



# Astrodienst Ephemeris Tables for the year 2157

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 2157  
geocentric

JANUARY 2157

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 43 44	10 <sup>3</sup> 46'23	9 <sup>11</sup> 54	23 <sup>27</sup> 6	0 <sup>3</sup> 31	21 <sup>12</sup> 35	11°R50	3 <sup>12</sup> 39	3 <sup>12</sup> 57	18 <sup>12</sup> 52	28°R 4	26 <sup>12</sup> 58	28 <sup>12</sup> 30	21 <sup>12</sup> 31	8 <sup>12</sup> 2	S 1
S 2	6 47 41	11°47'31	21°44	24°33	1°47	22° 5	11 <sup>12</sup> 44	3°40	4° 1	18°54	28 <sup>12</sup> 3	26°59	28°27	21°38	8° 7	S 2
M 3	6 51 37	12°48'39	3 <sup>12</sup> 32	25°59	3° 2	22°36	11°38	3°41	4° 4	18°57	28° 2	27° 0	28°24	21°44	8°11	M 3
T 4	6 55 34	13°49'47	15°24	27°27	4°18	23° 6	11°32	3°42	4° 8	18°59	28° 1	27°R 1	28°20	21°51	8°16	T 4
W 5	6 59 30	14°50'56	27°26	28°55	5°33	23°36	11°25	3°43	4°12	19° 1	28° 0	27° 0	28°17	21°58	8°20	W 5
T 6	7 3 27	15°52'05	9 <sup>12</sup> 42	0 <sup>3</sup> 23	6°49	24° 6	11°19	3°44	4°15	19° 3	27°59	26°57	28°14	22° 4	8°25	T 6
F 7	7 7 23	16°53'15	22°17	1°53	8° 4	24°36	11°12	3°44	4°19	19° 6	27°58	26°52	28°11	22°11	8°30	F 7
S 8	7 11 20	17°54'25	5 <sup>12</sup> 14	3°22	9°20	25° 5	11° 5	3°45	4°22	19° 8	27°57	26°47	28° 8	22°17	8°35	S 8
S 9	7 15 16	18°55'35	18°34	4°52	10°35	25°35	10°58	3°45	4°26	19°10	27°55	26°40	28° 4	22°24	8°39	S 9
M10	7 19 13	19°56'45	2 <sup>12</sup> 17	6°23	11°51	26° 4	10°51	3°46	4°29	19°12	27°54	26°33	28° 1	22°31	8°44	M10
T 11	7 23 10	20°57'55	16°20	7°54	13° 6	26°33	10°44	3°46	4°33	19°15	27°53	26°28	27°58	22°37	8°49	T 11
W12	7 27 6	21°59'05	0 <sup>12</sup> 40	9°25	14°22	27° 2	10°37	3°46	4°36	19°17	27°52	26°24	27°55	22°44	8°54	W12
T 13	7 31 3	23° 0'14	15°10	10°57	15°37	27°31	10°30	3°R46	4°40	19°19	27°51	26°22	27°52	22°51	8°59	T 13
F 14	7 34 59	24° 1'23	29°45	12°30	16°52	27°59	10°22	3°46	4°43	19°22	27°50	26°D21	27°49	22°57	9° 3	F 14
S 15	7 38 56	25° 2'31	14 <sup>12</sup> 18	14° 2	18° 8	28°28	10°15	3°46	4°47	19°24	27°49	26°22	27°45	23° 4	9° 8	S 15
S 16	7 42 52	26° 3'39	28°44	15°36	19°23	28°56	10° 7	3°45	4°50	19°26	27°48	26°24	27°42	23°11	9°13	S 16
M17	7 46 49	27° 4'46	13 <sup>12</sup> Y 1	17°10	20°39	29°24	10° 0	3°45	4°54	19°28	27°47	26°25	27°39	23°17	9°18	M17
T 18	7 50 45	28° 5'52	27° 7	18°44	21°54	29°52	9°52	3°44	4°57	19°31	27°46	26°R26	27°36	23°24	9°23	T 18
W19	7 54 42	29° 6'58	10 <sup>12</sup> 8 59	20°19	23°10	0 <sup>12</sup> 20	9°44	3°44	5° 1	19°33	27°45	26°25	27°33	23°31	9°28	W19
T 20	7 58 39	0 <sup>12</sup> 8'03	24°38	21°54	24°25	0°47	9°36	3°43	5° 4	19°35	27°44	26°23	27°30	23°37	9°33	T 20
F 21	8 2 35	1° 9'07	8 <sup>12</sup> 3	23°30	25°41	1°14	9°28	3°42	5° 7	19°37	27°43	26°20	27°26	23°44	9°38	F 21
S 22	8 6 32	2°10'10	21°15	25° 6	26°56	1°41	9°21	3°41	5°11	19°40	27°42	26°17	27°23	23°51	9°43	S 22
S 23	8 10 28	3°11'13	4 <sup>12</sup> 14	26°43	28°11	2° 8	9°13	3°40	5°14	19°42	27°41	26°13	27°20	23°57	9°48	S 23
M24	8 14 25	4°12'15	17° 0	28°20	29°27	2°35	9° 5	3°39	5°17	19°44	27°40	26° 9	27°17	24° 4	9°52	M24
T 25	8 18 21	5°13'16	29°33	29°58	0 <sup>12</sup> 42	3° 1	8°57	3°38	5°21	19°46	27°39	26° 6	27°14	24°11	9°57	T 25
W26	8 22 18	6°14'16	11 <sup>12</sup> 154	1 <sup>12</sup> 37	1°58	3°27	8°49	3°36	5°24	19°48	27°38	26° 5	27°10	24°17	10° 2	W26
T 27	8 26 14	7°15'15	24° 3	3°16	3°13	3°53	8°41	3°35	5°27	19°51	27°38	26°D 4	27° 7	24°24	10° 7	T 27
F 28	8 30 11	8°16'14	6 <sup>12</sup> 4	4°56	4°28	4°19	8°33	3°33	5°30	19°53	27°37	26° 4	27° 4	24°31	10°12	F 28
S 29	8 34 8	9°17'12	17°57	6°36	5°44	4°45	8°25	3°31	5°33	19°55	27°36	26° 5	27° 1	24°37	10°17	S 29
S 30	8 38 4	10°18'09	29°46	8°18	6°59	5°10	8°17	3°30	5°36	19°57	27°35	26° 7	26°58	24°44	10°22	S 30
M31	8 42 1	11 <sup>12</sup> 19'06	11 <sup>12</sup> 134	9 <sup>12</sup> 59	8 <sup>12</sup> 14	5 <sup>12</sup> 35	8 <sup>12</sup> 9	3 <sup>12</sup> 28	5 <sup>12</sup> 40	19 <sup>12</sup> 59	27 <sup>12</sup> 34	26 <sup>12</sup> 8	26 <sup>12</sup> 55	24 <sup>12</sup> 51	10 <sup>12</sup> 27	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	22s59	6n46	1s10	22s50	0n25	23s23	0n 2	6s44	1n48	17n50	0n38	0n37	2n15	23s36	0s14	21s24	0n42	16n 5	7s20	12s31	11s59	1n31	11s59	6n28			
S 2	22 54	1 17	2 10	23 1	0 17	23 25	0s 0	6 55	1 49	17 52	0 38	0 37	2 15	23 36	0 14	21 24	0 42	16 5	7 19	12 30	12 0	1 27	11 58	6 28			
M 3	22 48	4s14	3 5	23 12	0 9	23 26	0 3	7 6	1 49	17 54	0 39	0 36	2 15	23 36	0 14	21 23	0 42	16 5	7 19	12 30	12 1	1 24	11 57	6 28			
T 4	22 42	9 38	3 53	23 22	0 2	23 26	0 5	7 17	1 49	17 56	0 39	0 36	2 16	23 36	0 14	21 23	0 42	16 5	7 19	12 30	12 3	1 20	11 56	6 28			
W 5	22 36	14 45	4 30	23 31	0s 6	23 26	0 7	7 27	1 50	17 58	0 39	0 36	2 16	23 36	0 14	21 23	0 42	16 5	7 19	12 30	12 4	1 17	11 55	6 27			
T 6	22 29	19 24	4 57	23 38	0 13	23 25	0 10	7 38	1 50	18 0	0 39	0 36	2 16	23 35	0 14	21 22	0 42	16 5	7 19	12 31	12 5	1 14	11 54	6 27			
F 7	22 21	23 18	5 9	23 44	0 20	23 23	0 12	7 49	1 50	18 2	0 39	0 36	2 16	23 35	0 14	21 22	0 42	16 5	7 19	12 33	12 6	1 10	11 53	6 27			
S 8	22 13	26 11	5 7	23 50	0 27	23 20	0 15	7 59	1 50	18 4	0 39	0 36	2 17	23 35	0 14	21 22	0 42	16 5	7 19	12 35	12 7	1 7	11 52	6 27			
S 9	22 5	27 43	4 48	23 54	0 34	23 17	0 17	8 10	1 51	18 6	0 40	0 36	2 17	23 35	0 14	21 21	0 42	16 6	7 19	12 37	12 8	1 4	11 51	6 27			
M10	21 56	27 37	4 13	23 57	0 41	23 13	0 19	8 20	1 51	18 8	0 40	0 36	2 17	23 35	0 14	21 21	0 42	16 6	7 19	12 39	12 9	1 0	11 50	6 27			
T 11	21 47	25 45	3 21	23 58	0 47	23 8	0 22	8 30	1 51	18 10	0 40	0 37	2 18	23 35	0 14	21 21	0 42	16 6	7 19	12 41	12 10	0 57	11 49	6 26			
W12	21 38	22 12	2 16	23 58	0 53	23 3	0 24	8 40	1 52	18 12	0 40	0 37	2 18	23 35	0 14	21 21	0 42	16 6	7 18	12 42	12 11	0 54	11 48	6 26			
T 13	21 28	17 14	1 1	23 57	0 59	22 57	0 26	8 50	1 52	18 14	0 40	0 37	2 18	23 35	0 14	21 20	0 42	16 6	7 18	12 43	12 12	0 50	11 47	6 26			
F 14	21 17	11 16	0n19	23 55	1 5	22 50	0 29	9 0	1 52	18 17	0 40	0 37	2 18	23 35	0 14	21 20	0 42	16 6	7 18	12 43	12 14	0 47	11 46	6 26			
S 15	21 6	4 41	1 37	23 51	1 11	22 42	0 31	9 10	1 52	18 19	0 41	0 38	2 19	23 35	0 14	21 20	0 42	16 6	7 18	12 43	12 15	0 43	11 45	6 26			
S 16	20 55	2n 4	2 48	23 46	1 16	22 34	0 33	9 20	1 53	18 21	0 41	0 38	2 19	23 34	0 14	21 19	0 42	16 6	7 18	12 43	12 16	0 40	11 44	6 26			
M17	20 44	8 39	3 48	23 40	1 22	22 25	0 35	9 29	1 53	18 23	0 41	0 39	2 19	23 34	0 14	21 19	0 42	16 6	7 18	12 42	12 17	0 37	11 43	6 26			
T 18	20 32	14 41	4 34	23 32	1 26	22 15	0 38	9 39	1 53	18 25	0 41	0 39	2 20	23 34	0 14	21 19	0 42	16 6	7 18	12 42	12 18	0 33	11 41	6 26			
W19	20 19	19 54	5 3	23 23	1 31	22 5	0 40	9 48	1 53	18 28	0 41	0 40	2 20	23 34	0 15	21 18	0 42	16 7	7 18	12 42	12 19	0 30	11 40	6 25			
T 20	20 6	23 59	5 14	23 13	1 36	21 54	0 42	9 58	1 54	18 30	0 41	0 40	2 20	23 34	0 15	21 18	0 42	16 7	7 17	12 43	12 20	0 27	11 39	6 25			
F 21	19 53	26 41	5 7	23 1	1 40	21 43	0 44	10 7	1 54	18 32	0 42	0 41	2 20	23 34	0 15	21 18	0 42	16 7	7 17	12 44	12 21	0 23	11 38	6 25			
S 22	19 40	27 52	4 45	22 48	1 44	21 30	0 46	10 16	1 54	18 34	0 42	0 41	2 21	23 34	0 15	21 17	0 42	16 7	7 17	12 45	12 22	0 20	11 37	6 25			
S 23	19 26	27 29	4 8	22 33	1 47	21 17	0 48	10 25	1 54	18 37	0 42	0 42	2 21	23 34	0 15	21 17	0 42	16 7	7 17	12 46	12 23	0 17	11 35	6 25			
M24	19 12	25 38	3 19	22 17	1 51	21 4	0 50	10 34	1 55	18 39	0 42	0 43	2 21	23 33	0 15	21 17	0 42	16 7	7 17	12 47	12 24	0 13	11 34	6 25			
T 25	18 57	22 32	2 21	22 0	1 54	20 50	0 52	10 42	1 55	18 41	0 42	0 43	2 22	23 33	0 15	21 16	0 42	16 7	7 17	12 48	12 25	0 10	11 33	6 25			
W26	18 42	18 27	1 17	21 41	1 56	20 35	0 54	10 51	1 55	18 43	0 42	0 44	2 22	23 33	0 15	21 16	0 42	16 7	7 17	12 49	12 27	0 6	11 32	6 25			
T 27	18 27	13 40	0 11	21 20	1 59	20 19	0 56	11 0	1 55	18 46	0 42	0 45	2 22	23 33	0 15	21 16	0 42	16 8	7 16	12 49	12 28	0 3	11 31	6 25			
F 28	18 11	8 26	0s55	20 58	2 1	20 3	0 57	11 8	1 56	18 48	0 42	0 46	2 22	23 33	0 15	21 15	0 42	16 8	7 16	12 49	12 29	0s 0	11 29	6 25			
S 29	17 55	2 57	1 58	20 35	2 2	19 47	0 59	11 16	1 56	18 50	0 43	0 47	2 23	23 33	0 15	21 15	0 42	16 8	7 16	12 49	12 30	0 4	11 28	6 25			
S 30	17 39	2s36	2 56	20 10	2 4	19 30	1 1	11 24	1 56	18 52	0 43	0 48	2 23	23 33	0 15	21 15	0 42	16 8	7 16	12 48	12 31	0 7	11 27	6 25			
M31	17s22	8s 2	3s46	19s44	2s 5	19s12	1s 2	11s33	1n56	18n54	0n43	0n49	2n23	23s33	0s15	21s15	0n42	16n 8	7s16	12s48	12s32	0s10	11s26	6n25			

# ASTRODIENST EPHEMERIS for the year 2157

## geocentric

FEBRUARY 2157

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 45 57	12 <sup>20</sup> 0'01	23 <sup>26</sup> 26	11 <sup>42</sup> 42	9 <sup>30</sup> 30	5 <sup>59</sup> 59	8 <sup>01</sup> 01	3 <sup>26</sup> 26	5 <sup>43</sup> 43	20 <sup>02</sup> 02	27 <sup>33</sup> 33	26 <sup>09</sup> 09	26 <sup>51</sup> 51	24 <sup>57</sup> 57	10 <sup>32</sup> 32	T 1
W 2	8 49 54	13 <sup>20</sup> 57	5 <sup>27</sup> 27	13 <sup>25</sup> 25	10 <sup>45</sup> 45	6 <sup>24</sup> 24	7 <sup>53</sup> 53	3 <sup>24</sup> 24	5 <sup>46</sup> 46	20 <sup>04</sup> 04	27 <sup>33</sup> 33	26 <sup>10</sup> 10	26 <sup>48</sup> 48	25 <sup>04</sup> 04	10 <sup>37</sup> 37	W 2
T 3	8 53 50	14 <sup>21</sup> 51	17 <sup>40</sup> 40	15 <sup>09</sup> 09	12 <sup>00</sup> 00	6 <sup>48</sup> 48	7 <sup>45</sup> 45	3 <sup>21</sup> 21	5 <sup>49</sup> 49	20 <sup>06</sup> 06	27 <sup>32</sup> 32	26 <sup>10</sup> 10	26 <sup>45</sup> 45	25 <sup>11</sup> 11	10 <sup>42</sup> 42	T 3
F 4	8 57 47	15 <sup>22</sup> 45	0 <sup>11</sup> 11	16 <sup>53</sup> 53	13 <sup>16</sup> 16	7 <sup>12</sup> 12	7 <sup>37</sup> 37	3 <sup>19</sup> 19	5 <sup>52</sup> 52	20 <sup>08</sup> 08	27 <sup>31</sup> 31	26 <sup>10</sup> 10	26 <sup>42</sup> 42	25 <sup>17</sup> 17	10 <sup>47</sup> 47	F 4
S 5	9 1 43	16 <sup>23</sup> 38	13 <sup>04</sup> 04	18 <sup>38</sup> 38	14 <sup>31</sup> 31	7 <sup>36</sup> 36	7 <sup>29</sup> 29	3 <sup>17</sup> 17	5 <sup>55</sup> 55	20 <sup>10</sup> 10	27 <sup>30</sup> 30	26 <sup>09</sup> 09	26 <sup>39</sup> 39	25 <sup>24</sup> 24	10 <sup>52</sup> 52	S 5
S 6	9 5 40	17 <sup>24</sup> 30	26 <sup>21</sup> 21	20 <sup>24</sup> 24	15 <sup>46</sup> 46	7 <sup>59</sup> 59	7 <sup>21</sup> 21	3 <sup>14</sup> 14	5 <sup>58</sup> 58	20 <sup>12</sup> 12	27 <sup>30</sup> 30	26 <sup>08</sup> 08	26 <sup>36</sup> 36	25 <sup>31</sup> 31	10 <sup>57</sup> 57	S 6
M 7	9 9 37	18 <sup>25</sup> 22	10 <sup>05</sup> 05	22 <sup>10</sup> 10	17 <sup>02</sup> 02	8 <sup>22</sup> 22	7 <sup>13</sup> 13	3 <sup>12</sup> 12	6 <sup>01</sup> 01	20 <sup>14</sup> 14	27 <sup>29</sup> 29	26 <sup>07</sup> 07	26 <sup>32</sup> 32	25 <sup>37</sup> 37	11 <sup>02</sup> 02	M 7
T 8	9 13 33	19 <sup>26</sup> 12	24 <sup>15</sup> 15	23 <sup>57</sup> 57	18 <sup>17</sup> 17	8 <sup>45</sup> 45	7 <sup>06</sup> 06	3 <sup>09</sup> 09	6 <sup>04</sup> 04	20 <sup>16</sup> 16	27 <sup>28</sup> 28	26 <sup>06</sup> 06	26 <sup>29</sup> 29	25 <sup>44</sup> 44	11 <sup>07</sup> 07	T 8
W 9	9 17 30	20 <sup>27</sup> 02	8 <sup>47</sup> 47	25 <sup>45</sup> 45	19 <sup>32</sup> 32	9 <sup>07</sup> 07	6 <sup>58</sup> 58	3 <sup>06</sup> 06	6 <sup>06</sup> 06	20 <sup>18</sup> 18	27 <sup>28</sup> 28	26 <sup>05</sup> 05	26 <sup>26</sup> 26	25 <sup>51</sup> 51	11 <sup>11</sup> 11	W 9
T 10	9 21 26	21 <sup>27</sup> 50	23 <sup>36</sup> 36	27 <sup>33</sup> 33	20 <sup>48</sup> 48	9 <sup>30</sup> 30	6 <sup>50</sup> 50	3 <sup>03</sup> 03	6 <sup>09</sup> 09	20 <sup>20</sup> 20	27 <sup>27</sup> 27	26 <sup>05</sup> 05	26 <sup>23</sup> 23	25 <sup>57</sup> 57	11 <sup>16</sup> 16	T 10
F 11	9 25 23	22 <sup>28</sup> 37	8 <sup>34</sup> 34	29 <sup>21</sup> 21	22 <sup>03</sup> 03	9 <sup>51</sup> 51	6 <sup>43</sup> 43	3 <sup>00</sup> 00	6 <sup>12</sup> 12	20 <sup>22</sup> 22	27 <sup>26</sup> 26	26 <sup>05</sup> 05	26 <sup>20</sup> 20	26 <sup>04</sup> 04	11 <sup>21</sup> 21	F 11
S 12	9 29 19	23 <sup>29</sup> 22	23 <sup>34</sup> 34	1 <sup>10</sup> 10	23 <sup>18</sup> 18	10 <sup>13</sup> 13	6 <sup>35</sup> 35	2 <sup>57</sup> 57	6 <sup>15</sup> 15	20 <sup>24</sup> 24	27 <sup>26</sup> 26	26 <sup>05</sup> 05	26 <sup>16</sup> 16	26 <sup>11</sup> 11	11 <sup>26</sup> 26	S 12
S 13	9 33 16	24 <sup>30</sup> 06	8 <sup>26</sup> 26	2 <sup>59</sup> 59	24 <sup>34</sup> 34	10 <sup>34</sup> 34	6 <sup>28</sup> 28	2 <sup>54</sup> 54	6 <sup>17</sup> 17	20 <sup>26</sup> 26	27 <sup>25</sup> 25	26 <sup>06</sup> 06	26 <sup>13</sup> 13	26 <sup>17</sup> 17	11 <sup>31</sup> 31	S 13
M14	9 37 12	25 <sup>30</sup> 48	23 <sup>05</sup> 05	4 <sup>48</sup> 48	25 <sup>49</sup> 49	10 <sup>55</sup> 55	6 <sup>21</sup> 21	2 <sup>51</sup> 51	6 <sup>20</sup> 20	20 <sup>28</sup> 28	27 <sup>25</sup> 25	26 <sup>06</sup> 06	26 <sup>10</sup> 10	26 <sup>24</sup> 24	11 <sup>36</sup> 36	M14
T 15	9 41 9	26 <sup>31</sup> 29	7 <sup>25</sup> 25	6 <sup>36</sup> 36	27 <sup>04</sup> 04	11 <sup>15</sup> 15	6 <sup>14</sup> 14	2 <sup>48</sup> 48	6 <sup>23</sup> 23	20 <sup>30</sup> 30	27 <sup>24</sup> 24	26 <sup>06</sup> 06	26 <sup>07</sup> 07	26 <sup>31</sup> 31	11 <sup>41</sup> 41	T 15
W16	9 45 6	27 <sup>32</sup> 08	21 <sup>23</sup> 23	8 <sup>25</sup> 25	28 <sup>19</sup> 19	11 <sup>35</sup> 35	6 <sup>07</sup> 07	2 <sup>44</sup> 44	6 <sup>25</sup> 25	20 <sup>32</sup> 32	27 <sup>24</sup> 24	26 <sup>06</sup> 06	26 <sup>04</sup> 04	26 <sup>37</sup> 37	11 <sup>45</sup> 45	W16
T 17	9 49 2	28 <sup>32</sup> 46	5 <sup>00</sup> 00	10 <sup>13</sup> 13	29 <sup>34</sup> 34	11 <sup>55</sup> 55	6 <sup>00</sup> 00	2 <sup>41</sup> 41	6 <sup>28</sup> 28	20 <sup>34</sup> 34	27 <sup>23</sup> 23	26 <sup>06</sup> 06	26 <sup>01</sup> 01	26 <sup>44</sup> 44	11 <sup>50</sup> 50	T 17
F 18	9 52 59	29 <sup>33</sup> 22	18 <sup>16</sup> 16	12 <sup>00</sup> 00	0 <sup>50</sup> 50	12 <sup>14</sup> 14	5 <sup>53</sup> 53	2 <sup>37</sup> 37	6 <sup>31</sup> 31	20 <sup>36</sup> 36	27 <sup>23</sup> 23	26 <sup>06</sup> 06	25 <sup>57</sup> 57	26 <sup>51</sup> 51	11 <sup>55</sup> 55	F 18
S 19	9 56 55	0 <sup>33</sup> 56	1 <sup>23</sup> 23	13 <sup>46</sup> 46	2 <sup>05</sup> 05	12 <sup>33</sup> 33	5 <sup>46</sup> 46	2 <sup>34</sup> 34	6 <sup>33</sup> 33	20 <sup>38</sup> 38	27 <sup>22</sup> 22	26 <sup>06</sup> 06	25 <sup>54</sup> 54	26 <sup>57</sup> 57	12 <sup>00</sup> 00	S 19
S 20	10 0 52	1 <sup>34</sup> 28	13 <sup>54</sup> 54	15 <sup>31</sup> 31	3 <sup>20</sup> 20	12 <sup>52</sup> 52	5 <sup>40</sup> 40	2 <sup>30</sup> 30	6 <sup>35</sup> 35	20 <sup>40</sup> 40	27 <sup>22</sup> 22	26 <sup>07</sup> 07	25 <sup>51</sup> 51	27 <sup>04</sup> 04	12 <sup>05</sup> 05	S 20
M21	10 4 48	2 <sup>34</sup> 59	26 <sup>21</sup> 21	17 <sup>13</sup> 13	4 <sup>35</sup> 35	13 <sup>10</sup> 10	5 <sup>33</sup> 33	2 <sup>26</sup> 26	6 <sup>38</sup> 38	20 <sup>41</sup> 41	27 <sup>21</sup> 21	26 <sup>07</sup> 07	25 <sup>48</sup> 48	27 <sup>11</sup> 11	12 <sup>09</sup> 09	M21
T 22	10 8 45	3 <sup>35</sup> 28	8 <sup>36</sup> 36	18 <sup>53</sup> 53	5 <sup>50</sup> 50	13 <sup>28</sup> 28	5 <sup>27</sup> 27	2 <sup>23</sup> 23	6 <sup>40</sup> 40	20 <sup>43</sup> 43	27 <sup>21</sup> 21	26 <sup>08</sup> 08	25 <sup>45</sup> 45	27 <sup>17</sup> 17	12 <sup>14</sup> 14	T 22
W23	10 12 42	4 <sup>35</sup> 55	20 <sup>42</sup> 42	20 <sup>31</sup> 31	7 <sup>05</sup> 05	13 <sup>45</sup> 45	5 <sup>21</sup> 21	2 <sup>19</sup> 19	6 <sup>43</sup> 43	20 <sup>45</sup> 45	27 <sup>20</sup> 20	26 <sup>08</sup> 08	25 <sup>42</sup> 42	27 <sup>24</sup> 24	12 <sup>19</sup> 19	W23
T 24	10 16 38	5 <sup>36</sup> 20	2 <sup>41</sup> 41	22 <sup>05</sup> 05	8 <sup>20</sup> 20	14 <sup>02</sup> 02	5 <sup>15</sup> 15	2 <sup>15</sup> 15	6 <sup>45</sup> 45	20 <sup>47</sup> 47	27 <sup>20</sup> 20	26 <sup>08</sup> 08	25 <sup>38</sup> 38	27 <sup>31</sup> 31	12 <sup>23</sup> 23	T 24
F 25	10 20 35	6 <sup>36</sup> 44	14 <sup>34</sup> 34	23 <sup>35</sup> 35	9 <sup>36</sup> 36	14 <sup>19</sup> 19	5 <sup>09</sup> 09	2 <sup>11</sup> 11	6 <sup>47</sup> 47	20 <sup>48</sup> 48	27 <sup>20</sup> 20	26 <sup>08</sup> 08	25 <sup>35</sup> 35	27 <sup>37</sup> 37	12 <sup>28</sup> 28	F 25
S 26	10 24 31	7 <sup>37</sup> 06	26 <sup>25</sup> 25	25 <sup>00</sup> 00	10 <sup>51</sup> 51	14 <sup>35</sup> 35	5 <sup>03</sup> 03	2 <sup>07</sup> 07	6 <sup>49</sup> 49	20 <sup>50</sup> 50	27 <sup>19</sup> 19	26 <sup>07</sup> 07	25 <sup>32</sup> 32	27 <sup>44</sup> 44	12 <sup>32</sup> 32	S 26
S 27	10 28 28	8 <sup>37</sup> 27	8 <sup>14</sup> 14	26 <sup>20</sup> 20	12 <sup>06</sup> 06	14 <sup>50</sup> 50	4 <sup>57</sup> 57	2 <sup>03</sup> 03	6 <sup>52</sup> 52	20 <sup>52</sup> 52	27 <sup>19</sup> 19	26 <sup>05</sup> 05	25 <sup>29</sup> 29	27 <sup>51</sup> 51	12 <sup>37</sup> 37	S 27
M28	10 32 24	9 <sup>37</sup> 46	20 <sup>14</sup> 14	27 <sup>34</sup> 34	13 <sup>21</sup> 21	15 <sup>16</sup> 16	4 <sup>52</sup> 52	1 <sup>59</sup> 59	6 <sup>54</sup> 54	20 <sup>53</sup> 53	27 <sup>19</sup> 19	26 <sup>03</sup> 03	25 <sup>26</sup> 26	27 <sup>57</sup> 57	12 <sup>42</sup> 42	M28

Day	☉	☾		♀		♀		♂		♂		♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
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ASTRODIENST EPHEMERIS for the year 2157  
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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 36 21	10♈38°03	1♈58	28♈42	14♈36	15♈20	4°R46	1°R54	6♈56	20♈55	27°R19	26°R 1	25♈22	28♈4	12♈46	T 1
W 2	10 40 17	11°38'19	14° 0	29°42	15°51	15°35	4♈41	1♈50	6°58	20°57	27°R18	25♈59	25°19	28°11	12°51	W 2
T 3	10 44 14	12°38'34	26°13	0♈35	17° 6	15°48	4°36	1°46	7° 0	20°58	27°18	25°57	25°16	28°17	12°55	T 3
F 4	10 48 10	13°38'47	8♈40	1°20	18°21	16° 1	4°31	1°42	7° 2	21° 0	27°18	25°D56	25°13	28°24	12°59	F 4
S 5	10 52 7	14°38'59	21°27	1°56	19°36	16°14	4°27	1°37	7° 4	21° 1	27°18	25°56	25°10	28°31	13° 4	S 5
S 6	10 56 4	15°39'09	4♈36	2°23	20°51	16°26	4°22	1°33	7° 5	21° 3	27°18	25°57	25° 7	28°37	13° 8	S 6
M 7	11 0 0	16°39'18	18°11	2°41	22° 5	16°38	4°18	1°28	7° 7	21° 4	27°18	25°59	25° 3	28°44	13°13	M 7
T 8	11 3 57	17°39'25	2♈13	2°R50	23°20	16°49	4°14	1°24	7° 9	21° 6	27°18	26° 0	25° 0	28°51	13°17	T 8
W 9	11 7 53	18°39'31	16°41	2°49	24°35	16°59	4°10	1°19	7°11	21° 7	27°18	26° 1	24°57	28°57	13°21	W 9
T 10	11 11 50	19°39'34	1♈32	2°40	25°50	17° 9	4° 6	1°15	7°12	21° 9	27°17	26°R 1	24°54	29° 4	13°25	T 10
F 11	11 15 46	20°39'36	16°39	2°21	27° 5	17°19	4° 2	1°10	7°14	21°10	27°D17	26° 0	24°51	29°11	13°30	F 11
S 12	11 19 43	21°39'36	1°R54	1°55	28°20	17°27	3°59	1° 5	7°16	21°11	27°17	25°58	24°47	29°17	13°34	S 12
S 13	11 23 39	22°39'35	17° 5	1°20	29°35	17°35	3°55	1° 1	7°17	21°13	27°17	25°54	24°44	29°24	13°38	S 13
M14	11 27 36	23°39'31	2♈4	0°40	0°R50	17°43	3°52	0°56	7°19	21°14	27°18	25°50	24°41	29°31	13°42	M14
T 15	11 31 33	24°39'25	16°42	29♈53	2° 4	17°50	3°49	0°51	7°20	21°15	27°18	25°46	24°38	29°37	13°46	T 15
W16	11 35 29	25°39'17	0♈55	29° 2	3°19	17°56	3°47	0°47	7°21	21°17	27°18	25°43	24°35	29°44	13°50	W16
T 17	11 39 26	26°39'06	14°40	28° 8	4°34	18° 1	3°44	0°42	7°23	21°18	27°18	25°41	24°32	29°51	13°54	T 17
F 18	11 43 22	27°38'54	27°58	27°12	5°48	18° 6	3°42	0°37	7°24	21°19	27°18	25°D41	24°28	29°57	13°58	F 18
S 19	11 47 19	28°38'39	10♈51	26°15	7° 3	18°11	3°40	0°33	7°25	21°20	27°18	25°41	24°25	0♈4	14° 2	S 19
S 20	11 51 15	29°38'22	23°24	25°18	8°18	18°14	3°38	0°28	7°26	21°21	27°18	25°43	24°22	0°11	14° 5	S 20
M21	11 55 12	0°R38'03	5♈41	24°23	9°32	18°17	3°36	0°23	7°28	21°22	27°19	25°45	24°19	0°17	14° 9	M21
T 22	11 59 8	1°37'41	17°45	23°31	10°47	18°19	3°34	0°18	7°29	21°23	27°19	25°46	24°16	0°24	14°13	T 22
W23	12 3 5	2°37'17	29°41	22°42	12° 2	18°21	3°33	0°14	7°30	21°24	27°19	25°R46	24°13	0°31	14°17	W23
T 24	12 7 2	3°36'51	11♈32	21°58	13°16	18°21	3°32	0° 9	7°31	21°25	27°19	25°45	24° 9	0°37	14°20	T 24
F 25	12 10 58	4°36'23	23°21	21°19	14°31	18°R21	3°31	0° 4	7°32	21°26	27°20	25°41	24° 6	0°44	14°24	F 25
S 26	12 14 55	5°35'53	5♈11	20°45	15°45	18°21	3°30	29♈59	7°32	21°27	27°20	25°36	24° 3	0°51	14°27	S 26
S 27	12 18 51	6°35'21	17° 2	20°17	17° 0	18°19	3°29	29°55	7°33	21°28	27°20	25°29	24° 0	0°57	14°31	S 27
M28	12 22 48	7°34'46	28°57	19°54	18°14	18°17	3°29	29°50	7°34	21°29	27°21	25°21	23°57	1° 4	14°34	M28
T 29	12 26 44	8°34'10	10♈58	19°38	19°29	18°14	3°29	29°46	7°35	21°30	27°21	25°13	23°53	1°11	14°38	T 29
W30	12 30 41	9°33'32	23° 6	19°27	20°43	18°10	3°D29	29°41	7°35	21°31	27°21	25° 5	23°50	1°17	14°41	W30
T 31	12 34 37	10°R32'53	5♈24	19°D23	21°R57	18♈6	3♈29	29♈36	7°36	21°32	27°R22	24♈59	23♈47	1♈24	14♈44	T 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 lat	decl lat	decl lat	decl lat
T 1	7s34	16s40	4s49	0n45	1n23	7s23	1s27	14s31	1n59	19n47	0n45	1n31	2n29	23s30	0s15	21s 6
W 2	7 12	20 57	5 9	1 22	1 37	6 54	1 26	14 35	1 59	19 48	0 45	1 33	2 29	23 29	0 15	21 6
T 3	6 49	24 24	5 16	1 57	1 52	6 25	1 26	14 39	1 59	19 49	0 45	1 35	2 30	23 29	0 15	21 6
F 4	6 26	26 48	5 8	2 28	2 6	5 56	1 26	14 43	1 59	19 50	0 45	1 37	2 30	23 29	0 15	21 5
S 5	6 2	27 54	4 45	2 55	2 20	5 26	1 26	14 47	1 59	19 52	0 45	1 39	2 30	23 29	0 15	21 5
S 6	5 39	27 27	4 7	3 18	2 33	4 56	1 25	14 50	1 59	19 53	0 45	1 41	2 30	23 29	0 15	21 5
M 7	5 16	25 23	3 14	3 36	2 46	4 26	1 25	14 54	1 59	19 54	0 45	1 43	2 30	23 29	0 15	21 5
T 8	4 52	21 43	2 8	3 50	2 57	3 56	1 25	14 57	1 59	19 55	0 45	1 45	2 30	23 29	0 15	21 4
W 9	4 29	16 38	0 51	3 59	3 8	3 26	1 24	15 0	1 58	19 56	0 45	1 46	2 30	23 29	0 15	21 4
T 10	4 5	10 27	0n30	4 4	3 17	2 56	1 23	15 3	1 58	19 57	0 45	1 48	2 30	23 29	0 15	21 4
F 11	3 42	3 33	1 51	4 3	3 24	2 25	1 23	15 6	1 58	19 57	0 45	1 50	2 31	23 29	0 15	21 4
S 12	3 18	3n35	3 5	3 58	3 30	1 55	1 22	15 9	1 58	19 58	0 45	1 52	2 31	23 29	0 15	21 4
S 13	2 55	10 28	4 5	3 48	3 34	1 25	1 21	15 11	1 57	19 59	0 45	1 54	2 31	23 29	0 15	21 3
M14	2 31	16 40	4 47	3 34	3 36	0 54	1 20	15 14	1 57	20 0	0 45	1 56	2 31	23 29	0 15	21 3
T 15	2 7	21 45	5 10	3 16	3 37	0 23	1 19	15 16	1 57	20 0	0 45	1 58	2 31	23 29	0 16	21 3
W16	1 44	25 25	5 12	2 54	3 35	0n 7	1 18	15 18	1 56	20 1	0 45	2 0	2 31	23 29	0 16	21 3
T 17	1 20	27 27	4 57	2 29	3 31	0 38	1 17	15 20	1 56	20 2	0 45	2 2	2 31	23 28	0 16	21 3
F 18	0 56	27 50	4 25	2 2	3 25	1 8	1 16	15 22	1 56	20 2	0 45	2 4	2 31	23 28	0 16	21 2
S 19	0 32	26 39	3 41	1 32	3 18	1 39	1 15	15 23	1 55	20 3	0 45	2 6	2 31	23 28	0 16	21 2
S 20	0 9	24 9	2 48	1 1	3 9	2 9	1 14	15 25	1 55	20 3	0 45	2 8	2 31	23 28	0 16	21 2
M21	0n15	20 35	1 48	0 30	2 58	2 40	1 13	15 26	1 54	20 3	0 45	2 10	2 31	23 28	0 16	21 2
T 22	0 39	16 12	0 44	0s 2	2 46	3 10	1 11	15 27	1 54	20 4	0 45	2 11	2 31	23 28	0 16	21 2
W23	1 3	11 14	0s21	0 33	2 33	3 41	1 10	15 28	1 53	20 4	0 45	2 13	2 31	23 28	0 16	21 1
T 24	1 26	5 55	1 25	1 4	2 19	4 11	1 9	15 29	1 52	20 4	0 45	2 15	2 31	23 28	0 16	21 1
F 25	1 50	0 25	2 24	1 33	2 4	4 41	1 7	15 29	1 52	20 5	0 45	2 17	2 31	23 28	0 16	21 1
S 26	2 13	5s 5	3 18	2 0	1 49	5 11	1 5	15 30	1 51	20 5	0 45	2 19	2 31	23 28	0 16	21 1
S 27	2 37	10 25	4 2	2 25	1 33	5 41	1 4	15 30	1 50	20 5	0 45	2 21	2 31	23 28	0 16	21 1
M28	3 0	15 24	4 37	2 48	1 18	6 11	1 2	15 30	1 49	20 5	0 44	2 23	2 31	23 28	0 16	21 1
T 29	3 24	19 50	4 59	3 9	1 2	6 41	1 1	15 30	1 49	20 5	0 44	2 25	2 31	23 28	0 16	21 0
W30	3 47	23 30	5 8	3 27	0 47	7 11	0 59	15 30	1 48	20 5	0 44	2 27	2 31	23 28	0 16	21 0
T 31	4n10	26s 9	5s 3	3s43	0n32	7n40	0s57	15s30	1n47	20n 5	0n44	2n28	2n31	23s28	0s16	21s 0

Julian Day Number = 2508947.5, Delta T = 126.71 sec  
Ecliptic obliquity = 23°25'16, Nutation = 0°00'10, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°56'11, Lahiri = 26°03'11

# ASTRODIENST EPHEMERIS for the year 2157

## geocentric

APRIL 2157

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	12 38 34	11°32'11"	17°54'	19°31'	23°12'	18°R 1	3♌29	29°R32	7♋37	21♋32	27♏22	24°R54	23♎44	1♊31	14♋48	F 1
S 2	12 42 31	12°31'28"	0♋39	19°31'	24°26'	17♌55	3°30	29°R27	7°37	21°33	27°23	24°R51	23°41	1°37	14°51	S 2
S 3	12 46 27	13°30'43"	13°43'	19°43'	25°40'	17°48'	3°30	29°23	7°38	21°34	27°23	24°D51	23°38	1°44	14°54	S 3
M 4	12 50 24	14°29'56"	27° 9'	20° 0'	26°55'	17°40'	3°31	29°18	7°38	21°34	27°24	24°51	23°34	1°51	14°57	M 4
T 5	12 54 20	15°29'08"	10♎58	20°22'	28° 9'	17°32'	3°32	29°14	7°38	21°35	27°24	24°52	23°31	1°57	15° 0'	T 5
W 6	12 58 17	16°28'17"	25°13'	20°49'	29°23'	17°23'	3°34	29° 9'	7°39	21°36	27°25	24°R53	23°28	2° 4'	15° 3'	W 6
T 7	13 2 13	17°27'25"	9♋51	21°20'	0♋38	17°13'	3°35	29° 5'	7°39	21°36	27°25	24°52	23°25	2°11	15° 6'	T 7
F 8	13 6 10	18°26'31"	24°50'	21°55'	1°52'	17° 2'	3°37	29° 1'	7°39	21°37	27°26	24°49	23°22	2°17	15° 9'	F 8
S 9	13 10 6	19°25'35"	10♏0	22°34'	3° 6'	16°51'	3°39	28°56	7°39	21°37	27°27	24°43	23°19	2°24	15°12	S 9
S 10	13 14 3	20°24'38"	25°14'	23°18'	4°20'	16°39'	3°41	28°52	7°39	21°38	27°27	24°36	23°15	2°31	15°15	S 10
M 11	13 17 59	21°23'38"	10♋20	24° 4'	5°34'	16°26'	3°43	28°48	7°R39	21°38	27°28	24°27	23°12	2°37	15°17	M 11
T 12	13 21 56	22°22'36"	25° 9'	24°54'	6°48'	16°12'	3°45	28°44	7°39	21°38	27°29	24°18	23° 9'	2°44	15°20	T 12
W 13	13 25 53	23°21'32"	9♏32	25°47'	8° 2'	15°58'	3°48	28°40	7°39	21°39	27°29	24°10	23° 6'	2°51	15°22	W 13
T 14	13 29 49	24°20'26"	23°27'	26°44'	9°16'	15°43'	3°51	28°36	7°39	21°39	27°30	24° 4'	23° 3'	2°58	15°25	T 14
F 15	13 33 46	25°19'17"	6♋52	27°43'	10°30'	15°27'	3°54	28°32	7°39	21°39	27°31	24° 1'	22°59	3° 4'	15°27	F 15
S 16	13 37 42	26°18'07"	19°49'	28°45'	11°44'	15°11'	3°57	28°28	7°39	21°40	27°32	23°59	22°56	3°11	15°30	S 16
S 17	13 41 39	27°16'53"	2♌22	29°50'	12°58'	14°54'	4° 0'	28°24	7°39	21°40	27°32	23°D59	22°53	3°18	15°32	S 17
M 18	13 45 35	28°15'38"	14°37'	0♏57	14°12'	14°37'	4° 4'	28°20	7°38	21°40	27°33	23°59	22°50	3°24	15°34	M 18
T 19	13 49 32	29°14'21"	26°38'	2° 6'	15°26'	14°19'	4° 7'	28°16	7°38	21°40	27°34	24°R 0	22°47	3°31	15°37	T 19
W 20	13 53 29	0♋13'01"	8♏30	3°18'	16°40'	14° 0'	4°11	28°13	7°38	21°40	27°35	23°59	22°44	3°38	15°39	W 20
T 21	13 57 25	1°11'39"	20°19'	4°32'	17°54'	13°41'	4°15	28° 9'	7°37	21°40	27°36	23°55	22°40	3°44	15°41	T 21
F 22	14 1 22	2°10'15"	2♎7	5°49'	19° 8'	13°21'	4°19	28° 6'	7°37	21°40	27°36	23°49	22°37	3°51	15°43	F 22
S 23	14 5 18	3° 8'48"	13°58'	7° 7'	20°21'	13° 1'	4°24	28° 2'	7°36	21°R40	27°37	23°41	22°34	3°58	15°45	S 23
S 24	14 9 15	4° 7'20"	25°54'	8°28'	21°35'	12°41'	4°28	27°59	7°35	21°40	27°38	23°30	22°31	4° 4'	15°47	S 24
M 25	14 13 11	5° 5'50"	7♌57	9°50'	22°49'	12°20'	4°33	27°56	7°35	21°40	27°39	23°18	22°28	4°11	15°48	M 25
T 26	14 17 8	6° 4'19"	20° 8'	11°15'	24° 3'	11°59'	4°37	27°52	7°34	21°40	27°40	23° 5'	22°24	4°18	15°50	T 26
W 27	14 21 4	7° 2'45"	2♋28	12°41'	25°16'	11°37'	4°42	27°49	7°33	21°40	27°41	22°52	22°21	4°24	15°52	W 27
T 28	14 25 1	8° 1'10"	14°58'	14°10'	26°30'	11°16'	4°48	27°46	7°33	21°40	27°42	22°41	22°18	4°31	15°54	T 28
F 29	14 28 57	8°59'33"	27°38'	15°40'	27°43'	10°54'	4°53	27°43	7°32	21°40	27°43	22°33	22°15	4°38	15°55	F 29
S 30	14 32 54	9♋57'54"	10♋32	17°12'	28♋57	10♌32	4♌58	27°R40	7♋31	21♋40	27°R44	22°R27	22°R12	4♎44	15°R57	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	decl	lat	decl	lat	decl	lat	decl	lat
F 1	4n34	27s35	4s44	3s56	0n17	8n 9	0s55	15s29	1n46	20n 5	0n44	2n30	2n31	23s28	0s16	21s 0	0n42	16n20	7s 4	13s13	13s36	3s30	10s 4	6n36											
S 2	4 57	27 36	4 11	4 6	0 3	8 38	0 53	15 29	1 45	20 5	0 44	2 32	2 31	23 28	0 16	21 0	0 42	16 20	7 4	13 14	13 37	3 33	10 3	6 36											
S 3	5 20	26 5	3 23	4 14	0s11	9 7	0 51	15 28	1 44	20 4	0 44	2 34	2 31	23 28	0 16	21 0	0 42	16 20	7 4	13 14	13 38	3 36	10 2	6 36											
M 4	5 43	23 4	2 24	4 20	0 24	9 36	0 49	15 27	1 43	20 4	0 44	2 35	2 31	23 28	0 16	21 0	0 42	16 20	7 3	13 14	13 39	3 40	10 0	6 37											
T 5	6 6	18 39	1 14	4 23	0 37	10 4	0 47	15 25	1 42	20 4	0 44	2 37	2 31	23 28	0 16	21 0	0 42	16 21	7 3	13 13	13 40	3 43	9 59	6 37											
W 6	6 28	13 5	0n 2	4 23	0 49	10 33	0 45	15 24	1 41	20 4	0 44	2 39	2 31	23 28	0 16	20 59	0 42	16 21	7 3	13 13	13 41	3 46	9 58	6 38											
T 7	6 51	6 38	1 20	4 22	1 1	11 0	0 43	15 22	1 39	20 3	0 44	2 41	2 31	23 28	0 16	20 59	0 42	16 21	7 3	13 13	13 42	3 50	9 57	6 38											
F 8	7 13	0n18	2 34	4 18	1 12	11 28	0 41	15 21	1 38	20 3	0 44	2 42	2 31	23 28	0 16	20 59	0 42	16 21	7 3	13 14	13 43	3 53	9 56	6 38											
S 9	7 36	7 18	3 38	4 12	1 22	11 56	0 39	15 19	1 37	20 2	0 44	2 44	2 31	23 28	0 16	20 59	0 43	16 21	7 2	13 16	13 44	3 56	9 54	6 39											
S 10	7 58	13 53	4 26	4 4	1 32	12 23	0 37	15 17	1 35	20 2	0 44	2 46	2 31	23 28	0 16	20 59	0 43	16 22	7 2	13 19	13 45	3 59	9 53	6 39											
M11	8 20	19 35	4 56	3 54	1 41	12 50	0 34	15 14	1 34	20 1	0 44	2 47	2 31	23 28	0 16	20 59	0 43	16 22	7 2	13 22	13 46	4 3	9 52	6 40											
T 12	8 42	23 58	5 5	3 42	1 49	13 16	0 32	15 12	1 32	20 1	0 44	2 49	2 31	23 28	0 16	20 59	0 43	16 22	7 2	13 25	13 47	4 6	9 51	6 40											
W13	9 4	26 43	4 54	3 28	1 57	13 42	0 30	15 9	1 31	20 0	0 44	2 50	2 31	23 28	0 16	20 59	0 43	16 22	7 2	13 27	13 49	4 9	9 50	6 40											
T 14	9 26	27 42	4 26	3 12	2 4	14 8	0 27	15 7	1 29	19 59	0 44	2 52	2 31	23 28	0 16	20 59	0 43	16 22	7 1	13 29	13 50	4 13	9 49	6 41											
F 15	9 47	26 59	3 44	2 55	2 11	14 34	0 25	15 4	1 27	19 59	0 44	2 53	2 31	23 28	0 16	20 59	0 43	16 23	7 1	13 30	13 51	4 16	9 48	6 41											
S 16	10 9	24 48	2 52	2 36	2 17	14 59	0 23	15 1	1 26	19 58	0 44	2 55	2 31	23 28	0 16	20 59	0 43	16 23	7 1	13 31	13 52	4 19	9 47	6 42											
S 17	10 30	21 27	1 53	2 15	2 23	15 24	0 20	14 57	1 24	19 57	0 44	2 56	2 30	23 28	0 16	20 59	0 43	16 23	7 1	13 31	13 53	4 22	9 45	6 42											
M18	10 51	17 14	0 50	1 53	2 27	15 48	0 18	14 54	1 22	19 56	0 44	2 58	2 30	23 28	0 16	20 59	0 43	16 23	7 1	13 31	13 54	4 26	9 44	6 42											
T 19	11 12	12 24	0s14	1 29	2 32	16 12	0 15	14 51	1 20	19 55	0 44	2 59	2 30	23 28	0 16	20 59	0 43	16 23	7 1	13 31	13 55	4 29	9 43	6 43											
W20	11 32	7 11	1 17	1 4	2 35	16 36	0 13	14 47	1 18	19 54	0 44	3 0	2 30	23 28	0 16	20 59	0 43	16 24	7 0	13 31	13 56	4 32	9 42	6 43											
T 21	11 53	1 46	2 15	0 37	2 38	16 59	0 10	14 43	1 16	19 53	0 44	3 2	2 30	23 28	0 16	20 59	0 43	16 24	7 0	13 32	13 57	4 35	9 41	6 44											
F 22	12 13	3s43	3 8	0 9	2 41	17 22	0 8	14 39	1 14	19 52	0 44	3 3	2 30	23 28	0 16	20 59	0 43	16 24	7 0	13 34	13 58	4 39	9 40	6 44											
S 23	12 33	9 5	3 53	0n20	2 43	17 44	0 5	14 35	1 12	19 51	0 44	3 4	2 30	23 29	0 16	20 58	0 43	16 24	7 0	13 37	13 59	4 42	9 39	6 45											
S 24	12 53	14 9	4 27	0 50	2 44	18 6	0 3	14 31	1 10	19 50	0 43	3 6	2 30	23 29	0 16	20 58	0 43	16 24	7 0	13 41	14 0	4 45	9 38	6 45											
M25	13 13	18 43	4 51	1 22	2 45	18 27	0 0	14 27	1 8	19 49	0 43	3 7	2 30	23 29	0 16	20 58	0 43	16 25	6 59	13 45	14 1	4 49	9 37	6 45											
T 26	13 32	22 35	5 1	1 55	2 45	18 48	0n 2	14 23	1 6	19 48	0 43	3 8	2 29	23 29	0 16	20 58	0 43	16 25	6 59	13 49	14 2	4 52	9 37	6 46											
W27	13 51	25 29	4 57	2 28	2 45	19 9	0 5	14 18	1 3	19 46	0 43	3 9	2 29	23 29	0 16	20 58	0 43	16 25	6 59	13 53	14 3	4 55	9 36	6 46											
T 28	14 10	27 12	4 39	3 3	2 44	19 29	0 7	14 14	1 1	19 45	0 43	3 10	2 29	23 29	0 16	20 58	0 43	16 25	6 59	13 57	14 4	4 58	9 35	6 47											
F 29	14 29	27 31	4 7	3 39	2 43	19 48	0 10	14 9	0 59	19 44	0 43	3 11	2 29	23 29	0 17	20 58	0 43	16 25	6 59	13 59	14 5	5 2	9 34	6 47											
S 30	14n48	26s22	3s22	4n16	2s41	20n 7	0n13	14s 5	0n56	19n42	0n43	3n12	2n29	23s29	0s17	20s59	0n43	16n25	6s59	14s 1	14s 6	5s 5	9s33	6n48											

# ASTRODIENST EPHEMERIS for the year 2157

## geocentric

MAY 2157

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 51	10°56'14	23°39	18°46	0°11	10°R 9	5°0 4	27°R37	7°R30	21°R39	27°II45	22°R24	22° 9	4°51	15°58	S 1
M 2	14 40 47	11°54'32	7° 2	20°22	1°24	9°M47	5°10	27°M35	7°Z29	21°Z39	27°46	22°23	22° 5	4°58	15°59	M 2
T 3	14 44 44	12°52'49	20°45	22° 0	2°37	9°25	5°16	27°32	7°28	21°39	27°47	22°23	22° 2	5° 4	16° 1	T 3
W 4	14 48 40	13°51'04	4°47	23°40	3°51	9° 2	5°22	27°30	7°27	21°38	27°48	22°23	21°59	5°11	16° 2	W 4
T 5	14 52 37	14°49'18	19° 9	25°21	5° 4	8°40	5°28	27°27	7°26	21°38	27°49	22°21	21°56	5°18	16° 3	T 5
F 6	14 56 33	15°47'31	3°49	27° 4	6°18	8°18	5°34	27°25	7°24	21°38	27°50	22°17	21°53	5°24	16° 4	F 6
S 7	15 00 30	16°45'41	18°42	28°49	7°31	7°55	5°41	27°22	7°23	21°37	27°51	22°10	21°50	5°31	16° 5	S 7
S 8	15 4 26	17°43'51	3°41	0°36	8°44	7°34	5°47	27°20	7°22	21°37	27°53	22° 0	21°46	5°38	16° 6	S 8
M 9	15 8 23	18°41'59	18°37	2°25	9°58	7°12	5°54	27°18	7°21	21°36	27°54	21°49	21°43	5°45	16° 7	M 9
T 10	15 12 20	19°40'05	3°II19	4°16	11°11	6°50	6° 1	27°16	7°19	21°36	27°55	21°38	21°40	5°51	16° 8	T 10
W11	15 16 16	20°38'09	17°41	6° 8	12°24	6°29	6° 8	27°14	7°18	21°35	27°56	21°27	21°37	5°58	16° 9	W11
T 12	15 20 13	21°36'12	1°38	8° 3	13°37	6° 9	6°15	27°13	7°16	21°35	27°57	21°19	21°34	6° 5	16° 9	T 12
F 13	15 24 9	22°34'13	15° 6	9°59	14°51	5°48	6°23	27°11	7°15	21°34	27°58	21°13	21°30	6°11	16°10	F 13
S 14	15 28 6	23°32'13	28° 7	11°57	16° 4	5°28	6°30	27° 9	7°14	21°33	28° 0	21° 9	21°27	6°18	16°10	S 14
S 15	15 32 2	24°30'10	10°04	13°56	17°17	5° 9	6°38	27° 8	7°12	21°33	28° 1	21° 8	21°24	6°25	16°11	S 15
M16	15 35 59	25°28'05	23° 1	15°58	18°30	4°50	6°45	27° 6	7°10	21°32	28° 2	21° 8	21°21	6°31	16°11	M16
T 17	15 39 56	26°25'59	5°M 3	18° 1	19°43	4°32	6°53	27° 5	7° 9	21°31	28° 3	21° 8	21°18	6°38	16°12	T 17
W18	15 43 52	27°23'51	16°56	20° 6	20°56	4°14	7° 1	27° 4	7° 7	21°31	28° 4	21° 7	21°15	6°45	16°12	W18
T 19	15 47 49	28°21'41	28°45	22°12	22° 9	3°57	7° 9	27° 3	7° 5	21°30	28° 6	21° 3	21°11	6°51	16°12	T 19
F 20	15 51 45	29°19'30	10°035	24°20	23°22	3°40	7°17	27° 2	7° 4	21°29	28° 7	20°58	21° 8	6°58	16°12	F 20
S 21	15 55 42	0°II17'16	22°29	26°29	24°35	3°24	7°26	27° 1	7° 2	21°28	28° 8	20°49	21° 5	7° 5	16°R12	S 21
S 22	15 59 38	1°15'02	4°M32	28°39	25°48	3° 9	7°34	27° 0	7° 0	21°27	28°10	20°38	21° 2	7°11	16°12	S 22
M23	16 3 35	2°12'46	16°44	0°II49	27° 0	2°55	7°43	26°59	6°58	21°26	28°11	20°26	20°59	7°18	16°12	M23
T 24	16 7 31	3°10'28	29° 8	3° 0	28°13	2°41	7°51	26°59	6°56	21°25	28°12	20°13	20°56	7°25	16°12	T 24
W25	16 11 28	4° 8'10	11°Z43	5°12	29°26	2°28	8° 0	26°58	6°55	21°25	28°13	20° 1	20°52	7°31	16°12	W25
T 26	16 15 25	5° 5'50	24°30	7°24	0°39	2°16	8° 9	26°58	6°53	21°24	28°15	19°50	20°49	7°38	16°11	T 26
F 27	16 19 21	6° 3'29	7°Z29	9°35	1°51	2° 4	8°18	26°58	6°51	21°23	28°16	19°41	20°46	7°45	16°11	F 27
S 28	16 23 18	7° 1'06	20°39	11°46	3° 4	1°54	8°27	26°57	6°49	21°22	28°17	19°36	20°43	7°52	16°11	S 28
S 29	16 27 14	7°58'43	4° 0	13°57	4°17	1°44	8°36	26°D57	6°47	21°21	28°19	19°33	20°40	7°58	16°10	S 29
M30	16 31 11	8°56'19	17°33	16° 6	5°29	1°35	8°46	26°57	6°45	21°19	28°20	19°D32	20°36	8° 5	16°10	M30
T 31	16 35 7	9°II53'54	1°X18	18°II14	6°342	1°M26	8°055	26°M57	6°43	21°Z18	28°II22	19°332	20°333	8°12	16° 9	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	15n 6	23s45	2s26	4n54	2s38	20n25	0n15	14s 0	0n54	19n41	0n43	3n13	2n29	23s29	0s17	20s59
M 2	15 24	19 48	1 20	5 33	2 35	20 43	0 18	13 55	0 51	19 40	0 43	3 14	2 29	23 29	0 17	20 59
T 3	15 42	14 42	0 9	6 13	2 32	21 0	0 20	13 51	0 49	19 38	0 43	3 15	2 28	23 29	0 17	20 59
W 4	15 59	8 44	1n 5	6 53	2 28	21 17	0 23	13 46	0 46	19 37	0 43	3 16	2 28	23 29	0 17	20 59
T 5	16 16	2 12	2 16	7 34	2 23	21 33	0 26	13 41	0 44	19 35	0 43	3 17	2 28	23 29	0 17	20 59
F 6	16 33	4n35	3 20	8 16	2 18	21 48	0 28	13 37	0 41	19 34	0 43	3 17	2 28	23 29	0 17	20 59
S 7	16 50	11 12	4 11	8 59	2 13	22 3	0 31	13 32	0 38	19 32	0 43	3 18	2 28	23 30	0 17	20 59
S 8	17 6	17 12	4 45	9 42	2 6	22 18	0 33	13 27	0 36	19 30	0 43	3 19	2 28	23 30	0 17	20 59
M 9	17 22	22 9	5 0	10 26	2 0	22 31	0 36	13 23	0 33	19 29	0 43	3 20	2 27	23 30	0 17	20 59
T 10	17 38	25 37	4 54	11 10	1 53	22 44	0 38	13 18	0 31	19 27	0 43	3 20	2 27	23 30	0 17	20 59
W11	17 54	27 20	4 30	11 54	1 45	22 57	0 41	13 14	0 28	19 25	0 43	3 21	2 27	23 30	0 17	20 59
T 12	18 9	27 15	3 50	12 39	1 37	23 8	0 43	13 10	0 25	19 23	0 43	3 21	2 27	23 30	0 17	20 59
F 13	18 24	25 31	2 58	13 23	1 29	23 19	0 46	13 6	0 23	19 21	0 43	3 22	2 27	23 30	0 17	20 59
S 14	18 39	22 27	1 59	14 8	1 20	23 30	0 48	13 1	0 20	19 19	0 43	3 22	2 26	23 30	0 17	20 59
S 15	18 53	18 24	0 55	14 53	1 11	23 39	0 51	12 57	0 17	19 18	0 43	3 23	2 26	23 30	0 17	20 59
M16	19 7	13 41	0s10	15 37	1 2	23 48	0 53	12 54	0 15	19 16	0 43	3 23	2 26	23 30	0 17	21 0
T 17	19 20	8 31	1 13	16 21	0 52	23 57	0 56	12 50	0 12	19 14	0 43	3 23	2 26	23 31	0 17	21 0
W18	19 34	3 8	2 12	17 5	0 42	24 5	0 58	12 47	0 9	19 12	0 43	3 24	2 26	23 31	0 17	21 0
T 19	19 47	2s20	3 5	17 48	0 31	24 12	1 0	12 43	0 7	19 9	0 43	3 24	2 26	23 31	0 17	21 0
F 20	19 59	7 43	3 50	18 30	0 21	24 18	1 3	12 40	0 4	19 7	0 43	3 24	2 25	23 31	0 17	21 0
S 21	20 12	12 51	4 25	19 11	0 11	24 23	1 5	12 37	0 1	19 5	0 43	3 24	2 25	23 31	0 17	21 0
S 22	20 24	17 33	4 49	19 51	0n 0	24 28	1 7	12 34	0s 1	19 3	0 43	3 25	2 25	23 31	0 17	21 0
M23	20 35	21 36	5 0	20 29	0 11	24 33	1 9	12 32	0 4	19 1	0 43	3 25	2 25	23 31	0 17	21 0
T 24	20 47	24 46	4 57	21 5	0 21	24 36	1 11	12 30	0 6	18 59	0 42	3 25	2 25	23 31	0 17	21 0
W25	20 57	26 47	4 40	21 40	0 31	24 39	1 14	12 27	0 9	18 56	0 42	3 25	2 24	23 31	0 17	21 1
T 26	21 8	27 26	4 8	22 12	0 41	24 41	1 16	12 26	0 11	18 54	0 42	3 25	2 24	23 32	0 17	21 1
F 27	21 18	26 35	3 23	22 43	0 51	24 42	1 18	12 24	0 14	18 52	0 42	3 25	2 24	23 32	0 17	21 1
S 28	21 28	24 15	2 27	23 11	1 0	24 43	1 20	12 22	0 16	18 49	0 42	3 24	2 24	23 32	0 17	21 1
S 29	21 37	20 34	1 22	23 36	1 9	24 43	1 22	12 21	0 18	18 47	0 42	3 24	2 23	23 32	0 17	21 1
M30	21 46	15 44	0 11	23 59	1 18	24 42	1 23	12 20	0 21	18 44	0 42	3 24	2 23	23 32	0 17	21 1
T 31	21n55	10s 2	1n 2	24n19	1n26	24n40	1n25	12s20	0s23	18n42	0n42	3n24	2n23	23s32	0s17	21s 2

Julian Day Number = 2509008.5, Delta T = 126.83 sec

Ecliptic obliquity = 23°25'15, Nutation = 0°00'09, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°56'19, Lahiri = 26°03'20



ASTRODIENST EPHEMERIS for the year 2157  
geocentric

JUNE 2157

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 39 4	10 <sup>II</sup> 51'28	15 <sup>II</sup> 16	20 <sup>II</sup> 21	7 <sup>II</sup> 54	1°R19	9 <sup>II</sup> 4	26 <sup>II</sup> 58	6°R40	21°R17	28 <sup>II</sup> 23	19°R32	20 <sup>II</sup> 30	8 <sup>II</sup> 18	16°R 8	W 1
T 2	16 43 0	11°49'01	29°28	22°25	9° 7	1 <sup>II</sup> 12	9°14	26°58	6°38	21°16	28°24	19°31	20°27	8°25	16° 7	T 2
F 3	16 46 57	12°46'33	13°V50	24°28	10°19	1° 6	9°24	26°58	6°36	21°15	28°26	19°28	20°24	8°32	16° 7	F 3
S 4	16 50 54	13°44'05	28°22	26°29	11°31	1° 1	9°34	26°59	6°34	21°14	28°27	19°22	20°21	8°38	16° 6	S 4
S 5	16 54 50	14°41'36	12 <sup>II</sup> 56	28°28	12°44	0°57	9°44	27° 0	6°32	21°13	28°28	19°14	20°17	8°45	16° 5	S 5
M 6	16 58 47	15°39'06	27°29	0 <sup>II</sup> 24	13°56	0°53	9°54	27° 0	6°30	21°11	28°30	19° 5	20°14	8°52	16° 4	M 6
T 7	17 2 43	16°36'35	11 <sup>II</sup> 51	2°18	15° 8	0°51	10° 4	27° 1	6°27	21°10	28°31	18°55	20°11	8°58	16° 3	T 7
W 8	17 6 40	17°34'04	25°58	4°10	16°21	0°49	10°14	27° 2	6°25	21° 9	28°33	18°46	20° 8	9° 5	16° 1	W 8
T 9	17 10 36	18°31'31	9 <sup>II</sup> 44	5°59	17°33	0°48	10°24	27° 3	6°23	21° 8	28°34	18°39	20° 5	9°12	16° 0	T 9
F 10	17 14 33	19°28'58	23° 6	7°46	18°45	0°D47	10°34	27° 4	6°21	21° 6	28°35	18°34	20° 2	9°19	15°59	F 10
S 11	17 18 29	20°26'23	6 <sup>II</sup> 5	9°30	19°57	0°48	10°45	27° 5	6°18	21° 5	28°37	18°31	19°58	9°25	15°58	S 11
S 12	17 22 26	21°23'47	18°42	11°11	21° 9	0°49	10°55	27° 7	6°16	21° 4	28°38	18°D30	19°55	9°32	15°56	S 12
M13	17 26 23	22°21'10	1 <sup>II</sup> 1	12°50	22°21	0°52	11° 6	27° 8	6°14	21° 2	28°40	18°31	19°52	9°39	15°55	M13
T 14	17 30 19	23°18'33	13° 5	14°26	23°33	0°55	11°17	27°10	6°11	21° 1	28°41	18°32	19°49	9°45	15°53	T 14
W15	17 34 16	24°15'54	25° 0	15°59	24°45	0°58	11°27	27°11	6° 9	20°59	28°43	18°R32	19°46	9°52	15°52	W15
T 16	17 38 12	25°13'14	6 <sup>II</sup> 51	17°30	25°57	1° 3	11°38	27°13	6° 7	20°58	28°44	18°31	19°42	9°59	15°50	T 16
F 17	17 42 9	26°10'33	18°43	18°57	27° 9	1° 8	11°49	27°15	6° 4	20°57	28°45	18°28	19°39	10° 5	15°48	F 17
S 18	17 46 5	27° 7'52	0 <sup>II</sup> 40	20°23	28°21	1°14	12° 0	27°17	6° 2	20°55	28°47	18°24	19°36	10°12	15°46	S 18
S 19	17 50 2	28° 5'09	12°48	21°45	29°32	1°21	12°11	27°19	5°59	20°54	28°48	18°17	19°33	10°19	15°45	S 19
M20	17 53 58	29° 2'26	25° 8	23° 5	0 <sup>II</sup> 44	1°28	12°22	27°21	5°57	20°52	28°50	18° 9	19°30	10°25	15°43	M20
T 21	17 57 55	29°59'42	7 <sup>II</sup> 42	24°21	1°56	1°36	12°34	27°23	5°54	20°51	28°51	18° 1	19°27	10°32	15°41	T 21
W22	18 1 52	0 <sup>II</sup> 56'58	20°33	25°35	3° 7	1°45	12°45	27°26	5°52	20°49	28°52	17°53	19°23	10°39	15°39	W22
T 23	18 5 48	1°54'13	3 <sup>II</sup> 39	26°46	4°19	1°55	12°56	27°28	5°50	20°48	28°54	17°46	19°20	10°46	15°37	T 23
F 24	18 9 45	2°51'28	16°59	27°54	5°30	2° 5	13° 8	27°31	5°47	20°46	28°55	17°40	19°17	10°52	15°35	F 24
S 25	18 13 41	3°48'42	0 <sup>II</sup> 31	28°58	6°42	2°16	13°19	27°33	5°45	20°45	28°57	17°37	19°14	10°59	15°32	S 25
S 26	18 17 38	4°45'56	14°15	29°59	7°53	2°27	13°31	27°36	5°42	20°43	28°58	17°D36	19°11	11° 6	15°30	S 26
M27	18 21 34	5°43'10	28° 8	0 <sup>II</sup> 58	9° 4	2°39	13°42	27°39	5°40	20°42	29° 0	17°36	19° 8	11°12	15°28	M27
T 28	18 25 31	6°40'24	12 <sup>II</sup> 8	1°53	10°15	2°52	13°54	27°42	5°37	20°40	29° 1	17°37	19° 4	11°19	15°26	T 28
W29	18 29 28	7°37'37	26°14	2°44	11°27	3° 5	14° 6	27°45	5°35	20°39	29° 2	17°39	19° 1	11°26	15°23	W29
T 30	18 33 24	8 <sup>II</sup> 34'51	10°V24	3 <sup>II</sup> 32	12 <sup>II</sup> 38	3 <sup>II</sup> 19	14 <sup>II</sup> 18	27 <sup>II</sup> 48	5 <sup>II</sup> 33	20 <sup>II</sup> 37	29 <sup>II</sup> 4	17°R39	18 <sup>II</sup> 58	11 <sup>II</sup> 32	15 <sup>II</sup> 21	T 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
W 1	22n 3	3s46	2n12	24n37	1n33	24n38	1n27	12s19	0s25	18n39	0n42	3n24	2n23	23s32	0s17	21s 2	0n43	16n30	6s55	14s57	14s39	6s48	9s16	7n 2	
T 2	22 11	2n46	3 15	24 51	1 39	24 35	1 29	12 19	0 28	18 37	0 42	3 23	2 23	23 32	0 17	21 2	0 43	16 30	6 54	14 57	14 40	6 51	9 16	7 3	
F 3	22 19	9 15	4 7	25 3	1 45	24 31	1 30	12 19	0 30	18 34	0 42	3 23	2 22	23 33	0 17	21 2	0 43	16 30	6 54	14 58	14 41	6 54	9 15	7 3	
S 4	22 26	15 17	4 43	25 13	1 50	24 27	1 32	12 19	0 32	18 31	0 42	3 22	2 22	23 33	0 17	21 2	0 43	16 30	6 54	15 0	14 42	6 57	9 15	7 4	
S 5	22 33	20 29	5 1	25 19	1 55	24 22	1 34	12 20	0 34	18 29	0 42	3 22	2 22	23 33	0 17	21 2	0 43	16 31	6 54	15 3	14 43	7 1	9 15	7 4	
M 6	22 39	24 27	5 0	25 24	1 58	24 16	1 35	12 20	0 36	18 26	0 42	3 22	2 22	23 33	0 17	21 3	0 43	16 31	6 54	15 5	14 44	7 4	9 15	7 4	
T 7	22 45	26 48	4 40	25 25	2 1	24 10	1 37	12 21	0 38	18 23	0 42	3 21	2 22	23 33	0 17	21 3	0 43	16 31	6 54	15 8	14 45	7 7	9 15	7 5	
W 8	22 50	27 24	4 2	25 25	2 3	24 2	1 38	12 23	0 40	18 21	0 42	3 20	2 21	23 33	0 17	21 3	0 43	16 31	6 54	15 11	14 46	7 10	9 15	7 5	
T 9	22 56	26 15	3 12	25 22	2 5	23 55	1 39	12 24	0 42	18 18	0 42	3 20	2 21	23 33	0 17	21 3	0 43	16 31	6 54	15 14	14 47	7 13	9 15	7 6	
F 10	23 0	23 36	2 11	25 17	2 5	23 46	1 40	12 26	0 44	18 15	0 42	3 19	2 21	23 33	0 17	21 3	0 43	16 31	6 54	15 15	14 48	7 16	9 15	7 6	
S 11	23 5	19 48	1 6	25 10	2 5	23 37	1 42	12 28	0 46	18 12	0 42	3 19	2 21	23 34	0 17	21 4	0 43	16 31	6 54	15 16	14 49	7 20	9 15	7 6	
S 12	23 8	15 11	0s 1	25 1	2 4	23 27	1 43	12 30	0 48	18 9	0 42	3 18	2 21	23 34	0 17	21 4	0 43	16 31	6 54	15 16	14 50	7 23	9 15	7 7	
M13	23 12	10 4	1 7	24 50	2 2	23 16	1 44	12 33	0 50	18 6	0 42	3 17	2 20	23 34	0 17	21 4	0 43	16 31	6 54	15 16	14 51	7 26	9 15	7 7	
T 14	23 15	4 40	2 8	24 38	2 0	23 5	1 45	12 35	0 52	18 3	0 42	3 16	2 20	23 34	0 17	21 4	0 43	16 31	6 54	15 16	14 52	7 29	9 15	7 8	
W15	23 18	0s49	3 3	24 24	1 57	22 53	1 46	12 38	0 54	18 0	0 42	3 15	2 20	23 34	0 17	21 4	0 43	16 31	6 53	15 16	14 53	7 32	9 15	7 8	
T 16	23 20	6 14	3 50	24 9	1 53	22 41	1 46	12 42	0 55	17 57	0 42	3 14	2 20	23 34	0 17	21 5	0 43	16 31	6 53	15 16	14 54	7 35	9 15	7 8	
F 17	23 22	11 26	4 27	23 52	1 48	22 28	1 47	12 45	0 57	17 54	0 42	3 14	2 19	23 34	0 17	21 5	0 43	16 32	6 53	15 17	14 55	7 39	9 15	7 9	
S 18	23 23	16 16	4 52	23 34	1 43	22 14	1 48	12 49	0 59	17 51	0 42	3 13	2 19	23 34	0 17	21 5	0 43	16 32	6 53	15 18	14 56	7 42	9 15	7 9	
S 19	23 24	20 31	5 5	23 16	1 37	22 0	1 48	12 53	1 0	17 48	0 42	3 12	2 19	23 35	0 17	21 5	0 43	16 32	6 53	15 20	14 57	7 45	9 16	7 9	
M20	23 25	23 57	5 5	22 56	1 30	21 45	1 49	12 57	1 2	17 45	0 42	3 11	2 19	23 35	0 17	21 5	0 43	16 32	6 53	15 23	14 58	7 48	9 16	7 10	
T 21	23 25	26 20	4 49	22 35	1 23	21 29	1 49	13 1	1 4	17 42	0 42	3 9	2 19	23 35	0 17	21 6	0 43	16 32	6 53	15 25	14 59	7 51	9 16	7 10	
W22	23 25	27 23	4 19	22 14	1 15	21 13	1 50	13 6	1 5	17 39	0 42	3 8	2 18	23 35	0 17	21 6	0 43	16 32	6 53	15 28	15 0	7 54	9 16	7 11	
T 23	23 24	26 57	3 35	21 52	1 6	20 57	1 50	13 10	1 7	17 35	0 42	3 7	2 18	23 35	0 17	21 6	0 43	16 32	6 53	15 30	15 1	7 57	9 16	7 11	
F 24	23 23	24 57	2 38	21 30	0 57	20 40	1 50	13 15	1 8	17 32	0 42	3 6	2 18	23 35	0 17	21 6	0 43	16 32	6 53	15 31	15 2	8 1	9 17	7 11	
S 25	23 22	21 30	1 31	21 7	0 47	20 22	1 50	13 20	1 9	17 29	0 42	3 5	2 18	23 35	0 17	21 7	0 43	16 32	6 53	15 32	15 3	8 4	9 17	7 12	
S 26	23 20	16 50	0 18	20 44	0 37	20 4	1 50	13 26	1 11	17 26	0 42	3 4	2 18	23 35	0 17	21 7	0 43	16 32	6 53	15 33	15 4	8 7	9 17	7 12	
M27	23 18	11 14	0n57	20 21	0 26	19 45	1 50	13 31	1 12	17 22	0 42	3 2	2 17	23 35	0 17	21 7	0 43	16 32	6 53	15 33	15 5	8 10	9 18	7 12	
T 28	23 15	5 1	2 9	19 58	0 14	19 25	1 50	13 37	1 14	17 19	0 42	3 1	2 17	23 36	0 18	21 7	0 43	16 32	6 53	15 32	15 6	8 13	9 18	7 12	
W29	23 12	1n28	3 14	19 34	0 2	19 6	1 50	13 42	1 15	17 16	0 42	3 0	2 17	23 36	0 18	21 8	0 43	16 32	6 53	15 32	15 7	8 16	9 18	7 13	
T 30	23n 9	7n55	4n 8	19n11	0s10	18n45	1n50	13s48	1s16	17n12	0n42	2n58	2n17	23s36	0s18	21s 8	0n43	16n32	6s53	15s32	15s 8	8s19	9s19	7n13	

ASTRODIENST EPHEMERIS for the year 2157  
geocentric

JULY 2157

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 37 21	9 <sup>52</sup> 32'05	24 <sup>4</sup> 37	4 <sup>0</sup> 16	13 <sup>0</sup> 49	3 <sup>1</sup> 34	14 <sup>0</sup> 29	27 <sup>1</sup> 51	5 <sup>0</sup> R30	20 <sup>0</sup> R35	29 <sup>1</sup> 5	17 <sup>0</sup> R38	18 <sup>0</sup> 55	11 <sup>0</sup> 39	15 <sup>0</sup> R18	F 1
S 2	18 41 17	10 <sup>0</sup> 29'19	8 <sup>0</sup> 51	4 <sup>0</sup> 56	15 <sup>0</sup> 0	3 <sup>0</sup> 49	14 <sup>0</sup> 41	27 <sup>0</sup> 54	5 <sup>0</sup> 28	20 <sup>0</sup> 34	29 <sup>0</sup> 7	17 <sup>0</sup> 36	18 <sup>0</sup> 52	11 <sup>0</sup> 46	15 <sup>0</sup> 16	S 2
S 3	18 45 14	11 <sup>0</sup> 26'33	23 <sup>0</sup> 2	5 <sup>0</sup> 33	16 <sup>0</sup> 11	4 <sup>0</sup> 5	14 <sup>0</sup> 53	27 <sup>0</sup> 57	5 <sup>0</sup> 25	20 <sup>0</sup> 32	29 <sup>0</sup> 8	17 <sup>0</sup> 32	18 <sup>0</sup> 48	11 <sup>0</sup> 52	15 <sup>0</sup> 13	S 3
M 4	18 49 10	12 <sup>0</sup> 23'47	7 <sup>0</sup> 11	6 <sup>0</sup> 5	17 <sup>0</sup> 22	4 <sup>0</sup> 21	15 <sup>0</sup> 5	28 <sup>0</sup> 1	5 <sup>0</sup> 23	20 <sup>0</sup> 31	29 <sup>0</sup> 9	17 <sup>0</sup> 27	18 <sup>0</sup> 45	11 <sup>0</sup> 59	15 <sup>0</sup> 11	M 4
T 5	18 53 7	13 <sup>0</sup> 21'01	21 <sup>0</sup> 3	6 <sup>0</sup> 34	18 <sup>0</sup> 33	4 <sup>0</sup> 38	15 <sup>0</sup> 17	28 <sup>0</sup> 4	5 <sup>0</sup> 20	20 <sup>0</sup> 29	29 <sup>0</sup> 11	17 <sup>0</sup> 21	18 <sup>0</sup> 42	12 <sup>0</sup> 6	15 <sup>0</sup> 8	T 5
W 6	18 57 3	14 <sup>0</sup> 18'16	4 <sup>0</sup> 45	6 <sup>0</sup> 58	19 <sup>0</sup> 43	4 <sup>0</sup> 55	15 <sup>0</sup> 29	28 <sup>0</sup> 8	5 <sup>0</sup> 18	20 <sup>0</sup> 27	29 <sup>0</sup> 12	17 <sup>0</sup> 16	18 <sup>0</sup> 39	12 <sup>0</sup> 13	15 <sup>0</sup> 5	W 6
T 7	19 1 0	15 <sup>0</sup> 15'30	18 <sup>0</sup> 11	7 <sup>0</sup> 17	20 <sup>0</sup> 54	5 <sup>0</sup> 13	15 <sup>0</sup> 42	28 <sup>0</sup> 12	5 <sup>0</sup> 16	20 <sup>0</sup> 26	29 <sup>0</sup> 14	17 <sup>0</sup> 13	18 <sup>0</sup> 36	12 <sup>0</sup> 19	15 <sup>0</sup> 3	T 7
F 8	19 4 57	16 <sup>0</sup> 12'44	1 <sup>0</sup> 18	7 <sup>0</sup> 32	22 <sup>0</sup> 5	5 <sup>0</sup> 32	15 <sup>0</sup> 54	28 <sup>0</sup> 15	5 <sup>0</sup> 13	20 <sup>0</sup> 24	29 <sup>0</sup> 15	17 <sup>0</sup> 10	18 <sup>0</sup> 33	12 <sup>0</sup> 26	15 <sup>0</sup> 0	F 8
S 9	19 8 53	17 <sup>0</sup> 9'59	14 <sup>0</sup> 7	7 <sup>0</sup> 43	23 <sup>0</sup> 15	5 <sup>0</sup> 51	16 <sup>0</sup> 6	28 <sup>0</sup> 19	5 <sup>0</sup> 11	20 <sup>0</sup> 23	29 <sup>0</sup> 16	17 <sup>0</sup> D 9	18 <sup>0</sup> 29	12 <sup>0</sup> 33	14 <sup>0</sup> 57	S 9
S 10	19 12 50	18 <sup>0</sup> 7'13	26 <sup>0</sup> 39	7 <sup>0</sup> 49	24 <sup>0</sup> 26	6 <sup>0</sup> 10	16 <sup>0</sup> 18	28 <sup>0</sup> 23	5 <sup>0</sup> 9	20 <sup>0</sup> 21	29 <sup>0</sup> 18	17 <sup>0</sup> 9	18 <sup>0</sup> 26	12 <sup>0</sup> 39	14 <sup>0</sup> 54	S 10
M 11	19 16 46	19 <sup>0</sup> 4'27	8 <sup>0</sup> 55	7 <sup>0</sup> R50	25 <sup>0</sup> 36	6 <sup>0</sup> 30	16 <sup>0</sup> 31	28 <sup>0</sup> 27	5 <sup>0</sup> 6	20 <sup>0</sup> 19	29 <sup>0</sup> 19	17 <sup>0</sup> 11	18 <sup>0</sup> 23	12 <sup>0</sup> 46	14 <sup>0</sup> 51	M 11
T 12	19 20 43	20 <sup>0</sup> 1'40	20 <sup>0</sup> 59	7 <sup>0</sup> 46	26 <sup>0</sup> 47	6 <sup>0</sup> 51	16 <sup>0</sup> 43	28 <sup>0</sup> 31	5 <sup>0</sup> 4	20 <sup>0</sup> 18	29 <sup>0</sup> 20	17 <sup>0</sup> 12	18 <sup>0</sup> 20	12 <sup>0</sup> 53	14 <sup>0</sup> 49	T 12
W 13	19 24 39	20 <sup>0</sup> 58'54	2 <sup>0</sup> 54	7 <sup>0</sup> 38	27 <sup>0</sup> 57	7 <sup>0</sup> 12	16 <sup>0</sup> 56	28 <sup>0</sup> 35	5 <sup>0</sup> 1	20 <sup>0</sup> 16	29 <sup>0</sup> 22	17 <sup>0</sup> 14	18 <sup>0</sup> 17	12 <sup>0</sup> 59	14 <sup>0</sup> 46	W 13
T 14	19 28 36	21 <sup>0</sup> 56'08	14 <sup>0</sup> 46	7 <sup>0</sup> 25	29 <sup>0</sup> 7	7 <sup>0</sup> 33	17 <sup>0</sup> 8	28 <sup>0</sup> 40	4 <sup>0</sup> 59	20 <sup>0</sup> 14	29 <sup>0</sup> 23	17 <sup>0</sup> 15	18 <sup>0</sup> 14	13 <sup>0</sup> 6	14 <sup>0</sup> 43	T 14
F 15	19 32 32	22 <sup>0</sup> 53'21	26 <sup>0</sup> 39	7 <sup>0</sup> 8	0 <sup>0</sup> 17	7 <sup>0</sup> 55	17 <sup>0</sup> 20	28 <sup>0</sup> 44	4 <sup>0</sup> 57	20 <sup>0</sup> 13	29 <sup>0</sup> 24	17 <sup>0</sup> R15	18 <sup>0</sup> 10	13 <sup>0</sup> 13	14 <sup>0</sup> 40	F 15
S 16	19 36 29	23 <sup>0</sup> 50'35	8 <sup>0</sup> 38	6 <sup>0</sup> 46	1 <sup>0</sup> 28	8 <sup>0</sup> 17	17 <sup>0</sup> 33	28 <sup>0</sup> 48	4 <sup>0</sup> 55	20 <sup>0</sup> 11	29 <sup>0</sup> 26	17 <sup>0</sup> 14	18 <sup>0</sup> 7	13 <sup>0</sup> 20	14 <sup>0</sup> 37	S 16
S 17	19 40 26	24 <sup>0</sup> 47'49	20 <sup>0</sup> 47	6 <sup>0</sup> 20	2 <sup>0</sup> 38	8 <sup>0</sup> 40	17 <sup>0</sup> 46	28 <sup>0</sup> 53	4 <sup>0</sup> 52	20 <sup>0</sup> 10	29 <sup>0</sup> 27	17 <sup>0</sup> 12	18 <sup>0</sup> 4	13 <sup>0</sup> 26	14 <sup>0</sup> 34	S 17
M 18	19 44 22	25 <sup>0</sup> 45'03	3 <sup>0</sup> 11	5 <sup>0</sup> 50	3 <sup>0</sup> 47	9 <sup>0</sup> 3	17 <sup>0</sup> 58	28 <sup>0</sup> 57	4 <sup>0</sup> 50	20 <sup>0</sup> 8	29 <sup>0</sup> 28	17 <sup>0</sup> 10	18 <sup>0</sup> 1	13 <sup>0</sup> 33	14 <sup>0</sup> 30	M 18
T 19	19 48 19	26 <sup>0</sup> 42'17	15 <sup>0</sup> 52	5 <sup>0</sup> 18	4 <sup>0</sup> 57	9 <sup>0</sup> 27	18 <sup>0</sup> 11	29 <sup>0</sup> 2	4 <sup>0</sup> 48	20 <sup>0</sup> 6	29 <sup>0</sup> 30	17 <sup>0</sup> 7	17 <sup>0</sup> 58	13 <sup>0</sup> 40	14 <sup>0</sup> 27	T 19
W 20	19 52 15	27 <sup>0</sup> 39'31	28 <sup>0</sup> 52	4 <sup>0</sup> 42	6 <sup>0</sup> 7	9 <sup>0</sup> 51	18 <sup>0</sup> 24	29 <sup>0</sup> 7	4 <sup>0</sup> 46	20 <sup>0</sup> 5	29 <sup>0</sup> 31	17 <sup>0</sup> 4	17 <sup>0</sup> 54	13 <sup>0</sup> 46	14 <sup>0</sup> 24	W 20
T 21	19 56 12	28 <sup>0</sup> 36'46	12 <sup>0</sup> 32	4 <sup>0</sup> 3	7 <sup>0</sup> 17	10 <sup>0</sup> 15	18 <sup>0</sup> 36	29 <sup>0</sup> 12	4 <sup>0</sup> 44	20 <sup>0</sup> 3	29 <sup>0</sup> 32	17 <sup>0</sup> 1	17 <sup>0</sup> 51	13 <sup>0</sup> 53	14 <sup>0</sup> 21	T 21
F 22	20 0 8	29 <sup>0</sup> 34'00	25 <sup>0</sup> 52	3 <sup>0</sup> 23	8 <sup>0</sup> 26	10 <sup>0</sup> 40	18 <sup>0</sup> 49	29 <sup>0</sup> 16	4 <sup>0</sup> 41	20 <sup>0</sup> 2	29 <sup>0</sup> 34	17 <sup>0</sup> 0	17 <sup>0</sup> 48	14 <sup>0</sup> 0	14 <sup>0</sup> 18	F 22
S 23	20 4 5	0 <sup>0</sup> 31'16	9 <sup>0</sup> 48	2 <sup>0</sup> 42	9 <sup>0</sup> 36	11 <sup>0</sup> 5	19 <sup>0</sup> 2	29 <sup>0</sup> 21	4 <sup>0</sup> 39	20 <sup>0</sup> 0	29 <sup>0</sup> 35	16 <sup>0</sup> 59	17 <sup>0</sup> 45	14 <sup>0</sup> 6	14 <sup>0</sup> 15	S 23
S 24	20 8 1	1 <sup>0</sup> 28'31	23 <sup>0</sup> 58	2 <sup>0</sup> 1	10 <sup>0</sup> 45	11 <sup>0</sup> 31	19 <sup>0</sup> 15	29 <sup>0</sup> 26	4 <sup>0</sup> 37	19 <sup>0</sup> 58	29 <sup>0</sup> 36	16 <sup>0</sup> D59	17 <sup>0</sup> 42	14 <sup>0</sup> 13	14 <sup>0</sup> 11	S 24
M 25	20 11 58	2 <sup>0</sup> 25'48	8 <sup>0</sup> 17	1 <sup>0</sup> 19	11 <sup>0</sup> 55	11 <sup>0</sup> 57	19 <sup>0</sup> 27	29 <sup>0</sup> 31	4 <sup>0</sup> 35	19 <sup>0</sup> 57	29 <sup>0</sup> 37	16 <sup>0</sup> 59	17 <sup>0</sup> 39	14 <sup>0</sup> 20	14 <sup>0</sup> 8	M 25
T 26	20 15 55	3 <sup>0</sup> 23'05	22 <sup>0</sup> 41	0 <sup>0</sup> 39	13 <sup>0</sup> 4	12 <sup>0</sup> 23	19 <sup>0</sup> 40	29 <sup>0</sup> 36	4 <sup>0</sup> 33	19 <sup>0</sup> 55	29 <sup>0</sup> 39	17 <sup>0</sup> 0	17 <sup>0</sup> 35	14 <sup>0</sup> 27	14 <sup>0</sup> 5	T 26
W 27	20 19 51	4 <sup>0</sup> 20'23	7 <sup>0</sup> 5	0 <sup>0</sup> 1	14 <sup>0</sup> 13	12 <sup>0</sup> 50	19 <sup>0</sup> 53	29 <sup>0</sup> 42	4 <sup>0</sup> 31	19 <sup>0</sup> 54	29 <sup>0</sup> 40	17 <sup>0</sup> 1	17 <sup>0</sup> 32	14 <sup>0</sup> 33	14 <sup>0</sup> 2	W 27
T 28	20 23 48	5 <sup>0</sup> 17'41	21 <sup>0</sup> 25	29 <sup>0</sup> 25	15 <sup>0</sup> 22	13 <sup>0</sup> 17	20 <sup>0</sup> 6	29 <sup>0</sup> 47	4 <sup>0</sup> 29	19 <sup>0</sup> 52	29 <sup>0</sup> 41	17 <sup>0</sup> 2	17 <sup>0</sup> 29	14 <sup>0</sup> 40	13 <sup>0</sup> 58	T 28
F 29	20 27 44	6 <sup>0</sup> 15'01	5 <sup>0</sup> 39	28 <sup>0</sup> 52	16 <sup>0</sup> 31	13 <sup>0</sup> 45	20 <sup>0</sup> 19	29 <sup>0</sup> 52	4 <sup>0</sup> 27	19 <sup>0</sup> 51	29 <sup>0</sup> 42	17 <sup>0</sup> R 2	17 <sup>0</sup> 26	14 <sup>0</sup> 47	13 <sup>0</sup> 55	F 29
S 30	20 31 41	7 <sup>0</sup> 12'22	19 <sup>0</sup> 45	28 <sup>0</sup> 24	17 <sup>0</sup> 40	14 <sup>0</sup> 12	20 <sup>0</sup> 32	29 <sup>0</sup> 58	4 <sup>0</sup> 25	19 <sup>0</sup> 49	29 <sup>0</sup> 43	17 <sup>0</sup> 2	17 <sup>0</sup> 23	14 <sup>0</sup> 53	13 <sup>0</sup> 52	S 30
S 31	20 35 37	8 <sup>0</sup> 9'44	3 <sup>0</sup> 39	27 <sup>0</sup> 59	18 <sup>0</sup> 48	14 <sup>0</sup> 40	20 <sup>0</sup> 45	0 <sup>0</sup> 3	4 <sup>0</sup> 23	19 <sup>0</sup> 47	29 <sup>0</sup> 45	17 <sup>0</sup> 2	17 <sup>0</sup> 20	15 <sup>0</sup> 0	13 <sup>0</sup> 49	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	lat
F 1	23n 5	13n58	4n46	18n48	0s23	18n25	1n49	13s55	1s18	17n 9	0n42	2n57	2n17	23s36	0s18	21s 8	0n43	16n32	6s53	15s32	15s 9	8s23	9s19	7n13	
S 2	23 0	19 17	5 7	18 25	0 37	18 3	1 49	14 1	1 19	17 5	0 42	2 55	2 16	23 36	0 18	21 8	0 43	16 32	6 53	15 33	15 10	8 26	9 20	7 14	
S 3	22 56	23 30	5 9	18 3	0 51	17 42	1 48	14 7	1 20	17 2	0 42	2 54	2 16	23 36	0 18	21 9	0 43	16 32	6 53	15 34	15 11	8 29	9 20	7 14	
M 4	22 51	26 17	4 53	17 41	1 5	17 19	1 47	14 14	1 21	16 58	0 42	2 52	2 16	23 36	0 18	21 9	0 43	16 32	6 53	15 36	15 11	8 32	9 21	7 14	
T 5	22 45	27 26	4 19	17 20	1 19	16 57	1 47	14 21	1 22	16 55	0 42	2 51	2 16	23 36	0 18	21 9	0 43	16 32	6 53	15 37	15 12	8 35	9 21	7 14	
W 6	22 39	26 51	3 31	17 0	1 34	16 34	1 46	14 28	1 23	16 51	0 42	2 49	2 16	23 36	0 18	21 9	0 43	16 32	6 53	15 39	15 13	8 38	9 22	7 15	
T 7	22 33	24 42	2 32	16 41	1 49	16 10	1 45	14 35	1 25	16 48	0 42	2 47	2 16	23 37	0 18	21 9	0 43	16 32	6 53	15 40	15 14	8 41	9 22	7 15	
F 8	22 26	21 15	1 26	16 22	2 4	15 47	1 44	14 42	1 26	16 44	0 42	2 46	2 15	23 37	0 18	21 10	0 43	16 32	6 53	15 41	15 15	8 44	9 23	7 15	
S 9	22 19	16 51	0 17	16 5	2 19	15 22	1 43	14 49	1 27	16 40	0 42	2 44	2 15	23 37	0 18	21 10	0 43	16 32	6 53	15 41	15 16	8 47	9 23	7 15	
S 10	22 12	11 49	0s52	15 49	2 35	14 58	1 41	14 57	1 28	16 37	0 42	2 42	2 15	23 37	0 18	21 10	0 43	16 32	6 53	15 41	15 17	8 51	9 24	7 16	
M11	22 4	6 25	1 57	15 34	2 50	14 33	1 40	15 4	1 29	16 33	0 42	2 41	2 15	23 37	0 18	21 10	0 43	16 32	6 53	15 41	15 18	8 54	9 25	7 16	
T 12	21 56	0 54	2 55	15 20	3 4	14 7	1 39	15 12	1 30	16 29	0 42	2 39	2 15	23 37	0 18	21 11	0 43	16 32	6 53	15 40	15 19	8 57	9 25	7 16	
W13	21 47	4s36	3 45	15 8	3 19	13 42	1 37	15 20	1 31	16 26	0 42	2 37	2 14	23 37	0 18	21 11	0 43	16 32	6 53	15 40	15 20	9 0	9 26	7 16	
T 14	21 38	9 54	4 25	14 58	3 33	13 16	1 36	15 28	1 32	16 22	0 42	2 35	2 14	23 37	0 18	21 11	0 43	16 32	6 53	15 39	15 21	9 3	9 27	7 16	
F 15	21 29	14 50	4 54	14 49	3 47	12 50	1 34	15 36	1 32	16 18	0 42	2 33	2 14	23 37	0 18	21 11	0 43	16 32	6 53	15 39	15 22	9 6	9 27	7 17	
S 16	21 19	19 16	5 11	14 42	3 59	12 23	1 32	15 44	1 33	16 14	0 43	2 31	2 14	23 37	0 18	21 12	0 43	16 32	6 53	15 39	15 23	9 9	9 28	7 17	
S 17	21 9	22 58	5 14	14 37	4 11	11 56	1 30	15 52	1 34	16 10	0 43	2 29	2 14	23 37	0 18	21 12	0 43	16 32	6 53	15 40	15 24	9 12	9 29	7 17	
M18	20 59	25 43	5 2	14 34	4 22	11 29	1 28	16 0	1 35	16 7	0 43	2 27	2 14	23 38	0 18	21 12	0 43	16 32	6 53	15 41	15 25	9 15	9 29	7 17	
T 19	20 48	27 15	4 36	14 32	4 32	11 2	1 26	16 9	1 36	16 3	0 43	2 25	2 13	23 38	0 18	21 12	0 43	16 32	6 53	15 42	15 26	9 18	9 30	7 17	
W20	20 37	27 20	3 55	14 32	4 40	10 34	1 24	16 17	1 37	15 59	0 43	2 23	2 13	23 38	0 18	21 13	0 43	16 32	6 53	15 43	15 27	9 21	9 31	7 17	
T 21	20 25	25 51	3 0	14 34	4 47	10 6	1 22	16 26	1 37	15 55	0 43	2 21	2 13	23 38	0 18	21 13	0 43	16 32	6 53	15 43	15 28	9 24	9 32	7 17	
F 22	20 14	22 49	1 54	14 38	4 53	9 38	1 20	16 34	1 38	15 51	0 43	2 19	2 13	23 38	0 18	21 13	0 43	16 32	6 53	15 44	15 29	9 27	9 32	7 17	
S 23	20 1	18 25	0 40	14 43	4 57	9 10	1 17	16 43	1 39	15 47	0 43	2 17	2 13	23 38	0 18	21 13	0 43	16 32	6 53	15 44	15 30	9 31	9 33	7 18	
S 24	19 49	12 55	0n39	14 50	4 59	8 41	1 15	16 51	1 40	15 43	0 43	2 15	2 13	23 38	0 18	21 14	0 43	16 32	6 53	15 44	15 31	9 34	9 34	7 18	
M25	19 36	6 41	1 55	14 59	4 59	8 12	1 12	17 0	1 40	15 39	0 43	2 13	2 12	23 38	0 18	21 14	0 43	16 32	6 53	15 44	15 32	9 37	9 35	7 18	
T 26	19 23	0 4	3 5	15 9	4 58	7 43	1 10	17 9	1 41	15 35	0 43	2 11	2 12	23 38	0 18	21 14	0 43	16 32	6 53	15 44	15 33	9 40	9 36	7 18	
W27	19 10	6n31	4 3	15 20	4 55	7 14	1 7	17 18	1 42	15 31	0 43	2 9	2 12	23 38	0 18	21 14	0 43	16 32	6 53	15 43	15 34	9 43	9 36	7 18	
T 28	18 56	12 45	4 45	15 32	4 50	6 45	1 4	17 27	1 42	15 27	0 43	2 6	2 12	23 38	0 18	21 15	0 43	16 32	6 53	15 43	15 35	9 46	9 37	7 18	
F 29	18 42	18 16	5 10	15 44	4 44	6 15	1 1	17 35	1 43	15 23	0 43	2 4	2 12	23 38	0 18	21 15	0 43	16 32	6 53	15 43	15 36	9 49	9 38	7 18	
S 30	18 27	22 44	5 16	15 58	4 36	5 46	0 58	17 44	1 44	15 19	0 43	2 2	2 12	23 38	0 18	21 15	0 43	16 32	6 53	15 43	15 37	9 52	9 39	7 18	
S 31	18n13	25n50	5n 3	16n12	4s26	5n16	0n55	17s53	1s44	15n15	0n43	2n 0	2n12	23s39	0s18	21s15	0n43	16n32	6s53	15s43	15s38	9s55	9s40	7n18	



ASTRODIENST EPHEMERIS for the year 2157  
geocentric

AUGUST 2157

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 39 34	9♌ 7°07	17♊22	27°R39	19♍57	15♍ 9	20♌58	0♌ 9	4°R21	19°R46	29♊46	17°R 1	17♋16	15♌ 7	13°R45	M 1
T 2	20 43 30	10° 4'31	0♌52	27♌25	21° 6	15°38	21°11	0°14	4♌20	19♌44	29°47	17♋ 0	17°13	15°13	13°42	T 2
W 3	20 47 27	11° 1'56	14° 8	27°17	22°14	16° 7	21°24	0°20	4°18	19°43	29°48	16°59	17°10	15°20	13°39	W 3
T 4	20 51 24	11°59'22	27°10	27°D14	23°22	16°36	21°37	0°26	4°16	19°41	29°49	16°59	17° 7	15°27	13°35	T 4
F 5	20 55 20	12°56'49	9♌58	27°17	24°31	17° 6	21°50	0°31	4°14	19°40	29°50	16°58	17° 4	15°34	13°32	F 5
S 6	20 59 17	13°54'16	22°31	27°27	25°39	17°36	22° 3	0°37	4°13	19°39	29°51	16°D58	17° 0	15°40	13°29	S 6
S 7	21 3 13	14°51'45	4♍52	27°44	26°47	18° 6	22°16	0°43	4°11	19°37	29°52	16°58	16°57	15°47	13°25	S 7
M 8	21 7 10	15°49'14	17° 2	28° 7	27°55	18°37	22°29	0°49	4° 9	19°36	29°53	16°59	16°54	15°54	13°22	M 8
T 9	21 11 6	16°46'44	29° 2	28°37	29° 2	19° 8	22°42	0°55	4° 8	19°34	29°54	16°R59	16°51	16° 0	13°19	T 9
W10	21 15 3	17°44'15	10♌56	29°13	0♌10	19°39	22°56	1° 1	4° 6	19°33	29°55	16°59	16°48	16° 7	13°15	W10
T 11	21 18 59	18°41'47	22°48	29°55	1°17	20°10	23° 9	1° 7	4° 5	19°32	29°56	16°59	16°45	16°14	13°12	T 11
F 12	21 22 56	19°39'20	4♍40	0♌45	2°25	20°42	23°22	1°13	4° 3	19°30	29°57	16°58	16°41	16°20	13° 9	F 12
S 13	21 26 53	20°36'53	16°38	1°40	3°32	21°14	23°35	1°19	4° 2	19°29	29°58	16°D58	16°38	16°27	13° 5	S 13
S 14	21 30 49	21°34'28	28°46	2°42	4°39	21°46	23°48	1°26	4° 0	19°28	29°59	16°58	16°35	16°34	13° 2	S 14
M15	21 34 46	22°32'03	11♌ 8	3°50	5°46	22°19	24° 1	1°32	3°59	19°26	0♌ 0	16°59	16°32	16°41	12°59	M15
T 16	21 38 42	23°29'39	23°49	5° 3	6°53	22°52	24°14	1°38	3°58	19°25	0° 1	16°59	16°29	16°47	12°56	T 16
W17	21 42 39	24°27'16	6♌51	6°22	7°59	23°25	24°28	1°45	3°56	19°24	0° 2	17° 0	16°26	16°54	12°52	W17
T 18	21 46 35	25°24'55	20°18	7°47	9° 6	23°58	24°41	1°51	3°55	19°22	0° 3	17° 0	16°22	17° 1	12°49	T 18
F 19	21 50 32	26°22'34	4♋ 9	9°16	10°12	24°32	24°54	1°58	3°54	19°21	0° 4	17° 1	16°19	17° 7	12°46	F 19
S 20	21 54 28	27°20'14	18°22	10°50	11°18	25° 5	25° 7	2° 4	3°53	19°20	0° 5	17°R 1	16°16	17°14	12°43	S 20
S 21	21 58 25	28°17'56	2♌54	12°28	12°24	25°39	25°20	2°11	3°52	19°19	0° 6	17° 1	16°13	17°21	12°40	S 21
M22	22 2 22	29°15'39	17°39	14°11	13°30	26°14	25°33	2°17	3°51	19°18	0° 6	17° 0	16°10	17°28	12°36	M22
T 23	22 6 18	0♍13'23	2♌29	15°56	14°36	26°48	25°46	2°24	3°50	19°17	0° 7	16°59	16° 6	17°34	12°33	T 23
W24	22 10 15	1°11'09	17°18	17°45	15°41	27°23	25°59	2°31	3°49	19°15	0° 8	16°57	16° 3	17°41	12°30	W24
T 25	22 14 11	2° 8'57	1♌57	19°36	16°47	27°58	26°13	2°37	3°48	19°14	0° 9	16°55	16° 0	17°48	12°27	T 25
F 26	22 18 8	3° 6'46	16°22	21°30	17°52	28°33	26°26	2°44	3°47	19°13	0°10	16°54	15°57	17°54	12°24	F 26
S 27	22 22 4	4° 4'37	0♍30	23°25	18°57	29° 8	26°39	2°51	3°46	19°12	0°10	16°D53	15°54	18° 1	12°21	S 27
S 28	22 26 1	5° 2'30	14°18	25°22	20° 1	29°44	26°52	2°58	3°45	19°11	0°11	16°54	15°51	18° 8	12°18	S 28
M29	22 29 57	6° 0'25	27°47	27°20	21° 6	0♌19	27° 5	3° 5	3°45	19°10	0°12	16°54	15°47	18°14	12°15	M29
T 30	22 33 54	6°58'21	10♌59	29°18	22°10	0°55	27°18	3°11	3°44	19° 9	0°12	16°56	15°44	18°21	12°12	T 30
W31	22 37 51	7♍56'20	23♌54	1♍16	23♌14	1♌31	27♌31	3♌18	3♌43	19♌ 8	0♌13	16♌57	15♌41	18♌28	12♌10	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	17n58	27n21	4n33	16n26	4s16	4n46	0n52	18s 2	1s45	15n11	0n43	1n57	2n11	23s39	0s18	21s16
T 2	17 42	27 14	3 49	16 40	4 4	4 16	0 48	18 11	1 45	15 7	0 43	1 55	2 11	23 39	0 18	21 16
W 3	17 27	25 31	2 52	16 55	3 51	3 46	0 45	18 20	1 46	15 2	0 43	1 52	2 11	23 39	0 18	21 16
T 4	17 11	22 28	1 48	17 9	3 37	3 16	0 42	18 29	1 47	14 58	0 43	1 50	2 11	23 39	0 18	21 16
F 5	16 55	18 22	0 39	17 22	3 23	2 46	0 38	18 38	1 47	14 54	0 43	1 48	2 11	23 39	0 18	21 17
S 6	16 38	13 31	0s31	17 35	3 7	2 15	0 34	18 47	1 48	14 50	0 43	1 45	2 11	23 39	0 18	21 17
S 7	16 22	8 12	1 38	17 48	2 52	1 45	0 31	18 56	1 48	14 46	0 43	1 43	2 11	23 39	0 18	21 17
M 8	16 5	2 40	2 39	17 59	2 36	1 15	0 27	19 5	1 48	14 41	0 43	1 40	2 11	23 39	0 18	21 17
T 9	15 48	2s52	3 33	18 9	2 19	0 44	0 23	19 14	1 49	14 37	0 44	1 38	2 10	23 39	0 18	21 18
W10	15 30	8 16	4 17	18 18	2 3	0 14	0 19	19 23	1 49	14 33	0 44	1 35	2 10	23 39	0 18	21 18
T 11	15 13	13 20	4 49	18 25	1 47	0s17	0 15	19 32	1 50	14 29	0 44	1 33	2 10	23 39	0 18	21 18
F 12	14 55	17 55	5 10	18 30	1 30	0 47	0 11	19 41	1 50	14 25	0 44	1 30	2 10	23 39	0 18	21 18
S 13	14 37	21 51	5 17	18 34	1 14	1 18	0 7	19 50	1 51	14 20	0 44	1 28	2 10	23 39	0 18	21 18
S 14	14 18	24 55	5 10	18 36	0 58	1 48	0 3	19 59	1 51	14 16	0 44	1 25	2 10	23 39	0 18	21 19
M15	13 59	26 52	4 49	18 35	0 43	2 19	0s 2	20 8	1 51	14 12	0 44	1 23	2 10	23 39	0 18	21 19
T 16	13 41	27 30	4 14	18 32	0 28	2 49	0 6	20 16	1 52	14 7	0 44	1 20	2 10	23 39	0 18	21 19
W17	13 22	26 39	3 25	18 27	0 13	3 20	0 10	20 25	1 52	14 3	0 44	1 17	2 10	23 39	0 18	21 19
T 18	13 2	24 14	2 23	18 19	0n 1	3 50	0 15	20 34	1 52	13 59	0 44	1 15	2 9	23 39	0 18	21 19
F 19	12 43	20 21	1 11	18 8	0 14	4 20	0 19	20 42	1 53	13 54	0 44	1 12	2 9	23 39	0 18	21 20
S 20	12 23	15 12	0n 7	17 55	0 26	4 50	0 24	20 51	1 53	13 50	0 44	1 9	2 9	23 39	0 18	21 20
S 21	12 3	9 5	1 27	17 39	0 38	5 20	0 29	21 0	1 53	13 46	0 44	1 7	2 9	23 39	0 18	21 20
M22	11 43	2 24	2 41	17 20	0 48	5 50	0 33	21 8	1 54	13 41	0 44	1 4	2 9	23 39	0 18	21 20
T 23	11 23	4n26	3 46	16 58	0 58	6 20	0 38	21 16	1 54	13 37	0 44	1 1	2 9	23 40	0 18	21 20
W24	11 3	11 1	4 35	16 34	1 7	6 50	0 43	21 25	1 54	13 33	0 45	0 59	2 9	23 40	0 18	21 21
T 25	10 42	16 54	5 5	16 7	1 15	7 20	0 48	21 33	1 54	13 28	0 45	0 56	2 9	23 40	0 18	21 21
F 26	10 21	21 45	5 16	15 37	1 22	7 49	0 53	21 41	1 54	13 24	0 45	0 53	2 9	23 40	0 18	21 21
S 27	10 0	25 14	5 7	15 5	1 28	8 18	0 58	21 49	1 55	13 20	0 45	0 50	2 9	23 40	0 18	21 21
S 28	9 39	27 8	4 40	14 31	1 33	8 48	1 3	21 57	1 55	13 15	0 45	0 48	2 9	23 40	0 18	21 21
M29	9 18	27 23	3 59	13 55	1 38	9 17	1 8	22 5	1 55	13 11	0 45	0 45	2 9	23 40	0 18	21 21
T 30	8 57	26 3	3 6	13 17	1 41	9 45	1 13	22 12	1 55	13 6	0 45	0 42	2 9	23 40	0 18	21 22
W31	8n35	23n20	2n 4	12n38	1n44	10s14	1s18	22s20	1s55	13n 2	0n45	0n39	2n 9	23s40	0s18	21s22

Julian Day Number = 2509100.5, Delta T = 127.01 sec  
Ecliptic obliquity = 23°25'14, Nutation = 0°00'13, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°56'32, Lahiri = 26°03'33

# ASTRODIENST EPHEMERIS for the year 2157

## geocentric

SEPTEMBER 2157

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 41 47	8 <sup>h</sup> 54'20	6 <sup>h</sup> 23'35	3 <sup>h</sup> 15'15	24 <sup>h</sup> 18'18	2 <sup>h</sup> 18'08	27 <sup>h</sup> 24'44	3 <sup>h</sup> 25'25	3 <sup>h</sup> R43	19 <sup>h</sup> R 7	0 <sup>h</sup> 14'14	16 <sup>h</sup> 58'58	15 <sup>h</sup> 38'38	18 <sup>h</sup> 35'35	12 <sup>h</sup> R 7	T 1
F 2	22 45 44	9 <sup>h</sup> 52'21	19 <sup>h</sup> 3	5 <sup>h</sup> 14	25 <sup>h</sup> 22	2 <sup>h</sup> 44	27 <sup>h</sup> 57	3 <sup>h</sup> 32	3 <sup>h</sup> 42	19 <sup>h</sup> 7	0 <sup>h</sup> 14	16 <sup>h</sup> R59	15 <sup>h</sup> 35	18 <sup>h</sup> 41	12 <sup>h</sup> 4	F 2
S 3	22 49 40	10 <sup>h</sup> 50'25	1 <sup>h</sup> 17'21	7 <sup>h</sup> 12	26 <sup>h</sup> 25	3 <sup>h</sup> 21	28 <sup>h</sup> 10	3 <sup>h</sup> 39	3 <sup>h</sup> 42	19 <sup>h</sup> 6	0 <sup>h</sup> 15	16 <sup>h</sup> 58	15 <sup>h</sup> 32	18 <sup>h</sup> 48	12 <sup>h</sup> 1	S 3
S 4	22 53 37	11 <sup>h</sup> 48'30	13 <sup>h</sup> 30	9 <sup>h</sup> 10	27 <sup>h</sup> 29	3 <sup>h</sup> 58	28 <sup>h</sup> 23	3 <sup>h</sup> 46	3 <sup>h</sup> 41	19 <sup>h</sup> 5	0 <sup>h</sup> 16	16 <sup>h</sup> 56	15 <sup>h</sup> 28	18 <sup>h</sup> 55	11 <sup>h</sup> 58	S 4
M 5	22 57 33	12 <sup>h</sup> 46'36	25 <sup>h</sup> 32	11 <sup>h</sup> 7	28 <sup>h</sup> 32	4 <sup>h</sup> 35	28 <sup>h</sup> 36	3 <sup>h</sup> 54	3 <sup>h</sup> 41	19 <sup>h</sup> 4	0 <sup>h</sup> 16	16 <sup>h</sup> 53	15 <sup>h</sup> 25	19 <sup>h</sup> 1	11 <sup>h</sup> 56	M 5
T 6	23 1 30	13 <sup>h</sup> 44'44	7 <sup>h</sup> 27	13 <sup>h</sup> 3	29 <sup>h</sup> 34	5 <sup>h</sup> 12	28 <sup>h</sup> 49	4 <sup>h</sup> 1	3 <sup>h</sup> 41	19 <sup>h</sup> 3	0 <sup>h</sup> 17	16 <sup>h</sup> 48	15 <sup>h</sup> 22	19 <sup>h</sup> 8	11 <sup>h</sup> 53	T 6
W 7	23 5 26	14 <sup>h</sup> 42'54	19 <sup>h</sup> 19	14 <sup>h</sup> 58	0 <sup>h</sup> 37	5 <sup>h</sup> 50	29 <sup>h</sup> 2	4 <sup>h</sup> 8	3 <sup>h</sup> 40	19 <sup>h</sup> 3	0 <sup>h</sup> 17	16 <sup>h</sup> 44	15 <sup>h</sup> 19	19 <sup>h</sup> 15	11 <sup>h</sup> 50	W 7
T 8	23 9 23	15 <sup>h</sup> 41'05	1 <sup>h</sup> 10	16 <sup>h</sup> 52	1 <sup>h</sup> 39	6 <sup>h</sup> 27	29 <sup>h</sup> 15	4 <sup>h</sup> 15	3 <sup>h</sup> 40	19 <sup>h</sup> 2	0 <sup>h</sup> 18	16 <sup>h</sup> 39	15 <sup>h</sup> 16	19 <sup>h</sup> 22	11 <sup>h</sup> 48	T 8
F 9	23 13 20	16 <sup>h</sup> 39'18	13 <sup>h</sup> 2	18 <sup>h</sup> 46	2 <sup>h</sup> 41	7 <sup>h</sup> 5	29 <sup>h</sup> 27	4 <sup>h</sup> 22	3 <sup>h</sup> 40	19 <sup>h</sup> 1	0 <sup>h</sup> 18	16 <sup>h</sup> 34	15 <sup>h</sup> 12	19 <sup>h</sup> 28	11 <sup>h</sup> 45	F 9
S 10	23 17 16	17 <sup>h</sup> 37'33	24 <sup>h</sup> 59	20 <sup>h</sup> 38	3 <sup>h</sup> 43	7 <sup>h</sup> 43	29 <sup>h</sup> 40	4 <sup>h</sup> 29	3 <sup>h</sup> 40	19 <sup>h</sup> 0	0 <sup>h</sup> 19	16 <sup>h</sup> 31	15 <sup>h</sup> 9	19 <sup>h</sup> 35	11 <sup>h</sup> 43	S 10
S 11	23 21 13	18 <sup>h</sup> 35'49	7 <sup>h</sup> 18	22 <sup>h</sup> 29	4 <sup>h</sup> 44	8 <sup>h</sup> 21	29 <sup>h</sup> 53	4 <sup>h</sup> 37	3 <sup>h</sup> 40	19 <sup>h</sup> 0	0 <sup>h</sup> 19	16 <sup>h</sup> 29	15 <sup>h</sup> 6	19 <sup>h</sup> 42	11 <sup>h</sup> 41	S 11
M12	23 25 9	19 <sup>h</sup> 34'06	19 <sup>h</sup> 23	24 <sup>h</sup> 19	5 <sup>h</sup> 45	9 <sup>h</sup> 0	0 <sup>h</sup> 17	4 <sup>h</sup> 44	3 <sup>h</sup> D40	18 <sup>h</sup> 59	0 <sup>h</sup> 19	16 <sup>h</sup> D28	15 <sup>h</sup> 3	19 <sup>h</sup> 48	11 <sup>h</sup> 38	M12
T 13	23 29 6	20 <sup>h</sup> 32'25	1 <sup>h</sup> 35	26 <sup>h</sup> 8	6 <sup>h</sup> 46	9 <sup>h</sup> 38	0 <sup>h</sup> 18	4 <sup>h</sup> 51	3 <sup>h</sup> 40	18 <sup>h</sup> 59	0 <sup>h</sup> 20	16 <sup>h</sup> 29	15 <sup>h</sup> 0	19 <sup>h</sup> 55	11 <sup>h</sup> 36	T 13
W14	23 33 2	21 <sup>h</sup> 30'46	14 <sup>h</sup> 57	27 <sup>h</sup> 56	7 <sup>h</sup> 46	10 <sup>h</sup> 17	0 <sup>h</sup> 31	4 <sup>h</sup> 58	3 <sup>h</sup> 40	18 <sup>h</sup> 58	0 <sup>h</sup> 20	16 <sup>h</sup> 30	14 <sup>h</sup> 57	20 <sup>h</sup> 2	11 <sup>h</sup> 34	W14
T 15	23 36 59	22 <sup>h</sup> 29'08	28 <sup>h</sup> 20	29 <sup>h</sup> 42	8 <sup>h</sup> 46	10 <sup>h</sup> 56	0 <sup>h</sup> 44	5 <sup>h</sup> 6	3 <sup>h</sup> 40	18 <sup>h</sup> 58	0 <sup>h</sup> 20	16 <sup>h</sup> 31	14 <sup>h</sup> 53	20 <sup>h</sup> 9	11 <sup>h</sup> 31	T 15
F 16	23 40 55	23 <sup>h</sup> 27'32	12 <sup>h</sup> 10	1 <sup>h</sup> 28	9 <sup>h</sup> 46	11 <sup>h</sup> 35	0 <sup>h</sup> 56	5 <sup>h</sup> 13	3 <sup>h</sup> 40	18 <sup>h</sup> 57	0 <sup>h</sup> 21	16 <sup>h</sup> R32	14 <sup>h</sup> 50	20 <sup>h</sup> 15	11 <sup>h</sup> 29	F 16
S 17	23 44 52	24 <sup>h</sup> 25'57	26 <sup>h</sup> 28	3 <sup>h</sup> 12	10 <sup>h</sup> 45	12 <sup>h</sup> 14	1 <sup>h</sup> 9	5 <sup>h</sup> 20	3 <sup>h</sup> 40	18 <sup>h</sup> 57	0 <sup>h</sup> 21	16 <sup>h</sup> 32	14 <sup>h</sup> 47	20 <sup>h</sup> 22	11 <sup>h</sup> 27	S 17
S 18	23 48 49	25 <sup>h</sup> 24'24	11 <sup>h</sup> 11	4 <sup>h</sup> 56	11 <sup>h</sup> 44	12 <sup>h</sup> 53	1 <sup>h</sup> 21	5 <sup>h</sup> 28	3 <sup>h</sup> 41	18 <sup>h</sup> 56	0 <sup>h</sup> 21	16 <sup>h</sup> 30	14 <sup>h</sup> 44	20 <sup>h</sup> 29	11 <sup>h</sup> 25	S 18
M19	23 52 45	26 <sup>h</sup> 22'52	26 <sup>h</sup> 12	6 <sup>h</sup> 38	12 <sup>h</sup> 43	13 <sup>h</sup> 33	1 <sup>h</sup> 34	5 <sup>h</sup> 35	3 <sup>h</sup> 41	18 <sup>h</sup> 56	0 <sup>h</sup> 22	16 <sup>h</sup> 26	14 <sup>h</sup> 41	20 <sup>h</sup> 35	11 <sup>h</sup> 23	M19
T 20	23 56 42	27 <sup>h</sup> 21'23	11 <sup>h</sup> 13	8 <sup>h</sup> 19	13 <sup>h</sup> 41	14 <sup>h</sup> 12	1 <sup>h</sup> 46	5 <sup>h</sup> 42	3 <sup>h</sup> 41	18 <sup>h</sup> 56	0 <sup>h</sup> 22	16 <sup>h</sup> 21	14 <sup>h</sup> 37	20 <sup>h</sup> 42	11 <sup>h</sup> 21	T 20
W21	0 0 38	28 <sup>h</sup> 19'55	26 <sup>h</sup> 34	9 <sup>h</sup> 59	14 <sup>h</sup> 39	14 <sup>h</sup> 52	1 <sup>h</sup> 59	5 <sup>h</sup> 50	3 <sup>h</sup> 42	18 <sup>h</sup> 55	0 <sup>h</sup> 22	16 <sup>h</sup> 15	14 <sup>h</sup> 34	20 <sup>h</sup> 49	11 <sup>h</sup> 19	W21
T 22	0 4 35	29 <sup>h</sup> 18'30	11 <sup>h</sup> 13	11 <sup>h</sup> 38	15 <sup>h</sup> 36	15 <sup>h</sup> 32	2 <sup>h</sup> 11	5 <sup>h</sup> 57	3 <sup>h</sup> 42	18 <sup>h</sup> 55	0 <sup>h</sup> 22	16 <sup>h</sup> 9	14 <sup>h</sup> 31	20 <sup>h</sup> 55	11 <sup>h</sup> 17	T 22
F 23	0 8 31	0 <sup>h</sup> 17'07	26 <sup>h</sup> 17	13 <sup>h</sup> 17	16 <sup>h</sup> 33	16 <sup>h</sup> 12	2 <sup>h</sup> 24	6 <sup>h</sup> 4	3 <sup>h</sup> 43	18 <sup>h</sup> 55	0 <sup>h</sup> 22	16 <sup>h</sup> 3	14 <sup>h</sup> 28	21 <sup>h</sup> 2	11 <sup>h</sup> 16	F 23
S 24	0 12 28	1 <sup>h</sup> 15'46	10 <sup>h</sup> 13	14 <sup>h</sup> 54	17 <sup>h</sup> 30	16 <sup>h</sup> 52	2 <sup>h</sup> 36	6 <sup>h</sup> 12	3 <sup>h</sup> 43	18 <sup>h</sup> 54	0 <sup>h</sup> 23	16 <sup>h</sup> 0	14 <sup>h</sup> 25	21 <sup>h</sup> 9	11 <sup>h</sup> 14	S 24
S 25	0 16 24	2 <sup>h</sup> 14'27	24 <sup>h</sup> 27	16 <sup>h</sup> 30	18 <sup>h</sup> 26	17 <sup>h</sup> 33	2 <sup>h</sup> 48	6 <sup>h</sup> 19	3 <sup>h</sup> 44	18 <sup>h</sup> 54	0 <sup>h</sup> 23	15 <sup>h</sup> 58	14 <sup>h</sup> 22	21 <sup>h</sup> 16	11 <sup>h</sup> 12	S 25
M26	0 20 21	3 <sup>h</sup> 13'11	7 <sup>h</sup> 54	18 <sup>h</sup> 5	19 <sup>h</sup> 21	18 <sup>h</sup> 13	3 <sup>h</sup> 0	6 <sup>h</sup> 27	3 <sup>h</sup> 45	18 <sup>h</sup> 54	0 <sup>h</sup> 23	15 <sup>h</sup> D58	14 <sup>h</sup> 18	21 <sup>h</sup> 22	11 <sup>h</sup> 11	M26
T 27	0 24 18	4 <sup>h</sup> 11'56	20 <sup>h</sup> 57	19 <sup>h</sup> 39	20 <sup>h</sup> 16	18 <sup>h</sup> 54	3 <sup>h</sup> 12	6 <sup>h</sup> 34	3 <sup>h</sup> 45	18 <sup>h</sup> 54	0 <sup>h</sup> 23	15 <sup>h</sup> 58	14 <sup>h</sup> 15	21 <sup>h</sup> 29	11 <sup>h</sup> 9	T 27
W28	0 28 14	5 <sup>h</sup> 10'44	3 <sup>h</sup> 20	21 <sup>h</sup> 13	21 <sup>h</sup> 11	19 <sup>h</sup> 34	3 <sup>h</sup> 24	6 <sup>h</sup> 42	3 <sup>h</sup> 46	18 <sup>h</sup> 54	0 <sup>h</sup> 23	16 <sup>h</sup> 0	14 <sup>h</sup> 12	21 <sup>h</sup> 36	11 <sup>h</sup> 8	W28
T 29	0 32 11	6 <sup>h</sup> 9'35	16 <sup>h</sup> 7	22 <sup>h</sup> 45	22 <sup>h</sup> 5	20 <sup>h</sup> 15	3 <sup>h</sup> 36	6 <sup>h</sup> 49	3 <sup>h</sup> 47	18 <sup>h</sup> 54	0 <sup>h</sup> 23	16 <sup>h</sup> R 0	14 <sup>h</sup> 9	21 <sup>h</sup> 42	11 <sup>h</sup> 6	T 29
F 30	0 36 7	7 <sup>h</sup> 18'27	28 <sup>h</sup> 22	24 <sup>h</sup> 16	22 <sup>h</sup> 58	20 <sup>h</sup> 56	3 <sup>h</sup> 17	6 <sup>h</sup> 56	3 <sup>h</sup> 48	18 <sup>h</sup> 54	0 <sup>h</sup> R23	15 <sup>h</sup> 59	14 <sup>h</sup> 6	21 <sup>h</sup> 49	11 <sup>h</sup> 5	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	decl	lat
T 1	8n13	19n32	0n57	11n56	1n45	10s43	1s24	22s27	1s56	12n58	0n45	0n36	2n 8	23s40	0s18	21s22	0n42	16n30	6s56	15s44	16s 8	11s31	10s12	7n14			
F 2	7 52	14 55	0s11	11 14	1 46	11 11	1 29	22 35	1 56	12 53	0 45	0 33	2 8	23 40	0 18	21 22	0 42	16 29	6 56	15 44	16 9	11 34	10 13	7 13			
S 3	7 30	9 46	1 18	10 30	1 46	11 39	1 34	22 42	1 56	12 49	0 45	0 31	2 8	23 40	0 18	21 22	0 42	16 29	6 56	15 44	16 10	11 37	10 14	7 13			
S 4	7 8	4 19	2 21	9 46	1 46	12 7	1 39	22 49	1 56	12 44	0 45	0 28	2 8	23 40	0 18	21 22	0 42	16 29	6 56	15 45	16 11	11 40	10 15	7 13			
M 5	6 46	1s13	3 16	9 1	1 45	12 34	1 45	22 56	1 56	12 40	0 46	0 25	2 8	23 40	0 18	21 22	0 42	16 29	6 56	15 46	16 12	11 42	10 16	7 13			
T 6	6 23	6 40	4 2	8 15	1 43	13 2	1 50	23 3	1 56	12 36	0 46	0 22	2 8	23 40	0 18	21 23	0 42	16 29	6 56	15 47	16 13	11 45	10 17	7 12			
W 7	6 1	11 50	4 38	7 28	1 41	13 29	1 56	23 10	1 56	12 31	0 46	0 19	2 8	23 40	0 18	21 23	0 42	16 29	6 56	15 49	16 14	11 48	10 18	7 12			
T 8	5 38	16 34	5 1	6 41	1 38	13 56	2 1	23 17	1 56	12 27	0 46	0 16	2 8	23 40	0 18	21 23	0 42	16 29	6 56	15 50	16 15	11 51	10 19	7 12			
F 9	5 16	20 41	5 12	5 54	1 35	14 22	2 6	23 23	1 56	12 22	0 46	0 14	2 8	23 40	0 18	21 23	0 42	16 29	6 56	15 51	16 16	11 54	10 20	7 11			
S 10	4 53	23 59	5 9	5 6	1 31	14 49	2 12	23 30	1 56	12 18	0 46	0 11	2 8	23 40	0 18	21 23	0 42	16 29	6 57	15 52	16 17	11 57	10 21	7 11			
S 11	4 30	26 17	4 52	4 19	1 27	15 15	2 17	23 36	1 56	12 14	0 46	0 8	2 8	23 40	0 17	21 23	0 42	16 29	6 57	15 53	16 18	12 0	10 22	7 11			
M12	4 8	27 21	4 22	3 31	1 22	15 40	2 23	23 42	1 56	12 9	0 46	0 5	2 8	23 40	0 17	21 23	0 42	16 28	6 57	15 53	16 19	12 3	10 23	7 10			
T 13	3 45	27 3	3 39	2 43	1 18	16 6	2 28	23 48	1 56	12 5	0 46	0 2	2 8	23 40	0 17	21 23	0 42	16 28	6 57	15 53	16 19	12 6	10 24	7 10			
W14	3 22	25 18	2 44	1 56	1 12	16 31	2 34	23 54	1 56	12 0	0 46	0s 1	2 8	23 40	0 17	21 24	0 42	16 28	6 57	15 53	16 20	12 9	10 25	7 10			
T 15	2 59	22 4	1 38	1 8	1 7	16 56	2 39	23 59	1 56	11 56	0 47	0 4	2 8	23 40	0 17	21 24	0 42	16 28	6 57	15 52	16 21	12 12	10 26	7 9			
F 16	2 36	17 31	0 24	0 21	1 1	17 20	2 45	24 5	1 56	11 52	0 47	0 7	2 8	23 40	0 17	21 24	0 42	16 28	6 57	15 52	16 22	12 14	10 27	7 9			
S 17	2 13	11 50	0n54	0s26	0 55	17 44	2 50	24 10	1 56	11 47	0 47	0 10	2 8	23 40	0 17	21 24	0 42	16 28	6 57	15 52	16 23	12 17	10 28	7 8			
S 18	1 49	5 22	2 10	1 13	0 49	18 8	2 56	24 15	1 56	11 43	0 47	0 13	2 8	23 40	0 17	21 24	0 41	16 28	6 57	15 53	16 24	12 20	10 29	7 8			
M19	1 26	1n31	3 18	1 59	0 43	18 31	3 1	24 20	1 56	11 39	0 47	0 15	2 8	23 40	0 17	21 24	0 41	16 28	6 58	15 54	16 25	12 23	10 29	7 8			
T 20	1 3	8 23	4 14	2 45	0 36	18 54	3 7	24 25	1 56	11 34	0 47	0 18	2 8	23 40	0 17	21 24	0 41	16 28	6 58	15 55	16 26	12 26	10 30	7 7			
W21	0 40	14 45	4 51	3 30	0 29	19 17	3 12	24 29	1 56	11 30	0 47	0 21	2 8	23 40	0 17	21 24	0 41	16 27	6 58	15 57	16 27	12 29	10 31	7 7			
T 22	0 17	20 10	5 8	4 15	0 22	19 39	3 18	24 33	1 56	11 26	0 47	0 24	2 8	23 40	0 17	21 24	0 41	16 27	6 58	15 59	16 28	12 32	10 32	7 6			
F 23	0s 7	24 14	5 4	5 0	0 15	20 1	3 23	24 38	1 56	11 21	0 48	0 27	2 8	23 40	0 17	21 24	0 41	16 27	6 58	16 1	16 29	12 35	10 33	7 6			
S 24	0 30	26 39	4 41	5 44	0 8	20 22	3 29	24 42	1 56	11 17	0 48	0 30	2 8	23 40	0 17	21 24	0 41	16 27	6 58	16 2	16 30	12 37	10 34	7 5			
S 25	0 53	27 20	4 2	6 28	0 1	20 43	3 34	24 45	1 56	11 13	0 48	0 33	2 8	23 39	0 17	21 24	0 41	16 27	6 58	16 2	16 31	12 40	10 35	7 5			
M26	1 17	26 22	3 11	7 11	0s 6	21 4	3 39	24 49	1 55	11 8	0 48	0 36	2 8	23 39	0 17	21 25	0 41	16 27	6 58	16 2	16 32	12 43	10 36	7 5			
T 27	1 40	23 57	2 11	7 53	0 13	21 24	3 45	24 52	1 55	11 4	0 48	0 39	2 8	23 39	0 17	21 25	0 41	16 27	6 58	16 2	16 32	12 46	10 36	7 4			
W28	2 3	20 23	1 6	8 35	0 21	21 44	3 50	24 55	1 55	11 0	0 48	0 42	2 8	23 39	0 17	21 25	0 41	16 27	6 59	16 2	16 33	12 49	10 37	7 4			
T 29	2 27	15 59	0s 1	9 17	0 28	22 3	3 55	24 58	1 55	10 56	0 48	0 45	2 8	23 39	0 17	21 25	0 41	16 27	6 59	16 2	16 34	12 52	10 38	7 3			
F 30	2s50	11n 0	1s 6	9s57	0s35	22s22	4s 0	25s 1	1s55	10n51	0n48	0s48	2n 8	23s39	0s17	21s25	0n41	16n26	6s59	16s 2	16s35	12s55	10s39	7n			

# ASTRODIENST EPHEMERIS for the year 2157

## geocentric

OCTOBER 2157

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 40 4	8♂ 7'21	10♂27	25♂47	23♂51	21♂37	4♂0	7♂4	3♂49	18°D54	0°R23	15°R56	14♂3	21♂56	11°R 4	S 1
S 2	0 44 0	9° 6'18	22°26	27°17	24°43	22°18	4°12	7°11	3°50	18♂54	0♂23	15♂51	13°59	22° 3	11♂3	S 2
M 3	0 47 57	10° 5'17	4♂21	28°45	25°35	23° 0	4°24	7°19	3°51	18°54	0°23	15°43	13°56	22° 9	11° 1	M 3
T 4	0 51 53	11° 4'17	16°13	0♂13	26°26	23°41	4°36	7°26	3°52	18°54	0°23	15°33	13°53	22°16	11° 0	T 4
W 5	0 55 50	12° 3'20	28° 4	1°40	27°16	24°23	4°47	7°33	3°53	18°54	0°23	15°22	13°50	22°23	10°59	W 5
T 6	0 59 46	13° 2'25	9♂56	3° 6	28° 6	25° 5	4°59	7°41	3°54	18°54	0°23	15°11	13°47	22°29	10°58	T 6
F 7	1 3 43	14° 1'31	21°50	4°31	28°54	25°46	5°11	7°48	3°55	18°54	0°22	15° 0	13°43	22°36	10°58	F 7
S 8	1 7 40	15° 0'40	3♂48	5°55	29°43	26°28	5°22	7°56	3°57	18°55	0°22	14°51	13°40	22°43	10°57	S 8
S 9	1 11 36	15°59'50	15°55	7°18	0♂30	27°10	5°34	8° 3	3°58	18°55	0°22	14°45	13°37	22°50	10°56	S 9
M10	1 15 33	16°59'02	28°12	8°40	1°16	27°53	5°45	8°10	3°59	18°55	0°22	14°41	13°34	22°56	10°55	M10
T 11	1 19 29	17°58'16	10♂44	10° 0	2° 2	28°35	5°56	8°18	4° 1	18°56	0°22	14°39	13°31	23° 3	10°55	T 11
W12	1 23 26	18°57'32	23°35	11°20	2°47	29°17	6° 7	8°25	4° 2	18°56	0°21	14°D39	13°28	23°10	10°54	W12
T 13	1 27 22	19°56'49	6♂50	12°38	3°30	29°59	6°19	8°32	4° 4	18°56	0°21	14°39	13°24	23°16	10°54	T 13
F 14	1 31 19	20°56'08	20°31	13°56	4°13	0♂43	6°30	8°40	4° 5	18°57	0°21	14°R39	13°21	23°23	10°53	F 14
S 15	1 35 15	21°55'29	4♂41	15°11	4°55	1°25	6°41	8°47	4° 7	18°57	0°21	14°38	13°18	23°30	10°53	S 15
S 16	1 39 12	22°54'52	19°19	16°26	5°36	2° 8	6°51	8°54	4° 9	18°58	0°20	14°34	13°15	23°37	10°53	S 16
M17	1 43 9	23°54'16	4♂20	17°38	6°15	2°51	7° 2	9° 2	4°10	18°58	0°20	14°27	13°12	23°43	10°52	M17
T 18	1 47 5	24°53'42	19°37	18°50	6°54	3°34	7°13	9° 9	4°12	18°59	0°19	14°18	13° 9	23°50	10°52	T 18
W19	1 51 2	25°53'11	4♂58	19°59	7°31	4°17	7°24	9°16	4°14	18°59	0°19	14° 8	13° 5	23°57	10°52	W19
T 20	1 54 58	26°52'41	20°13	21° 6	8° 7	5° 0	7°34	9°23	4°16	19° 0	0°19	13°58	13° 2	24° 3	10°52	T 20
F 21	1 58 55	27°52'14	5♂10	22°11	8°41	5°44	7°45	9°31	4°18	19° 1	0°18	13°48	12°59	24°10	10°52	F 21
S 22	2 2 51	28°51'49	19°41	23°14	9°15	6°27	7°55	9°38	4°20	19° 1	0°18	13°41	12°56	24°17	10°53	S 22
S 23	2 6 48	29°51'26	3♂44	24°15	9°47	7°10	8° 5	9°45	4°22	19° 2	0°17	13°36	12°53	24°24	10°53	S 23
M24	2 10 44	0♂51'05	17°16	25°12	10°17	7°54	8°16	9°52	4°24	19° 3	0°17	13°34	12°49	24°30	10°53	M24
T25	2 14 41	1°50'47	0♂21	26° 7	10°46	8°38	8°26	9°59	4°26	19° 4	0°16	13°D33	12°46	24°37	10°53	T25
W26	2 18 38	2°50'31	13° 2	26°57	11°14	9°21	8°36	10° 6	4°28	19° 5	0°16	13°R33	12°43	24°44	10°54	W26
T 27	2 22 34	3°50'17	25°24	27°45	11°39	10° 5	8°46	10°13	4°30	19° 5	0°15	13°33	12°40	24°50	10°54	T 27
F 28	2 26 31	4°50'05	7♂32	28°27	12° 3	10°49	8°55	10°20	4°32	19° 6	0°15	13°31	12°37	24°57	10°55	F 28
S 29	2 30 27	5°49'56	19°30	29° 6	12°26	11°33	9° 5	10°27	4°35	19° 7	0°14	13°26	12°34	25° 4	10°56	S 29
S 30	2 34 24	6°49'48	1♂23	29°39	12°46	12°17	9°15	10°34	4°37	19° 8	0°13	13°18	12°30	25°11	10°56	S 30
M31	2 38 20	7♂49'43	13♂14	0♂ 6	13♂ 5	13♂ 1	9♂24	10♂41	4♂39	19♂ 9	0♂13	13♂ 8	12♂27	25♂17	10♂57	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	3s13	5n41	2s 7	10s37	0s43	22s40	4s 5	25s 4	1s55	10n47	0n49	0s50	2n 8	23s39	0s17	21s25	0n41	16n26	6s59	16s 3	16s36	12s57	10s40	7n 2			
S 2	3 36	0 12	3 3	11 17	0 50	22 58	4 10	25 6	1 54	10 43	0 49	0 53	2 8	23 39	0 17	21 25	0 41	16 26	6 59	16 4	16 37	13 0	10 40	7 2			
M 3	4 0	5s14	3 49	11 55	0 58	23 16	4 15	25 8	1 54	10 39	0 49	0 56	2 8	23 39	0 17	21 25	0 41	16 26	6 59	16 7	16 38	13 3	10 41	7 1			
T 4	4 23	10 27	4 26	12 33	1 5	23 33	4 20	25 10	1 54	10 35	0 49	0 59	2 8	23 39	0 17	21 25	0 41	16 26	6 59	16 10	16 39	13 6	10 42	7 1			
W 5	4 46	15 17	4 50	13 10	1 12	23 50	4 25	25 12	1 54	10 31	0 49	1 2	2 8	23 39	0 17	21 25	0 41	16 26	6 59	16 13	16 40	13 9	10 43	7 0			
T 6	5 9	19 33	5 3	13 47	1 19	24 6	4 29	25 13	1 54	10 26	0 49	1 5	2 8	23 39	0 17	21 25	0 41	16 26	6 59	16 16	16 41	13 12	10 43	7 0			
F 7	5 32	23 4	5 2	14 22	1 26	24 21	4 34	25 14	1 53	10 22	0 49	1 8	2 8	23 39	0 17	21 25	0 41	16 26	6 59	16 19	16 42	13 14	10 44	7 0			
S 8	5 55	25 36	4 48	14 57	1 33	24 36	4 38	25 15	1 53	10 18	0 50	1 11	2 8	23 39	0 17	21 25	0 41	16 26	7 0	16 22	16 43	13 17	10 45	6 59			
S 9	6 17	27 0	4 21	15 31	1 40	24 51	4 43	25 16	1 53	10 14	0 50	1 13	2 8	23 39	0 17	21 25	0 41	16 26	7 0	16 24	16 43	13 20	10 45	6 59			
M10	6 40	27 6	3 41	16 4	1 47	25 5	4 47	25 17	1 52	10 10	0 50	1 16	2 8	23 39	0 17	21 25	0 41	16 25	7 0	16 25	16 44	13 23	10 46	6 58			
T 11	7 3	25 49	2 50	16 36	1 54	25 18	4 51	25 17	1 52	10 6	0 50	1 19	2 9	23 39	0 17	21 25	0 41	16 25	7 0	16 26	16 45	13 26	10 47	6 58			
W12	7 25	23 10	1 50	17 7	2 0	25 32	4 55	25 17	1 52	10 2	0 50	1 22	2 9	23 39	0 17	21 25	0 41	16 25	7 0	16 26	16 46	13 28	10 47	6 57			
T 13	7 48	19 13	0 42	17 38	2 6	25 44	4 59	25 17	1 52	9 58	0 50	1 25	2 9	23 39	0 17	21 25	0 41	16 25	7 0	16 26	16 47	13 31	10 48	6 57			
F 14	8 10	14 9	0n31	18 7	2 13	25 56	5 3	25 16	1 51	9 54	0 50	1 28	2 9	23 39	0 17	21 25	0 41	16 25	7 0	16 25	16 48	13 34	10 48	6 56			
S 15	8 32	8 10	1 44	18 35	2 18	26 8	5 7	25 16	1 51	9 50	0 51	1 30	2 9	23 39	0 17	21 25	0 41	16 25	7 0	16 26	16 49	13 37	10 49	6 56			
S 16	8 54	1 34	2 53	19 2	2 24	26 18	5 10	25 15	1 51	9 46	0 51	1 33	2 9	23 39	0 17	21 25	0 41	16 25	7 0	16 27	16 50	13 40	10 50	6 55			
M17	9 16	5n16	3 51	19 28	2 29	26 29	5 14	25 14	1 50	9 43	0 51	1 36	2 9	23 39	0 17	21 25	0 41	16 25	7 1	16 29	16 51	13 42	10 50	6 55			
T 18	9 38	11 54	4 34	19 53	2 35	26 39	5 17	25 12	1 50	9 39	0 51	1 39	2 9	23 38	0 17	21 25	0 40	16 25	7 1	16 32	16 52	13 45	10 51	6 54			
W19	10 0	17 50	4 58	20 17	2 39	26 48	5 20	25 11	1 50	9 35	0 51	1 41	2 9	23 38	0 17	21 25	0 40	16 24	7 1	16 35	16 52	13 48	10 51	6 54			
T 20	10 21	22 36	5 0	20 39	2 44	26 57	5 22	25 9	1 49	9 31	0 51	1 44	2 9	23 38	0 17	21 24	0 40	16 24	7 1	16 38	16 53	13 51	10 52	6 53			
F 21	10 42	25 45	4 41	21 0	2 48	27 5	5 25	25 7	1 49	9 27	0 52	1 47	2 9	23 38	0 17	21 24	0 40	16 24	7 1	16 40	16 54	13 53	10 52	6 53			
S 22	11 4	27 5	4 5	21 20	2 52	27 13	5 27	25 4	1 48	9 24	0 52	1 50	2 9	23 38	0 17	21 24	0 40	16 24	7 1	16 42	16 55	13 56	10 53	6 52			
S 23	11 25	26 36	3 14	21 39	2 55	27 20	5 29	25 1	1 48	9 20	0 52	1 52	2 10	23 38	0 17	21 24	0 40	16 24	7 1	16 44	16 56	13 59	10 53	6 52			
M24	11 46	24 32	2 14	21 55	2 58	27 26	5 31	24 59	1 48	9 16	0 52	1 55	2 10	23 38	0 17	21 24	0 40	16 24	7 1	16 44	16 57	14 2	10 53	6 51			
T25	12 6	21 11	1 9	22 11	3 0	27 32	5 33	24 55	1 47	9 13	0 52	1 58	2 10	23 38	0 17	21 24	0 40	16 24	7 1	16 45	16 58	14 5	10 54	6 51			
W26	12 27	16 56	0 3	22 24	3 1	27 37	5 34	24 52	1 47	9 9	0 53	2 0	2 10	23 38	0 17	21 24	0 40	16 24	7 1	16 45	16 59	14 7	10 54	6 50			
T 27	12 47	12 4	1s 2	22 36	3 2	27 42	5 35	24 48	1 46	9 6	0 53	2 3	2 10	23 38	0 17	21 24	0 40	16 24	7 1	16 45	17 0	14 10	10 54	6 49			
F 28	13 7	6 50	2 3	22 46	3 2	27 46	5 36	24 44	1 46	9 2	0 53	2 6	2 10	23 38	0 17	21 24	0 40	16 24	7 2	16 45	17 1	14 13	10 55	6 49			
S 29	13 27	1 26	2 58	22 54	3 2	27 50	5 37	24 40	1 45	8 59	0 53	2 8	2 10	23 38	0 17	21 24	0 40	16 24	7 2	16 47	17 1	14 15	10 55	6 48			
S 30	13 47	3s59	3 44	23 0	3 0	27 52	5 37	24 36	1 45	8 55	0 53	2 11	2 10	23 38	0 17	21 24	0 40	16 24	7 2	16 49	17 2	14 18	10 55	6 48			
M31	14s 7	9s13	4s20	23s 3	2s58	27s55	5s36	24s31	1s45	8n52	0n53	2s14	2n10	23s38	0s17	21s24	0n40	16n23	7s 2	16s52	17s 3	14s21	10s56	6n47			

ASTRODIENST EPHEMERIS for the year 2157  
geocentric

NOVEMBER 2157

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 42 17	8♉49°39	25♊ 5	0♈27	13♈22	13♈45	9♉34	10♊48	4♈42	19♈10	0°R12	12°R55	12♊24	25♊24	10♊58	T 1
W 2	2 46 13	9°49'38	6♉58	0°41	13°37	14°30	9°43	10°55	4°44	19°11	0°11	12°40	12°21	25°31	10°59	W 2
T 3	2 50 10	10°49'38	18°54	0°R47	13°49	15°14	9°52	11° 1	4°46	19°12	0°11	12°25	12°18	25°37	11° 0	T 3
F 4	2 54 7	11°49'41	0♈54	0°46	14° 0	15°59	10° 1	11° 8	4°49	19°13	0°10	12°11	12°14	25°44	11° 1	F 4
S 5	2 58 3	12°49'45	13° 1	0°35	14° 8	16°43	10°10	11°15	4°51	19°15	0° 9	11°59	12°11	25°51	11° 2	S 5
S 6	3 2 0	13°49'51	25°14	0°16	14°14	17°28	10°19	11°22	4°54	19°16	0° 8	11°50	12° 8	25°58	11° 3	S 6
M 7	3 5 56	14°49'59	7♈37	29♉46	14°18	18°12	10°28	11°28	4°57	19°17	0° 8	11°43	12° 5	26° 4	11° 4	M 7
T 8	3 9 53	15°50'08	20°12	29° 7	14°R20	18°57	10°36	11°35	4°59	19°18	0° 7	11°40	12° 2	26°11	11° 6	T 8
W 9	3 13 49	16°50'19	3♊ 2	28°19	14°19	19°42	10°45	11°41	5° 2	19°19	0° 6	11°38	11°59	26°18	11° 7	W 9
T 10	3 17 46	17°50'31	16°11	27°21	14°16	20°27	10°53	11°48	5° 5	19°21	0° 5	11°38	11°55	26°25	11° 9	T 10
F 11	3 21 42	18°50'44	29°43	26°15	14°10	21°12	11° 2	11°54	5° 7	19°22	0° 4	11°38	11°52	26°31	11°10	F 11
S 12	3 25 39	19°50'59	13♈40	25° 3	14° 2	21°57	11°10	12° 1	5°10	19°23	0° 4	11°36	11°49	26°38	11°12	S 12
S 13	3 29 36	20°51'16	28° 3	23°46	13°51	22°42	11°18	12° 7	5°13	19°25	0° 3	11°32	11°46	26°45	11°13	S 13
M14	3 33 32	21°51'34	12°Y49	22°26	13°38	23°27	11°26	12°13	5°16	19°26	0° 2	11°26	11°43	26°51	11°15	M14
T 15	3 37 29	22°51'53	27°53	21° 6	13°22	24°12	11°33	12°20	5°19	19°28	0° 1	11°16	11°40	26°58	11°17	T 15
W16	3 41 25	23°52'14	13♈ 5	19°49	13° 4	24°57	11°41	12°26	5°21	19°29	29°II59	11° 6	11°36	27° 5	11°19	W16
T 17	3 45 22	24°52'36	28°17	18°37	12°44	25°43	11°48	12°32	5°24	19°30	29°59	10°54	11°33	27°12	11°21	T 17
F 18	3 49 18	25°53'01	13♈16	17°32	12°22	26°28	11°56	12°38	5°27	19°32	29°58	10°44	11°30	27°18	11°23	F 18
S 19	3 53 15	26°53'27	27°53	16°36	11°57	27°13	12° 3	12°44	5°30	19°34	29°57	10°36	11°27	27°25	11°25	S 19
S 20	3 57 11	27°53'54	12♈ 3	15°51	11°30	27°59	12°10	12°50	5°33	19°35	29°56	10°30	11°24	27°32	11°27	S 20
M21	4 1 8	28°54'24	25°44	15°17	11° 2	28°44	12°17	12°56	5°36	19°37	29°55	10°27	11°20	27°38	11°29	M21
T 22	4 5 5	29°54'55	8♈55	14°55	10°32	29°30	12°24	13° 2	5°40	19°38	29°54	10°D26	11°17	27°45	11°31	T 22
W23	4 9 1	0♈55'28	21°41	14°D45	10° 0	0♈15	12°30	13° 8	5°43	19°40	29°53	10°27	11°14	27°52	11°34	W23
T 24	4 12 58	1°56'03	4♉ 5	14°46	9°27	1° 1	12°37	13°13	5°46	19°42	29°52	10°R27	11°11	27°59	11°36	T 24
F 25	4 16 54	2°56'39	16°14	14°57	8°53	1°46	12°43	13°19	5°49	19°43	29°51	10°26	11° 8	28° 5	11°39	F 25
S 26	4 20 51	3°57'17	28°12	15°18	8°17	2°32	12°49	13°25	5°52	19°45	29°50	10°23	11° 5	28°12	11°41	S 26
S 27	4 24 47	4°57'57	10♊ 3	15°49	7°42	3°18	12°55	13°30	5°55	19°47	29°49	10°17	11° 1	28°19	11°44	S 27
M28	4 28 44	5°58'38	21°54	16°27	7° 5	4° 4	13° 1	13°36	5°59	19°48	29°48	10° 9	10°58	28°25	11°46	M28
T 29	4 32 40	6°59'21	3♉45	17°12	6°29	4°49	13° 7	13°41	6° 2	19°50	29°47	9°59	10°55	28°32	11°49	T 29
W30	4 36 37	8♈ 0'05	15♉42	18♉ 4	5♈53	5♈35	13♉12	13♊46	6♈ 5	19♈52	29°II46	9♈47	10♊52	28♊39	11♊52	W30

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	14s26	14s 7	4s45	23s 4	2s54	27s56	5s36	24s26	1s44	8n48	0n54	2s16	2n11	23s37	0s17	21s23	0n40	16n23	7s 2	16s55	17s 4	14s24	10s56	6n47			
W 2	14 45	18 31	4 58	23 2	2 49	27 57	5 35	24 21	1 44	8 45	0 54	2 19	2 11	23 37	0 17	21 23	0 40	16 23	7 2	17 0	17 5	14 26	10 56	6 46			
T 3	15 4	22 11	4 57	22 58	2 43	27 57	5 33	24 15	1 43	8 42	0 54	2 21	2 11	23 37	0 17	21 23	0 40	16 23	7 2	17 4	17 6	14 29	10 56	6 46			
F 4	15 22	24 57	4 44	22 50	2 36	27 57	5 31	24 10	1 43	8 39	0 54	2 24	2 11	23 37	0 17	21 23	0 40	16 23	7 2	17 8	17 7	14 32	10 57	6 45			
S 5	15 41	26 35	4 17	22 39	2 27	27 55	5 29	24 4	1 42	8 35	0 54	2 26	2 11	23 37	0 17	21 23	0 40	16 23	7 2	17 11	17 8	14 35	10 57	6 45			
S 6	15 59	26 58	3 39	22 25	2 16	27 53	5 26	23 58	1 42	8 32	0 55	2 29	2 11	23 37	0 17	21 23	0 40	16 23	7 2	17 14	17 9	14 37	10 57	6 44			
M 7	16 16	26 1	2 49	22 6	2 4	27 51	5 23	23 51	1 41	8 29	0 55	2 31	2 11	23 37	0 17	21 23	0 40	16 23	7 2	17 16	17 9	14 40	10 57	6 44			
T 8	16 34	23 44	1 51	21 44	1 50	27 47	5 19	23 44	1 41	8 26	0 55	2 34	2 11	23 37	0 17	21 23	0 40	16 23	7 2	17 16	17 10	14 43	10 57	6 43			
W 9	16 51	20 12	0 45	21 18	1 35	27 43	5 15	23 37	1 40	8 23	0 55	2 36	2 12	23 37	0 17	21 22	0 40	16 23	7 2	17 17	17 11	14 45	10 57	6 43			
T 10	17 8	15 35	0n24	20 49	1 18	27 37	5 10	23 30	1 39	8 20	0 55	2 38	2 12	23 37	0 17	21 22	0 40	16 23	7 2	17 17	17 12	14 48	10 57	6 42			
F 11	17 25	10 6	1 34	20 15	0 59	27 31	5 4	23 23	1 39	8 17	0 56	2 41	2 12	23 36	0 17	21 22	0 40	16 23	7 3	17 17	17 13	14 51	10 58	6 42			
S 12	17 41	3 57	2 41	19 39	0 39	27 24	4 58	23 15	1 38	8 14	0 56	2 43	2 12	23 36	0 17	21 22	0 40	16 23	7 3	17 17	17 14	14 53	10 58	6 41			
S 13	17 57	2n34	3 39	19 1	0 19	27 16	4 52	23 7	1 38	8 11	0 56	2 45	2 12	23 36	0 17	21 22	0 40	16 23	7 3	17 18	17 15	14 56	10 58	6 41			
M14	18 13	9 7	4 24	18 20	0n 1	27 7	4 45	22 59	1 37	8 9	0 56	2 48	2 12	23 36	0 17	21 22	0 40	16 23	7 3	17 20	17 16	14 59	10 58	6 41			
T 15	18 28	15 15	4 53	17 40	0 22	26 58	4 37	22 51	1 37	8 6	0 57	2 50	2 13	23 36	0 17	21 21	0 40	16 22	7 3	17 23	17 17	15 1	10 58	6 40			
W16	18 44	20 31	5 0	17 0	0 42	26 47	4 28	22 42	1 36	8 3	0 57	2 52	2 13	23 36	0 17	21 21	0 40	16 22	7 3	17 26	17 17	15 4	10 58	6 40			
T 17	18 58	24 25	4 47	16 23	1 1	26 35	4 19	22 33	1 35	8 0	0 57	2 54	2 13	23 36	0 17	21 21	0 40	16 22	7 3	17 29	17 18	15 7	10 58	6 39			
F 18	19 13	26 34	4 14	15 48	1 18	26 22	4 9	22 24	1 35	7 58	0 57	2 57	2 13	23 36	0 17	21 21	0 40	16 22	7 3	17 32	17 19	15 9	10 57	6 39			
S 19	19 27	26 49	3 25	15 17	1 34	26 9	3 59	22 14	1 34	7 55	0 57	2 59	2 13	23 35	0 17	21 21	0 40	16 22	7 3	17 34	17 20	15 12	10 57	6 38			
S 20	19 41	25 16	2 24	14 51	1 48	25 54	3 48	22 5	1 34	7 53	0 58	3 1	2 13	23 35	0 17	21 20	0 39	16 22	7 3	17 36	17 21	15 15	10 57	6 38			
M21	19 54	22 15	1 17	14 30	1 59	25 39	3 36	21 55	1 33	7 50	0 58	3 3	2 14	23 35	0 17	21 20	0 39	16 22	7 3	17 36	17 22	15 17	10 57	6 37			
T 22	20 7	18 9	0 8	14 14	2 9	25 22	3 24	21 45	1 32	7 48	0 58	3 5	2 14	23 35	0 17	21 20	0 39	16 22	7 3	17 37	17 23	15 20	10 57	6 37			
W23	20 20	13 20	0s59	14 4	2 17	25 5	3 11	21 34	1 32	7 46	0 58	3 7	2 14	23 35	0 17	21 20	0 39	16 22	7 3	17 36	17 24	15 23	10 57	6 36			
T 24	20 32	8 6	2 2	13 59	2 23	24 47	2 58	21 24	1 31	7 43	0 59	3 9	2 14	23 35	0 17	21 20	0 39	16 22	7 3	17 36	17 24	15 25	10 57	6 36			
F 25	20 44	2 42	2 58	13 58	2 27	24 28	2 44	21 13	1 30	7 41	0 59	3 11	2 14	23 35	0 17	21 19	0 39	16 22	7 3	17 37	17 25	15 28	10 56	6 35			
S 26	20 55	2s44	3 45	14 2	2 29	24 8	2 30	21 2	1 30	7 39	0 59	3 13	2 15	23 35	0 17	21 19	0 39	16 22	7 3	17 37	17 26	15 30	10 56	6 35			
S 27	21 7	8 0	4 22	14 10	2 30	23 48	2 15	20 51	1 29	7 37	0 59	3 15	2 15	23 34	0 17	21 19	0 39	16 22	7 3	17 39	17 27	15 33	10 56	6 34			
M28	21 17	12 58	4 48	14 21	2 30	23 27	2 0	20 40	1 29	7 35	1 0	3 17	2 15	23 34	0 17	21 19	0 39	16 22	7 3	17 41	17 28	15 36	10 56	6 34			
T 29	21 28	17 28	5 1	14 35	2 28	23 6	1 45	20 28	1 28	7 33	1 0	3 19	2 15	23 34	0 17	21 19	0 39	16 22	7 3	17 44	17 29	15 38	10 55	6 34			
W30	21s38	21s19	5s 1	14s52	2n26	22s44	1s30	20s16	1s27	7n31	1n 0	3s21	2n15	23s34	0s17	21s18	0n39	16n22	7s 3	17s47	17s30	15s41	10s55	6n33			

# ASTRODIENST EPHEMERIS for the year 2157

## geocentric

DECEMBER 2157

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 40 34	9°05'1	27°44	19°1	5°R17	6°21	13°18	13°52	6°8	19°54	29°R45	9°R34	10°49	28°46	11°54	T 1
F 2	4 44 30	10°1'38	9°54	20°3	4°41	7°7	13°23	13°57	6°12	19°56	29°II44	9°22	10°46	28°52	11°57	F 2
S 3	4 48 27	11°2'26	22°13	21°10	4°7	7°53	13°28	14°2	6°15	19°57	29°43	9°12	10°42	28°59	12°0	S 3
S 4	4 52 23	12°3'16	4°30	22°20	3°33	8°39	13°33	14°7	6°18	19°59	29°41	9°5	10°39	29°6	12°3	S 4
M 5	4 56 20	13°4'07	17°18	23°33	3°1	9°25	13°38	14°12	6°22	20°1	29°40	9°0	10°36	29°13	12°6	M 5
T 6	5 0 16	14°4'58	0°6	24°49	2°30	10°11	13°42	14°17	6°25	20°3	29°39	8°57	10°33	29°19	12°9	T 6
W 7	5 4 13	15°5'51	13°6	26°7	2°1	10°57	13°47	14°22	6°29	20°5	29°38	8°D57	10°30	29°26	12°12	W 7
T 8	5 8 10	16°6'44	26°21	27°27	1°33	11°43	13°51	14°27	6°32	20°7	29°37	8°58	10°26	29°33	12°15	T 8
F 9	5 12 6	17°7'38	9°53	28°49	1°8	12°30	13°55	14°31	6°35	20°9	29°36	8°59	10°23	29°39	12°18	F 9
S 10	5 16 3	18°8'32	23°42	0°12	0°44	13°16	13°59	14°36	6°39	20°11	29°35	8°R59	10°20	29°46	12°22	S 10
S 11	5 19 59	19°9'28	7°50	1°37	0°23	14°2	14°2	14°40	6°42	20°13	29°33	8°57	10°17	29°53	12°25	S 11
M12	5 23 56	20°10'24	22°16	3°2	0°4	14°48	14°6	14°45	6°46	20°15	29°32	8°53	10°14	29°59	12°28	M12
T 13	5 27 52	21°11'20	6°56	4°29	29°M47	15°34	14°9	14°49	6°49	20°17	29°31	8°48	10°11	0°M6	12°32	T 13
W14	5 31 49	22°12'18	21°45	5°56	29°33	16°21	14°12	14°53	6°53	20°19	29°30	8°40	10°7	0°13	12°35	W14
T 15	5 35 45	23°13'16	6°II35	7°24	29°21	17°7	14°15	14°58	6°56	20°21	29°29	8°33	10°4	0°20	12°39	T 15
F 16	5 39 42	24°14'15	21°17	8°53	29°12	17°53	14°18	15°2	7°0	20°23	29°28	8°26	10°1	0°26	12°42	F 16
S 17	5 43 39	25°15'14	5°345	10°22	29°5	18°40	14°21	15°6	7°4	20°25	29°26	8°20	9°58	0°33	12°46	S 17
S 18	5 47 35	26°16'15	19°51	11°51	29°1	19°26	14°23	15°10	7°7	20°27	29°25	8°17	9°55	0°40	12°50	S 18
M19	5 51 32	27°17'16	3°23	13°21	28°D59	20°12	14°25	15°14	7°11	20°30	29°24	8°D15	9°52	0°47	12°53	M19
T 20	5 55 28	28°18'18	16°47	14°52	29°0	20°59	14°27	15°17	7°14	20°32	29°23	8°16	9°48	0°53	12°57	T 20
W21	5 59 25	29°19'21	29°39	16°22	29°3	21°45	14°29	15°21	7°18	20°34	29°22	8°17	9°45	1°0	13°1	W21
T 22	6 3 21	0°30'24	12°8	17°53	29°9	22°31	14°31	15°24	7°21	20°36	29°20	8°19	9°42	1°7	13°4	T 22
F 23	6 7 18	1°21'29	24°21	19°25	29°17	23°18	14°32	15°28	7°25	20°38	29°19	8°20	9°39	1°14	13°8	F 23
S 24	6 11 14	2°22'34	6°22	20°56	29°27	24°4	14°34	15°31	7°29	20°40	29°18	8°R20	9°36	1°20	13°12	S 24
S 25	6 15 11	3°23'40	18°15	22°28	29°39	24°50	14°35	15°35	7°32	20°43	29°17	8°19	9°32	1°27	13°16	S 25
M26	6 19 8	4°24'46	0°M7	24°0	29°54	25°37	14°36	15°38	7°36	20°45	29°16	8°16	9°29	1°34	13°20	M26
T 27	6 23 4	5°25'54	12°0	25°32	0°10	26°23	14°36	15°41	7°39	20°47	29°15	8°11	9°26	1°40	13°24	T 27
W28	6 27 1	6°27'02	23°59	27°5	0°29	27°10	14°37	15°44	7°43	20°49	29°13	8°6	9°23	1°47	13°28	W28
T 29	6 30 57	7°28'11	6°18	28°38	0°50	27°56	14°37	15°47	7°47	20°51	29°12	8°0	9°20	1°54	13°32	T 29
F 30	6 34 54	8°29'20	18°27	0°11	1°12	28°43	14°R37	15°50	7°50	20°54	29°11	7°55	9°17	2°1	13°36	F 30
S 31	6 38 50	9°30'29	0°359	1°344	1°137	29°29	14°M37	15°52	7°54	20°56	29°II10	7°50	9°13	2°M7	13°40	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s47	24s19	4s48	15s10	2n23	22s23	1s14	20s4	1s27	7n29	1n0	3s23	2n16	23s34	0s17	21s18
F 2	21s56	26s14	4s22	15s31	2s19	22s1	0s59	19s52	1s26	7s28	1s1	3s25	2s16	23s34	0s17	21s18
S 3	22s5	26s54	3s43	15s53	2s14	21s39	0s43	19s39	1s25	7s26	1s1	3s26	2s16	23s34	0s17	21s18
S 4	22s13	26s13	2s53	16s16	2s9	21s18	0s27	19s27	1s24	7s24	1s1	3s28	2s16	23s33	0s17	21s17
M 5	22s21	24s11	1s53	16s39	2s3	20s56	0s12	19s14	1s24	7s23	1s1	3s30	2s16	23s33	0s17	21s17
T 6	22s28	20s53	0s47	17s4	1s57	20s35	0n3	19s1	1s23	7s21	1s2	3s32	2s17	23s33	0s17	21s17
W 7	22s35	16s31	0n22	17s28	1s51	20s15	0s18	18s47	1s22	7s20	1s2	3s33	2s17	23s33	0s17	21s17
T 8	22s42	11s17	1s32	17s53	1s44	19s55	0s33	18s34	1s22	7s18	1s2	3s35	2s17	23s33	0s17	21s16
F 9	22s48	5s25	2s38	18s18	1s37	19s36	0s47	18s20	1s21	7s17	1s2	3s37	2s17	23s33	0s17	21s16
S 10	22s53	0n49	3s37	18s43	1s30	19s17	1s1	18s6	1s20	7s16	1s3	3s38	2s18	23s32	0s17	21s16
S 11	22s59	7s8	4s24	19s7	1s23	18s59	1s15	17s52	1s19	7s14	1s3	3s40	2s18	23s32	0s17	21s15
M12	23s3	13s13	4s55	19s31	1s15	18s43	1s28	17s38	1s19	7s13	1s3	3s41	2s18	23s32	0s17	21s15
T 13	23s8	18s39	5s7	19s55	1s8	18s27	1s41	17s24	1s18	7s12	1s3	3s43	2s18	23s32	0s17	21s15
W14	23s11	23s0	5s0	20s17	1s0	18s12	1s53	17s9	1s17	7s11	1s4	3s44	2s19	23s32	0s17	21s15
T 15	23s15	25s51	4s32	20s40	0s53	17s58	2s5	16s54	1s16	7s10	1s4	3s45	2s19	23s31	0s17	21s14
F 16	23s18	26s54	3s46	21s1	0s45	17s45	2s16	16s40	1s16	7s10	1s4	3s47	2s19	23s31	0s17	21s14
S 17	23s20	26s4	2s47	21s22	0s38	17s33	2s27	16s25	1s15	7s9	1s4	3s48	2s19	23s31	0s17	21s14
S 18	23s22	23s34	1s38	21s42	0s30	17s22	2s37	16s9	1s14	7s8	1s5	3s49	2s19	23s31	0s17	21s13
M19	23s24	19s46	0s26	22s0	0s23	17s12	2s47	15s54	1s13	7s8	1s5	3s51	2s20	23s31	0s17	21s13
T 20	23s25	15s3	0s46	22s18	0s15	17s3	2s56	15s39	1s13	7s7	1s5	3s52	2s20	23s31	0s17	21s13
W21	23s25	9s49	1s54	22s35	0s8	16s55	3s5	15s23	1s12	7s7	1s6	3s53	2s20	23s30	0s17	21s13
T 22	23s25	4s19	2s54	22s51	0s1	16s48	3s13	15s7	1s11	7s6	1s6	3s54	2s21	23s30	0s17	21s12
F 23	23s25	1s12	3s44	23s6	0s6	16s43	3s21	14s51	1s10	7s6	1s6	3s55	2s21	23s30	0s17	21s12
S 24	23s24	6s34	4s25	23s20	0s13	16s38	3s28	14s35	1s10	7s6	1s6	3s56	2s21	23s30	0s17	21s12
S 25	23s23	11s40	4s53	23s32	0s20	16s34	3s35	14s19	1s9	7s5	1s7	3s57	2s21	23s30	0s17	21s11
M26	23s21	16s18	5s8	23s44	0s27	16s30	3s41	14s2	1s8	7s5	1s7	3s58	2s22	23s29	0s17	21s11
T 27	23s19	20s21	5s11	23s54	0s33	16s28	3s47	13s46	1s7	7s5	1s7	3s59	2s22	23s29	0s17	21s11
W28	23s16	23s35	5s0	24s3	0s40	16s27	3s52	13s29	1s7	7s5	1s7	4s0	2s22	23s29	0s17	21s10
T 29	23s13	25s50	4s35	24s11	0s46	16s26	3s57	13s13	1s6	7s6	1s8	4s1	2s22	23s29	0s17	21s10
F 30	23s9	26s52	3s57	24s18	0s52	16s26	4s2	12s56	1s5	7s6	1s8	4s2	2s23	23s29	0s17	21s10
S 31	23s5	26s33	3s8	24s23	0s58	16s27	4n6	12s39	1s4	7n6	1n8	4s3	2n23	23s28	0s17	21s9

Julian Day Number = 2509222.5, Delta T = 127.26 sec  
 Ecliptic obliquity = 23°25'13, Nutation = 0°00'12, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 26°56'49, Lahiri = 26°03'49