52</sup> 2'27	19 <sup>52</sup> 24	2 <sup>52</sup> 27	14 <sup>52</sup> 4	26 <sup>52</sup> 50	27 <sup>52</sup> 6	10 <sup>52</sup> 21	17 <sup>52</sup> 6	11 <sup>52</sup> 19	25 <sup>52</sup> 16	6 <sup>52</sup> 21	5 <sup>52</sup> 45	0 <sup>52</sup> 8	13 <sup>52</sup> 38	W11
T 12	19 20 34	19 <sup>52</sup> 59'39	1 <sup>52</sup> Y34	4 <sup>52</sup> 14	15 <sup>52</sup> 15	27 <sup>52</sup> 24	27 <sup>52</sup> 13	10 <sup>52</sup> 29	17 <sup>52</sup> 4	11 <sup>52</sup> 17	25 <sup>52</sup> 17	6 <sup>52</sup> 17	5 <sup>52</sup> 41	0 <sup>52</sup> 15	13 <sup>52</sup> 35	T 12
F 13	19 24 31	20 <sup>52</sup> 56'52	13 <sup>52</sup> 32	6 <sup>52</sup> 5	16 <sup>52</sup> 25	27 <sup>52</sup> 58	27 <sup>52</sup> 20	10 <sup>52</sup> 36	17 <sup>52</sup> 2	11 <sup>52</sup> 16	25 <sup>52</sup> 18	6 <sup>52</sup> 16	5 <sup>52</sup> 38	0 <sup>52</sup> 21	13 <sup>52</sup> 31	F 13
S 14	19 28 27	21 <sup>52</sup> 54'05	25 <sup>52</sup> 22	7 <sup>52</sup> 58	17 <sup>52</sup> 36	28 <sup>52</sup> 32	27 <sup>52</sup> 27	10 <sup>52</sup> 44	17 <sup>52</sup> 0	11 <sup>52</sup> 14	25 <sup>52</sup> 20	6 <sup>52</sup> D15	5 <sup>52</sup> 35	0 <sup>52</sup> 28	13 <sup>52</sup> 27	S 14
S 15	19 32 24	22 <sup>52</sup> 51'19	7 <sup>52</sup> B10	9 <sup>52</sup> 54	18 <sup>52</sup> 47	29 <sup>52</sup> 6	27 <sup>52</sup> 33	10 <sup>52</sup> 51	16 <sup>52</sup> 58	11 <sup>52</sup> 13	25 <sup>52</sup> 21	6 <sup>52</sup> R16	5 <sup>52</sup> 32	0 <sup>52</sup> 35	13 <sup>52</sup> 23	S 15
M16	19 36 20	23 <sup>52</sup> 48'33	19 <sup>52</sup> 2	11 <sup>52</sup> 53	19 <sup>52</sup> 57	29 <sup>52</sup> 41	27 <sup>52</sup> 39	10 <sup>52</sup> 59	16 <sup>52</sup> 56	11 <sup>52</sup> 11	25 <sup>52</sup> 22	6 <sup>52</sup> 15	5 <sup>52</sup> 29	0 <sup>52</sup> 41	13 <sup>52</sup> 20	M16
T 17	19 40 17	24 <sup>52</sup> 45'48	1 <sup>52</sup> II 3	13 <sup>52</sup> 54	21 <sup>52</sup> 8	0 <sup>52</sup> A15	27 <sup>52</sup> 46	11 <sup>52</sup> 6	16 <sup>52</sup> 54	11 <sup>52</sup> 9	25 <sup>52</sup> 24	6 <sup>52</sup> 13	5 <sup>52</sup> 26	0 <sup>52</sup> 48	13 <sup>52</sup> 16	T 17
W18	19 44 13	25 <sup>52</sup> 43'03	13 <sup>52</sup> 16	15 <sup>52</sup> 57	22 <sup>52</sup> 19	0 <sup>52</sup> 50	27 <sup>52</sup> 52	11 <sup>52</sup> 14	16 <sup>52</sup> 53	11 <sup>52</sup> 8	25 <sup>52</sup> 25	6 <sup>52</sup> 8	5 <sup>52</sup> 22	0 <sup>52</sup> 55	13 <sup>52</sup> 12	W18
T 19	19 48 10	26 <sup>52</sup> 40'19	25 <sup>52</sup> 46	18 <sup>52</sup> 1	23 <sup>52</sup> 30	1 <sup>52</sup> 24	27 <sup>52</sup> 57	11 <sup>52</sup> 21	16 <sup>52</sup> 51	11 <sup>52</sup> 6	25 <sup>52</sup> 26	6 <sup>52</sup> 1	5 <sup>52</sup> 19	1 <sup>52</sup> 1	13 <sup>52</sup> 9	T 19
F 20	19 52 7	27 <sup>52</sup> 37'35	8 <sup>52</sup> 34	20 <sup>52</sup> 7	24 <sup>52</sup> 41	1 <sup>52</sup> 59	28 <sup>52</sup> 3	11 <sup>52</sup> 29	16 <sup>52</sup> 49	11 <sup>52</sup> 5	25 <sup>52</sup> 27	5 <sup>52</sup> 51	5 <sup>52</sup> 16	1 <sup>52</sup> 8	13 <sup>52</sup> 5	F 20
S 21	19 56 3	28 <sup>52</sup> 34'52	21 <sup>52</sup> 41	22 <sup>52</sup> 14	25 <sup>52</sup> 52	2 <sup>52</sup> 34	28 <sup>52</sup> 8	11 <sup>52</sup> 36	16 <sup>52</sup> 48	11 <sup>52</sup> 3	25 <sup>52</sup> 29	5 <sup>52</sup> 40	5 <sup>52</sup> 13	1 <sup>52</sup> 15	13 <sup>52</sup> 1	S 21
S 22	20 0 0	29 <sup>52</sup> 32'09	5 <sup>52</sup> 6	24 <sup>52</sup> 21	27 <sup>52</sup> 3	3 <sup>52</sup> 9	28 <sup>52</sup> 14	11 <sup>52</sup> 44	16 <sup>52</sup> 46	11 <sup>52</sup> 2	25 <sup>52</sup> 30	5 <sup>52</sup> 27	5 <sup>52</sup> 10	1 <sup>52</sup> 21	12 <sup>52</sup> 58	S 22
M23	20 3 56	0 <sup>52</sup> A29'27	18 <sup>52</sup> 47	26 <sup>52</sup> 29	28 <sup>52</sup> 15	3 <sup>52</sup> 44	28 <sup>52</sup> 19	11 <sup>52</sup> 52	16 <sup>52</sup> 44	11 <sup>52</sup> 0	25 <sup>52</sup> 31	5 <sup>52</sup> 16	5 <sup>52</sup> 7	1 <sup>52</sup> 28	12 <sup>52</sup> 54	M23
T 24	20 7 53	1 <sup>52</sup> 26'45	2 <sup>52</sup> 1140	28 <sup>52</sup> 37	29 <sup>52</sup> 26	4 <sup>52</sup> 19	28 <sup>52</sup> 24	11 <sup>52</sup> 59	16 <sup>52</sup> 43	10 <sup>52</sup> 59	25 <sup>52</sup> 32	5 <sup>52</sup> 5	5 <sup>52</sup> 3	1 <sup>52</sup> 34	12 <sup>52</sup> 51	T 24
W25	20 11 49	2 <sup>52</sup> 24'04	16 <sup>52</sup> 41	0 <sup>52</sup> A45	0 <sup>52</sup> 37	4 <sup>52</sup> 55	28 <sup>52</sup> 29	12 <sup>52</sup> 7	16 <sup>52</sup> 41	10 <sup>52</sup> 57	25 <sup>52</sup> 33	4 <sup>52</sup> 58	5 <sup>52</sup> 0	1 <sup>52</sup> 41	12 <sup>52</sup> 47	W25
T 26	20 15 46	3 <sup>52</sup> 21'22	0 <sup>52</sup> A47	2 <sup>52</sup> 53	1 <sup>52</sup> 49	5 <sup>52</sup> 30	28 <sup>52</sup> 33	12 <sup>52</sup> 15	16 <sup>52</sup> 40	10 <sup>52</sup> 56	25 <sup>52</sup> 34	4 <sup>52</sup> 53	4 <sup>52</sup> 57	1 <sup>52</sup> 48	12 <sup>52</sup> 44	T 26
F 27	20 19 42	4 <sup>52</sup> 18'41	14 <sup>52</sup> 56	5 <sup>52</sup> 0	3 <sup>52</sup> 0	6 <sup>52</sup> 6	28 <sup>52</sup> 38	12 <sup>52</sup> 22	16 <sup>52</sup> 39	10 <sup>52</sup> 54	25 <sup>52</sup> 36	4 <sup>52</sup> 50	4 <sup>52</sup> 54	1 <sup>52</sup> 54	12 <sup>52</sup> 40	F 27
S 28	20 23 39	5 <sup>52</sup> 16'01	29 <sup>52</sup> 4	7 <sup>52</sup> 6	4 <sup>52</sup> 12	6 <sup>52</sup> 41	28 <sup>52</sup> 42	12 <sup>52</sup> 30	16 <sup>52</sup> 37	10 <sup>52</sup> 53	25 <sup>52</sup> 37	4 <sup>52</sup> 50	4 <sup>52</sup> 51	2 <sup>52</sup> 1	12 <sup>52</sup> 37	S 28
S 29	20 27 36	6 <sup>52</sup> 13'20	13 <sup>52</sup> 11	9 <sup>52</sup> 11	5 <sup>52</sup> 23	7 <sup>52</sup> 17	28 <sup>52</sup> 46	12 <sup>52</sup> 38	16 <sup>52</sup> 36	10 <sup>52</sup> 51	25 <sup>52</sup> 38	4 <sup>52</sup> 50	4 <sup>52</sup> 47	2 <sup>52</sup> 8	12 <sup>52</sup> 33	S 29
M30	20 31 32	7 <sup>52</sup> 10'41	27 <sup>52</sup> 16	11 <sup>52</sup> 14	6 <sup>52</sup> 35	7 <sup>52</sup> 53	28 <sup>52</sup> 50	12 <sup>52</sup> 45	16 <sup>52</sup> 35	10 <sup>52</sup> 50	25 <sup>52</sup> 39	4 <sup>52</sup> 49	4 <sup>52</sup> 44	2 <sup>52</sup> 14	12 <sup>52</sup> 30	M30
T 31	20 35 29	8 <sup>52</sup> 8'01	11 <sup>52</sup> A19	13 <sup>52</sup> A17	7 <sup>52</sup> 346	8 <sup>52</sup> A29	28 <sup>52</sup> Y53	12 <sup>52</sup> A53	16 <sup>52</sup> A33	10 <sup>52</sup> A49	25 <sup>52</sup> II40	4 <sup>52</sup> B46	4 <sup>52</sup> B41	2 <sup>52</sup> B21	12 <sup>52</sup> B27	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n 5	11s50	0n28	20n 7	2s45	18n41	1s58	4n 6	0n43	8n49	1s15	18n36	0n41	22s53	0s 3	21s57	0n58	15n22	7s58	14n 0	13n36	10n31	15s25	7n16
M 2	23 1	17 34	0s49	20 24	2 34	18 56	1 57	3 52	0 42	8 51	1 15	18 34	0 41	22 53	0 3	21 58	0 58	15 22	7 58	14 0	13 35	10 34	15 26	7 17
T 3	22 56	22 20	2 2	20 42	2 22	19 11	1 55	3 38	0 41	8 54	1 15	18 33	0 41	22 53	0 3	21 58	0 58	15 22	7 58	13 59	13 34	10 37	15 26	7 17
W 4	22 51	25 43	3 7	20 59	2 10	19 25	1 53	3 24	0 39	8 57	1 15	18 31	0 41	22 52	0 3	21 58	0 58	15 22	7 58	13 58	13 33	10 40	15 26	7 17
T 5	22 45	27 26	4 0	21 16	1 58	19 38	1 51	3 10	0 38	9 0	1 16	18 29	0 41	22 52	0 3	21 58	0 58	15 22	7 58	13 55	13 32	10 43	15 27	7 17
F 6	22 39	27 20	4 38	21 32	1 46	19 52	1 49	2 56	0 37	9 2	1 16	18 27	0 41	22 52	0 3	21 58	0 58	15 22	7 58	13 52	13 31	10 47	15 27	7 17
S 7	22 33	25 31	4 59	21 48	1 33	20 4	1 47	2 42	0 36	9 5	1 16	18 25	0 41	22 52	0 3	21 58	0 58	15 22	7 58	13 49	13 30	10 50	15 27	7 17
S 8	22 26	22 17	5 2	22 3	1 20	20 17	1 45	2 28	0 35	9 7	1 16	18 23	0 41	22 52	0 3	21 59	0 58	15 22	7 58	13 45	13 29	10 53	15 28	7 17
M 9	22 19	17 59	4 49	22 17	1 8	20 28	1 43	2 14	0 34	9 10	1 17	18 21	0 41	22 51	0 3	21 59	0 58	15 22	7 58	13 42	13 28	10 56	15 28	7 17
T 10	22 12	13 0	4 21	22 30	0 55	20 40	1 41	1 59	0 33	9 12	1 17	18 19	0 41	22 51	0 3	21 59	0 58	15 22	7 58	13 39	13 27	10 59	15 28	7 17
W11	22 4	7 36	3 42	22 41	0 42	20 50	1 39	1 45	0 32	9 14	1 17	18 17	0 41	22 51	0 3	21 59	0 58	15 22	7 58	13 37	13 26	11 2	15 29	7 17
T 12	21 56	2 2	2 53	22 51	0 30	21 1	1 36	1 31	0 31	9 17	1 17	18 16	0 41	22 51	0 3	21 59	0 58	15 22	7 58	13 36	13 25	11 5	15 29	7 17
F 13	21 47	3n32	1 58	22 59	0 18	21 10	1 34	1 16	0 30	9 19	1 17	18 14	0 41	22 51	0 3	21 59	0 58	15 22	7 58	13 36	13 23	11 9	15 29	7 17
S 14	21 39	8 55	0 58	23 5	0 6	21 19	1 32	1 2	0 29	9 21	1 18	18 12	0 41	22 51	0 3	21 59	0 58	15 22	7 58	13 36	13 22	11 12	15 30	7 17
S 15	21 29	13 58	0n 5	23 9	0n 6	21 28	1 29	0 47	0 28	9 23	1 18	18 10	0 41	22 50	0 3	22 0	0 58	15 22	7 58	13 36	13 21	11 15	15 30	7 17
M16	21 20	18 33	1 7	23 11	0 17	21 36	1 27	0 33	0 28	9 25	1 18	18 8	0 41	22 50	0 3	22 0	0 58	15 22	7 59	13 36	13 20	11 18	15 31	7 17
T 17	21 9	22 26	2 7	23 10	0 28	21 43	1 24	0 18	0 27	9 27	1 18	18 6	0 41	22 50	0 3	22 0	0 58	15 22	7 59	13 35	13 19	11 21	15 31	7 17
W18	20 59	25 24	3 3	23 6	0 38	21 50	1 22	0 4	0 26	9 29	1 19	18 4	0 42	22 50	0 3	22 0	0 58	15 22	7 59	13 33	13 18	11 24	15 32	7 17
T 19	20 48	27 11	3 50	23 0	0 48	21 57	1 19	0s11	0 25	9 31	1 19	18 2	0 42	22 50	0 3	22 0	0 57	15 22	7 59	13 31	13 17	11 27	15 32	7 16
F 20	20 37	27 36	4 28	22 51	0 57	22 2	1 16	0 26	0 24	9 32	1 19	18 0	0 42	22 50	0 3	22 0	0 57	15 22	7 59	13 28	13 16	11 31	15 32	7 16
S 21	20 26	26 29	4 52	22 40	1 5	22 8	1 14	0 40	0 23	9 34	1 19	17 58	0 42	22 49	0 3	22 0	0 57	15 22	7 59	13 24	13 15	11 34	15 33	7 16
S 22	20 14	23 50	5 0	22 26	1 13	22 12	1 11	0 55	0 22	9 36	1 20	17 55	0 42	22 49	0 3	22 1	0 57	15 22	7 59	13 20	13 14	11 37	15 33	7 16
M23	20 2	19 49	4 52	22 9	1 20	22 16	1 8	1 10	0 21	9 37	1 20	17 53	0 42	22 49	0 3	22 1	0 57	15 22	7 59	13 16	13 13	11 40	15 34	7 16
T 24	19 49	14 40	4 27	21 49	1 26	22 20	1 6	1 25	0 20	9 39	1 20	17 51	0 42	22 49	0 3	22 1	0 57	15 22	7 59	13 13	13 12	11 43	15 34	7 16
W25	19 37	8 43	3 45	21 27	1 31	22 22	1 3	1 39	0 19	9 40	1 20	17 49	0 42	22 49	0 4	22 1	0 57	15 22	7 59	13 10	13 11	11 46	15 35	7 16
T 26	19 23	2 17	2 50	21 3	1 36	22 24	1 0	1 54	0 18	9 42	1 21	17 47	0 42	22 49	0 4	22 1	0 57	15 22	7 59	13 8	13 10	11 49	15 35	7 15
F 27	19 10	4s17	1 43	20 37	1 39	22 26	0 57	2 9	0 17	9 43	1 21	17 45	0 42	22 49	0 4	22 1	0 57	15 22	7 59	13 8	13 9	11 52	15 36	7 15
S 28	18 56	10 40	0 30	20 8	1 42	22 27	0 55	2 24	0 16	9 44	1 21	17 43	0 42	22 48	0 4	22 1	0 57	15 22	7 59	13 7	13 8	11 56	15 36	7 15
S 29	18 42	16 29	0s44	19 38	1 44	22 27	0 52	2 39	0 16	9 46	1 21	17 41	0 42	22 48	0 4	22 2	0 57	15 22	7 59	13 7	13 7	11 59	15 37	7 15
M30	18 28	21 25	1 56	19 5	1 46	22 27	0 49	2 54	0 15	9 47	1 22	17 39	0 42	22 48	0 4	22 2	0 57	15 22	7 59	13 7	13 5	12 2	15 37	7 15
T 31	18n13	25s 5	3s 0	18n31	1n47	22n26	0s46	3s 9	0n14	9n48	1s22	17n37	0n42	22s48	0s 4	22s 2	0n57	15n22	7s59	13n 6	13n 4	12n 5	15s38	7n14



## ASTRODIENST EPHEMERIS for the year 2153

geocentric

AUGUST 2153

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 39 25	9♎ 5'22	25♊16	15♎18	8♏58	9♎ 5	28♊57	13♎ 1	16°R32	10°R47	25♊41	4°R41	4♎38	2♎28	12°R24	W 1
T 2	20 43 22	10° 2'44	9♎ 7	17°18	10°10	9°41	29° 0	13° 8	16°R31	10°R46	25°42	4♎33	4°35	2°34	12°R20	T 2
F 3	20 47 18	11° 0'07	22°47	19°16	11°22	10°17	29° 4	13°16	16°30	10°45	25°43	4°23	4°32	2°41	12°17	F 3
S 4	20 51 15	11°57'30	6♎15	21°13	12°33	10°54	29° 6	13°24	16°29	10°43	25°44	4°11	4°28	2°48	12°14	S 4
S 5	20 55 11	12°54'53	19°28	23° 8	13°45	11°30	29° 9	13°32	16°28	10°42	25°45	3°58	4°25	2°54	12°11	S 5
M 6	20 59 8	13°52'18	2♎24	25° 2	14°57	12° 7	29°12	13°39	16°27	10°41	25°46	3°47	4°22	3° 1	12° 8	M 6
T 7	21 3 5	14°49'44	15° 2	26°54	16° 9	12°43	29°14	13°47	16°26	10°39	25°47	3°37	4°19	3° 7	12° 5	T 7
W 8	21 7 1	15°47'11	27°23	28°45	17°21	13°20	29°16	13°55	16°25	10°38	25°48	3°30	4°16	3°14	12° 3	W 8
T 9	21 10 58	16°44'39	9♊30	0♎34	18°34	13°57	29°19	14° 2	16°24	10°37	25°49	3°26	4°13	3°21	12° 0	T 9
F 10	21 14 54	17°42'08	21°26	2°21	19°46	14°34	29°20	14°10	16°24	10°36	25°50	3°23	4° 9	3°27	11°57	F 10
S 11	21 18 51	18°39'38	3♎16	4° 7	20°58	15°11	29°22	14°18	16°23	10°34	25°51	3°D23	4° 6	3°34	11°54	S 11
S 12	21 22 47	19°37'10	15° 4	5°51	22°10	15°48	29°23	14°26	16°22	10°33	25°52	3°R23	4° 3	3°41	11°52	S 12
M13	21 26 44	20°34'43	26°56	7°33	23°23	16°25	29°25	14°33	16°21	10°32	25°53	3°23	4° 0	3°47	11°49	M13
T 14	21 30 40	21°32'18	8♊58	9°15	24°35	17° 2	29°26	14°41	16°21	10°31	25°54	3°21	3°57	3°54	11°47	T 14
W15	21 34 37	22°29'54	21°14	10°54	25°48	17°40	29°27	14°49	16°20	10°30	25°55	3°18	3°53	4° 1	11°44	W15
T 16	21 38 34	23°27'31	3♎49	12°32	27° 0	18°17	29°27	14°56	16°20	10°29	25°56	3°12	3°50	4° 7	11°42	T 16
F 17	21 42 30	24°25'10	16°46	14° 9	28°13	18°55	29°28	15° 4	16°19	10°28	25°56	3° 4	3°47	4°14	11°39	F 17
S 18	21 46 27	25°22'50	0♎ 6	15°44	29°25	19°32	29°28	15°12	16°19	10°27	25°57	2°54	3°44	4°21	11°37	S 18
S 19	21 50 23	26°20'32	13°49	17°17	0♎38	20°10	29°R28	15°19	16°19	10°26	25°58	2°44	3°41	4°27	11°35	S 19
M20	21 54 20	27°18'15	27°51	18°49	1°51	20°48	29°28	15°27	16°18	10°25	25°59	2°33	3°38	4°34	11°33	M20
T 21	21 58 16	28°15'59	12♎ 9	20°20	3° 4	21°26	29°28	15°35	16°18	10°24	26° 0	2°24	3°34	4°41	11°31	T 21
W22	22 2 13	29°13'44	26°35	21°49	4°16	22° 4	29°27	15°42	16°18	10°23	26° 0	2°18	3°31	4°47	11°29	W22
T 23	22 6 9	0♎11'31	11♎ 5	23°17	5°29	22°42	29°26	15°50	16°18	10°22	26° 1	2°14	3°28	4°54	11°27	T 23
F 24	22 10 16	1° 9'18	25°33	24°42	6°42	23°20	29°25	15°57	16°18	10°21	26° 2	2°D12	3°25	5° 0	11°25	F 24
S 25	22 14 3	2° 7'07	9♎55	26° 7	7°55	23°59	29°24	16° 5	16°D18	10°20	26° 2	2°12	3°22	5° 7	11°23	S 25
S 26	22 17 59	3° 4'57	24° 7	27°30	9° 8	24°37	29°23	16°12	16°18	10°19	26° 3	2°13	3°18	5°14	11°22	S 26
M27	22 21 56	4° 2'49	8♊10	28°51	10°21	25°16	29°21	16°20	16°18	10°18	26° 4	2°R13	3°15	5°20	11°20	M27
T 28	22 25 52	5° 0'41	22° 1	0♎10	11°34	25°54	29°19	16°27	16°18	10°18	26° 4	2°11	3°12	5°27	11°19	T 28
W29	22 29 49	5°58'35	5♎42	1°28	12°48	26°33	29°18	16°35	16°18	10°17	26° 5	2° 8	3° 9	5°34	11°17	W29
T 30	22 33 45	6°56'30	19°11	2°44	14° 1	27°12	29°15	16°42	16°18	10°16	26° 5	2° 2	3° 6	5°40	11°16	T 30
F 31	22 37 42	7♎54'26	2♎28	3♎59	15♎14	27♎50	29°Y13	16♎50	16♎19	10♎16	26♎ 6	1♎55	3♎ 3	5♎47	11♎14	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	17n58	27s13	3s53	17n56	1n47	22n24	0s43	3s24	0n13	9n49	1s22	17n35	0n43	22s48	0s 4	22s 2
T 2	17 43	27 38	4 32	17 19	1 46	22 22	0 40	3 39	0 12	9 50	1 22	17 32	0 43	22 48	0 4	22 2
F 3	17 27	26 20	4 55	16 41	1 45	22 19	0 37	3 54	0 11	9 51	1 23	17 30	0 43	22 48	0 4	22 2
S 4	17 12	23 32	5 0	16 3	1 43	22 16	0 34	4 9	0 10	9 51	1 23	17 28	0 43	22 48	0 4	22 2
S 5	16 55	19 33	4 50	15 23	1 41	22 11	0 31	4 24	0 10	9 52	1 23	17 26	0 43	22 48	0 4	22 3
M 6	16 39	14 43	4 24	14 42	1 38	22 7	0 29	4 39	0 9	9 53	1 23	17 24	0 43	22 48	0 4	22 3
T 7	16 22	9 22	3 47	14 1	1 34	22 1	0 26	4 54	0 8	9 54	1 24	17 22	0 43	22 47	0 4	22 3
W 8	16 6	3 46	2 59	13 19	1 30	21 55	0 23	5 9	0 7	9 54	1 24	17 20	0 43	22 47	0 4	22 3
T 9	15 48	1n53	2 3	12 36	1 26	21 49	0 20	5 24	0 6	9 55	1 24	17 17	0 43	22 47	0 4	22 3
F 10	15 31	7 23	1 3	11 53	1 21	21 41	0 17	5 39	0 5	9 55	1 24	17 15	0 43	22 47	0 4	22 3
S 11	15 13	12 35	0 1	11 10	1 16	21 33	0 14	5 54	0 5	9 55	1 25	17 13	0 43	22 47	0 4	22 3
S 12	14 55	17 20	1n 2	10 27	1 10	21 25	0 11	6 9	0 4	9 56	1 25	17 11	0 43	22 47	0 4	22 3
M13	14 37	21 26	2 2	9 43	1 4	21 16	0 8	6 24	0 3	9 56	1 25	17 9	0 43	22 47	0 4	22 4
T 14	14 19	24 42	2 57	8 59	0 58	21 6	0 5	6 39	0 2	9 56	1 25	17 7	0 44	22 47	0 4	22 4
W15	14 0	26 53	3 46	8 16	0 51	20 56	0 3	6 54	0 1	9 56	1 26	17 5	0 44	22 47	0 4	22 4
T 16	13 41	27 46	4 25	7 32	0 44	20 45	0n 0	7 9	0 0	9 56	1 26	17 2	0 44	22 47	0 4	22 4
F 17	13 22	27 11	4 51	6 48	0 37	20 33	0 3	7 24	0s 0	9 56	1 26	17 0	0 44	22 47	0 4	22 4
S 18	13 3	25 2	5 3	6 4	0 29	20 21	0 6	7 39	0 1	9 56	1 26	16 58	0 44	22 47	0 4	22 4
S 19	12 44	21 25	4 57	5 21	0 22	20 8	0 9	7 54	0 2	9 55	1 27	16 56	0 44	22 47	0 4	22 4
M20	12 24	16 30	4 34	4 38	0 14	19 55	0 11	8 9	0 3	9 55	1 27	16 54	0 44	22 47	0 4	22 4
T 21	12 4	10 36	3 54	3 55	0 6	19 41	0 14	8 24	0 3	9 55	1 27	16 52	0 44	22 47	0 4	22 4
W22	11 44	4 5	2 58	3 12	0s 3	19 27	0 17	8 39	0 4	9 54	1 27	16 49	0 44	22 47	0 4	22 5
T 23	11 24	2s42	1 50	2 30	0 11	19 12	0 19	8 54	0 5	9 54	1 28	16 47	0 44	22 47	0 4	22 5
F 24	11 3	9 19	0 35	1 48	0 20	18 56	0 22	9 9	0 6	9 53	1 28	16 45	0 45	22 47	0 4	22 5
S 25	10 43	15 26	0s41	1 6	0 28	18 40	0 25	9 24	0 6	9 53	1 28	16 43	0 45	22 47	0 4	22 5
S 26	10 22	20 38	1 55	0 26	0 37	18 24	0 27	9 39	0 7	9 52	1 28	16 41	0 45	22 47	0 4	22 5
M27	10 1	24 37	3 0	0s15	0 46	18 7	0 30	9 53	0 8	9 51	1 29	16 39	0 45	22 47	0 4	22 5
T 28	9 40	27 5	3 54	0 55	0 55	17 49	0 32	10 8	0 9	9 50	1 29	16 36	0 45	22 47	0 4	22 5
W29	9 19	27 52	4 34	1 34	1 4	17 31	0 35	10 23	0 9	9 50	1 29	16 34	0 45	22 47	0 4	22 5
T 30	8 57	26 58	4 58	2 13	1 14	17 12	0 37	10 37	0 10	9 49	1 29	16 32	0 45	22 47	0 4	22 5
F 31	8n36	24s33	5s 6	2s51	1s23	16n53	0n39	10s52	0s11	9n48	1s30	16n30	0n45	22s47	0s 4	22s 5

Julian Day Number = 2507639.5, Delta T = 124.15 sec

Ecliptic obliquity = 23°25'17, Nutation = - 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°53'11, Lahiri = 26°00'11

ASTRODIENST EPHEMERIS for the year 2153  
geocentric

SEPTEMBER 2153

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 41 38	8♍52'24	15♋33	5♊11	16♏27	28♊29	29°R11	16♏57	16♊19	10°R15	26♏7	1°R46	2♋59	5♋54	11°R13	S 1
S 2	22 45 35	9°50'23	28°24	6°21	17°41	29° 8	29°Y 8	17° 4	16°19	10♋14	26° 7	1♋36	2°56	6° 0	11♋12	S 2
M 3	22 49 32	10°48'23	11♋2	7°30	18°54	29°47	29° 5	17°12	16°20	10°14	26° 8	1°28	2°53	6° 7	11°11	M 3
T 4	22 53 28	11°46'25	23°26	8°36	20° 8	0♏26	29° 2	17°19	16°20	10°13	26° 8	1°21	2°50	6°14	11°10	T 4
W 5	22 57 25	12°44'29	5°Y38	9°40	21°21	1° 6	28°59	17°26	16°21	10°13	26° 9	1°15	2°47	6°20	11° 9	W 5
T 6	23 1 121	13°42'35	17°39	10°42	22°35	1°45	28°55	17°33	16°21	10°12	26° 9	1°12	2°44	6°27	11° 8	T 6
F 7	23 5 18	14°40'42	29°32	11°41	23°48	2°24	28°51	17°41	16°22	10°12	26° 9	1°D11	2°40	6°33	11° 7	F 7
S 8	23 9 14	15°38'51	11♋20	12°37	25° 2	3° 4	28°48	17°48	16°23	10°11	26°10	1°12	2°37	6°40	11° 7	S 8
S 9	23 13 11	16°37'03	23° 7	13°31	26°15	3°43	28°44	17°55	16°23	10°11	26°10	1°13	2°34	6°47	11° 6	S 9
M10	23 17 7	17°35'16	4♏59	14°21	27°29	4°23	28°39	18° 2	16°24	10°10	26°11	1°14	2°31	6°53	11° 6	M10
T 11	23 21 4	18°33'31	17° 0	15° 9	28°43	5° 3	28°35	18° 9	16°25	10°10	26°11	1°R15	2°28	7° 0	11° 5	T 11
W12	23 25 1	19°31'49	29°15	15°53	29°57	5°43	28°30	18°16	16°26	10°10	26°11	1°15	2°24	7° 7	11° 5	W12
T 13	23 28 57	20°30'08	11♋49	16°33	1♏11	6°22	28°26	18°23	16°27	10° 9	26°11	1°12	2°21	7°13	11° 5	T 13
F 14	23 32 54	21°28'30	24°46	17° 9	2°25	7° 2	28°21	18°30	16°28	10° 9	26°12	1° 9	2°18	7°20	11° 4	F 14
S 15	23 36 50	22°26'53	8♏10	17°41	3°39	7°42	28°16	18°37	16°29	10° 9	26°12	1° 3	2°15	7°27	11° 4	S 15
S 16	23 40 47	23°25'19	21°59	18° 9	4°52	8°23	28°10	18°44	16°30	10° 9	26°12	0°58	2°12	7°33	11°D 4	S 16
M17	23 44 43	24°23'46	6♏14	18°31	6° 7	9° 3	28° 5	18°50	16°31	10° 8	26°12	0°52	2° 9	7°40	11° 4	M17
T 18	23 48 40	25°22'16	20°48	18°49	7°21	9°43	27°59	18°57	16°32	10° 8	26°13	0°47	2° 5	7°47	11° 5	T 18
W19	23 52 36	26°20'47	5♊36	19° 1	8°35	10°24	27°54	19° 4	16°34	10° 8	26°13	0°43	2° 2	7°53	11° 5	W19
T 20	23 56 33	27°19'20	20°29	19°R 6	9°49	11° 4	27°48	19°11	16°35	10° 8	26°13	0°41	1°59	8° 0	11° 5	T 20
F 21	0 0 29	28°17'55	5♏21	19° 6	11° 3	11°45	27°42	19°17	16°36	10° 8	26°13	0°D41	1°56	8° 6	11° 6	F 21
S 22	0 4 26	29°16'32	20° 3	18°59	12°17	12°25	27°36	19°24	16°38	10°D 8	26°13	0°42	1°53	8°13	11° 6	S 22
S 23	0 8 23	0♊15'10	4♊31	18°45	13°31	13° 6	27°29	19°30	16°39	10° 8	26°13	0°43	1°50	8°20	11° 7	S 23
M24	0 12 19	1°13'50	18°42	18°24	14°46	13°47	27°23	19°37	16°41	10° 8	26°13	0°45	1°46	8°26	11° 7	M24
T 25	0 16 16	2°12'32	2♋35	17°56	16° 0	14°28	27°16	19°43	16°42	10° 8	26°13	0°R45	1°43	8°33	11° 8	T 25
W26	0 20 12	3°11'16	16° 9	17°21	17°14	15° 8	27°10	19°49	16°44	10° 8	26°R13	0°45	1°40	8°40	11° 9	W26
T 27	0 24 9	4°10'01	29°25	16°39	18°29	15°49	27° 3	19°56	16°45	10° 9	26°13	0°43	1°37	8°46	11°10	T 27
F 28	0 28 5	5° 8'48	12♋25	15°50	19°43	16°31	26°56	20° 2	16°47	10° 9	26°13	0°40	1°34	8°53	11°11	F 28
S 29	0 32 2	6° 7'36	25°10	14°55	20°58	17°12	26°49	20° 8	16°49	10° 9	26°13	0°36	1°30	9° 0	11°12	S 29
S 30	0 35 59	7♊6'26	7♋43	13♊55	22♏12	17♏53	26°Y42	20♏14	16♊51	10♋9	26♏13	0♋32	1♋27	9♋6	11♋13	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n14	20s53	4s57	3s28	1s32	16n33	0n42	11s 7	0s12	9n46	1s30	16n28	0n45	22s47	0s 4	22s 6	0n56	15n19	8s 3	12n 5	12n30	13n43	15s56	7n 2			
S 2	7 52	16 18	4 34	4 4	1 41	16 13	0 44	11 21	0 12	9 45	1 30	16 26	0 45	22 47	0 4	22 6	0 56	15 19	8 3	12 1	12 29	13 46	15 57	7 2			
M 3	7 31	11 4	3 57	4 40	1 50	15 53	0 46	11 36	0 13	9 44	1 30	16 24	0 46	22 47	0 4	22 6	0 56	15 19	8 3	11 58	12 28	13 49	15 57	7 1			
T 4	7 9	5 30	3 9	5 14	1 59	15 32	0 48	11 50	0 14	9 43	1 30	16 22	0 46	22 47	0 4	22 6	0 56	15 19	8 3	11 56	12 27	13 52	15 58	7 1			
W 5	6 46	0n12	2 14	5 48	2 9	15 10	0 51	12 4	0 15	9 41	1 31	16 19	0 46	22 47	0 4	22 6	0 56	15 19	8 3	11 54	12 26	13 55	15 58	7 0			
T 6	6 24	5 48	1 13	6 20	2 18	14 49	0 53	12 19	0 15	9 40	1 31	16 17	0 46	22 47	0 4	22 6	0 56	15 19	8 3	11 53	12 25	13 59	15 59	7 0			
F 7	6 2	11 10	0 9	6 52	2 26	14 26	0 55	12 33	0 16	9 38	1 31	16 15	0 46	22 47	0 4	22 6	0 56	15 19	8 3	11 53	12 23	14 2	15 59	6 59			
S 8	5 39	16 5	0n55	7 22	2 35	14 4	0 57	12 47	0 17	9 37	1 31	16 13	0 46	22 47	0 4	22 6	0 56	15 19	8 3	11 53	12 22	14 5	16 0	6 59			
S 9	5 17	20 25	1 56	7 51	2 44	13 40	0 59	13 1	0 17	9 35	1 31	16 11	0 46	22 47	0 4	22 6	0 56	15 19	8 4	11 53	12 21	14 8	16 1	6 58			
M10	4 54	23 57	2 53	8 18	2 52	13 17	1 1	13 15	0 18	9 34	1 32	16 9	0 46	22 47	0 4	22 6	0 56	15 18	8 4	11 54	12 20	14 11	16 1	6 58			
T 11	4 31	26 29	3 43	8 44	3 0	12 53	1 2	13 29	0 19	9 32	1 32	16 7	0 47	22 48	0 4	22 6	0 56	15 18	8 4	11 54	12 19	14 14	16 2	6 57			
W12	4 9	27 49	4 24	9 8	3 8	12 29	1 4	13 43	0 19	9 30	1 32	16 5	0 47	22 48	0 4	22 6	0 56	15 18	8 4	11 54	12 18	14 17	16 2	6 57			
T 13	3 46	27 46	4 53	9 31	3 16	12 4	1 6	13 57	0 20	9 28	1 32	16 3	0 47	22 48	0 4	22 6	0 56	15 18	8 4	11 53	12 17	14 20	16 3	6 56			
F 14	3 23	26 13	5 9	9 51	3 23	11 39	1 7	14 11	0 21	9 26	1 32	16 1	0 47	22 48	0 4	22 6	0 56	15 18	8 4	11 52	12 16	14 23	16 3	6 56			
S 15	3 0	23 10	5 8	10 10	3 30	11 14	1 9	14 24	0 21	9 24	1 33	15 59	0 47	22 48	0 4	22 7	0 56	15 18	8 4	11 50	12 15	14 26	16 4	6 55			
S 16	2 37	18 45	4 50	10 26	3 36	10 49	1 11	14 38	0 22	9 22	1 33	15 57	0 47	22 48	0 4	22 7	0 56	15 18	8 5	11 48	12 14	14 29	16 4	6 55			
M17	2 13	13 9	4 14	10 40	3 41	10 23	1 12	14 52	0 23	9 20	1 33	15 55	0 47	22 48	0 4	22 7	0 56	15 18	8 5	11 46	12 13	14 32	16 5	6 54			
T 18	1 50	6 43	3 21	10 51	3 46	9 57	1 14	15 5	0 23	9 18	1 33	15 53	0 47	22 48	0 4	22 7	0 56	15 17	8 5	11 44	12 11	14 35	16 5	6 54			
W19	1 27	0s11	2 13	11 0	3 51	9 30	1 15	15 18	0 24	9 16	1 33	15 51	0 48	22 48	0 4	22 7	0 56	15 17	8 5	11 43	12 10	14 38	16 6	6 53			
T 20	1 4	7 8	0 56	11 5	3 54	9 4	1 16	15 32	0 25	9 14	1 33	15 49	0 48	22 49	0 4	22 7	0 55	15 17	8 5	11 42	12 9	14 41	16 6	6 53			
F 21	0 41	13 42	0s26	11 7	3 56	8 37	1 17	15 45	0 25	9 11	1 34	15 47	0 48	22 49	0 4	22 7	0 55	15 17	8 5	11 42	12 8	14 44	16 7	6 52			
S 22	0 17	19 25	1 44	11 5	3 58	8 9	1 19	15 58	0 26	9 9	1 34	15 45	0 48	22 49	0 4	22 7	0 55	15 17	8 5	11 43	12 7	14 47	16 7	6 51			
S 23	0s 6	23 54	2 55	11 0	3 58	7 42	1 20	16 11	0 27	9 7	1 34	15 43	0 48	22 49	0 4	22 7	0 55	15 17	8 5	11 43	12 6	14 49	16 8	6 51			
M24	0 29	26 49	3 53	10 51	3 56	7 14	1 21	16 24	0 27	9 4	1 34	15 41	0 48	22 49	0 4	22 7	0 55	15 17	8 6	11 43	12 5	14 52	16 8	6 50			
T 25	0 53	28 1	4 37	10 38	3 53	6 46	1 22	16 36	0 28	9 2	1 34	15 39	0 48	22 49	0 4	22 7	0 55	15 16	8 6	11 44	12 4	14 55	16 9	6 50			
W26	1 16	27 28	5 4	10 20	3 49	6 18	1 23	16 49	0 28	8 59	1 34	15 38	0 48	22 50	0 4	22 7	0 55	15 16	8 6	11 43	12 3	14 58	16 9	6 49			
T 27	1 39	25 22	5 14	9 58	3 43	5 50	1 23	17 2	0 29	8 57	1 34	15 36	0 49	22 50	0 4	22 7	0 55	15 16	8 6	11 43	12 2	15 1	16 10	6 49			
F 28	2 3	21 59	5 7	9 32	3 35	5 21	1 24	17 14	0 30	8 54	1 34	15 34	0 49	22 50	0 4	22 7	0 55	15 16	8 6	11 42	12 0	15 4	16 10	6 48			
S 29	2 26	17 36	4 46	9 1	3 25	4 53	1 25	17 26	0 30	8 52	1 35	15 32	0 49	22 50	0 4	22 7	0 55	15 16	8 6	11 40	11 59	15 7	16 11	6 48			
S 30	2s49	12s33	4s11	8s27	3s13	4n24	1n25	17s39	0s31	8n49	1s35	15n30	0n49	22s50	0s 4	22s 7	0n55	15n16	8s 6	11n39	11n58	15n10	16s11	6n47			

ASTRODIENST EPHEMERIS for the year 2153  
geocentric

OCTOBER 2153

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 39 55	8♌ 5'18	20♋ 3	12°R51	23♏27	18♌34	26°R35	20♏20	16♌52	10♋10	26°R13	0°R28	1♌24	9♌13	11♋14	M 1
T 2	0 43 52	9° 4'12	2♏13	11♌44	24°41	19°16	26♏27	20°26	16°54	10°10	26♏13	0♌25	1°21	9°20	11°15	T 2
W 3	0 47 48	10° 3'08	14°14	10°36	25°56	19°57	26°20	20°32	16°56	10°10	26°13	0°24	1°18	9°26	11°17	W 3
T 4	0 51 45	11° 2'06	26° 8	9°28	27°10	20°39	26°12	20°38	16°58	10°11	26°13	0°D23	1°15	9°33	11°18	T 4
F 5	0 55 41	12° 1'06	7♌58	8°23	28°25	21°20	26° 5	20°44	17° 0	10°11	26°12	0°23	1°11	9°40	11°20	F 5
S 6	0 59 38	13° 0'08	19°45	7°22	29°40	22° 2	25°57	20°50	17° 2	10°12	26°12	0°24	1° 8	9°46	11°22	S 6
S 7	1 3 34	13°59'13	1♏32	6°27	0♌54	22°44	25°49	20°55	17° 4	10°12	26°12	0°25	1° 5	9°53	11°23	S 7
M 8	1 7 31	14°58'20	13°25	5°39	2° 9	23°26	25°41	21° 1	17° 6	10°13	26°12	0°26	1° 2	9°59	11°25	M 8
T 9	1 11 27	15°57'29	25°25	5° 0	3°24	24° 7	25°34	21° 6	17° 8	10°13	26°11	0°28	0°59	10° 6	11°27	T 9
W10	1 15 24	16°56'40	7♌39	4°31	4°38	24°49	25°26	21°12	17°11	10°14	26°11	0°29	0°55	10°13	11°29	W10
T 11	1 19 21	17°55'54	20°10	4°12	5°53	25°32	25°18	21°17	17°13	10°14	26°11	0°R29	0°52	10°19	11°31	T 11
F 12	1 23 17	18°55'10	3♏ 3	4°D 4	7° 8	26°14	25°10	21°23	17°15	10°15	26°10	0°28	0°49	10°26	11°33	F 12
S 13	1 27 14	19°54'28	16°20	4° 6	8°23	26°56	25° 2	21°28	17°18	10°16	26°10	0°27	0°46	10°33	11°35	S 13
S 14	1 31 10	20°53'48	0♏ 5	4°20	9°38	27°38	24°54	21°33	17°20	10°16	26°10	0°26	0°43	10°39	11°37	S 14
M15	1 35 7	21°53'11	14°17	4°43	10°53	28°21	24°46	21°38	17°22	10°17	26° 9	0°25	0°40	10°46	11°40	M15
T 16	1 39 3	22°52'36	28°53	5°16	12° 8	29° 3	24°37	21°43	17°25	10°18	26° 9	0°24	0°36	10°53	11°42	T 16
W17	1 43 0	23°52'03	13♌49	5°59	13°23	29°45	24°29	21°48	17°27	10°19	26° 8	0°24	0°33	10°59	11°45	W17
T 18	1 46 56	24°51'32	28°57	6°49	14°38	0♌28	24°21	21°53	17°30	10°20	26° 8	0°D24	0°30	11° 6	11°47	T 18
F 19	1 50 53	25°51'03	14♌ 6	7°48	15°53	1°11	24°13	21°58	17°32	10°21	26° 7	0°24	0°27	11°13	11°50	F 19
S 20	1 54 50	26°50'36	29° 9	8°52	17° 8	1°53	24° 5	22° 2	17°35	10°21	26° 7	0°24	0°24	11°19	11°53	S 20
S 21	1 58 46	27°50'11	13♌57	10° 3	18°23	2°36	23°57	22° 7	17°38	10°22	26° 6	0°24	0°21	11°26	11°55	S 21
M22	2 2 43	28°49'48	28°24	11°19	19°38	3°19	23°49	22°11	17°40	10°23	26° 6	0°24	0°17	11°33	11°58	M22
T 23	2 6 39	29°49'27	12♌27	12°40	20°53	4° 2	23°41	22°16	17°43	10°24	26° 5	0°25	0°14	11°39	12° 1	T 23
W24	2 10 36	0♏49'07	26° 5	14° 4	22° 8	4°45	23°33	22°20	17°46	10°25	26° 5	0°25	0°11	11°46	12° 4	W24
T 25	2 14 32	1°48'49	9♌19	15°32	23°23	5°28	23°25	22°24	17°49	10°27	26° 4	0°25	0° 8	11°52	12° 7	T 25
F 26	2 18 29	2°48'33	22°12	17° 2	24°38	6°11	23°17	22°29	17°51	10°28	26° 4	0°25	0° 5	11°59	12°11	F 26
S 27	2 22 25	3°48'18	4♌46	18°34	25°53	6°55	23° 9	22°33	17°54	10°29	26° 3	0°25	0° 1	12° 6	12°14	S 27
S 28	2 26 22	4°48'05	17° 5	20° 8	27° 8	7°38	23° 1	22°37	17°57	10°30	26° 2	0°25	29♏58	12°12	12°17	S 28
M29	2 30 19	5°47'53	29°12	21°44	28°23	8°21	22°54	22°44	18° 0	10°31	26° 2	0°26	29°55	12°19	12°20	M29
T 30	2 34 15	6°47'44	11♏11	23°21	29°39	9° 5	22°46	22°41	18° 3	10°32	26° 1	0°26	29°52	12°26	12°24	T 30
W31	2 38 12	7♏47'36	23♏ 3	24♌58	0♏54	9♌48	22♏38	22♏48	18♌ 6	10♋34	26♏ 0	0♌27	29♏49	12♌32	12♌27	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	3s12	7s 4	3s24	7s49	2s59	3n55	1n26	17s51	0s31	8n46	1s35	15n28	0n49	22s50	0s 4	22s 7
T 2	3 36	1 24	2 29	7 9	2 44	3 26	1 27	18 3	0 32	8 44	1 35	15 27	0 49	22 51	0 4	22 7
W 3	3 59	4n15	1 28	6 27	2 27	2 57	1 27	18 14	0 33	8 41	1 35	15 25	0 50	22 51	0 4	22 7
T 4	4 22	9 43	0 23	5 43	2 8	2 28	1 27	18 26	0 33	8 38	1 35	15 23	0 50	22 51	0 4	22 7
F 5	4 45	14 49	0n42	5 0	1 49	1 58	1 28	18 38	0 34	8 35	1 35	15 22	0 50	22 51	0 4	22 7
S 6	5 8	19 21	1 45	4 17	1 29	1 29	1 28	18 49	0 34	8 32	1 35	15 20	0 50	22 51	0 4	22 7
S 7	5 31	23 8	2 44	3 36	1 8	0 59	1 28	19 0	0 35	8 30	1 35	15 18	0 50	22 52	0 4	22 7
M 8	5 54	25 58	3 36	2 59	0 48	0 30	1 28	19 11	0 36	8 27	1 35	15 17	0 50	22 52	0 4	22 7
T 9	6 16	27 40	4 20	2 25	0 28	0s 0	1 28	19 22	0 36	8 24	1 35	15 15	0 50	22 52	0 4	22 7
W10	6 39	28 4	4 53	1 55	0 8	0 30	1 28	19 33	0 37	8 21	1 35	15 13	0 51	22 52	0 4	22 7
T 11	7 2	27 3	5 12	1 31	0n10	0 59	1 28	19 44	0 37	8 18	1 35	15 12	0 51	22 52	0 4	22 7
F 12	7 24	24 36	5 17	1 12	0 27	1 29	1 28	19 54	0 38	8 15	1 35	15 10	0 51	22 53	0 4	22 7
S 13	7 47	20 46	5 5	0 58	0 43	1 59	1 28	20 5	0 38	8 12	1 35	15 9	0 51	22 53	0 4	22 7
S 14	8 9	15 44	4 36	0 50	0 58	2 29	1 27	20 15	0 39	8 9	1 35	15 7	0 51	22 53	0 4	22 7
M15	8 31	9 42	3 49	0 47	1 11	2 58	1 27	20 25	0 39	8 6	1 35	15 6	0 51	22 53	0 4	22 7
T 16	8 53	2 59	2 46	0 50	1 22	3 28	1 26	20 35	0 40	8 3	1 35	15 4	0 52	22 54	0 4	22 7
W17	9 15	4s 3	1 31	0 58	1 32	3 57	1 26	20 45	0 41	8 1	1 35	15 3	0 52	22 54	0 4	22 7
T 18	9 37	10 58	0 8	1 10	1 41	4 27	1 25	20 54	0 41	7 58	1 35	15 1	0 52	22 54	0 4	22 7
F 19	9 59	17 16	1s16	1 27	1 48	4 56	1 25	21 4	0 42	7 55	1 35	15 0	0 52	22 54	0 4	22 7
S 20	10 20	22 27	2 33	1 47	1 53	5 26	1 24	21 13	0 42	7 52	1 35	14 59	0 52	22 55	0 4	22 7
S 21	10 42	26 5	3 39	2 11	1 57	5 55	1 23	21 22	0 43	7 49	1 35	14 57	0 52	22 55	0 4	22 7
M22	11 3	27 55	4 30	2 38	2 1	6 24	1 22	21 31	0 43	7 46	1 35	14 56	0 53	22 55	0 4	22 7
T 23	11 24	27 51	5 3	3 7	2 3	6 53	1 22	21 39	0 44	7 43	1 35	14 55	0 53	22 55	0 4	22 7
W24	11 45	26 6	5 17	3 39	2 4	7 22	1 21	21 48	0 44	7 40	1 35	14 53	0 53	22 56	0 4	22 7
T 25	12 6	22 57	5 14	4 12	2 4	7 51	1 20	21 56	0 45	7 37	1 35	14 52	0 53	22 56	0 4	22 7
F 26	12 26	18 45	4 55	4 48	2 3	8 19	1 19	22 4	0 45	7 35	1 34	14 51	0 53	22 56	0 4	22 7
S 27	12 47	13 50	4 23	5 24	2 1	8 47	1 17	22 12	0 46	7 32	1 34	14 50	0 53	22 56	0 4	22 7
S 28	13 7	8 27	3 38	6 2	1 59	9 16	1 16	22 19	0 46	7 29	1 34	14 49	0 54	22 57	0 4	22 7
M29	13 27	2 51	2 45	6 40	1 56	9 44	1 15	22 27	0 47	7 26	1 34	14 48	0 54	22 57	0 4	22 7
T 30	13 46	2n48	1 45	7 19	1 52	10 11	1 14	22 34	0 47	7 24	1 34	14 46	0 54	22 57	0 4	22 6
W31	14s 6	8n19	0s41	7s59	1n48	10s39	1n12	22s41	0s47	7n21	1s34	14n45	0n54	22s57	0s 4	22s 6

Julian Day Number = 2507700.5, Delta T = 124.27 sec  
Ecliptic obliquity = 23°25'18, Nutation = - 0°00'09, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°53'19, Lahiri = 26°00'20

ASTRODIENST EPHEMERIS for the year 2153  
geocentric

NOVEMBER 2153

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 42 8	8♍47'30	4♌52	26♊36	2♈9	10♏32	22°R31	22♏52	18♏9	10♏35	25°R59	0°R27	29°Y46	12♏39	12♏31	T 1
F 2	2 46 5	9°47'26	16°40	28°15	3°24	11°15	22°Y24	22°55	18°12	10°36	25°I59	0♌26	29°42	12°46	12°35	F 2
S 3	2 50 1	10°47'24	28°29	29°54	4°39	11°59	22°16	22°59	18°15	10°37	25°58	0°26	29°39	12°52	12°38	S 3
S 4	2 53 58	11°47'24	10♐21	1♈33	5°55	12°43	22°9	23°2	18°18	10°39	25°57	0°24	29°36	12°59	12°42	S 4
M 5	2 57 54	12°47'26	22°18	3°12	7°10	13°26	22°2	23°5	18°21	10°40	25°56	0°22	29°33	13°6	12°46	M 5
T 6	3 1 51	13°47'30	4♌23	4°51	8°25	14°10	21°55	23°9	18°25	10°42	25°55	0°20	29°30	13°12	12°50	T 6
W 7	3 5 48	14°47'36	16°40	6°30	9°40	14°54	21°48	23°12	18°28	10°43	25°55	0°18	29°27	13°19	12°54	W 7
T 8	3 9 44	15°47'44	29°11	8°9	10°56	15°38	21°41	23°15	18°31	10°45	25°54	0°17	29°23	13°26	12°58	T 8
F 9	3 13 41	16°47'54	11♏59	9°48	12°11	16°22	21°35	23°17	18°34	10°46	25°53	0°D16	29°20	13°32	13°2	F 9
S 10	3 17 37	17°48'06	25°9	11°26	13°26	17°7	21°28	23°20	18°37	10°48	25°52	0°16	29°17	13°39	13°6	S 10
S 11	3 21 34	18°48'20	8♍43	13°4	14°42	17°51	21°22	23°23	18°41	10°49	25°51	0°17	29°14	13°45	13°10	S 11
M12	3 25 30	19°48'36	22°42	14°42	15°57	18°35	21°16	23°25	18°44	10°51	25°50	0°19	29°11	13°52	13°14	M12
T 13	3 29 27	20°48'55	7♌6	16°19	17°12	19°19	21°10	23°28	18°47	10°52	25°49	0°20	29°7	13°59	13°18	T 13
W14	3 33 23	21°49'15	21°53	17°57	18°28	20°4	21°4	23°30	18°51	10°54	25°48	0°21	29°4	14°5	13°23	W14
T 15	3 37 20	22°49'37	6♈57	19°34	19°43	20°48	20°58	23°32	18°54	10°56	25°47	0°R21	29°1	14°12	13°27	T 15
F 16	3 41 17	23°50'00	22°9	21°10	20°58	21°33	20°52	23°34	18°58	10°57	25°47	0°20	28°58	14°19	13°32	F 16
S 17	3 45 13	24°50'26	7♏21	22°47	22°14	22°17	20°47	23°36	19°1	10°59	25°46	0°17	28°55	14°25	13°36	S 17
S 18	3 49 10	25°50'53	22°23	24°23	23°29	23°2	20°42	23°38	19°4	11°1	25°45	0°14	28°52	14°32	13°41	S 18
M19	3 53 6	26°51'22	7♌5	25°58	24°44	23°47	20°36	23°40	19°8	11°2	25°44	0°10	28°48	14°39	13°45	M19
T 20	3 57 3	27°51'52	21°21	27°34	26°0	24°31	20°32	23°42	19°11	11°4	25°43	0°6	28°45	14°45	13°50	T 20
W21	4 0 59	28°52'23	5♈10	29°9	27°15	25°16	20°27	23°43	19°15	11°6	25°42	0°3	28°42	14°52	13°55	W21
T 22	4 4 56	29°52'55	18°30	0♏44	28°31	26°1	20°22	23°45	19°18	11°8	25°41	0°1	28°39	14°59	13°59	T 22
F 23	4 8 52	0♏53'29	1♌23	2°19	29°46	26°46	20°18	23°46	19°22	11°10	25°39	0°D1	28°36	15°5	14°4	F 23
S 24	4 12 49	1°54'04	13°55	3°53	1♌1	27°31	20°14	23°48	19°25	11°11	25°38	0°1	28°33	15°12	14°9	S 24
S 25	4 16 46	2°54'39	26°9	5°28	2°17	28°16	20°9	23°49	19°29	11°13	25°37	0°3	28°29	15°19	14°14	S 25
M26	4 20 42	3°55'16	8♏9	7°2	3°32	29°1	20°6	23°50	19°32	11°15	25°36	0°5	28°26	15°25	14°19	M26
T 27	4 24 39	4°55'55	20°1	8°36	4°48	29°46	20°2	23°51	19°36	11°17	25°35	0°6	28°23	15°32	14°24	T 27
W28	4 28 35	5°56'34	1♌49	10°10	6°3	0♌32	19°58	23°51	19°40	11°19	25°34	0°R7	28°20	15°39	14°29	W28
T 29	4 32 32	6°57'15	13°36	11°43	7°19	1°17	19°55	23°52	19°43	11°21	25°33	0°6	28°17	15°45	14°34	T 29
F 30	4 36 28	7♏57'57	25♌25	13♏17	8♏34	2♌2	19°Y52	23♏53	19♏47	11♌23	25♌32	0♌3	28°Y13	15♌52	14♌39	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s25	13n31	0n25	8s38	1n44	11s 6	1n11	22s48	0s48	7n18	1s34	14n44	0n54	22s58	0s 4	22s 6	0n54	15n12	8s10	11n37	11n23	16n43	16s20	6n32	
F 2	14 44	18 14	1 29	9 18	1 39	11 33	1 10	22 55	0 48	7 16	1 34	14 43	0 54	22 58	0 4	22 6	0 54	15 12	8 10	11 37	11 22	16 46	16 20	6 31	
S 3	15 3	22 14	2 29	9 58	1 34	12 0	1 8	23 1	0 49	7 13	1 33	14 42	0 55	22 58	0 4	22 6	0 54	15 12	8 10	11 37	11 21	16 49	16 20	6 31	
S 4	15 22	25 20	3 24	10 37	1 29	12 26	1 6	23 7	0 49	7 11	1 33	14 42	0 55	22 59	0 4	22 6	0 54	15 11	8 10	11 36	11 19	16 52	16 20	6 30	
M 5	15 40	27 21	4 9	11 16	1 23	12 52	1 5	23 13	0 50	7 8	1 33	14 41	0 55	22 59	0 4	22 6	0 54	15 11	8 10	11 36	11 18	16 55	16 20	6 30	
T 6	15 58	28 5	4 45	11 55	1 17	13 18	1 3	23 19	0 50	7 6	1 33	14 40	0 55	22 59	0 4	22 6	0 54	15 11	8 11	11 35	11 17	16 57	16 21	6 29	
W 7	16 16	27 28	5 8	12 34	1 11	13 44	1 2	23 24	0 51	7 3	1 33	14 39	0 55	22 59	0 4	22 6	0 54	15 11	8 11	11 34	11 16	17 0	16 21	6 29	
T 8	16 33	25 28	5 16	13 12	1 5	14 9	1 0	23 30	0 51	7 1	1 33	14 38	0 56	23 0	0 4	22 6	0 54	15 11	8 11	11 34	11 15	17 3	16 21	6 29	
F 9	16 51	22 8	5 10	13 49	0 58	14 34	0 58	23 35	0 51	6 59	1 32	14 37	0 56	23 0	0 4	22 6	0 54	15 11	8 11	11 34	11 14	17 6	16 21	6 28	
S 10	17 8	17 38	4 47	14 26	0 52	14 58	0 56	23 39	0 52	6 57	1 32	14 37	0 56	23 0	0 4	22 6	0 54	15 11	8 11	11 34	11 13	17 9	16 21	6 28	
S 11	17 24	12 8	4 8	15 2	0 45	15 22	0 54	23 44	0 52	6 54	1 32	14 36	0 56	23 1	0 4	22 6	0 54	15 11	8 11	11 34	11 12	17 11	16 21	6 27	
M12	17 41	5 51	3 13	15 37	0 38	15 46	0 52	23 48	0 53	6 52	1 32	14 35	0 56	23 1	0 4	22 5	0 53	15 11	8 11	11 34	11 10	17 14	16 21	6 27	
T 13	17 57	0s54	2 5	16 12	0 32	16 9	0 50	23 52	0 53	6 50	1 31	14 35	0 57	23 1	0 4	22 5	0 53	15 11	8 11	11 35	11 9	17 17	16 21	6 27	
W14	18 12	7 48	0 47	16 46	0 25	16 32	0 49	23 56	0 53	6 48	1 31	14 34	0 57	23 1	0 4	22 5	0 53	15 10	8 11	11 35	11 8	17 20	16 20	6 26	
T 15	18 28	14 24	0s36	17 19	0 18	16 54	0 46	24 0	0 54	6 46	1 31	14 34	0 57	23 2	0 4	22 5	0 53	15 10	8 11	11 35	11 7	17 23	16 20	6 26	
F 16	18 43	20 11	1 57	17 51	0 11	17 16	0 44	24 3	0 54	6 44	1 31	14 33	0 57	23 2	0 4	22 5	0 53	15 10	8 11	11 35	11 6	17 25	16 20	6 26	
S 17	18 58	24 39	3 10	18 23	0 4	17 38	0 42	24 6	0 55	6 42	1 31	14 33	0 57	23 2	0 4	22 5	0 53	15 10	8 11	11 34	11 5	17 28	16 20	6 25	
S 18	19 12	27 20	4 8	18 53	0s 2	17 59	0 40	24 9	0 55	6 41	1 30	14 32	0 57	23 3	0 4	22 5	0 53	15 10	8 11	11 33	11 4	17 31	16 20	6 25	
M19	19 26	28 2	4 49	19 23	0 9	18 19	0 38	24 12	0 55	6 39	1 30	14 32	0 58	23 3	0 4	22 5	0 53	15 10	8 11	11 31	11 3	17 34	16 20	6 25	
T 20	19 40	26 50	5 10	19 51	0 16	18 39	0 36	24 14	0 56	6 37	1 30	14 31	0 58	23 3	0 4	22 5	0 53	15 10	8 11	11 30	11 1	17 37	16 20	6 24	
W21	19 54	24 1	5 13	20 19	0 22	18 59	0 34	24 16	0 56	6 36	1 30	14 31	0 58	23 3	0 4	22 4	0 53	15 10	8 11	11 29	11 0	17 39	16 20	6 24	
T 22	20 7	19 59	4 58	20 46	0 29	19 18	0 32	24 18	0 56	6 34	1 29	14 31	0 58	23 4	0 4	22 4	0 53	15 10	8 11	11 28	10 59	17 42	16 20	6 24	
F 23	20 19	15 9	4 28	21 11	0 35	19 37	0 29	24 20	0 57	6 33	1 29	14 30	0 58	23 4	0 4	22 4	0 53	15 10	8 12	11 28	10 58	17 45	16 19	6 23	
S 24	20 32	9 48	3 47	21 36	0 42	19 55	0 27	24 21	0 57	6 32	1 29	14 30	0 59	23 4	0 4	22 4	0 53	15 10	8 12	11 28	10 57	17 48	16 19	6 23	
S 25	20 44	4 13	2 55	21 59	0 48	20 12	0 25	24 22	0 57	6 30	1 29	14 30	0 59	23 5	0 4	22 4	0 53	15 10	8 12	11 29	10 56	17 51	16 19	6 23	
M26	20 55	1n26	1 57	22 21	0 54	20 29	0 22	24 23	0 58	6 29	1 28	14 30	0 59	23 5	0 4	22 4	0 53	15 10	8 12	11 29	10 55	17 53	16 19	6 22	
T 27	21 6	6 58	0 55	22 43	1 0	20 45	0 20	24 23	0 58	6 28	1 28	14 30	0 59	23 5	0 4	22 4	0 53	15 10	8 12	11 30	10 54	17 56	16 19	6 22	
W28	21 17	12 15	0n 9	23 3	1 6	21 1	0 18	24 24	0 58	6 27	1 28	14 30	0 59	23 5	0 4	22 4	0 53	15 9	8 12	11 30	10 52	17 59	16 18	6 22	
T 29	21 27	17 4	1 13	23 22	1 12	21 16	0 15	24 24	0 59	6 26	1 27	14 30	1 0	23 6	0 4	22 3	0 53	15 9	8 12	11 30	10 51	18 2	16 18	6 22	
F 30	21s37	21n16	2n14	23s39	1s17	21s30	0n13	24s23	0s59	6n25	1s27	14n30	1n 0	23s 6	0s 4	22s 3	0n53	15n 9	8s12	11n29	10n50	18n 4	16s18	6n21	

ASTRODIENST EPHEMERIS for the year 2153  
geocentric

DECEMBER 2153

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 40 25	8♂58'40	7♂19	14♂51	9♂49	2♂48	19♂R49	23♂53	19♂50	11♂25	25♂R31	29♂R58	28♂Y10	15♂58	14♂44	S 1
S 2	4 44 21	9°59'24	19°19	16°24	11° 5	3°33	19♂Y47	23°54	19°54	11°27	25♂Y30	29♂Y51	28° 7	16° 5	14°49	S 2
M 3	4 48 18	11° 0'10	1♂27	17°57	12°20	4°19	19°44	23°54	19°58	11°29	25°29	29°43	28° 4	16°12	14°55	M 3
T 4	4 52 15	12° 0'57	13°44	19°31	13°36	5° 4	19°42	23°54	20° 1	11°31	25°27	29°35	28° 1	16°18	15° 0	T 4
W 5	4 56 11	13° 1'45	26°11	21° 4	14°51	5°50	19°40	23°R54	20° 5	11°33	25°26	29°28	27°58	16°25	15° 5	W 5
T 6	5 0 8	14° 2'35	8♂50	22°37	16° 7	6°35	19°38	23°54	20° 9	11°35	25°25	29°21	27°54	16°32	15°11	T 6
F 7	5 4 4	15° 3'26	21°43	24°10	17°22	7°21	19°36	23°54	20°12	11°37	25°24	29°16	27°51	16°38	15°16	F 7
S 8	5 8 1	16° 4'18	4♂51	25°43	18°37	8° 7	19°35	23°53	20°16	11°39	25°23	29°14	27°48	16°45	15°21	S 8
S 9	5 11 57	17° 5'12	18°17	27°16	19°53	8°53	19°34	23°53	20°19	11°41	25°22	29°D13	27°45	16°52	15°27	S 9
M10	5 15 54	18° 6'07	2♂ 3	28°49	21° 8	9°38	19°32	23°52	20°23	11°43	25°21	29°14	27°42	16°58	15°32	M10
T 11	5 19 51	19° 7'03	16°10	0♂22	22°24	10°24	19°32	23°52	20°27	11°45	25°19	29°15	27°39	17° 5	15°38	T 11
W12	5 23 47	20° 8'00	0♂37	1°55	23°39	11°10	19°31	23°51	20°30	11°48	25°18	29°R15	27°35	17°12	15°43	W12
T 13	5 27 44	21° 8'59	15°22	3°27	24°55	11°56	19°31	23°50	20°34	11°50	25°17	29°14	27°32	17°18	15°49	T 13
F 14	5 31 40	22° 9'58	0♂19	5° 0	26°10	12°42	19°D30	23°49	20°38	11°52	25°16	29°11	27°29	17°25	15°54	F 14
S 15	5 35 37	23°10'59	15°21	6°32	27°26	13°28	19°30	23°48	20°41	11°54	25°15	29° 5	27°26	17°32	16° 0	S 15
S 16	5 39 33	24°12'01	0♂19	8° 4	28°41	14°15	19°31	23°47	20°45	11°56	25°14	28°57	27°23	17°38	16° 5	S 16
M17	5 43 30	25°13'03	15° 3	9°36	29°57	15° 1	19°31	23°45	20°49	11°58	25°12	28°47	27°19	17°45	16°11	M17
T 18	5 47 26	26°14'06	29°25	11° 7	1♂12	15°47	19°32	23°44	20°52	12° 1	25°11	28°38	27°16	17°52	16°17	T 18
W19	5 51 23	27°15'10	13♂21	12°38	2°28	16°33	19°33	23°42	20°56	12° 3	25°10	28°29	27°13	17°58	16°22	W19
T 20	5 55 20	28°16'14	26°49	14° 8	3°43	17°20	19°34	23°41	21° 0	12° 5	25° 9	28°23	27°10	18° 5	16°28	T 20
F 21	5 59 16	29°17'18	9♂48	15°38	4°58	18° 6	19°35	23°39	21° 3	12° 7	25° 8	28°18	27° 7	18°12	16°34	F 21
S 22	6 3 13	0♂18'22	22°23	17° 6	6°14	18°52	19°36	23°37	21° 7	12°10	25° 7	28°16	27° 4	18°18	16°40	S 22
S 23	6 7 9	1°19'27	4♂Y38	18°34	7°29	19°39	19°38	23°35	21°11	12°12	25° 5	28°D16	27° 0	18°25	16°45	S 23
M24	6 11 6	2°20'32	16°38	20° 0	8°45	20°25	19°40	23°33	21°14	12°14	25° 4	28°17	26°57	18°32	16°51	M24
T 25	6 15 2	3°21'37	28°29	21°25	10° 0	21°12	19°42	23°31	21°18	12°16	25° 3	28°R17	26°54	18°38	16°57	T 25
W26	6 18 59	4°22'43	10♂16	22°48	11°16	21°58	19°44	23°29	21°21	12°18	25° 2	28°16	26°51	18°45	17° 3	W26
T 27	6 22 55	5°23'49	22° 3	24° 9	12°31	22°45	19°47	23°26	21°25	12°21	25° 1	28°13	26°48	18°52	17° 9	T 27
F 28	6 26 52	6°24'54	3♂56	25°28	13°46	23°31	19°49	23°24	21°29	12°23	25° 0	28° 8	26°45	18°58	17°14	F 28
S 29	6 30 49	7°26'01	15°56	26°43	15° 2	24°18	19°52	23°21	21°32	12°25	24°58	27°59	26°41	19° 5	17°20	S 29
S 30	6 34 45	8°27'07	28° 6	27°55	16°17	25° 5	19°55	23°19	21°36	12°28	24°57	27°48	26°38	19°11	17°26	S 30
M31	6 38 42	9♂28'14	10♂28	29♂ 3	17♂33	25♂51	19♂Y59	23♂51	21♂39	12♂30	24♂56	27♂Y36	26♂Y35	19♂18	17♂32	M31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	21s47	24n37	3n 9	23s56	1s23	21s44	0n11	24s23	0s59	6n24	1s27	14n30	1n 0	23s 6	0s 4	22s 3	0n53	15n 9	8s12	11n27	10n49	18n 7	16s18	6n21			
S 2	21 56	26 54	3 56	24 11	1 28	21 57	0 8	24 22	1 0	6 24	1 27	14 30	1 0	23 7	0 4	22 3	0 53	15 9	8 12	11 25	10 48	18 10	16 17	6 21			
M 3	22 5	27 57	4 32	24 25	1 33	22 10	0 6	24 21	1 0	6 23	1 26	14 30	1 0	23 7	0 4	22 3	0 53	15 9	8 12	11 22	10 47	18 12	16 17	6 21			
T 4	22 13	27 38	4 57	24 38	1 38	22 21	0 4	24 19	1 0	6 22	1 26	14 30	1 1	23 7	0 4	22 3	0 53	15 9	8 12	11 19	10 46	18 15	16 17	6 20			
W 5	22 21	25 56	5 8	24 49	1 42	22 33	0 1	24 18	1 0	6 22	1 26	14 30	1 1	23 7	0 4	22 3	0 53	15 9	8 12	11 16	10 44	18 18	16 16	6 20			
T 6	22 28	22 56	5 4	25 0	1 47	22 43	0s 1	24 16	1 1	6 21	1 25	14 30	1 1	23 8	0 4	22 2	0 53	15 9	8 12	11 14	10 43	18 21	16 16	6 20			
F 7	22 35	18 45	4 45	25 8	1 51	22 53	0 4	24 14	1 1	6 21	1 25	14 31	1 1	23 8	0 4	22 2	0 53	15 9	8 12	11 12	10 42	18 23	16 16	6 20			
S 8	22 42	13 37	4 11	25 16	1 55	23 2	0 6	24 11	1 1	6 21	1 25	14 31	1 1	23 8	0 4	22 2	0 53	15 9	8 12	11 11	10 41	18 26	16 15	6 20			
S 9	22 48	7 44	3 23	25 22	1 59	23 11	0 8	24 9	1 1	6 21	1 24	14 31	1 2	23 9	0 4	22 2	0 53	15 9	8 12	11 11	10 40	18 29	16 15	6 19			
M10	22 53	1 21	2 21	25 27	2 2	23 18	0 11	24 6	1 2	6 20	1 24	14 32	1 2	23 9	0 4	22 2	0 53	15 9	8 12	11 11	10 39	18 31	16 14	6 19			
T 11	22 59	5s16	1 10	25 30	2 5	23 25	0 13	24 3	1 2	6 20	1 24	14 32	1 2	23 9	0 4	22 2	0 53	15 9	8 12	11 12	10 38	18 34	16 14	6 19			
W12	23 3	11 48	0s 7	25 32	2 8	23 32	0 16	23 59	1 2	6 20	1 24	14 32	1 2	23 9	0 4	22 1	0 53	15 9	8 12	11 12	10 36	18 37	16 13	6 19			
T 13	23 8	17 48	1 26	25 33	2 10	23 37	0 18	23 55	1 2	6 21	1 23	14 33	1 2	23 10	0 4	22 1	0 53	15 9	8 12	11 12	10 35	18 40	16 13	6 19			
F 14	23 11	22 47	2 39	25 32	2 12	23 42	0 20	23 51	1 3	6 21	1 23	14 33	1 3	23 10	0 4	22 1	0 53	15 9	8 11	11 10	10 34	18 42	16 13	6 18			
S 15	23 15	26 17	3 41	25 29	2 14	23 46	0 23	23 47	1 3	6 21	1 23	14 34	1 3	23 10	0 5	22 1	0 53	15 9	8 11	11 8	10 33	18 45	16 12	6 18			
S 16	23 18	27 54	4 28	25 25	2 15	23 50	0 25	23 42	1 3	6 21	1 22	14 35	1 3	23 10	0 5	22 1	0 53	15 9	8 11	11 6	10 32	18 48	16 12	6 18			
M17	23 20	27 29	4 57	25 20	2 16	23 53	0 27	23 37	1 3	6 22	1 22	14 35	1 3	23 11	0 5	22 1	0 53	15 9	8 11	11 2	10 31	18 50	16 11	6 18			
T 18	23 22	25 14	5 5	25 13	2 16	23 55	0 30	23 32	1 3	6 22	1 22	14 36	1 3	23 11	0 5	22 0	0 53	15 9	8 11	10 59	10 30	18 53	16 11	6 18			
W19	23 24	21 30	4 55	25 5	2 16	23 56	0 32	23 27	1 4	6 23	1 21	14 37	1 4	23 11	0 5	22 0	0 53	15 9	8 11	10 56	10 29	18 56	16 10	6 18			
T 20	23 25	16 46	4 29	24 55	2 15	23 56	0 34	23 21	1 4	6 24	1 21	14 37	1 4	23 11	0 5	22 0	0 53	15 9	8 11	10 53	10 27	18 58	16 9	6 18			
F 21	23 25	11 25	3 49	24 44	2 14	23 56	0 36	23 15	1 4	6 25	1 21	14 38	1 4	23 12	0 5	22 0	0 53	15 9	8 11	10 52	10 26	19 1	16 9	6 18			
S 22	23 25	5 46	3 0	24 31	2 12	23 55	0 39	23 9	1 4	6 25	1 20	14 39	1 4	23 12	0 5	22 0	0 53	15 9	8 11	10 51	10 25	19 4	16 8	6 17			
S 23	23 25	0 2	2 3	24 17	2 10	23 53	0 41	23 3	1 4	6 26	1 20	14 40	1 4	23 12	0 5	21 59	0 52	15 9	8 11	10 51	10 24	19 6	16 8	6 17			
M24	23 24	5n35	1 2	24 2	2 7	23 51	0 43	22 56	1 4	6 27	1 20	14 41	1 5	23 13	0 5	21 59	0 52	15 9	8 11	10 51	10 23	19 9	16 7	6 17			
T 25	23 23	10 57	0n 1	23 45	2 3	23 48	0 45	22 49	1 4	6 28	1 20	14 41	1 5	23 13	0 5	21 59	0 52	15 9	8 11	10 51	10 22	19 12	16 7	6 17			
W26	23 21	15 53	1 3	23 27	1 59	23 44	0 47	22 42	1 5	6 29	1 19	14 42	1 5	23 13	0 5	21 59	0 52	15 9	8 11	10 51	10 20	19 14	16 6	6 17			
T 27	23 19	20 15	2 3	23 8	1 53	23 39	0 49	22 34	1 5	6 31	1 19	14 43	1 5	23 13	0 5	21 59	0 52	15 9	8 11	10 50	10 19	19 17	16 5	6 17			
F 28	23 16	23 50	2 58	22 47	1 47	23 33	0 51	22 26	1 5	6 32	1 19	14 44	1 5	23 13	0 5	21 59	0 52	15 9	8 11	10 48	10 18	19 19	16 5	6 17			
S 29	23 13	26 24	3 45	22 26	1 40	23 27	0 53	22 18	1 5	6 33	1 18	14 45	1 6	23 14	0 5	21 58	0 52	15 9	8 11	10 45	10 17	19 22	16 4	6 17			
S 30	23 9	27 47	4 22	22 4	1 32	23 20	0 55	22 10	1 5	6 35	1 18	14 46	1 6	23 14	0 5	21 58	0 52	15 9	8 10	10 41	10 16	19 25	16 3	6 17			
M31	23 s 5	27n47	4n48	21s42	1s23	23s13	0s57	22s 2	1 s 5	6n36	1s18	14n47	1n 6	23s14	0s 5	21s58	0n52	15n 9	8s10	10n37	10n15	19n27	16s 3	6n17			