



# Astrodienst Ephemeris Tables for the year 2165

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 2165

geocentric

JANUARY 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 43 58	10°34'40"	19°02'38"	8°34'44"	1°32'12"	20°55'55"	21°44'44"	1°30'00"	5°30'30"	5°50'50"	6°46'46"	22°R31	23°46'46"	17°02'13"	15°45'43"	T 1
W 2	6 47 55	11°50'48"	1°10'25"	10°19'10"	2°27'27"	21°38'38"	21°53'53"	1°07'07"	5°34'34"	5°52'52"	6°45'45"	22°R26	23°43'43"	17°20'20"	15°45'45"	W 2
T 3	6 51 51	12°51'55"	13°13'13"	11°55'55"	3°43'43"	22°22'22"	22°02'02"	1°14'14"	5°37'37"	5°54'54"	6°44'44"	22°24'24"	23°40'40"	17°27'27"	15°47'47"	T 3
F 4	6 55 48	13°53'03"	25°06'13"	13°32'32"	4°58'58"	23°05'05"	22°11'11"	1°21'21"	5°40'40"	5°56'56"	6°42'42"	22°D24	23°36'36"	17°33'33"	15°50'50"	F 4
S 5	6 59 44	14°54'12"	7°08'15"	15°08'08"	6°14'14"	23°49'49"	22°20'20"	1°28'28"	5°44'44"	5°58'58"	6°41'41"	22°24'24"	23°33'33"	17°40'40"	15°52'52"	S 5
S 6	7 3 41	15°55'20"	19°26'26"	16°45'45"	7°29'29"	24°33'33"	22°30'30"	1°35'35"	5°47'47"	6°01'01"	6°40'40"	22°R24	23°30'30"	17°47'47"	15°54'54"	S 6
M 7	7 7 37	16°56'29"	2°05'18"	18°23'23"	8°45'45"	25°16'16"	22°40'40"	1°42'42"	5°50'50"	6°03'03"	6°39'39"	22°23'23"	23°27'27"	17°53'53"	15°56'56"	M 7
T 8	7 11 34	17°57'39"	15°09'20"	20°00'00"	10°00'00"	26°00'00"	22°49'49"	1°49'49"	5°54'54"	6°05'05"	6°38'38"	22°20'20"	23°24'24"	18°00'00"	15°59'59"	T 8
W 9	7 15 31	18°58'48"	28°42'21"	21°38'38"	11°16'16"	26°44'44"	22°59'59"	1°56'56"	5°57'57"	6°07'07"	6°36'36"	22°14'14"	23°20'20"	18°07'07"	16°01'01"	W 9
T 10	7 19 27	19°59'58"	12°45'12"	23°17'17"	12°31'31"	27°28'28"	23°09'09"	2°02'02"	6°01'01"	6°09'09"	6°35'35"	22°06'06"	23°17'17"	18°14'14"	16°04'04"	T 10
F 11	7 23 24	21°01'07"	27°15'24"	24°56'56"	13°47'47"	28°12'12"	23°19'19"	2°09'09"	6°04'04"	6°12'12"	6°34'34"	21°56'56"	23°14'14"	18°20'20"	16°06'06"	F 11
S 12	7 27 20	22°02'17"	12°09'26"	26°35'35"	15°02'02"	28°56'56"	23°30'30"	2°16'16"	6°07'07"	6°14'14"	6°33'33"	21°46'46"	23°11'11"	18°27'27"	16°09'09"	S 12
S 13	7 31 17	23°03'26"	27°16'27"	28°15'15"	16°17'17"	29°40'40"	23°40'40"	2°23'23"	6°11'11"	6°16'16"	6°32'32"	21°37'37"	23°08'08"	18°34'34"	16°11'11"	S 13
M14	7 35 13	24°04'36"	12°27'27"	29°55'55"	17°33'33"	0°24'24"	23°51'51"	2°30'30"	6°14'14"	6°18'18"	6°31'31"	21°30'30"	23°05'05"	18°40'40"	16°14'14"	M14
T 15	7 39 10	25°05'44"	27°31'31"	18°35'35"	18°48'48"	1°08'08"	24°01'01"	2°36'36"	6°18'18"	6°20'20"	6°29'29"	21°25'25"	23°01'01"	18°47'47"	16°17'17"	T 15
W16	7 43 06	26°06'52"	12°21'21"	3°16'16"	20°04'04"	1°52'52"	24°12'12"	2°43'43"	6°21'21"	6°23'23"	6°28'28"	21°23'23"	22°58'58"	18°54'54"	16°19'19"	W16
T 17	7 47 03	27°08'00"	26°49'49"	4°57'57"	21°19'19"	2°36'36"	24°23'23"	2°50'50"	6°25'25"	6°25'25"	6°27'27"	21°D23	22°55'55"	19°00'00"	16°22'22"	T 17
F 18	7 51 00	28°09'06"	10°54'54"	6°38'38"	22°35'35"	3°20'20"	24°34'34"	2°57'57"	6°28'28"	6°27'27"	6°26'26"	21°23'23"	22°52'52"	19°07'07"	16°25'25"	F 18
S 19	7 54 56	29°10'12"	24°36'36"	8°20'20"	23°50'50"	4°04'04"	24°45'45"	3°03'03"	6°32'32"	6°29'29"	6°25'25"	21°R24	22°49'49"	19°14'14"	16°28'28"	S 19
S 20	7 58 53	0°11'18"	7°55'55"	10°01'01"	25°06'06"	4°48'48"	24°56'56"	3°10'10"	6°35'35"	6°32'32"	6°24'24"	21°24'24"	22°46'46"	19°20'20"	16°31'31"	S 20
M21	8 2 49	1°12'22"	20°55'55"	11°43'43"	26°21'21"	5°33'33"	25°07'07"	3°16'16"	6°39'39"	6°34'34"	6°23'23"	21°22'22"	22°42'42"	19°27'27"	16°34'34"	M21
T 22	8 6 46	2°13'26"	3°11'38"	13°24'24"	27°36'36"	6°17'17"	25°19'19"	3°23'23"	6°42'42"	6°36'36"	6°22'22"	21°18'18"	22°39'39"	19°34'34"	16°37'37"	T 22
W23	8 10 42	3°14'29"	16°08'15"	15°06'06"	28°52'52"	7°01'01"	25°30'30"	3°29'29"	6°46'46"	6°39'39"	6°21'21"	21°11'11"	22°36'36"	19°40'40"	16°40'40"	W23
T 24	8 14 39	4°15'30"	28°27'27"	16°47'47"	0°07'07"	7°46'46"	25°42'42"	3°36'36"	6°49'49"	6°41'41"	6°20'20"	21°03'03"	22°33'33"	19°47'47"	16°43'43"	T 24
F 25	8 18 35	5°16'32"	10°26'32"	18°27'27"	1°23'23"	8°30'30"	25°53'53"	3°42'42"	6°53'53"	6°43'43"	6°19'19"	20°54'54"	22°30'30"	19°54'54"	16°46'46"	F 25
S 26	8 22 32	6°17'32"	22°38'38"	20°07'07"	2°38'38"	9°15'15"	26°05'05"	3°49'49"	6°56'56"	6°45'45"	6°17'17"	20°45'45"	22°26'26"	20°00'00"	16°49'49"	S 26
S 27	8 26 29	7°18'31"	4°02'34"	21°45'45"	3°53'53"	9°59'59"	26°17'17"	3°55'55"	7°00'00"	6°48'48"	6°16'16"	20°37'37"	22°23'23"	20°07'07"	16°52'52"	S 27
M28	8 30 25	8°19'30"	16°26'26"	23°23'23"	5°09'09"	10°44'44"	26°29'29"	4°01'01"	7°03'03"	6°50'50"	6°15'15"	20°30'30"	22°20'20"	20°14'14"	16°55'55"	M28
T 29	8 34 22	9°20'28"	28°14'14"	24°59'59"	6°24'24"	11°28'28"	26°41'41"	4°07'07"	7°07'07"	6°52'52"	6°14'14"	20°25'25"	22°17'17"	20°20'20"	16°58'58"	T 29
W30	8 38 18	10°21'25"	10°10'10"	26°32'32"	7°40'40"	12°13'13"	26°53'53"	4°14'14"	7°10'10"	6°55'55"	6°13'13"	20°23'23"	22°14'14"	20°27'27"	17°01'01"	W30
T 31	8 42 15	11°22'21"	21°10'52"	28°03'03"	8°55'55"	12°57'57"	27°45'45"	4°20'20"	7°14'14"	6°57'57"	6°12'12"	20°D22	22°11'11"	20°03'03"	17°05'05"	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s58	12n18	2s45	24s41	1s34	23s24	0n00	23s27	0s21	4s24	1s13	22s27	0n57	19s26	0s35	18s36
W 2	22 53	9 15	1 49	24 39	1 38	23 26	0s 2	23 30	0 21	4 20	1 13	22 27	0 57	19 26	0 35	18 35
T 3	22 48	5 50	0 49	24 35	1 42	23 27	0 5	23 34	0 22	4 16	1 13	22 27	0 57	19 25	0 35	18 35
F 4	22 42	2 10	0n14	24 29	1 46	23 27	0 7	23 37	0 23	4 13	1 13	22 27	0 57	19 24	0 35	18 34
S 5	22 35	1s38	1 18	24 22	1 50	23 26	0 10	23 40	0 23	4 9	1 12	22 27	0 57	19 23	0 35	18 34
S 6	22 28	5 27	2 19	24 14	1 53	23 24	0 12	23 42	0 24	4 5	1 12	22 27	0 57	19 22	0 35	18 33
M 7	22 21	9 8	3 15	24 4	1 56	23 22	0 14	23 44	0 25	4 1	1 12	22 27	0 57	19 21	0 35	18 33
T 8	22 13	12 29	4 3	23 53	1 58	23 19	0 17	23 47	0 25	3 57	1 12	22 27	0 57	19 21	0 35	18 32
W 9	22 4	15 18	4 39	23 40	2 1	23 15	0 19	23 48	0 26	3 53	1 12	22 27	0 57	19 20	0 35	18 32
T 10	21 56	17 20	5 0	23 26	2 3	23 11	0 22	23 50	0 27	3 49	1 11	22 27	0 57	19 19	0 35	18 31
F 11	21 46	18 20	5 5	23 10	2 4	23 6	0 24	23 51	0 27	3 44	1 11	22 27	0 57	19 18	0 35	18 30
S 12	21 37	18 7	4 46	22 52	2 6	23 0	0 26	23 52	0 28	3 40	1 11	22 27	0 57	19 17	0 35	18 30
S 13	21 27	16 38	4 8	22 33	2 6	22 54	0 28	23 53	0 28	3 36	1 11	22 27	0 57	19 16	0 35	18 29
M14	21 16	13 58	3 13	22 13	2 7	22 46	0 31	23 54	0 29	3 32	1 11	22 27	0 57	19 16	0 35	18 29
T 15	21 6	10 22	2 4	21 51	2 7	22 38	0 33	23 54	0 30	3 27	1 11	22 26	0 57	19 15	0 35	18 28
W16	20 54	6 11	0 48	21 27	2 6	22 30	0 35	23 54	0 30	3 23	1 10	22 26	0 57	19 14	0 35	18 28
T 17	20 43	1 43	0s29	21 2	2 6	22 20	0 37	23 54	0 31	3 18	1 10	22 26	0 57	19 13	0 35	18 27
F 18	20 31	2n44	1 43	20 36	2 4	22 10	0 39	23 54	0 32	3 14	1 10	22 26	0 57	19 12	0 35	18 27
S 19	20 18	6 54	2 49	20 8	2 2	22 0	0 42	23 53	0 32	3 9	1 10	22 26	0 57	19 11	0 35	18 26
S 20	20 5	10 36	3 44	19 38	2 0	21 49	0 44	23 53	0 33	3 5	1 10	22 26	0 57	19 10	0 35	18 26
M21	19 52	13 42	4 26	19 8	1 57	21 37	0 46	23 51	0 34	3 0	1 10	22 26	0 57	19 9	0 35	18 25
T 22	19 39	16 3	4 53	18 35	1 53	21 24	0 48	23 50	0 34	2 56	1 10	22 26	0 57	19 9	0 35	18 24
W23	19 25	17 37	5 6	18 2	1 49	21 11	0 50	23 49	0 35	2 51	1 9	22 26	0 57	19 8	0 35	18 24
T 24	19 10	18 19	5 5	17 27	1 44	20 57	0 52	23 47	0 36	2 46	1 9	22 25	0 57	19 7	0 35	18 23
F 25	18 56	18 11	4 50	16 51	1 38	20 42	0 53	23 45	0 36	2 41	1 9	22 25	0 57	19 6	0 35	18 23
S 26	18 41	17 13	4 22	16 13	1 32	20 27	0 55	23 42	0 37	2 37	1 9	22 25	0 57	19 5	0 35	18 22
S 27	18 26	15 30	3 43	15 35	1 25	20 11	0 57	23 40	0 37	2 32	1 9	22 25	0 57	19 4	0 35	18 22
M28	18 10	13 8	2 54	14 56	1 17	19 55	0 59	23 37	0 38	2 27	1 9	22 25	0 57	19 3	0 35	18 21
T 29	17 54	10 14	1 57	14 16	1 9	19 38	1 1	23 34	0 39	2 22	1 9	22 25	0 57	19 2	0 35	18 20
W30	17 38	6 56	0 56	13 35	0 59	19 20	1 2	23 30	0 39	2 17	1 8	22 24	0 57	19 1	0 35	18 20
T 31	17s21	3n21	0n 8	12s54	0s49	19s 2	1s 4	23s27	0s40	2s12	1s 8	22s24	0n57	19s 1	0s35	18s19

Julian Day Number = 2511810.5, Delta T = 132.55 sec

Ecliptic obliquity = 23°24'54", Nutation = - 0°00'01", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°02'46", Lahiri = 26°09'46"

# ASTRODIENST EPHEMERIS for the year 2165

## geocentric

FEBRUARY 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 46 11	12 <sup>23</sup> 17	3 <sup>48</sup> 48	29 <sup>32</sup> 32	10 <sup>10</sup> 10	13 <sup>42</sup> 42	27 <sup>17</sup> 17	4 <sup>26</sup> 26	7 <sup>17</sup> 17	6 <sup>59</sup> 59	6 <sup>12</sup> 12	20 <sup>23</sup> 23	22 <sup>7</sup> 7	20 <sup>40</sup> 40	17 <sup>8</sup> 8	F 1
S 2	8 50 8	13 <sup>24</sup> 12	15 <sup>52</sup> 52	0 <sup>56</sup> 56	11 <sup>26</sup> 26	14 <sup>27</sup> 27	27 <sup>30</sup> 30	4 <sup>32</sup> 32	7 <sup>21</sup> 21	7 <sup>1</sup> 1	6 <sup>11</sup> 11	20 <sup>25</sup> 25	22 <sup>4</sup> 4	20 <sup>47</sup> 47	17 <sup>11</sup> 11	S 2
S 3	8 54 4	14 <sup>25</sup> 06	28 <sup>9</sup> 9	2 <sup>17</sup> 17	12 <sup>41</sup> 41	15 <sup>12</sup> 12	27 <sup>42</sup> 42	4 <sup>38</sup> 38	7 <sup>24</sup> 24	7 <sup>4</sup> 4	6 <sup>10</sup> 10	20 <sup>26</sup> 26	22 <sup>1</sup> 1	20 <sup>54</sup> 54	17 <sup>15</sup> 15	S 3
M 4	8 58 1	15 <sup>25</sup> 59	10 <sup>45</sup> 45	3 <sup>32</sup> 32	13 <sup>56</sup> 56	15 <sup>56</sup> 56	27 <sup>55</sup> 55	4 <sup>44</sup> 44	7 <sup>28</sup> 28	7 <sup>6</sup> 6	6 <sup>9</sup> 9	20 <sup>27</sup> 27	21 <sup>58</sup> 58	21 <sup>0</sup> 0	17 <sup>18</sup> 18	M 4
T 5	9 1 58	16 <sup>26</sup> 52	23 <sup>43</sup> 43	4 <sup>42</sup> 42	15 <sup>12</sup> 12	16 <sup>41</sup> 41	28 <sup>7</sup> 7	4 <sup>50</sup> 50	7 <sup>31</sup> 31	7 <sup>8</sup> 8	6 <sup>8</sup> 8	20 <sup>27</sup> 27	21 <sup>55</sup> 55	21 <sup>7</sup> 7	17 <sup>21</sup> 21	T 5
W 6	9 5 54	17 <sup>27</sup> 44	7 <sup>7</sup> 7	5 <sup>45</sup> 45	16 <sup>27</sup> 27	17 <sup>26</sup> 26	28 <sup>20</sup> 20	4 <sup>56</sup> 56	7 <sup>35</sup> 35	7 <sup>10</sup> 10	6 <sup>7</sup> 7	20 <sup>25</sup> 25	21 <sup>51</sup> 51	21 <sup>14</sup> 14	17 <sup>25</sup> 25	W 6
T 7	9 9 51	18 <sup>28</sup> 35	21 <sup>0</sup> 0	6 <sup>41</sup> 41	17 <sup>42</sup> 42	18 <sup>11</sup> 11	28 <sup>33</sup> 33	5 <sup>1</sup> 1	7 <sup>38</sup> 38	7 <sup>13</sup> 13	6 <sup>6</sup> 6	20 <sup>22</sup> 22	21 <sup>48</sup> 48	21 <sup>20</sup> 20	17 <sup>28</sup> 28	T 7
F 8	9 13 47	19 <sup>29</sup> 25	5 <sup>21</sup> 21	7 <sup>29</sup> 29	18 <sup>58</sup> 58	18 <sup>56</sup> 56	28 <sup>46</sup> 46	5 <sup>7</sup> 7	7 <sup>42</sup> 42	7 <sup>15</sup> 15	6 <sup>5</sup> 5	20 <sup>18</sup> 18	21 <sup>45</sup> 45	21 <sup>27</sup> 27	17 <sup>32</sup> 32	F 8
S 9	9 17 44	20 <sup>30</sup> 14	20 <sup>7</sup> 7	8 <sup>8</sup> 8	20 <sup>13</sup> 13	19 <sup>41</sup> 41	28 <sup>58</sup> 58	5 <sup>13</sup> 13	7 <sup>45</sup> 45	7 <sup>17</sup> 17	6 <sup>4</sup> 4	20 <sup>14</sup> 14	21 <sup>42</sup> 42	21 <sup>34</sup> 34	17 <sup>35</sup> 35	S 9
S 10	9 21 40	21 <sup>31</sup> 03	5 <sup>12</sup> 12	8 <sup>38</sup> 38	21 <sup>28</sup> 28	20 <sup>26</sup> 26	29 <sup>11</sup> 11	5 <sup>18</sup> 18	7 <sup>49</sup> 49	7 <sup>19</sup> 19	6 <sup>4</sup> 4	20 <sup>10</sup> 10	21 <sup>39</sup> 39	21 <sup>40</sup> 40	17 <sup>39</sup> 39	S 10
M 11	9 25 37	22 <sup>31</sup> 50	20 <sup>27</sup> 27	8 <sup>58</sup> 58	22 <sup>43</sup> 43	21 <sup>11</sup> 11	29 <sup>24</sup> 24	5 <sup>24</sup> 24	7 <sup>52</sup> 52	7 <sup>22</sup> 22	6 <sup>3</sup> 3	20 <sup>6</sup> 6	21 <sup>36</sup> 36	21 <sup>47</sup> 47	17 <sup>42</sup> 42	M 11
T 12	9 29 33	23 <sup>32</sup> 36	5 <sup>41</sup> 41	9 <sup>7</sup> 7	23 <sup>59</sup> 59	21 <sup>56</sup> 56	29 <sup>38</sup> 38	5 <sup>30</sup> 30	7 <sup>56</sup> 56	7 <sup>24</sup> 24	6 <sup>2</sup> 2	20 <sup>4</sup> 4	21 <sup>32</sup> 32	21 <sup>54</sup> 54	17 <sup>46</sup> 46	T 12
W 13	9 33 30	24 <sup>33</sup> 20	20 <sup>46</sup> 46	9 <sup>6</sup> 6	25 <sup>14</sup> 14	22 <sup>41</sup> 41	29 <sup>51</sup> 51	5 <sup>35</sup> 35	7 <sup>59</sup> 59	7 <sup>26</sup> 26	6 <sup>1</sup> 1	20 <sup>D</sup> 4	21 <sup>29</sup> 29	22 <sup>0</sup> 0	17 <sup>49</sup> 49	W 13
T 14	9 37 27	25 <sup>34</sup> 03	5 <sup>31</sup> 31	8 <sup>54</sup> 54	26 <sup>29</sup> 29	23 <sup>26</sup> 26	0 <sup>4</sup> 4	5 <sup>40</sup> 40	8 <sup>2</sup> 2	7 <sup>28</sup> 28	6 <sup>1</sup> 1	20 <sup>4</sup> 4	21 <sup>26</sup> 26	22 <sup>7</sup> 7	17 <sup>53</sup> 53	T 14
F 15	9 41 23	26 <sup>34</sup> 44	19 <sup>53</sup> 53	8 <sup>31</sup> 31	27 <sup>45</sup> 45	24 <sup>12</sup> 12	0 <sup>17</sup> 17	5 <sup>46</sup> 46	8 <sup>6</sup> 6	7 <sup>30</sup> 30	6 <sup>0</sup> 0	20 <sup>5</sup> 5	21 <sup>23</sup> 23	22 <sup>14</sup> 14	17 <sup>57</sup> 57	F 15
S 16	9 45 20	27 <sup>35</sup> 24	3 <sup>48</sup> 48	7 <sup>58</sup> 58	29 <sup>0</sup> 0	24 <sup>57</sup> 57	0 <sup>31</sup> 31	5 <sup>51</sup> 51	8 <sup>9</sup> 9	7 <sup>33</sup> 33	5 <sup>59</sup> 59	20 <sup>7</sup> 7	21 <sup>20</sup> 20	22 <sup>20</sup> 20	18 <sup>0</sup> 0	S 16
S 17	9 49 16	28 <sup>36</sup> 02	17 <sup>16</sup> 16	7 <sup>17</sup> 17	0 <sup>15</sup> 15	25 <sup>42</sup> 42	0 <sup>44</sup> 44	5 <sup>56</sup> 56	8 <sup>13</sup> 13	7 <sup>35</sup> 35	5 <sup>58</sup> 58	20 <sup>8</sup> 8	21 <sup>17</sup> 17	22 <sup>27</sup> 27	18 <sup>4</sup> 4	S 17
M 18	9 53 13	29 <sup>36</sup> 38	0 <sup>20</sup> 20	6 <sup>26</sup> 26	1 <sup>30</sup> 30	26 <sup>27</sup> 27	0 <sup>57</sup> 57	6 <sup>1</sup> 1	8 <sup>16</sup> 16	7 <sup>37</sup> 37	5 <sup>58</sup> 58	20 <sup>R</sup> 9	21 <sup>13</sup> 13	22 <sup>34</sup> 34	18 <sup>7</sup> 7	M 18
T 19	9 57 9	0 <sup>37</sup> 13	13 <sup>2</sup> 2	5 <sup>30</sup> 30	2 <sup>45</sup> 45	27 <sup>13</sup> 13	1 <sup>11</sup> 11	6 <sup>6</sup> 6	8 <sup>19</sup> 19	7 <sup>39</sup> 39	5 <sup>57</sup> 57	20 <sup>8</sup> 8	21 <sup>10</sup> 10	22 <sup>40</sup> 40	18 <sup>11</sup> 11	T 19
W 20	10 1 6	1 <sup>37</sup> 46	25 <sup>27</sup> 27	4 <sup>27</sup> 27	4 <sup>0</sup> 0	27 <sup>58</sup> 58	1 <sup>24</sup> 24	6 <sup>11</sup> 11	8 <sup>23</sup> 23	7 <sup>41</sup> 41	5 <sup>57</sup> 57	20 <sup>7</sup> 7	21 <sup>7</sup> 7	22 <sup>47</sup> 47	18 <sup>15</sup> 15	W 20
T 21	10 5 2	2 <sup>38</sup> 17	7 <sup>38</sup> 38	3 <sup>22</sup> 22	5 <sup>16</sup> 16	28 <sup>43</sup> 43	1 <sup>38</sup> 38	6 <sup>16</sup> 16	8 <sup>26</sup> 26	7 <sup>43</sup> 43	5 <sup>56</sup> 56	20 <sup>4</sup> 4	21 <sup>4</sup> 4	22 <sup>53</sup> 53	18 <sup>19</sup> 19	T 21
F 22	10 8 59	3 <sup>38</sup> 47	19 <sup>39</sup> 39	2 <sup>14</sup> 14	6 <sup>31</sup> 31	29 <sup>29</sup> 29	1 <sup>52</sup> 52	6 <sup>21</sup> 21	8 <sup>29</sup> 29	7 <sup>45</sup> 45	5 <sup>55</sup> 55	20 <sup>2</sup> 2	21 <sup>1</sup> 1	23 <sup>0</sup> 0	18 <sup>22</sup> 22	F 22
S 23	10 12 56	4 <sup>39</sup> 14	1 <sup>23</sup> 23	1 <sup>7</sup> 7	7 <sup>46</sup> 46	0 <sup>14</sup> 14	2 <sup>5</sup> 5	6 <sup>26</sup> 26	8 <sup>32</sup> 32	7 <sup>47</sup> 47	5 <sup>55</sup> 55	19 <sup>59</sup> 59	20 <sup>57</sup> 57	23 <sup>7</sup> 7	18 <sup>26</sup> 26	S 23
S 24	10 16 52	5 <sup>39</sup> 40	13 <sup>23</sup> 23	0 <sup>1</sup> 1	9 <sup>1</sup> 1	0 <sup>59</sup> 59	2 <sup>19</sup> 19	6 <sup>31</sup> 31	8 <sup>36</sup> 36	7 <sup>50</sup> 50	5 <sup>54</sup> 54	19 <sup>57</sup> 57	20 <sup>54</sup> 54	23 <sup>13</sup> 13	18 <sup>30</sup> 30	S 24
M 25	10 20 49	6 <sup>40</sup> 04	25 <sup>12</sup> 12	28 <sup>59</sup> 59	10 <sup>16</sup> 16	1 <sup>45</sup> 45	2 <sup>33</sup> 33	6 <sup>35</sup> 35	8 <sup>39</sup> 39	7 <sup>52</sup> 52	5 <sup>54</sup> 54	19 <sup>55</sup> 55	20 <sup>51</sup> 51	23 <sup>20</sup> 20	18 <sup>33</sup> 33	M 25
T 26	10 24 45	7 <sup>40</sup> 27	7 <sup>11</sup> 11	28 <sup>0</sup> 0	11 <sup>31</sup> 31	2 <sup>30</sup> 30	2 <sup>47</sup> 47	6 <sup>40</sup> 40	8 <sup>42</sup> 42	7 <sup>54</sup> 54	5 <sup>53</sup> 53	19 <sup>54</sup> 54	20 <sup>48</sup> 48	23 <sup>27</sup> 27	18 <sup>37</sup> 37	T 26
W 27	10 28 42	8 <sup>40</sup> 48	18 <sup>53</sup> 53	27 <sup>8</sup> 8	12 <sup>46</sup> 46	3 <sup>16</sup> 16	3 <sup>1</sup> 1	6 <sup>45</sup> 45	8 <sup>45</sup> 45	7 <sup>56</sup> 56	5 <sup>53</sup> 53	19 <sup>D</sup> 54	20 <sup>45</sup> 45	23 <sup>33</sup> 33	18 <sup>41</sup> 41	W 27
T 28	10 32 38	9 <sup>41</sup> 07	0 <sup>50</sup> 50	26 <sup>21</sup> 21	14 <sup>1</sup> 1	4 <sup>1</sup> 1	3 <sup>14</sup> 14	6 <sup>49</sup> 49	8 <sup>48</sup> 48	7 <sup>58</sup> 58	5 <sup>52</sup> 52	19 <sup>54</sup> 54	20 <sup>42</sup> 42	23 <sup>40</sup> 40	18 <sup>45</sup> 45	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	17s 4	0s24	1n13	12s13	0s38	18s44	1s 5	23s23	0s41	2s 7	1s 8	22s24	0n57	19s 0	0s35	18s19	0n12	18n27	4s49	3n48	3n 7	12n 2	0s58	4n28						
S 2	16 47	4 10	2 15	11 32	0 26	18 25	1 7	23 19	0 41	2 2	1 8	22 24	0 56	18 59	0 35	18 18	0 12	18 27	4 49	3 48	3 9	12 1	0 57	4 28						
S 3	16 29	7 49	3 12	10 52	0 14	18 5	1 8	23 15	0 42	1 57	1 8	22 24	0 56	18 58	0 35	18 18	0 12	18 28	4 49	3 47	3 10	11 59	0 56	4 27						
M 4	16 12	11 13	4 1	10 12	0 0	17 45	1 10	23 10	0 43	1 52	1 8	22 23	0 56	18 57	0 35	18 17	0 12	18 28	4 49	3 47	3 11	11 58	0 55	4 27						
T 5	15 53	14 10	4 40	9 34	0n14	17 24	1 11	23 5	0 43	1 47	1 8	22 23	0 56	18 56	0 35	18 17	0 12	18 28	4 49	3 47	3 12	11 57	0 53	4 27						
W 6	15 35	16 28	5 5	8 57	0 29	17 3	1 13	23 0	0 44	1 42	1 8	22 23	0 56	18 55	0 35	18 16	0 12	18 28	4 49	3 47	3 14	11 55	0 52	4 27						
T 7	15 16	17 54	5 13	8 22	0 44	16 41	1 14	22 55	0 44	1 37	1 7	22 23	0 56	18 54	0 35	18 15	0 12	18 28	4 49	3 49	3 15	11 54	0 51	4 27						
F 8	14 58	18 16	5 2	7 49	1 0	16 19	1 15	22 49	0 45	1 31	1 7	22 23	0 56	18 54	0 35	18 15	0 12	18 28	4 48	3 50	3 16	11 52	0 50	4 26						
S 9	14 38	17 26	4 32	7 19	1 17	15 56	1 16	22 44	0 46	1 26	1 7	22 22	0 56	18 53	0 35	18 14	0 12	18 29	4 48	3 52	3 17	11 51	0 49	4 26						
S 10	14 19	15 22	3 42	6 53	1 33	15 33	1 17	22 38	0 46	1 21	1 7	22 22	0 56	18 52	0 35	18 14	0 12	18 29	4 48	3 54	3 19	11 50	0 48	4 26						
M11	13 59	12 12	2 36	6 30	1 50	15 10	1 18	22 31	0 47	1 16	1 7	22 22	0 56	18 51	0 35	18 13	0 12	18 29	4 48	3 55	3 20	11 48	0 46	4 26						
T 12	13 40	8 12	1 18	6 11	2 6	14 46	1 19	22 25	0 48	1 10	1 7	22 22	0 56	18 50	0 35	18 13	0 12	18 29	4 48	3 56	3 21	11 47	0 45	4 26						
W13	13 19	3 43	0s 4	5 57	2 22	14 21	1 20	22 18	0 48	1 5	1 7	22 21	0 56	18 49	0 35	18 12	0 12	18 29	4 48	3 56	3 22	11 45	0 44	4 26						
T 14	12 59	0n54	1 24	5 47	2 38	13 57	1 21	22 11	0 49	1 0	1 7	22 21	0 56	18 48	0 35	18 12	0 12	18 29	4 48	3 56	3 24	11 44	0 43	4 25						
F 15	12 39	5 20	2 37	5 42	2 52	13 32	1 22	22 4	0 49	0 54	1 7	22 21	0 56	18 47	0 35	18 11	0 12	18 30	4 47	3 55	3 25	11 43	0 41	4 25						
S 16	12 18	9 20	3 38	5 42	3 5	13 6	1 23	21 56	0 50	0 49	1 7	22 21	0 56	18 47	0 35	18 10	0 12	18 30	4 47	3 55	3 26	11 41	0 40	4 25						
S 17	11 57	12 43	4 26	5 47	3 16	12 40	1 23	21 49	0 51	0 44	1 6	22 21	0 56	18 46	0 35	18 10	0 12	18 30	4 47	3 54	3 27	11 40	0 39	4 25						
M18	11 36	15 21	4 57	5 57	3 26	12 14	1 24	21 41	0 51	0 38	1 6	22 20	0 56	18 45	0 35	18 9	0 12	18 30	4 47	3 54	3 29	11 38	0 37	4 25						
T 19	11 15	17 9	5 13	6 10	3 34	11 48	1 24	21 33	0 52	0 33	1 6	22 20	0 56	18 44	0 35	18 9	0 12	18 30	4 47	3 54	3 30	11 37	0 36	4 25						
W20	10 53	18 6	5 15	6 28	3 39	11 21	1 25	21 24	0 52	0 27	1 6	22 20	0 56	18 43	0 35	18 8	0 12	18 30	4 47	3 55	3 31	11 36	0 35	4 25						
T 21	10 31	18 11	5 1	6 48	3 42	10 54	1 25	21 16	0 53	0 22	1 6	22 20	0 56	18 42	0 35	18 8	0 12	18 31	4 47	3 56	3 32	11 34	0 34	4 24						
F 22	10 10	17 27	4 35	7 12	3 43	10 26	1 26	21 7	0 54	0 16	1 6	22 19	0 56	18 41	0 35	18 7	0 12	18 31	4 46	3 57	3 34	11 33	0 32	4 24						
S 23	9 48	15 57	3 57	7 37	3 41	9 59	1 26	20 58	0 54	0 11	1 6	22 19	0 56	18 41	0 35	18 7	0 12	18 31	4 46	3 58	3 35	11 31	0 31	4 24						
S 24	9 26	13 46	3 9	8 3	3 38	9 31	1 26	20 49	0 55	0 5	1 6	22 19	0 56	18 40	0 35	18 6	0 12	18 31	4 46	3 59	3 36	11 30	0 30	4 24						
M25	9 3	11 1	2 13	8 30	3 32	9 3	1 26	20 39	0 55	0n 0	1 6	22 19	0 56	18 39	0 35	18 6	0 12	18 31	4 46	3 59	3 37	11 29	0 28	4 24						
T 26	8 41	7 50	1 11	8 57	3 25	8 34	1 27	20 29	0 56	0 6	1 6	22 18	0 56	18 38	0 35	18 5	0 12	18 31	4 46	4 0	3 39	11 27	0 27	4 24						
W27	8 18	4 18	0 6	9 24	3 15	8 6	1 27	20 20	0 57	0 11	1 6	22 18	0 57	18 37	0 35	18 5	0 12	18 32	4 46	4 0	3 40	11 26	0 25	4 24						
T 28	7s56	0n36	1n 0	9s49	3n 5	7s37	1s27	20s 9	0s57	0n17	1s 6	22s18	0n57	18s37	0s35	18s 4	0n12	18n32	4s46	4n 0	3n41	11n24	0s24	4n24						

ASTRODIENST EPHEMERIS for the year 2165  
geocentric

MARCH 2165

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 36 35	10♈41'24	12♌54	25°R41	15♋16	4♌47	3♈28	6♌53	8♌52	8♌ 0	5°R52	19♎54	20♎38	23♏47	18♋49	F 1
S 2	10 40 31	11°41'40	25° 7	25♌ 8	16°31	5°33	3°42	6°58	8°55	8° 2	5♌51	19°55	20°35	23°53	18°52	S 2
S 3	10 44 28	12°41'55	7♌33	24°43	17°46	6°18	3°56	7° 2	8°58	8° 4	5°51	19°56	20°32	24° 0	18°56	S 3
M 4	10 48 25	13°42'08	20°13	24°24	19° 1	7° 4	4°11	7° 6	9° 1	8° 6	5°51	19°57	20°29	24° 7	19° 0	M 4
T 5	10 52 21	14°42'19	3♌12	24°13	20°16	7°50	4°25	7°10	9° 4	8° 7	5°50	19°57	20°26	24°13	19° 4	T 5
W 6	10 56 18	15°42'30	16°31	24°D 8	21°31	8°35	4°39	7°14	9° 7	8° 9	5°50	19°R57	20°23	24°20	19° 8	W 6
T 7	11 0 14	16°42'38	0♌13	24°10	22°46	9°21	4°53	7°18	9°10	8°11	5°50	19°57	20°19	24°27	19°11	T 7
F 8	11 4 11	17°42'45	14°19	24°18	24° 1	10° 7	5° 7	7°22	9°13	8°13	5°49	19°57	20°16	24°33	19°15	F 8
S 9	11 8 7	18°42'51	28°47	24°32	25°16	10°53	5°21	7°25	9°16	8°15	5°49	19°57	20°13	24°40	19°19	S 9
S 10	11 12 4	19°42'55	13♌34	24°51	26°31	11°38	5°36	7°29	9°19	8°17	5°49	19°D57	20°10	24°47	19°23	S 10
M 11	11 16 0	20°42'57	28°34	25°16	27°45	12°24	5°50	7°33	9°21	8°19	5°49	19°57	20° 7	24°53	19°27	M 11
T 12	11 19 57	21°42'58	13♋39	25°46	29° 0	13°10	6° 4	7°36	9°24	8°20	5°48	19°R57	20° 3	25° 0	19°31	T 12
W 13	11 23 53	22°42'56	28°41	26°20	0♈15	13°56	6°19	7°40	9°27	8°22	5°48	19°57	20° 0	25° 7	19°34	W 13
T 14	11 27 50	23°42'53	13♈30	26°58	1°30	14°42	6°33	7°43	9°30	8°24	5°48	19°57	19°57	25°13	19°38	T 14
F 15	11 31 47	24°42'47	28° 0	27°40	2°45	15°28	6°47	7°46	9°33	8°26	5°48	19°56	19°54	25°20	19°42	F 15
S 16	11 35 43	25°42'40	12♌ 6	28°26	3°59	16°14	7° 2	7°49	9°35	8°27	5°48	19°56	19°51	25°27	19°46	S 16
S 17	11 39 40	26°42'30	25°44	29°16	5°14	16°59	7°16	7°52	9°38	8°29	5°48	19°55	19°48	25°33	19°50	S 17
M 18	11 43 36	27°42'18	8♌57	0♋ 9	6°29	17°45	7°30	7°55	9°41	8°31	5°48	19°54	19°44	25°40	19°53	M 18
T 19	11 47 33	28°42'04	21°45	1° 5	7°44	18°31	7°45	7°58	9°43	8°32	5°48	19°54	19°41	25°47	19°57	T 19
W 20	11 51 29	29°41'48	4♌12	2° 3	8°58	19°17	7°59	8° 1	9°46	8°34	5°D48	19°D54	19°38	25°53	20° 1	W 20
T 21	11 55 26	0♈41'30	16°22	3° 5	10°13	20° 3	8°14	8° 3	9°48	8°36	5°48	19°54	19°35	26° 0	20° 5	T 21
F 22	11 59 22	1°41'09	28°21	4° 8	11°27	20°49	8°28	8° 6	9°51	8°37	5°48	19°55	19°32	26° 7	20° 8	F 22
S 23	12 3 19	2°40'46	10♏12	5°15	12°42	21°35	8°43	8° 9	9°53	8°39	5°48	19°56	19°28	26°13	20°12	S 23
S 24	12 7 16	3°40'21	21°59	6°23	13°57	22°21	8°57	8°11	9°56	8°40	5°48	19°58	19°25	26°20	20°16	S 24
M 25	12 11 12	4°39'53	3♌48	7°34	15°11	23° 7	9°12	8°13	9°58	8°42	5°48	19°59	19°22	26°27	20°20	M 25
T 26	12 15 9	5°39'24	15°40	8°47	16°26	23°53	9°26	8°15	10° 0	8°43	5°48	19°R59	19°19	26°33	20°23	T 26
W 27	12 19 5	6°38'52	27°39	10° 1	17°40	24°39	9°41	8°18	10° 3	8°44	5°48	19°59	19°16	26°40	20°27	W 27
T 28	12 23 2	7°38'18	9♌46	11°18	18°54	25°26	9°55	8°20	10° 5	8°46	5°49	19°58	19°13	26°47	20°31	T 28
F 29	12 26 58	8°37'42	22° 4	12°37	20° 9	26°12	10°10	8°21	10° 7	8°47	5°49	19°56	19° 9	26°53	20°34	F 29
S 30	12 30 55	9°37'05	4♌33	13°57	21°23	26°58	10°34	8°23	10° 9	8°49	5°49	19°54	19° 6	27° 0	20°38	S 30
S 31	12 34 51	10♈36'25	17♌15	15♋19	22°♈38	27°44	10♈39	8♌25	10°12	8°50	5♌49	19♎50	19♎ 3	27♏ 6	20♋42	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	7s33	3s11	2n 4	10s13	2n53	7s 8	1s27	19s59	0s58	0n23	1s 6	22s18	0n57	18s36	0s35	18s 4	0n12	18n32	4s45	4n 0	3n42	11n23	0s23	4n24	
S 2	7 10	6 52	3 4	10 36	2 41	6 38	1 26	19 49	0 58	0 28	1 6	22 17	0 57	18 35	0 35	18 3	0 12	18 32	4 45	3 59	3 44	11 21	0 21	4 24	
S 3	6 47	10 18	3 55	10 57	2 28	6 9	1 26	19 38	0 59	0 34	1 5	22 17	0 57	18 34	0 35	18 3	0 12	18 32	4 45	3 59	3 45	11 20	0 20	4 23	
M 4	6 24	13 20	4 36	11 15	2 15	5 39	1 26	19 27	1 0	0 39	1 5	22 17	0 57	18 33	0 35	18 2	0 12	18 33	4 45	3 59	3 46	11 19	0 19	4 23	
T 5	6 1	15 47	5 5	11 32	2 1	5 10	1 26	19 16	1 0	0 45	1 5	22 17	0 57	18 33	0 35	18 2	0 12	18 33	4 45	3 59	3 47	11 17	0 17	4 23	
W 6	5 38	17 28	5 17	11 47	1 47	4 40	1 25	19 4	1 1	0 51	1 5	22 17	0 57	18 32	0 36	18 1	0 12	18 33	4 45	3 58	3 49	11 16	0 16	4 23	
T 7	5 14	18 12	5 13	11 59	1 33	4 10	1 25	18 53	1 1	0 56	1 5	22 16	0 57	18 31	0 36	18 1	0 12	18 33	4 44	3 59	3 50	11 14	0 14	4 23	
F 8	4 51	17 51	4 50	12 10	1 19	3 40	1 24	18 41	1 2	1 2	1 5	22 16	0 57	18 30	0 36	18 0	0 12	18 33	4 44	3 59	3 51	11 13	0 13	4 23	
S 9	4 28	16 20	4 8	12 18	1 6	3 10	1 24	18 29	1 2	1 8	1 5	22 16	0 57	18 30	0 36	18 0	0 12	18 33	4 44	3 59	3 52	11 11	0 11	4 23	
S 10	4 4	13 43	3 9	12 24	0 52	2 39	1 23	18 17	1 3	1 13	1 5	22 16	0 57	18 29	0 36	17 59	0 12	18 34	4 44	3 59	3 54	11 10	0 10	4 23	
M11	3 41	10 9	1 56	12 28	0 39	2 9	1 22	18 5	1 4	1 19	1 5	22 15	0 57	18 28	0 36	17 59	0 12	18 34	4 44	3 59	3 55	11 8	0 9	4 23	
T 12	3 17	5 53	0 35	12 30	0 27	1 38	1 21	17 52	1 4	1 25	1 5	22 15	0 57	18 27	0 36	17 58	0 12	18 34	4 44	3 59	3 56	11 7	0 7	4 23	
W13	2 53	1 16	0s48	12 30	0 14	1 8	1 20	17 40	1 5	1 30	1 5	22 15	0 57	18 27	0 36	17 58	0 12	18 34	4 44	3 59	3 57	11 6	0 6	4 23	
T 14	2 30	3n22	2 7	12 28	0 2	0 37	1 20	17 27	1 5	1 36	1 5	22 15	0 57	18 26	0 36	17 57	0 12	18 34	4 43	3 59	3 59	11 4	0 4	4 23	
F 15	2 6	7 42	3 16	12 25	0s 9	0 7	1 19	17 14	1 6	1 42	1 5	22 15	0 57	18 25	0 36	17 57	0 12	18 34	4 43	3 59	4 0	11 3	0 3	4 23	
S 16	1 42	11 28	4 11	12 19	0 20	0n24	1 18	17 1	1 6	1 48	1 5	22 14	0 57	18 24	0 36	17 57	0 12	18 35	4 43	3 59	4 1	11 1	0 1	4 23	
S 17	1 18	14 28	4 50	12 12	0 31	0 54	1 17	16 47	1 7	1 53	1 5	22 14	0 57	18 24	0 36	17 56	0 12	18 35	4 43	3 59	4 2	11 0	0n 0	4 23	
M18	0 55	16 38	5 12	12 3	0 41	1 25	1 15	16 34	1 7	1 59	1 5	22 14	0 57	18 23	0 36	17 56	0 12	18 35	4 43	4 0	4 4	10 58	0 2	4 23	
T 19	0 31	17 53	5 18	11 53	0 51	1 56	1 14	16 20	1 8	2 5	1 5	22 14	0 57	18 22	0 36	17 55	0 12	18 35	4 43	4 0	4 5	10 57	0 3	4 23	
W20	0 7	18 13	5 8	11 40	1 0	2 26	1 13	16 6	1 8	2 10	1 5	22 14	0 57	18 22	0 36	17 55	0 12	18 35	4 42	4 0	4 6	10 55	0 4	4 23	
T 21	0n16	17 42	4 45	11 27	1 9	2 57	1 12	15 52	1 9	2 16	1 5	22 13	0 57	18 21	0 36	17 54	0 12	18 35	4 42	4 0	4 7	10 54	0 6	4 23	
F 22	0 40	16 24	4 9	11 11	1 18	3 27	1 10	15 38	1 9	2 22	1 5	22 13	0 57	18 20	0 36	17 54	0 12	18 36	4 42	3 59	4 9	10 52	0 7	4 23	
S 23	1 4	14 24	3 23	10 54	1 26	3 57	1 9	15 24	1 10	2 28	1 5	22 13	0 57	18 20	0 36	17 54	0 12	18 36	4 42	3 59	4 10	10 51	0 9	4 23	
S 24	1 28	11 49	2 29	10 36	1 33	4 28	1 7	15 9	1 10	2 33	1 5	22 13	0 57	18 19	0 36	17 53	0 12	18 36	4 42	3 58	4 11	10 49	0 10	4 22	
M25	1 51	8 44	1 29	10 16	1 40	4 58	1 6	14 55	1 11	2 39	1 5	22 13	0 57	18 19	0 36	17 53	0 12	18 36	4 42	3 58	4 12	10 48	0 12	4 22	
T 26	2 15	5 17	0 24	9 55	1 46	5 28	1 4	14 40	1 11	2 45	1 5	22 13	0 57	18 18	0 36	17 53	0 12	18 36	4 41	3 58	4 14	10 46	0 13	4 22	
W27	2 38	1 35	0n42	9 32	1 52	5 58	1 2	14 25	1 12	2 50	1 5	22 12	0 57	18 17	0 36	17 52	0 12	18 36	4 41	3 58	4 15	10 45	0 15	4 23	
T 28	3 2	2s13	1 47	9 8	1 58	6 28	1 1	14 10	1 12	2 56	1 5	22 12	0 57	18 17	0 36	17 52	0 12	18 36	4 41	3 58	4 16	10 44	0 16	4 23	
F 29	3 25	5 59	2 48	8 43	2 3	6 57	0 59	13 55	1 13	3 2	1 5	22 12	0 57	18 16	0 36	17 51	0 12	18 37	4 41	3 59	4 17	10 42	0 18	4 23	
S 30	3 48	9 32	3 42	8 16	2 8	7 27	0 57	13 40	1 13	3 7	1 5	22 12	0 57	18 16	0 36	17 51	0 12	18 37	4 41	4 0	4 18	10 41	0 19	4 23	
S 31	4n12	12s43	4n26	7s49	2s12	7n56	0s55	13s24	1s14	3n13	1s 5	22s12	0n57	18s15	0s36	17s51	0n12	18n37	4s41	4n 1	4n20	10n39	0n20	4n23	

# ASTRODIENST EPHEMERIS for the year 2165

## geocentric

APRIL 2165

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 38 48	11°35'44	0°10'10	16°43'43	23°52'52	28°30'30	10°53'53	8°27'27	10°14'14	8°51'51	5°50'50	19°R47	19°00'00	27°13'13	20°45'45	M 1
T 2	12 42 45	12°35'00	13°20'20	18°08'08	25°06'06	29°16'16	11°08'08	8°28'28	10°16'16	8°52'52	5°50'50	19°M44	18°57'57	27°20'20	20°49'49	T 2
W 3	12 46 41	13°34'15	26°45'45	19°35'35	26°21'21	0°42'42	11°22'22	8°30'30	10°18'18	8°54'54	5°50'50	19°42'42	18°54'54	27°26'26	20°53'53	W 3
T 4	12 50 38	14°33'29	10°25'25	21°03'03	27°35'35	0°48'48	11°37'37	8°31'31	10°20'20	8°55'55	5°51'51	19°D41	18°50'50	27°33'33	20°56'56	T 4
F 5	12 54 34	15°32'40	24°22'22	22°34'34	28°49'49	1°34'34	11°51'51	8°32'32	10°22'22	8°56'56	5°51'51	19°42'42	18°47'47	27°40'40	21°00'00	F 5
S 6	12 58 31	16°31'50	8°33'33	24°05'05	0°08'08	2°21'21	12°06'06	8°33'33	10°24'24	8°57'57	5°51'51	19°43'43	18°44'44	27°46'46	21°03'03	S 6
S 7	13 2 27	17°30'58	22°59'59	25°38'38	1°18'18	3°07'07	12°20'20	8°35'35	10°25'25	8°58'58	5°52'52	19°44'44	18°41'41	27°53'53	21°07'07	S 7
M 8	13 6 24	18°30'04	7°35'35	27°13'13	2°32'32	3°53'53	12°35'35	8°35'35	10°27'27	8°59'59	5°52'52	19°45'45	18°38'38	28°00'00	21°10'10	M 8
T 9	13 10 20	19°29'09	22°17'17	28°49'49	3°46'46	4°39'39	12°49'49	8°36'36	10°29'29	9°00'00	5°53'53	19°R46	18°34'34	28°06'06	21°14'14	T 9
W10	13 14 17	20°28'11	7°00'00	0°27'27	5°00'00	5°25'25	13°04'04	8°37'37	10°31'31	9°02'02	5°53'53	19°45'45	18°31'31	28°13'13	21°17'17	W10
T 11	13 18 13	21°27'12	21°36'36	2°06'06	6°14'14	6°11'11	13°18'18	8°38'38	10°32'32	9°02'02	5°54'54	19°42'42	18°28'28	28°20'20	21°20'20	T 11
F 12	13 22 10	22°26'11	5°08'08	3°46'46	7°28'28	6°58'58	13°33'33	8°38'38	10°34'34	9°03'03	5°54'54	19°38'38	18°25'25	28°26'26	21°24'24	F 12
S 13	13 26 7	23°25'07	20°02'02	5°29'29	8°42'42	7°44'44	13°47'47	8°39'39	10°36'36	9°04'04	5°55'55	19°33'33	18°22'22	28°33'33	21°27'27	S 13
S 14	13 30 3	24°24'02	3°43'43	7°12'12	9°56'56	8°30'30	14°01'01	8°39'39	10°37'37	9°05'05	5°55'55	19°27'27	18°19'19	28°40'40	21°31'31	S 14
M15	13 34 0	25°22'54	16°59'59	8°57'57	11°10'10	9°16'16	14°16'16	8°39'39	10°39'39	9°06'06	5°56'56	19°22'22	18°15'15	28°46'46	21°34'34	M15
T 16	13 37 56	26°21'44	29°52'52	10°44'44	12°24'24	10°02'02	14°30'30	8°40'40	10°40'40	9°07'07	5°56'56	19°18'18	18°12'12	28°53'53	21°37'37	T 16
W17	13 41 53	27°20'32	12°22'22	12°32'32	13°38'38	10°48'48	14°45'45	8°R40	10°42'42	9°08'08	5°57'57	19°15'15	18°09'09	29°00'00	21°40'40	W17
T 18	13 45 49	28°19'17	24°35'35	14°22'22	14°52'52	11°34'34	14°59'59	8°40'40	10°43'43	9°09'09	5°58'58	19°D14	18°06'06	29°06'06	21°44'44	T 18
F 19	13 49 46	29°18'01	6°03'03	16°14'14	16°06'06	12°21'21	15°13'13	8°39'39	10°44'44	9°09'09	5°58'58	19°14'14	18°03'03	29°13'13	21°47'47	F 19
S 20	13 53 42	0°08'16	18°25'25	18°06'06	17°20'20	13°07'07	15°27'27	8°39'39	10°46'46	9°10'10	5°59'59	19°15'15	18°00'00	29°20'20	21°50'50	S 20
S 21	13 57 39	1°15'21	0°13'13	20°01'01	18°34'34	13°53'53	15°42'42	8°39'39	10°47'47	9°11'11	6°00'00	19°17'17	17°56'56	29°26'26	21°53'53	S 21
M22	14 1 36	2°13'58	12°03'03	21°57'57	19°47'47	14°39'39	15°56'56	8°38'38	10°48'48	9°11'11	6°00'00	19°18'18	17°53'53	29°33'33	21°56'56	M22
T 23	14 5 32	3°12'32	23°59'59	23°55'55	21°01'01	15°25'25	16°10'10	8°38'38	10°49'49	9°12'12	6°01'01	19°R18	17°50'50	29°40'40	21°59'59	T 23
W24	14 9 29	4°11'05	6°05'05	25°54'54	22°15'15	16°11'11	16°24'24	8°37'37	10°50'50	9°13'13	6°02'02	19°17'17	17°47'47	29°46'46	22°02'02	W24
T 25	14 13 25	5°09'35	18°23'23	27°54'54	23°29'29	16°57'57	16°38'38	8°37'37	10°51'51	9°13'13	6°03'03	19°13'13	17°44'44	29°53'53	22°05'05	T 25
F 26	14 17 22	6°08'04	0°05'57	29°56'56	24°42'42	17°43'43	16°52'52	8°36'36	10°52'52	9°14'14	6°04'04	19°08'08	17°40'40	29°59'59	22°08'08	F 26
S 27	14 21 18	7°06'30	13°45'45	2°00'00	25°56'56	18°29'29	17°07'07	8°35'35	10°53'53	9°14'14	6°04'04	19°00'00	17°37'37	0°06'06	22°11'11	S 27
S 28	14 25 15	8°04'55	26°49'49	4°04'04	27°09'09	19°15'15	17°21'21	8°34'34	10°54'54	9°15'15	6°05'05	18°52'52	17°34'34	0°13'13	22°14'14	S 28
M29	14 29 11	9°03'18	10°07'07	6°10'10	28°23'23	20°01'01	17°35'35	8°33'33	10°55'55	9°15'15	6°06'06	18°43'43	17°31'31	0°19'19	22°17'17	M29
T 30	14 33 8	10°08'14	23°07'38	8°08'17	29°03'36	20°47'47	17°49'49	8°32'32	10°56'56	9°15'15	6°06'06	18°36'36	17°28'28	0°26'26	22°20'20	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
M 1	4n35	15s20	4n57	7s19	2s16	8n25	0s54	13s 9	1s14	3n19	1s 5	22s12	0n57	18s15	0s36	17s50	0n12	18n37	4s40	4n 2	4n21	10n38	0n22	4n23	
T 2	4 58	17 12	5 13	6 49	2 19	8 54	0 52	12 53	1 15	3 25	1 5	22 12	0 57	18 14	0 36	17 50	0 12	18 37	4 40	4 4	4 22	10 36	0 23	4 23	
W 3	5 21	18 10	5 13	6 17	2 22	9 23	0 50	12 37	1 15	3 30	1 5	22 12	0 57	18 14	0 36	17 50	0 12	18 37	4 40	4 4	4 23	10 35	0 25	4 23	
T 4	5 44	18 7	4 55	5 45	2 24	9 52	0 48	12 21	1 16	3 36	1 5	22 11	0 57	18 13	0 36	17 49	0 12	18 37	4 40	4 5	4 25	10 33	0 26	4 23	
F 5	6 7	16 58	4 19	5 11	2 26	10 20	0 46	12 5	1 16	3 41	1 5	22 11	0 57	18 13	0 36	17 49	0 12	18 38	4 40	4 5	4 26	10 32	0 28	4 23	
S 6	6 30	14 46	3 28	4 36	2 27	10 48	0 43	11 49	1 16	3 47	1 5	22 11	0 57	18 12	0 36	17 49	0 12	18 38	4 40	4 4	4 27	10 30	0 29	4 23	
S 7	6 52	11 36	2 22	3 59	2 28	11 16	0 41	11 33	1 17	3 53	1 5	22 11	0 57	18 12	0 36	17 49	0 12	18 38	4 39	4 4	4 28	10 29	0 30	4 23	
M 8	7 15	7 41	1 6	3 22	2 28	11 44	0 39	11 17	1 17	3 58	1 5	22 11	0 57	18 11	0 36	17 48	0 12	18 38	4 39	4 3	4 30	10 27	0 32	4 23	
T 9	7 37	3 16	0s14	2 44	2 28	12 11	0 37	11 0	1 18	4 4	1 5	22 11	0 57	18 11	0 36	17 48	0 12	18 38	4 39	4 3	4 31	10 26	0 33	4 23	
W10	7 59	1n21	1 33	2 4	2 27	12 38	0 35	10 43	1 18	4 10	1 5	22 11	0 57	18 10	0 37	17 48	0 12	18 38	4 39	4 3	4 32	10 24	0 35	4 23	
T 11	8 21	5 51	2 46	1 24	2 26	13 5	0 32	10 27	1 18	4 15	1 5	22 11	0 57	18 10	0 37	17 47	0 12	18 38	4 39	4 4	4 33	10 23	0 36	4 23	
F 12	8 43	9 56	3 46	0 42	2 24	13 31	0 30	10 10	1 19	4 21	1 5	22 11	0 57	18 9	0 37	17 47	0 12	18 39	4 39	4 6	4 35	10 21	0 37	4 23	
S 13	9 5	13 22	4 32	0 0	2 22	13 57	0 28	9 53	1 19	4 26	1 5	22 11	0 57	18 9	0 37	17 47	0 12	18 39	4 39	4 8	4 36	10 20	0 39	4 23	
S 14	9 27	15 57	5 0	0n43	2 19	14 23	0 25	9 36	1 20	4 32	1 5	22 11	0 57	18 9	0 37	17 47	0 12	18 39	4 38	4 10	4 37	10 18	0 40	4 23	
M15	9 48	17 37	5 12	1 28	2 16	14 48	0 23	9 19	1 20	4 37	1 5	22 11	0 57	18 8	0 37	17 47	0 12	18 39	4 38	4 12	4 38	10 17	0 42	4 23	
T 16	10 10	18 18	5 7	2 13	2 13	15 13	0 21	9 2	1 20	4 43	1 5	22 11	0 57	18 8	0 37	17 46	0 12	18 39	4 38	4 14	4 40	10 15	0 43	4 23	
W17	10 31	18 5	4 47	2 59	2 8	15 38	0 18	8 45	1 21	4 48	1 5	22 11	0 57	18 8	0 37	17 46	0 12	18 39	4 38	4 15	4 41	10 14	0 44	4 23	
T 18	10 52	17 0	4 15	3 46	2 4	16 2	0 16	8 28	1 21	4 54	1 5	22 11	0 57	18 7	0 37	17 46	0 12	18 39	4 38	4 16	4 42	10 12	0 46	4 24	
F 19	11 13	15 12	3 32	4 33	1 58	16 26	0 13	8 11	1 21	4 59	1 5	22 11	0 58	18 7	0 37	17 46	0 12	18 39	4 38	4 15	4 43	10 10	0 47	4 24	
S 20	11 33	12 45	2 40	5 21	1 53	16 49	0 11	7 53	1 22	5 5	1 5	22 11	0 58	18 7	0 37	17 46	0 12	18 40	4 37	4 15	4 45	10 9	0 48	4 24	
S 21	11 54	9 48	1 42	6 10	1 47	17 12	0 8	7 36	1 22	5 10	1 5	22 11	0 58	18 6	0 37	17 45	0 12	18 40	4 37	4 14	4 46	10 7	0 50	4 24	
M22	12 14	6 26	0 39	7 0	1 40	17 35	0 6	7 18	1 22	5 16	1 5	22 11	0 58	18 6	0 37	17 45	0 12	18 40	4 37	4 14	4 47	10 6	0 51	4 24	
T 23	12 34	2 47	0n25	7 50	1 33	17 57	0 3	7 1	1 23	5 21	1 5	22 11	0 58	18 6	0 37	17 45	0 12	18 40	4 37	4 14	4 48	10 4	0 52	4 24	
W24	12 54	1s 2	1 30	8 40	1 25	18 18	0 0	6 43	1 23	5 26	1 5	22 11	0 58	18 5	0 37	17 45	0 12	18 40	4 37	4 14	4 50	10 3	0 54	4 24	
T 25	13 14	4 53	2 31	9 31	1 17	18 39	0n 2	6 26	1 23	5 32	1 5	22 11	0 58	18 5	0 37	17 45	0 12	18 40	4 37	4 16	4 51	10 1	0 55	4 24	
F 26	13 33	8 34	3 26	10 22	1 9	19 0	0 5	6 8	1 24	5 37	1 5	22 11	0 58	18 5	0 37	17 45	0 12	18 40	4 37	4 18	4 52	10 0	0 56	4 24	
S 27	13 52	11 57	4 11	11 13	1 0	19 20	0 7	5 50	1 24	5 42	1 5	22 11	0 58	18 5	0 37	17 45	0 12	18 40	4 36	4 21	4 53	9 58	0 57	4 24	
S 28	14 11	14 48	4 45	12 4	0 50	19 40	0 10	5 32	1 24	5 48	1 5	22 11	0 58	18 5	0 37	17 44	0 12	18 41	4 36	4 24	4 54	9 57	0 59	4 25	
M29	14 30	16 56	5 4	12 55	0 41	19 59	0 13	5 14	1 24	5 53	1 5	22 11	0 58	18 4	0 37	17 44	0 12	18 41	4 36	4 27	4 56	9 55	1 0	4 25	
T 30	14n49	18s10	5n 6	13n46	0s31	20n18	0n15	4s57	1s25	5n58	1s 6	22s11	0n58	18s 4	0s37	17s44	0n12	18n41	4s36	4n30	4n57	9n54	1n 1	4n25	

## ASTRODIENST EPHEMERIS for the year 2165

geocentric

MAY 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 37 5	11°00'00	7°19'19	10°25'25	0°11'50	21°33'33	18°17'2	8°R30	10°55'56	9°16'16	6°8'8	18°R29	17°17'25	0°11'33	22°11'23	W 1
T 2	14 41 1	11°58'18	21°10'10	12°34'34	2°3'3	22°19'19	18°16'16	8°32'29	10°57'57	9°16'16	6°9'9	18°17'25	17°21'21	0°39'39	22°26'26	T 2
F 3	14 44 58	12°56'35	5°8'8	14°43'43	3°17'17	23°5'5	18°30'30	8°27'27	10°58'58	9°16'16	6°10'10	18°23'23	17°18'18	0°46'46	22°28'28	F 3
S 4	14 48 54	13°54'50	19°13'13	16°53'53	4°30'30	23°51'51	18°44'44	8°26'26	10°58'58	9°17'17	6°11'11	18°D23	17°15'15	0°53'53	22°31'31	S 4
S 5	14 52 51	14°53'04	3°12'24	19°2'2	5°44'44	24°37'37	18°58'58	8°24'24	10°59'59	9°17'17	6°12'12	18°24'24	17°12'12	0°59'59	22°34'34	S 5
M 6	14 56 47	15°51'17	17°39'39	21°11'11	6°57'57	25°23'23	19°11'11	8°22'22	10°59'59	9°17'17	6°13'13	18°R24	17°9'9	1°6'6	22°36'36	M 6
T 7	15 0 44	16°49'28	1°17'57	23°20'20	8°10'10	26°9'9	19°25'25	8°21'21	11°0'0	9°17'17	6°14'14	18°24'24	17°5'5	1°13'13	22°39'39	T 7
W 8	15 4 40	17°47'37	16°13'13	25°28'28	9°24'24	26°55'55	19°39'39	8°19'19	11°0'0	9°17'17	6°15'15	18°21'21	17°2'2	1°19'19	22°41'41	W 8
T 9	15 8 37	18°45'45	0°18'25	27°35'35	10°37'37	27°41'41	19°52'52	8°17'17	11°0'0	9°17'17	6°16'16	18°15'15	16°59'59	1°26'26	22°44'44	T 9
F 10	15 12 34	19°43'51	14°28'28	29°40'40	11°50'50	28°27'27	20°6'6	8°15'15	11°1'1	9°17'17	6°17'17	18°8'8	16°56'56	1°33'33	22°46'46	F 10
S 11	15 16 30	20°41'56	28°16'16	1°11'44	13°3'3	29°13'13	20°19'19	8°12'12	11°1'1	9°17'17	6°18'18	17°58'58	16°53'53	1°39'39	22°49'49	S 11
S 12	15 20 27	21°40'00	11°11'47	3°46'46	14°16'16	29°58'58	20°33'33	8°10'10	11°1'1	9°17'17	6°19'19	17°47'47	16°50'50	1°46'46	22°51'51	S 12
M13	15 24 23	22°38'01	24°57'57	5°46'46	15°30'30	0°11'44	20°46'46	8°8'8	11°1'1	9°17'17	6°20'20	17°37'37	16°46'46	1°53'53	22°53'53	M13
T 14	15 28 20	23°36'01	7°17'57	7°43'43	16°43'43	1°30'30	21°0'0	8°5'5	11°1'1	9°17'17	6°21'21	17°28'28	16°43'43	1°59'59	22°56'56	T 14
W15	15 32 16	24°33'59	20°17'17	9°38'38	17°56'56	2°16'16	21°13'13	8°3'3	11°R 1	9°17'17	6°22'22	17°20'20	16°40'40	2°6'6	22°58'58	W15
T 16	15 36 13	25°31'55	2°12'30	11°29'29	19°9'9	3°1'1	21°26'26	8°0'0	11°1'1	9°17'17	6°23'23	17°16'16	16°37'37	2°12'12	23°0'0	T 16
F 17	15 40 9	26°29'50	14°30'30	13°18'18	20°22'22	3°47'47	21°39'39	7°57'57	11°1'1	9°17'17	6°25'25	17°13'13	16°34'34	2°19'19	23°2'2	F 17
S 18	15 44 6	27°27'43	26°21'21	15°4'4	21°35'35	4°33'33	21°52'52	7°55'55	11°1'1	9°17'17	6°26'26	17°D12	16°31'31	2°26'26	23°4'4	S 18
S 19	15 48 3	28°25'34	8°17'10	16°47'47	22°48'48	5°18'18	22°5'5	7°52'52	11°1'1	9°16'16	6°27'27	17°13'13	16°27'27	2°32'32	23°6'6	S 19
M20	15 51 59	29°23'23	20°0'0	18°27'27	24°0'0	6°4'4	22°18'18	7°49'49	11°1'1	9°16'16	6°28'28	17°R13	16°24'24	2°39'39	23°8'8	M20
T 21	15 55 56	0°11'21	1°11'59	20°3'3	25°13'13	6°49'49	22°31'31	7°46'46	11°1'1	9°16'16	6°29'29	17°12'12	16°21'21	2°46'46	23°10'10	T 21
W22	15 59 52	1°18'56	14°10'10	21°36'36	26°26'26	7°35'35	22°44'44	7°43'43	11°0'0	9°16'16	6°31'31	17°9'9	16°18'18	2°52'52	23°12'12	W22
T 23	16 3 49	2°16'41	26°37'37	23°6'6	27°39'39	8°20'20	22°57'57	7°40'40	11°0'0	9°15'15	6°32'32	17°4'4	16°15'15	2°59'59	23°14'14	T 23
F 24	16 7 45	3°14'24	9°11'24	24°32'32	28°52'52	9°6'6	23°10'10	7°37'37	11°0'0	9°15'15	6°33'33	16°56'56	16°11'11	3°6'6	23°16'16	F 24
S 25	16 11 42	4°12'05	22°30'30	25°55'55	0°54'54	9°51'51	23°22'22	7°33'33	10°59'59	9°14'14	6°34'34	16°46'46	16°8'8	3°12'12	23°17'17	S 25
S 26	16 15 38	5°9'45	5°17'56	27°14'14	1°17'17	10°36'36	23°35'35	7°30'30	10°59'59	9°14'14	6°36'36	16°34'34	16°5'5	3°19'19	23°19'19	S 26
M27	16 19 35	6°7'24	19°38'38	28°29'29	2°29'29	11°22'22	23°47'47	7°27'27	10°58'58	9°13'13	6°37'37	16°22'22	16°2'2	3°26'26	23°21'21	M27
T 28	16 23 32	7°5'02	3°17'35	29°41'41	3°42'42	12°7'7	24°0'0	7°23'23	10°57'57	9°13'13	6°38'38	16°11'11	15°59'59	3°32'32	23°22'22	T 28
W29	16 27 28	8°2'39	17°40'40	0°50'50	4°55'55	12°52'52	24°12'12	7°20'20	10°57'57	9°12'12	6°40'40	16°2'2	15°56'56	3°39'39	23°24'24	W29
T 30	16 31 25	9°0'14	1°11'51	1°54'54	6°7'7	13°37'37	24°24'24	7°16'16	10°56'56	9°12'12	6°41'41	15°56'56	15°52'52	3°46'46	23°25'25	T 30
F 31	16 35 21	9°11'57	16°11'49	2°55'55	7°19'19	14°11'22	24°11'37	7°12'12	10°55'55	9°11'11	6°42'42	15°11'52	15°11'49	3°11'52	23°11'27	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	15n 7	18s23	4n51	14n36	0s21	20n36	0n18	4s39	1s25	6n 4	1s 6	22s11	0n58	18s 4	0s37	17s44
T 2	15 25	17 30	4 19	15 26	0 10	20 53	0 20	4 21	1 25	6 9	1 6	22 11	0 58	18 4	0 37	17 44
F 3	15 42	15 33	3 31	16 14	0n 0	21 10	0 23	4 3	1 25	6 14	1 6	22 11	0 58	18 4	0 37	17 44
S 4	16 0	12 40	2 30	17 2	0 11	21 26	0 26	3 45	1 26	6 19	1 6	22 11	0 58	18 4	0 37	17 44
S 5	16 17	9 1	1 20	17 48	0 21	21 42	0 28	3 27	1 26	6 24	1 6	22 11	0 58	18 3	0 37	17 44
M 6	16 34	4 49	0 4	18 33	0 32	21 57	0 31	3 9	1 26	6 29	1 6	22 11	0 58	18 3	0 37	17 44
T 7	16 51	0 20	1s12	19 16	0 42	22 12	0 33	2 51	1 26	6 34	1 6	22 12	0 58	18 3	0 38	17 44
W 8	17 7	4n10	2 23	19 58	0 53	22 26	0 36	2 33	1 26	6 40	1 6	22 12	0 58	18 3	0 38	17 44
T 9	17 23	8 24	3 25	20 37	1 3	22 39	0 38	2 15	1 27	6 45	1 6	22 12	0 58	18 3	0 38	17 44
F 10	17 39	12 7	4 14	21 14	1 12	22 52	0 41	1 57	1 27	6 50	1 6	22 12	0 58	18 3	0 38	17 44
S 11	17 55	15 6	4 46	21 49	1 21	23 4	0 43	1 38	1 27	6 55	1 6	22 12	0 58	18 3	0 38	17 44
S 12	18 10	17 11	5 2	22 21	1 30	23 15	0 46	1 20	1 27	7 0	1 6	22 12	0 58	18 3	0 38	17 44
M13	18 25	18 18	5 1	22 51	1 38	23 26	0 48	1 2	1 27	7 4	1 6	22 12	0 58	18 3	0 38	17 44
T 14	18 39	18 27	4 45	23 19	1 46	23 36	0 51	0 44	1 27	7 9	1 7	22 13	0 58	18 3	0 38	17 44
W15	18 54	17 40	4 16	23 43	1 52	23 45	0 53	0 26	1 27	7 14	1 7	22 13	0 58	18 3	0 38	17 44
T 16	19 7	16 6	3 35	24 6	1 59	23 54	0 56	0 8	1 27	7 19	1 7	22 13	0 58	18 3	0 38	17 44
F 17	19 21	13 50	2 45	24 25	2 4	24 2	0 58	0n10	1 28	7 24	1 7	22 13	0 58	18 3	0 38	17 44
S 18	19 34	11 1	1 49	24 43	2 9	24 9	1 0	0 28	1 28	7 29	1 7	22 13	0 58	18 3	0 38	17 44
S 19	19 47	7 45	0 48	24 57	2 12	24 16	1 3	0 46	1 28	7 33	1 7	22 13	0 58	18 3	0 38	17 44
M20	20 0	4 11	0n15	25 10	2 15	24 22	1 5	1 4	1 28	7 38	1 7	22 14	0 58	18 3	0 38	17 44
T 21	20 12	0 24	1 18	25 20	2 18	24 27	1 7	1 22	1 28	7 43	1 7	22 14	0 58	18 4	0 38	17 44
W22	20 24	3s28	2 18	25 28	2 19	24 31	1 9	1 39	1 28	7 48	1 7	22 14	0 58	18 4	0 38	17 44
T 23	20 36	7 15	3 13	25 33	2 19	24 35	1 12	1 57	1 28	7 52	1 7	22 14	0 58	18 4	0 38	17 44
F 24	20 47	10 49	4 0	25 37	2 19	24 38	1 14	2 15	1 28	7 57	1 8	22 14	0 58	18 4	0 38	17 44
S 25	20 58	13 57	4 35	25 39	2 18	24 41	1 16	2 33	1 28	8 1	1 8	22 15	0 58	18 4	0 38	17 45
S 26	21 8	16 25	4 56	25 39	2 16	24 42	1 18	2 51	1 28	8 6	1 8	22 15	0 58	18 4	0 38	17 45
M27	21 18	1 5	1 25	27 3	2 13	24 43	1 20	3 8	1 28	8 10	1 8	22 15	0 57	18 4	0 38	17 45
T 28	21 28	18 35	4 48	25 34	2 9	24 44	1 22	3 26	1 28	8 15	1 8	22 15	0 57	18 5	0 38	17 45
W29	21 38	18 0	4 17	25 29	2 4	24 43	1 24	3 44	1 28	8 19	1 8	22 15	0 57	18 5	0 38	17 45
T 30	21 47	16 18	3 30	25 23	1 59	24 42	1 26	4 1	1 28	8 24	1 8	22 16	0 57	18 5	0 38	17 45
F 31	21n55	13s37	2n31	25n15	1n52	24n40	1n27	4n19	1s28	8n28	1s 8	22s16	0n57	18s 5	0s38	17s45

Julian Day Number = 2511930.5, Delta T = 132.81 sec

Ecliptic obliquity = 23°24'55", Nutation = - 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°03'02", Lahiri = 26°10'02"

ASTRODIENST EPHEMERIS for the year 2165  
geocentric

JUNE 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 39 18	10II55'23	0H14	3552	8532	15V 8	24V49	7°R 9	10°R55	9°R11	6544	15°R51	15m46	3m59	23H28	S 1
S 2	16 43 14	11°52'56	14°21	4°45	9°44	15°53	25° 1	73 5	10554	9510	6°45	15m51	15°43	4° 6	23°30	S 2
M 3	16 47 11	12°50'28	28°25	5°34	10°57	16°38	25°13	7° 1	10°53	9° 9	6°46	15°51	15°40	4°12	23°31	M 3
T 4	16 51 7	13°48'00	12V25	6°18	12° 9	17°23	25°25	6°57	10°52	9° 8	6°48	15°49	15°37	4°19	23°32	T 4
W 5	16 55 4	14°45'30	26°19	6°59	13°21	18° 8	25°37	6°54	10°51	9° 8	6°49	15°45	15°33	4°25	23°33	W 5
T 6	16 59 1	15°43'00	10B 5	7°35	14°33	18°52	25°48	6°50	10°50	9° 7	6°50	15°39	15°30	4°32	23°35	T 6
F 7	17 2 57	16°40'29	23°43	8° 7	15°46	19°37	26° 0	6°46	10°49	9° 6	6°52	15°29	15°27	4°39	23°36	F 7
S 8	17 6 54	17°37'58	7II 8	8°35	16°58	20°22	26°12	6°42	10°48	9° 5	6°53	15°18	15°24	4°45	23°37	S 8
S 9	17 10 50	18°35'25	20°20	8°58	18°10	21° 7	26°23	6°38	10°47	9° 4	6°54	15° 5	15°21	4°52	23°38	S 9
M10	17 14 47	19°32'52	3516	9°17	19°22	21°51	26°34	6°33	10°46	9° 4	6°56	14°52	15°17	4°59	23°39	M10
T 11	17 18 43	20°30'18	15°55	9°31	20°34	22°36	26°46	6°29	10°44	9° 3	6°57	14°41	15°14	5° 5	23°39	T 11
W12	17 22 40	21°27'42	28°19	9°41	21°46	23°21	26°57	6°25	10°43	9° 2	6°59	14°32	15°11	5°12	23°40	W12
T 13	17 26 36	22°25'06	10Q27	9°46	22°58	24° 5	27° 8	6°21	10°42	9° 1	7° 0	14°26	15° 8	5°19	23°41	T 13
F 14	17 30 33	23°22'29	22°25	9°R46	24°10	24°50	27°19	6°17	10°40	9° 0	7° 2	14°22	15° 5	5°25	23°42	F 14
S 15	17 34 30	24°19'50	4m15	9°42	25°21	25°34	27°30	6°12	10°39	8°59	7° 3	14°20	15° 2	5°32	23°42	S 15
S 16	17 38 26	25°17'11	16° 3	9°33	26°33	26°18	27°41	6° 8	10°38	8°58	7° 4	14°D20	14°58	5°39	23°43	S 16
M17	17 42 23	26°14'31	27°54	9°21	27°45	27° 3	27°51	6° 4	10°36	8°57	7° 6	14°R20	14°55	5°45	23°44	M17
T 18	17 46 19	27°11'50	953	9° 4	28°57	27°47	28° 2	5°59	10°35	8°56	7° 7	14°19	14°52	5°52	23°44	T 18
W19	17 50 16	28° 9'08	22° 6	8°44	0Q 8	28°31	28°13	5°55	10°33	8°54	7° 9	14°17	14°49	5°59	23°44	W19
T 20	17 54 12	29° 6'25	4m37	8°20	1°20	29°15	28°23	5°51	10°32	8°53	7°10	14°12	14°46	6° 5	23°45	T 20
F 21	17 58 9	053 3'42	17°30	7°53	2°31	29°59	28°33	5°46	10°30	8°52	7°12	14° 6	14°43	6°12	23°45	F 21
S 22	18 2 5	1° 0'57	0747	7°23	3°43	0843	28°43	5°42	10°28	8°51	7°13	13°57	14°39	6°18	23°45	S 22
S 23	18 6 2	1°58'12	14°28	6°52	4°54	1°27	28°53	5°38	10°27	8°50	7°15	13°46	14°36	6°25	23°46	S 23
M24	18 9 59	2°55'27	28°31	6°18	6° 5	2°11	29° 3	5°33	10°25	8°49	7°16	13°35	14°33	6°32	23°46	M24
T 25	18 13 55	3°52'41	12351	5°44	7°17	2°54	29°13	5°29	10°23	8°47	7°18	13°25	14°30	6°38	23°46	T 25
W26	18 17 52	4°49'55	27°22	5° 9	8°28	3°38	29°23	5°24	10°21	8°46	7°19	13°17	14°27	6°45	23°R46	W26
T 27	18 21 48	5°47'09	11557	4°34	9°39	4°22	29°33	5°20	10°20	8°45	7°21	13°11	14°23	6°52	23°46	T 27
F 28	18 25 45	6°44'22	26°30	4° 0	10°50	5° 5	29°42	5°15	10°18	8°43	7°22	13° 8	14°20	6°58	23°46	F 28
S 29	18 29 41	7°41'35	10H57	3°27	12° 1	5°49	29°51	5°11	10°16	8°42	7°24	13°D 7	14°17	7° 5	23°46	S 29
S 30	18 33 38	8538'48	25H14	2556	13Q12	6832	08 1	53 7	10514	8541	7525	13m 8	14m14	7m12	23H46	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
S 1	22n 4	10s 6	1n22 25n 6	1n45 24n37	1n29 4n36	1s28 8n32	1 s 8	22s16	0n57	18s 6	0s38	17s46	0n11	18n43	4s32	5n34
S 2	22 11	6 2	0 8 24 56	1 37 24 34	1 31 4 53	1 28 8 37	1 9	22 16	0 57	18 6	0 38	17 46	0 11	18 43	4 32	5 35
M 3	22 19	1 38	1s 6 24 45	1 28 24 30	1 32 5 11	1 28 8 41	1 9	22 17	0 57	18 6	0 38	17 46	0 11	18 43	4 32	5 35
T 4	22 26	2n49	2 16 24 34	1 18 24 25	1 34 5 28	1 28 8 45	1 9	22 17	0 57	18 6	0 39	17 46	0 11	18 43	4 32	5 35
W 5	22 33	7 5	3 17 24 21	1 7 24 20	1 35 5 45	1 28 8 49	1 9	22 17	0 57	18 7	0 39	17 46	0 11	18 43	4 32	5 37
T 6	22 39	10 57	4 5 24 7	0 56 24 14	1 37 6 2	1 28 8 53	1 9	22 17	0 57	18 7	0 39	17 47	0 11	18 43	4 32	5 39
F 7	22 45	14 10	4 39 23 53	0 43 24 7	1 38 6 19	1 27 8 57	1 9	22 18	0 57	18 7	0 39	17 47	0 11	18 43	4 32	5 43
S 8	22 50	16 35	4 58 23 39	0 30 23 59	1 40 6 36	1 27 9 1	1 9	22 18	0 57	18 8	0 39	17 47	0 11	18 43	4 32	5 47
S 9	22 56	18 5	4 59 23 23	0 17 23 51	1 41 6 53	1 27 9 5	1 10	22 18	0 57	18 8	0 39	17 47	0 11	18 43	4 31	5 52
M10	23 0	18 37	4 45 23 8	0 2 23 42	1 42 7 10	1 27 9 9	1 10	22 18	0 57	18 8	0 39	17 47	0 11	18 43	4 31	5 57
T 11	23 5	18 12	4 18 22 52	0s13 23 33	1 43 7 26	1 27 9 13	1 10	22 19	0 57	18 9	0 39	17 48	0 11	18 43	4 31	6 1
W12	23 8	16 55	3 38 22 36	0 28 23 22	1 44 7 43	1 27 9 17	1 10	22 19	0 57	18 9	0 39	17 48	0 11	18 43	4 31	6 5
T 13	23 12	14 53	2 49 22 19	0 44 23 12	1 45 7 59	1 27 9 21	1 10	22 19	0 57	18 9	0 39	17 48	0 11	18 43	4 31	6 7
F 14	23 15	12 14	1 54 22 3	1 0 23 0	1 46 8 16	1 26 9 25	1 10	22 19	0 57	18 10	0 39	17 49	0 11	18 43	4 31	6 9
S 15	23 18	9 7	0 53 21 47	1 17 22 48	1 47 8 32	1 26 9 29	1 10	22 20	0 57	18 10	0 39	17 49	0 11	18 43	4 31	6 10
S 16	23 20	5 38	0n 9 21 31	1 34 22 35	1 48 8 48	1 26 9 32	1 11	22 20	0 57	18 11	0 39	17 49	0 11	18 43	4 31	6 10
M17	23 22	1 56	1 12 21 15	1 51 22 22	1 48 9 4	1 26 9 36	1 11	22 20	0 57	18 11	0 39	17 49	0 11	18 43	4 31	6 10
T 18	23 23	1s54	2 11 20 59	2 8 22 8	1 49 9 20	1 26 9 40	1 11	22 20	0 56	18 12	0 39	17 50	0 11	18 43	4 31	6 10
W19	23 24	5 43	3 6 20 44	2 24 21 53	1 50 9 36	1 25 9 43	1 11	22 21	0 56	18 12	0 39	17 50	0 11	18 43	4 31	6 11
T 20	23 25	9 22	3 54 20 29	2 41 21 38	1 50 9 52	1 25 9 47	1 11	22 21	0 56	18 12	0 39	17 50	0 11	18 43	4 31	6 13
F 21	23 25	12 42	4 31 20 14	2 57 21 22	1 50 10 8	1 25 9 50	1 11	22 21	0 56	18 13	0 39	17 51	0 11	18 43	4 31	6 15
S 22	23 25	15 29	4 55 20 1	3 12 21 6	1 51 10 23	1 25 9 54	1 12	22 21	0 56	18 13	0 39	17 51	0 11	18 43	4 30	6 19
S 23	23 24	17 30	5 2 19 48	3 27 20 49	1 51 10 39	1 24 9 57	1 12	22 22	0 56	18 14	0 39	17 51	0 11	18 43	4 30	6 23
M24	23 23	18 32	4 52 19 36	3 40 20 31	1 51 10 54	1 24 10 0	1 12	22 22	0 56	18 14	0 39	17 52	0 11	18 43	4 30	6 27
T 25	23 22	18 25	4 24 19 25	3 53 20 13	1 51 11 9	1 24 10 4	1 12	22 22	0 56	18 15	0 39	17 52	0 11	18 43	4 30	6 31
W26	23 20	17 6	3 38 19 15	4 4 19 55	1 51 11 24	1 23 10 7	1 12	22 22	0 56	18 15	0 39	17 52	0 11	18 43	4 30	6 34
T 27	23 17	14 40	2 38 19 6	4 14 19 36	1 51 11 39	1 23 10 10	1 12	22 23	0 56	18 16	0 39	17 53	0 11	18 43	4 30	6 36
F 28	23 15	11 18	1 27 18 59	4 23 19 16	1 51 11 54	1 23 10 13	1 13	22 23	0 56	18 16	0 39	17 53	0 11	18 43	4 30	6 37
S 29	23 12	7 16	0 12 18 52	4 30 18 56	1 50 12 9	1 22 10 16	1 13	22 23	0 56	18 17	0 39	17 53	0 11	18 43	4 30	6 38
S 30	23n 8	2s53	1s 4 18n47	4s36 18n36	1n50 12n24	1s22 10n19	1s13	22s23	0n56	18s17	0s39	17s54	0n11	18n43	4s30	6n37

Julian Day Number = 2511961.5, Delta T = 132.87 sec  
Ecliptic obliquity = 23°24'55, Nutation = - 0°00'05, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°03'06, Lahiri = 26°10'07

# ASTRODIENST EPHEMERIS for the year 2165

## geocentric

JULY 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 37 34	9°36'02	9°18	2°R28	14°23	7°15	0°10	5°R 2	10°R12	8°R39	7°26	13°R 8	14°11	7°18	23°R45	M 1
T 2	18 41 31	10°33'15	23°11	2°28	15°34	7°59	0°19	4°35	10°10	8°38	7°28	13°7	14°8	7°25	23°45	T 2
W 3	18 45 28	11°30'29	6°30	1°40	16°45	8°42	0°28	4°53	10°8	8°37	7°29	13°5	14°4	7°32	23°45	W 3
T 4	18 49 24	12°27'42	20°18	1°21	17°56	9°25	0°36	4°49	10°6	8°35	7°31	13°0	14°1	7°38	23°44	T 4
F 5	18 53 21	13°24'56	3°33	1°7	19°6	10°8	0°45	4°45	10°4	8°34	7°32	12°52	13°58	7°45	23°44	F 5
S 6	18 57 17	14°22'10	16°37	0°57	20°17	10°51	0°53	4°40	10°2	8°32	7°34	12°43	13°55	7°51	23°43	S 6
S 7	19 1 14	15°19'24	29°27	0°51	21°27	11°34	1°2	4°36	10°0	8°31	7°35	12°33	13°52	7°58	23°43	S 7
M 8	19 5 10	16°16'38	12°28	0°D50	22°38	12°16	1°10	4°32	9°58	8°30	7°37	12°23	13°49	8°5	23°42	M 8
T 9	19 9 7	17°13'52	24°29	0°54	23°48	12°59	1°18	4°27	9°56	8°28	7°38	12°15	13°45	8°11	23°42	T 9
W10	19 13 3	18°11'07	6°24	1°4	24°59	13°42	1°26	4°23	9°53	8°27	7°40	12°7	13°42	8°18	23°41	W10
T 11	19 17 0	19°8'21	18°43	1°18	26°9	14°24	1°34	4°19	9°51	8°25	7°41	12°2	13°39	8°25	23°40	T 11
F 12	19 20 57	20°5'35	0°36	1°38	27°19	15°7	1°41	4°15	9°49	8°24	7°43	12°0	13°36	8°31	23°39	F 12
S 13	19 24 53	21°2'49	12°24	2°2	28°29	15°49	1°49	4°11	9°47	8°22	7°44	11°D59	13°33	8°38	23°38	S 13
S 14	19 28 50	22°0'03	24°11	2°32	29°39	16°31	1°56	4°6	9°45	8°20	7°45	11°59	13°29	8°45	23°37	S 14
M15	19 32 46	22°57'16	6°1	3°7	0°49	17°13	2°3	4°2	9°42	8°19	7°47	12°1	13°26	8°51	23°36	M15
T 16	19 36 43	23°54'30	17°59	3°48	1°59	17°55	2°11	3°58	9°40	8°17	7°48	12°2	13°23	8°58	23°35	T 16
W17	19 40 39	24°51'44	0°11	4°33	3°9	18°37	2°17	3°54	9°38	8°16	7°50	12°R 2	13°20	9°5	23°34	W17
T 18	19 44 36	25°48'58	12°42	5°23	4°19	19°19	2°24	3°50	9°36	8°14	7°51	12°0	13°17	9°11	23°33	T 18
F 19	19 48 32	26°46'12	25°35	6°19	5°28	20°1	2°31	3°47	9°33	8°13	7°53	11°57	13°14	9°18	23°32	F 19
S 20	19 52 29	27°43'27	8°54	7°19	6°38	20°43	2°37	3°43	9°31	8°11	7°54	11°52	13°10	9°25	23°31	S 20
S 21	19 56 26	28°40'41	22°40	8°24	7°47	21°24	2°43	3°39	9°29	8°9	7°55	11°46	13°7	9°31	23°29	S 21
M22	20 0 22	29°37'56	6°35	9°34	8°57	22°6	2°50	3°35	9°26	8°8	7°57	11°39	13°4	9°38	23°28	M22
T 23	20 4 19	0°35'11	21°26	10°49	10°6	22°47	2°56	3°31	9°24	8°6	7°58	11°33	13°1	9°44	23°27	T 23
W24	20 8 15	1°32'26	6°16	12°8	11°15	23°28	3°1	3°28	9°22	8°5	7°59	11°28	12°58	9°51	23°25	W24
T 25	20 12 12	2°29'42	21°12	13°32	12°24	24°9	3°7	3°24	9°19	8°3	8°1	11°25	12°55	9°58	23°24	T 25
F 26	20 16 8	3°26'59	6°8	15°0	13°33	24°50	3°13	3°21	9°17	8°1	8°2	11°D24	12°51	10°4	23°22	F 26
S 27	20 20 5	4°24'16	20°56	16°33	14°42	25°31	3°18	3°17	9°14	8°0	8°4	11°24	12°48	10°11	23°21	S 27
S 28	20 24 1	5°21'34	5°29	18°9	15°51	26°12	3°23	3°14	9°12	7°58	8°5	11°25	12°45	10°18	23°19	S 28
M29	20 27 58	6°18'53	19°44	19°50	17°0	26°53	3°28	3°10	9°10	7°57	8°6	11°27	12°42	10°24	23°17	M29
T 30	20 31 55	7°16'13	3°40	21°34	18°8	27°34	3°33	3°7	9°7	7°55	8°7	11°R27	12°39	10°31	23°16	T 30
W31	20 35 51	8°13'35	17°16	23°22	19°17	28°14	3°37	3°3	9°5	7°53	8°9	11°27	12°35	10°38	23°14	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23n 4	1n37	2s15	18n44	4s40	18n15	1n49	12n38	1s22	10n22	1s13	22s24	0n55	18s18	0s39	17s54
T 2	23 0	5 57	3 17	18 41	4 43	17 53	1 49	12 52	1 21	10 25	1 13	22 24	0 55	18 19	0 39	17 54
W 3	22 55	9 54	4 6	18 40	4 44	17 31	1 48	13 6	1 21	10 28	1 14	22 24	0 55	18 19	0 39	17 55
T 4	22 50	13 17	4 42	18 41	4 44	17 9	1 47	13 21	1 20	10 31	1 14	22 24	0 55	18 20	0 39	17 55
F 5	22 44	15 55	5 1	18 43	4 42	16 46	1 47	13 34	1 14	22 25	0 55	18 20	0 39	17 55	0 11	18 43
S 6	22 38	17 42	5 4	18 46	4 39	16 23	1 46	13 48	1 20	10 37	1 14	22 25	0 55	18 21	0 39	17 56
S 7	22 32	18 33	4 52	18 50	4 34	15 59	1 45	14 2	1 19	10 40	1 14	22 25	0 55	18 21	0 39	17 56
M 8	22 25	18 28	4 25	18 56	4 29	15 35	1 44	14 15	1 19	10 42	1 15	22 25	0 55	18 22	0 39	17 57
T 9	22 18	17 29	3 47	19 3	4 22	15 11	1 42	14 29	1 18	10 45	1 15	22 26	0 55	18 23	0 39	17 57
W10	22 11	15 42	2 58	19 10	4 14	14 46	1 41	14 42	1 18	10 47	1 15	22 26	0 55	18 23	0 39	17 57
T 11	22 3	13 16	2 2	19 19	4 5	14 21	1 40	14 55	1 17	10 50	1 15	22 26	0 55	18 24	0 40	17 58
F 12	21 55	10 18	1 1	19 29	3 56	13 56	1 38	15 8	1 17	10 52	1 15	22 26	0 54	18 24	0 40	17 58
S 13	21 46	6 56	0n 2	19 39	3 45	13 30	1 37	15 20	1 16	10 55	1 16	22 27	0 54	18 25	0 40	17 59
S 14	21 37	3 19	1 5	19 49	3 34	13 4	1 35	15 33	1 16	10 57	1 16	22 27	0 54	18 26	0 40	17 59
M15	21 28	0s27	2 6	20 0	3 22	12 37	1 33	15 45	1 15	10 59	1 16	22 27	0 54	18 26	0 40	17 59
T 16	21 18	4 14	3 2	20 12	3 10	12 11	1 31	15 57	1 15	11 1	1 16	22 27	0 54	18 27	0 40	18 0
W17	21 8	7 55	3 51	20 23	2 57	11 44	1 29	16 10	1 14	11 4	1 16	22 28	0 54	18 27	0 40	18 0
T 18	20 58	11 20	4 30	20 35	2 44	11 16	1 27	16 21	1 14	11 6	1 17	22 28	0 54	18 28	0 40	18 1
F 19	20 47	14 19	4 57	20 46	2 30	10 49	1 25	16 33	1 13	11 8	1 17	22 28	0 54	18 29	0 40	18 1
S 20	20 36	16 40	5 9	20 57	2 16	10 21	1 23	16 45	1 13	11 10	1 17	22 28	0 53	18 29	0 40	18 1
S 21	20 24	18 9	5 4	21 7	2 2	9 53	1 21	16 56	1 12	11 12	1 17	22 29	0 53	18 30	0 40	18 2
M22	20 12	18 34	4 40	21 16	1 48	9 25	1 18	17 7	1 11	11 14	1 17	22 29	0 53	18 31	0 40	18 2
T 23	20 0	17 47	3 58	21 25	1 34	8 56	1 16	17 18	1 11	11 15	1 18	22 29	0 53	18 31	0 40	18 3
W24	19 48	15 47	2 59	21 32	1 20	8 28	1 13	17 29	1 10	11 17	1 18	22 29	0 53	18 32	0 40	18 3
T 25	19 35	12 43	1 48	21 38	1 6	7 59	1 10	17 40	1 10	11 19	1 18	22 29	0 53	18 33	0 40	18 4
F 26	19 22	8 48	0 29	21 43	0 52	7 30	1 8	17 51	1 9	11 21	1 18	22 30	0 53	18 33	0 40	18 4
S 27	19 8	4 23	0s52	21 45	0 38	7 1	1 5	18 1	1 8	11 22	1 19	22 30	0 53	18 34	0 40	18 4
S 28	18 55	0n13	2 8	21 46	0 25	6 32	1 2	18 11	1 8	11 24	1 19	22 30	0 52	18 34	0 40	18 5
M29	18 41	4 43	3 14	21 45	0 12	6 2	0 59	18 21	1 7	11 25	1 19	22 30	0 52	18 35	0 40	18 5
T 30	18 26	8 50	4 8	21 42	0n 1	5 32	0 56	18 31	1 6	11 26	1 19	22 31	0 52	18 36	0 40	18 6
W31	18n11	12n24	4s46	21n36	0n13	5n 3	0n52	18n41	1s 6	11n28	1s20	22s31	0n52	18s36	0s40	18s 6

Julian Day Number = 2511991.5, Delta T = 132.93 sec  
 Ecliptic obliquity = 23°24'55, Nutation = - 0°00'04, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°03'10, Lahiri = 26°10'11



# ASTRODIENST EPHEMERIS for the year 2165

## geocentric

AUGUST 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 39 48	9♏10'57	0♏34	25♏12	20♏25	28♏55	3♏42	3°R 1	9°R 2	7°R52	8♏10	11°R25	12♏32	10♏44	23°R12	T 1
F 2	20 43 44	10° 8'20	13°35	27° 6	21°33	29°35	3°46	2♏58	9♏0	7♏50	8°11	11♏22	12°29	10°51	23°R10	F 2
S 3	20 47 41	11° 5'44	26°21	29° 2	22°41	0♏15	3°50	2°55	8°58	7°48	8°13	11°18	12°26	10°58	23° 9	S 3
S 4	20 51 37	12° 3'10	8♏54	1♏ 1	23°49	0°55	3°54	2°52	8°55	7°47	8°14	11°13	12°23	11° 4	23° 7	S 4
M 5	20 55 34	13° 0'36	21°14	3° 1	24°57	1°35	3°58	2°49	8°53	7°45	8°15	11° 9	12°20	11°11	23° 5	M 5
T 6	20 59 30	13°58'03	3♏24	5° 3	26° 5	2°15	4° 1	2°46	8°50	7°44	8°16	11° 4	12°16	11°17	23° 3	T 6
W 7	21 3 27	14°55'31	15°25	7° 6	27°13	2°54	4° 5	2°43	8°48	7°42	8°18	11° 1	12°13	11°24	23° 1	W 7
T 8	21 7 24	15°53'01	27°19	9° 9	28°20	3°34	4° 8	2°41	8°46	7°40	8°19	10°59	12°10	11°31	22°59	T 8
F 9	21 11 20	16°50'31	9♏ 8	11°14	29°28	4°13	4°11	2°38	8°43	7°39	8°20	10°D58	12° 7	11°37	22°56	F 9
S 10	21 15 17	17°48'02	20°54	13°18	0♏35	4°52	4°14	2°36	8°41	7°37	8°21	10°59	12° 4	11°44	22°54	S 10
S 11	21 19 13	18°45'33	2♏41	15°23	1°42	5°32	4°16	2°33	8°39	7°35	8°22	11° 0	12° 0	11°51	22°52	S 11
M12	21 23 10	19°43'06	14°32	17°27	2°49	6°11	4°19	2°31	8°36	7°34	8°24	11° 1	11°57	11°57	22°50	M12
T 13	21 27 6	20°40'40	26°31	19°30	3°56	6°49	4°21	2°29	8°34	7°32	8°25	11° 3	11°54	12° 4	22°48	T 13
W14	21 31 3	21°38'14	8♏43	21°33	5° 3	7°28	4°23	2°27	8°32	7°31	8°26	11° 4	11°51	12°11	22°45	W14
T 15	21 34 59	22°35'49	21°11	23°35	6° 9	8° 7	4°25	2°25	8°29	7°29	8°27	11°R 5	11°48	12°17	22°43	T 15
F 16	21 38 56	23°33'26	4♏ 1	25°36	7°16	8°45	4°26	2°23	8°27	7°28	8°28	11° 4	11°45	12°24	22°41	F 16
S 17	21 42 53	24°31'03	17°16	27°36	8°22	9°23	4°28	2°21	8°25	7°26	8°29	11° 3	11°41	12°31	22°38	S 17
S 18	21 46 49	25°28'41	0♏57	29°34	9°28	10° 1	4°29	2°19	8°22	7°25	8°30	11° 2	11°38	12°37	22°36	S 18
M19	21 50 46	26°26'20	15° 6	1♏31	10°34	10°39	4°30	2°17	8°20	7°23	8°31	11° 0	11°35	12°44	22°33	M19
T 20	21 54 42	27°24'01	29°41	3°27	11°39	11°17	4°31	2°16	8°18	7°22	8°32	10°58	11°32	12°50	22°31	T 20
W21	21 58 39	28°21'42	14♏35	5°22	12°45	11°55	4°32	2°14	8°16	7°20	8°33	10°57	11°29	12°57	22°28	W21
T 22	22 2 35	29°19'25	29°42	7°15	13°50	12°32	4°32	2°13	8°14	7°19	8°34	10°56	11°26	13° 4	22°26	T 22
F 23	22 6 32	0♏17'08	14♏53	9° 7	14°56	13°10	4°32	2°11	8°11	7°17	8°35	10°D56	11°22	13°10	22°23	F 23
S 24	22 10 28	1°14'54	29°58	10°58	16° 1	13°47	4°R32	2°10	8° 9	7°16	8°36	10°56	11°19	13°17	22°21	S 24
S 25	22 14 25	2°12'41	14°Y49	12°47	17° 5	14°24	4°32	2° 9	8° 7	7°14	8°37	10°57	11°16	13°24	22°18	S 25
M26	22 18 22	3°10'29	29°20	14°35	18°10	15° 1	4°32	2° 8	8° 5	7°13	8°38	10°58	11°13	13°30	22°15	M26
T 27	22 22 18	4° 8'19	13♏27	16°21	19°14	15°38	4°31	2° 7	8° 3	7°11	8°39	10°58	11°10	13°37	22°13	T 27
W28	22 26 15	5° 6'11	27° 9	18° 6	20°18	16°14	4°31	2° 6	8° 1	7°10	8°40	10°58	11° 6	13°44	22°10	W28
T 29	22 30 11	6° 4'05	10♏26	19°50	21°22	16°50	4°30	2° 5	7°59	7° 9	8°41	10°R58	11° 3	13°50	22° 7	T 29
F 30	22 34 8	7° 2'01	23°22	21°33	22°26	17°27	4°29	2° 5	7°57	7° 7	8°42	10°58	11° 0	13°57	22° 5	F 30
S 31	22 38 4	7♏59'59	5♏59	23♏14	23♏30	18♏ 3	4♏27	2♏ 4	7♏55	7♏ 6	8♏43	10♏58	10♏57	14♏ 4	22♏ 2	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	17n56	15n14	5s 7	21n28	0n24	4n33	0n49	18n50	1s 5	11n29	1s20	22s31	0n52	18s37	0s40	18s 7
F 2	17 41	17 14	5 13	21 18	0 35	4 3	0 46	19 0	1 4	11 30	1 20	22 31	0 52	18 38	0 40	18 7
S 3	17 26	18 20	5 2	21 4	0 45	3 33	0 42	19 9	1 3	11 31	1 20	22 31	0 52	18 38	0 40	18 7
S 4	17 10	18 30	4 37	20 48	0 55	3 3	0 39	19 18	1 3	11 33	1 20	22 32	0 52	18 39	0 40	18 8
M 5	16 54	17 47	4 0	20 30	1 3	2 32	0 35	19 27	1 2	11 34	1 21	22 32	0 51	18 40	0 40	18 8
T 6	16 37	16 16	3 12	20 8	1 11	2 2	0 31	19 35	1 1	11 35	1 21	22 32	0 51	18 40	0 40	18 9
W 7	16 20	14 2	2 16	19 45	1 18	1 32	0 28	19 44	1 0	11 35	1 21	22 32	0 51	18 41	0 40	18 9
T 8	16 4	11 13	1 15	19 19	1 25	1 1	0 24	19 52	0 59	11 36	1 21	22 32	0 51	18 41	0 40	18 10
F 9	15 46	7 59	0 10	18 50	1 30	0 31	0 20	20 0	0 59	11 37	1 22	22 33	0 51	18 42	0 40	18 10
S 10	15 29	4 26	0n55	18 19	1 35	0 1	0 16	20 8	0 58	11 38	1 22	22 33	0 51	18 43	0 40	18 10
S 11	15 11	0 43	1 57	17 47	1 38	0s30	0 12	20 16	0 57	11 38	1 22	22 33	0 51	18 43	0 40	18 11
M12	14 53	3s 2	2 55	17 12	1 41	1 0	0 7	20 24	0 56	11 39	1 22	22 33	0 50	18 44	0 40	18 11
T 13	14 35	6 42	3 46	16 36	1 44	1 31	0 3	20 31	0 55	11 40	1 23	22 33	0 50	18 45	0 40	18 12
W14	14 17	10 10	4 28	15 58	1 45	2 1	0s 1	20 38	0 54	11 40	1 23	22 33	0 50	18 45	0 40	18 12
T 15	13 58	13 15	4 58	15 18	1 46	2 32	0 6	20 45	0 54	11 40	1 23	22 34	0 50	18 46	0 40	18 13
F 16	13 39	15 47	5 14	14 38	1 46	3 2	0 10	20 52	0 53	11 41	1 23	22 34	0 50	18 46	0 40	18 13
S 17	13 20	17 35	5 15	13 56	1 45	3 32	0 15	20 59	0 52	11 41	1 24	22 34	0 50	18 47	0 40	18 13
S 18	13 1	18 27	4 58	13 14	1 44	4 2	0 19	21 5	0 51	11 41	1 24	22 34	0 49	18 48	0 40	18 14
M19	12 41	18 13	4 23	12 30	1 42	4 33	0 24	21 12	0 50	11 41	1 24	22 34	0 49	18 48	0 40	18 14
T 20	12 22	16 47	3 29	11 46	1 39	5 3	0 29	21 18	0 49	11 41	1 24	22 35	0 49	18 49	0 40	18 15
W21	12 2	14 11	2 21	11 2	1 36	5 33	0 33	21 24	0 48	11 41	1 25	22 35	0 49	18 49	0 40	18 15
T 22	11 42	10 36	1 2	10 16	1 33	6 3	0 38	21 30	0 47	11 41	1 25	22 35	0 49	18 50	0 40	18 15
F 23	11 22	6 17	0s22	9 31	1 29	6 32	0 43	21 36	0 46	11 41	1 25	22 35	0 49	18 50	0 40	18 16
S 24	11 1	1 36	1 44	8 45	1 25	7 2	0 48	21 41	0 45	11 41	1 25	22 35	0 49	18 51	0 40	18 16
S 25	10 41	3n 6	2 57	7 59	1 20	7 31	0 53	21 46	0 44	11 41	1 25	22 35	0 48	18 51	0 40	18 16
M26	10 20	7 31	3 58	7 13	1 15	8 1	0 58	21 52	0 43	11 40	1 26	22 36	0 48	18 52	0 40	18 17
T 27	9 59	11 22	4 42	6 27	1 9	8 30	1 3	21 57	0 42	11 40	1 26	22 36	0 48	18 53	0 40	18 17
W28	9 38	14 29	5 9	5 40	1 4	8 59	1 9	22 1	0 41	11 40	1 26	22 36	0 48	18 53	0 40	18 18
T 29	9 17	16 45	5 18	4 54	0 57	9 28	1 14	22 6	0 40	11 39	1 26	22 36	0 48	18 54	0 40	18 18
F 30	8 55	18 5	5 11	4 8	0 51	9 57	1 19	22 11	0 39	11 38	1 27	22 36	0 48	18 54	0 40	18 18
S 31	8n34	18n29	4s48	3n22	0n45	10s25	1s24	22n15	0s38	11n38	1s27	22s36	0n48	18s55	0s40	18s19

Julian Day Number = 2512022.5, Delta T = 133.00 sec  
 Ecliptic obliquity = 23°24'55, Nutation = - 0°00'04, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°03'15, Lahiri = 26°10'15



ASTRODIENST EPHEMERIS for the year 2165  
geocentric

OCTOBER 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 40 17	8♌10'49	21♏19	3♍56	23♍35	4♌49	2°R14	2♌34	7°R11	6°R35	8♌59	10♏49	9♏18	17♏30	20°R36	T 1
W 2	0 44 14	9° 9'45	3♏7	4°42	24°25	5°18	2♌7	2°37	7♌10	6♌35	8°59	10°50	9°15	17°36	20°R33	W 2
T 3	0 48 11	10° 8'43	14°54	5°24	25°15	5°45	2° 0	2°39	7°10	6°34	8°59	10°R50	9°12	17°43	20°30	T 3
F 4	0 52 7	11° 7'43	26°42	6° 3	26° 4	6°13	1°53	2°42	7° 9	6°34	8°59	10°49	9° 9	17°49	20°28	F 4
S 5	0 56 4	12° 6'46	8♌34	6°36	26°52	6°40	1°46	2°45	7° 8	6°33	9° 0	10°46	9° 6	17°56	20°25	S 5
S 6	1 0 0	13° 5'50	20°33	7° 6	27°40	7° 7	1°39	2°47	7° 8	6°33	9° 0	10°42	9° 3	18° 3	20°23	S 6
M 7	1 3 57	14° 4'57	2♏39	7°29	28°27	7°33	1°32	2°50	7° 7	6°33	9° 0	10°36	8°59	18° 9	20°20	M 7
T 8	1 7 53	15° 4'05	14°55	7°48	29°13	8° 0	1°24	2°53	7° 7	6°32	9° 0	10°30	8°56	18°16	20°18	T 8
W 9	1 11 50	16° 3'15	27°22	8° 0	29°58	8°25	1°17	2°56	7° 6	6°32	9°R 0	10°24	8°53	18°23	20°15	W 9
T 10	1 15 46	17° 2'28	10♌1	8°R 5	0♌42	8°51	1° 9	3° 0	7° 6	6°32	9° 0	10°19	8°50	18°29	20°13	T 10
F 11	1 19 43	18° 1'42	22°54	8° 4	1°25	9°16	1° 1	3° 3	7° 6	6°31	9° 0	10°14	8°47	18°36	20°10	F 11
S 12	1 23 39	19° 0'58	6♌3	7°54	2° 8	9°40	0°54	3° 6	7° 6	6°31	9° 0	10°12	8°43	18°43	20° 8	S 12
S 13	1 27 36	20° 0'15	19°30	7°38	2°49	10° 4	0°46	3°10	7° 5	6°31	9° 0	10°D11	8°40	18°49	20° 5	S 13
M14	1 31 33	20°59'34	3♌16	7°12	3°29	10°28	0°38	3°13	7° 5	6°31	8°59	10°12	8°37	18°56	20° 3	M14
T 15	1 35 29	21°58'55	17°23	6°39	4° 8	10°51	0°30	3°17	7° 5	6°31	8°59	10°13	8°34	19° 3	20° 1	T 15
W16	1 39 26	22°58'18	1♌49	5°57	4°46	11°14	0°22	3°21	7° 5	6°31	8°59	10°14	8°31	19° 9	19°59	W16
T 17	1 43 22	23°57'43	16°32	5° 8	5°22	11°37	0°14	3°25	7°D 5	6°31	8°59	10°R14	8°28	19°16	19°56	T 17
F 18	1 47 19	24°57'09	1♌27	4°11	5°58	11°59	0° 6	3°28	7° 5	6°D31	8°59	10°12	8°24	19°23	19°54	F 18
S 19	1 51 15	25°56'37	16°27	3° 7	6°32	12°20	29°V58	3°32	7° 5	6°31	8°59	10° 9	8°21	19°29	19°52	S 19
S 20	1 55 12	26°56'07	1♌23	1°58	7° 4	12°41	29°50	3°36	7° 5	6°31	8°58	10° 3	8°18	19°36	19°50	S 20
M21	1 59 8	27°55'39	16° 7	0°46	7°35	13° 2	29°42	3°40	7° 6	6°31	8°58	9°55	8°15	19°42	19°48	M21
T 22	2 3 5	28°55'13	0♌30	29♌31	8° 5	13°22	29°34	3°45	7° 6	6°31	8°58	9°47	8°12	19°49	19°46	T 22
W23	2 7 2	29°54'50	14°27	28°17	8°33	13°42	29°25	3°49	7° 6	6°31	8°57	9°40	8° 8	19°56	19°44	W23
T 24	2 10 58	0♌54'29	27°57	27° 6	9° 0	14° 1	29°17	3°53	7° 6	6°31	8°57	9°34	8° 5	20° 2	19°42	T 24
F 25	2 14 55	1°54'10	11♌0	25°59	9°25	14°20	29° 9	3°58	7° 7	6°31	8°57	9°29	8° 2	20° 9	19°40	F 25
S 26	2 18 51	2°53'53	23°37	24°59	9°48	14°38	29° 1	4° 2	7° 7	6°32	8°56	9°27	7°59	20°16	19°38	S 26
S 27	2 22 48	3°53'38	5♌55	24° 8	10° 9	14°56	28°53	4° 7	7° 8	6°32	8°56	9°D26	7°56	20°22	19°36	S 27
M28	2 26 44	4°53'26	17°56	23°26	10°29	15°13	28°45	4°11	7° 8	6°32	8°56	9°27	7°53	20°29	19°35	M28
T 29	2 30 41	5°53'16	29°48	22°55	10°46	15°29	28°37	4°16	7° 9	6°33	8°55	9°28	7°49	20°36	19°33	T 29
W30	2 34 37	6°53'08	11♌35	22°35	11° 2	15°45	28°29	4°21	7°10	6°33	8°55	9°R29	7°46	20°42	19°31	W30
T 31	2 38 34	7♌53'02	23♏22	22°D27	11♌16	16♌0	28°V21	4♌26	7♌10	6♌33	8♌54	9♏27	7♏43	20♏49	19♌30	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	3s14	12n43	1s45	15s45	3s 8	22s45	4s15	23n23	0n 3	10n48	1s32	22s41	0n43	19s 5	0s39	18s27
W 2	3 38	9 41	0 42	16 6	3 13	23 3	4 20	23 23	0 5	10 45	1 32	22 41	0 43	19 5	0 39	18 27
T 3	4 1	6 17	0n22	16 25	3 18	23 20	4 25	23 24	0 6	10 43	1 32	22 41	0 43	19 6	0 39	18 27
F 4	4 24	2 38	1 26	16 41	3 22	23 37	4 30	23 24	0 8	10 40	1 33	22 41	0 42	19 6	0 39	18 27
S 5	4 47	1s 9	2 26	16 56	3 25	23 53	4 34	23 24	0 10	10 38	1 33	22 41	0 42	19 6	0 39	18 27
S 6	5 10	4 55	3 20	17 8	3 30	24 9	4 39	23 25	0 11	10 35	1 33	22 41	0 42	19 6	0 39	18 27
M 7	5 33	8 31	4 6	17 18	3 30	24 24	4 44	23 25	0 13	10 33	1 33	22 41	0 42	19 6	0 39	18 28
T 8	5 56	11 49	4 41	17 25	3 31	24 39	4 48	23 25	0 15	10 30	1 33	22 41	0 42	19 6	0 39	18 28
W 9	6 19	14 38	5 3	17 29	3 31	24 53	4 53	23 25	0 16	10 27	1 33	22 41	0 42	19 6	0 39	18 28
T 10	6 41	16 48	5 11	17 30	3 30	25 7	4 57	23 25	0 18	10 25	1 33	22 41	0 42	19 6	0 39	18 28
F 11	7 4	18 10	5 4	17 28	3 28	25 21	5 2	23 26	0 20	10 22	1 33	22 41	0 41	19 6	0 39	18 28
S 12	7 26	18 37	4 40	17 21	3 25	25 33	5 6	23 26	0 22	10 19	1 33	22 41	0 41	19 6	0 39	18 28
S 13	7 49	18 1	4 1	17 11	3 20	25 46	5 10	23 26	0 24	10 17	1 33	22 41	0 41	19 6	0 39	18 28
M14	8 11	16 22	3 7	16 57	3 13	25 57	5 13	23 26	0 26	10 14	1 33	22 42	0 41	19 6	0 39	18 28
T 15	8 33	13 41	2 1	16 38	3 5	26 8	5 17	23 26	0 27	10 11	1 33	22 42	0 41	19 6	0 39	18 28
W16	8 55	10 6	0 46	16 15	2 55	26 19	5 21	23 26	0 29	10 8	1 33	22 42	0 41	19 6	0 39	18 28
T 17	9 17	5 50	0s34	15 47	2 44	26 29	5 24	23 26	0 31	10 5	1 33	22 42	0 41	19 6	0 39	18 28
F 18	9 39	1 9	1 52	15 15	2 30	26 39	5 27	23 26	0 33	10 3	1 33	22 42	0 40	19 6	0 39	18 28
S 19	10 1	3n38	3 3	14 39	2 15	26 47	5 30	23 26	0 35	10 0	1 33	22 42	0 40	19 6	0 39	18 28
S 20	10 22	8 10	4 1	13 59	1 58	26 56	5 33	23 26	0 37	9 57	1 33	22 42	0 40	19 6	0 39	18 28
M21	10 44	12 8	4 42	13 17	1 40	27 4	5 35	23 26	0 39	9 54	1 33	22 42	0 40	19 6	0 38	18 28
T 22	11 5	15 17	5 4	12 32	1 20	27 11	5 37	23 26	0 41	9 51	1 33	22 42	0 40	19 6	0 38	18 28
W23	11 26	17 26	5 7	11 47	1 0	27 17	5 39	23 26	0 43	9 49	1 33	22 42	0 40	19 6	0 38	18 28
T 24	11 47	18 32	4 52	11 2	0 39	27 23	5 41	23 26	0 45	9 46	1 33	22 42	0 40	19 6	0 38	18 28
F 25	12 7	18 36	4 23	10 19	0 18	27 29	5 42	23 26	0 48	9 43	1 33	22 42	0 40	19 6	0 38	18 28
S 26	12 28	17 43	4 31	9 38	0n 2	27 33	5 44	23 26	0 50	9 40	1 33	22 42	0 39	19 6	0 38	18 28
S 27	12 48	16 1	2 51	9 1	0 21	27 37	5 44	23 27	0 52	9 38	1 32	22 42	0 39	19 5	0 38	18 28
M28	13 8	13 39	1 53	8 29	0 39	27 41	5 45	23 27	0 54	9 35	1 32	22 42	0 39	19 5	0 38	18 28
T 29	13 28	10 43	0 52	8 2	0 56	27 44	5 45	23 27	0 56	9 32	1 32	22 42	0 39	19 5	0 38	18 28
W30	13 48	7 23	0n11	7 41	1 11	27 46	5 45	23 28	0 59	9 29	1 32	22 42	0 39	19 5	0 38	18 28
T 31	14s 7	3n46	1n14	7s25	1n25	27s47	5s44	23n28	1n 1	9n27	1s32	22s42	0n39	19s 5	0s38	18s28

Julian Day Number = 2512083.5, Delta T = 133.13 sec  
Ecliptic obliquity = 23°24'56, Nutation = - 0°00'07, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°03'23, Lahiri = 26°10'24

# ASTRODIENST EPHEMERIS for the year 2165

## geocentric

NOVEMBER 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 42 31	8♌52°58	5♊13	22♏30	11♌27	16♏15	28♏13	4♌31	7♌11	6♌34	8♏R54	9♏R24	7♏40	20♏56	19♏R28	F 1
S 2	2 46 27	9°52'56	17°12	22°45	11°37	16°29	28°13	4°36	7°12	6°34	8°53	9°18	7°37	21°2	19°26	S 2
S 3	2 50 24	10°52'56	29°21	23°9	11°44	16°42	27°58	4°41	7°13	6°35	8°53	9°9	7°34	21°9	19°25	S 3
M 4	2 54 20	11°52'59	11♌41	23°43	11°49	16°55	27°50	4°46	7°14	6°35	8°52	8°59	7°30	21°16	19°23	M 4
T 5	2 58 17	12°53'03	24°14	24°25	11°52	17°7	27°42	4°51	7°15	6°36	8°51	8°47	7°27	21°22	19°22	T 5
W 6	3 2 13	13°53'09	6♌59	25°15	11°R52	17°19	27°35	4°56	7°16	6°36	8°51	8°35	7°24	21°29	19°21	W 6
T 7	3 6 10	14°53'16	19°55	26°12	11°50	17°30	27°28	5°2	7°17	6°37	8°50	8°24	7°21	21°35	19°19	T 7
F 8	3 10 6	15°53'26	3♌4	27°15	11°45	17°40	27°20	5°7	7°18	6°38	8°50	8°15	7°18	21°42	19°18	F 8
S 9	3 14 3	16°53'37	16°24	28°24	11°39	17°49	27°13	5°12	7°19	6°39	8°49	8°8	7°14	21°49	19°17	S 9
S 10	3 18 0	17°53'49	29°56	29°37	11°29	17°58	27°6	5°18	7°20	6°39	8°48	8°5	7°11	21°55	19°16	S 10
M 11	3 21 56	18°54'03	13♌39	0♌53	11°17	18°6	26°59	5°23	7°22	6°40	8°47	8°D 3	7°8	22°2	19°15	M 11
T 12	3 25 53	19°54'18	27°36	2°14	11°3	18°13	26°52	5°29	7°23	6°41	8°47	8°3	7°5	22°9	19°14	T 12
W 13	3 29 49	20°54'35	11♌45	3°37	10°47	18°20	26°45	5°35	7°24	6°42	8°46	8°R 4	7°2	22°15	19°13	W 13
T 14	3 33 46	21°54'53	26°6	5°2	10°27	18°26	26°39	5°40	7°26	6°43	8°45	8°3	6°59	22°22	19°12	T 14
F 15	3 37 42	22°55'12	10♏37	6°29	10°6	18°31	26°32	5°46	7°27	6°44	8°44	7°59	6°55	22°29	19°11	F 15
S 16	3 41 39	23°55'33	25°13	7°58	9°43	18°35	26°26	5°52	7°29	6°44	8°44	7°53	6°52	22°35	19°10	S 16
S 17	3 45 35	24°55'56	9♌49	9°28	9°17	18°38	26°20	5°58	7°30	6°45	8°43	7°44	6°49	22°42	19°10	S 17
M 18	3 49 32	25°56'20	24°16	10°59	8°50	18°41	26°13	6°4	7°32	6°46	8°42	7°33	6°46	22°49	19°9	M 18
T 19	3 53 29	26°56'45	8♌49	12°31	8°20	18°43	26°8	6°10	7°33	6°47	8°41	7°20	6°43	22°55	19°8	T 19
W 20	3 57 25	27°57'13	22°22	14°4	7°49	18°44	26°2	6°16	7°35	6°49	8°40	7°8	6°40	23°2	19°8	W 20
T 21	4 1 22	28°57'42	5♌50	15°37	7°17	18°R44	25°56	6°22	7°37	6°50	8°39	6°58	6°36	23°9	19°7	T 21
F 22	4 5 18	29°58'12	18°54	17°11	6°43	18°44	25°51	6°28	7°39	6°51	8°39	6°50	6°33	23°15	19°7	F 22
S 23	4 9 15	0♌58'45	1♌34	18°45	6°8	18°42	25°45	6°34	7°40	6°52	8°38	6°44	6°30	23°22	19°6	S 23
S 24	4 13 11	1°59'19	13°53	20°20	5°33	18°40	25°40	6°40	7°42	6°53	8°37	6°41	6°27	23°29	19°6	S 24
M 25	4 17 8	2°59'55	25°57	21°54	4°57	18°37	25°35	6°47	7°44	6°54	8°36	6°41	6°24	23°35	19°6	M 25
T 26	4 21 4	4°03'2	7♏49	23°29	4°20	18°33	25°31	6°53	7°46	6°56	8°35	6°40	6°20	23°42	19°5	T 26
W 27	4 25 1	5°1'11	19°37	25°3	3°44	18°28	25°26	6°59	7°48	6°57	8°34	6°40	6°17	23°48	19°5	W 27
T 28	4 28 58	6°1'52	1♌25	26°38	3°7	18°22	25°22	7°6	7°50	6°58	8°33	6°38	6°14	23°55	19°5	T 28
F 29	4 32 54	7°2'34	13°19	28°12	2°32	18°15	25°17	7°12	7°52	6°59	8°32	6°34	6°11	24°2	19°5	F 29
S 30	4 36 51	8°3'18	25°23	29♌47	1♌57	18°58	25°13	7°319	7°54	7°54	8°31	6♏27	6♏8	24♏8	19°D 5	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	14s27	0s 2	2n13	7s15	1n37	27s48	5s43	23n29	1n 3	9n24	1s32	22s42	0n39	19s 4	0s38	18s28
S 2	14 46	3 51	3 8	7 11	1 47	27 47	5 41	23 29	1 6	9 21	1 32	22 42	0 39	19 4	0 38	18 28
S 3	15 5	7 35	3 54	7 13	1 55	27 46	5 39	23 30	1 8	9 19	1 32	22 42	0 38	19 4	0 38	18 27
M 4	15 23	11 2	4 30	7 19	2 1	27 45	5 37	23 31	1 11	9 16	1 32	22 41	0 38	19 4	0 38	18 27
T 5	15 41	14 4	4 53	7 30	2 6	27 42	5 34	23 32	1 13	9 13	1 31	22 41	0 38	19 3	0 38	18 27
W 6	15 59	16 29	5 3	7 44	2 10	27 39	5 31	23 33	1 16	9 11	1 31	22 41	0 38	19 3	0 38	18 27
T 7	16 17	18 6	4 57	8 3	2 12	27 35	5 27	23 34	1 18	9 8	1 31	22 41	0 38	19 3	0 38	18 27
F 8	16 35	18 48	4 35	8 24	2 14	27 30	5 22	23 35	1 21	9 6	1 31	22 41	0 38	19 2	0 38	18 27
S 9	16 52	18 28	3 59	8 49	2 14	27 24	5 17	23 36	1 23	9 4	1 31	22 41	0 38	19 2	0 38	18 27
S 10	17 9	17 5	3 8	9 15	2 13	27 17	5 11	23 38	1 26	9 1	1 31	22 41	0 38	19 2	0 38	18 26
M 11	17 26	14 42	2 6	9 43	2 11	27 9	5 5	23 39	1 28	8 59	1 30	22 41	0 38	19 1	0 38	18 26
T 12	17 42	11 26	0 55	10 13	2 8	27 0	4 58	23 41	1 31	8 57	1 30	22 41	0 37	19 1	0 38	18 26
W 13	17 58	7 27	0s10	10 45	2 5	26 50	4 51	23 43	1 34	8 54	1 30	22 41	0 37	19 1	0 38	18 26
T 14	18 14	2 59	1 34	11 17	2 1	26 39	4 42	23 44	1 36	8 52	1 30	22 40	0 37	19 0	0 38	18 26
F 15	18 29	1n42	2 44	11 49	1 57	26 27	4 33	23 47	1 39	8 50	1 30	22 40	0 37	19 0	0 38	18 25
S 16	18 44	6 18	3 42	12 23	1 52	26 14	4 24	23 49	1 42	8 48	1 29	22 40	0 37	19 0	0 38	18 25
S 17	18 59	10 31	4 26	12 56	1 47	26 0	4 14	23 51	1 45	8 46	1 29	22 40	0 37	18 59	0 38	18 25
M 18	19 13	14 5	4 53	13 30	1 42	25 45	4 3	23 53	1 48	8 44	1 29	22 40	0 37	18 59	0 38	18 25
T 19	19 27	16 45	5 1	14 4	1 36	25 29	3 51	23 56	1 50	8 42	1 29	22 40	0 37	18 58	0 38	18 25
W 20	19 41	18 22	4 51	14 37	1 30	25 12	3 39	23 59	1 53	8 40	1 29	22 40	0 37	18 58	0 38	18 24
T 21	19 54	18 53	4 24	15 10	1 23	24 54	3 27	24 1	1 56	8 38	1 28	22 39	0 36	18 57	0 38	18 24
F 22	20 7	18 23	3 44	15 43	1 17	24 35	3 14	24 4	1 59	8 37	1 28	22 39	0 36	18 57	0 38	18 24
S 23	20 20	16 57	2 55	16 16	1 10	24 16	3 0	24 7	2 2	8 35	1 28	22 39	0 36	18 56	0 38	18 23
S 24	20 32	14 46	1 58	16 48	1 3	23 56	2 46	24 11	2 5	8 33	1 28	22 39	0 36	18 56	0 38	18 23
M 25	20 44	11 58	0 57	17 19	0 56	23 35	2 31	24 14	2 8	8 32	1 27	22 39	0 36	18 55	0 38	18 23
T 26	20 56	8 43	0n 6	17 49	0 50	23 13	2 16	24 18	2 11	8 30	1 27	22 38	0 36	18 55	0 38	18 23
W 27	21 7	5 9	1 8	18 19	0 43	22 52	2 1	24 21	2 14	8 29	1 27	22 38	0 36	18 54	0 38	18 22
T 28	21 18	1 23	2 7	18 48	0 36	22 30	1 46	24 25	2 17	8 27	1 26	22 38	0 36	18 54	0 37	18 22
F 29	21 28	2s28	3 1	19 17	0 29	22 7	1 31	24 29	2 20	8 26	1 26	22 38	0 36	18 53	0 37	18 22
S 30	21s38	6s17	3n47	19s44	0n22	21s45	1s15	24n33	2n23	8n25	1s26	22s37	0n36	18s53	0s37	18s21

Julian Day Number = 2512114.5, Delta T = 133.19 sec

Ecliptic obliquity = 23°24'55, Nutation = - 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°03'27, Lahiri = 26°10'28

ASTRODIENST EPHEMERIS for the year 2165  
geocentric

DECEMBER 2165

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 40 47	9♌ 4'03	7♍ 41	1♌ 22	1♌ 22	18♌ 0	25♌ 9	7♌ 25	7♌ 57	7♌ 2	8♌ 30	6♌ 18	6♌ 5	24♌ 15	19♌ 5	S 1
M 2	4 44 44	10° 4'50	20° 14	2° 56	0♌ 49	17♌ 50	25♌ 6	7° 32	7° 59	7° 4	8♌ 29	6♌ 6	6° 1	24° 22	19° 5	M 2
T 3	4 48 40	11° 5'38	3♌ 4	4° 30	0° 18	17° 40	25° 2	7° 38	8° 1	7° 5	8° 28	5° 52	5° 58	24° 28	19° 5	T 3
W 4	4 52 37	12° 6'28	16° 10	6° 5	29♌ 48	17° 29	24° 59	7° 45	8° 3	7° 7	8° 27	5° 38	5° 55	24° 35	19° 6	W 4
T 5	4 56 33	13° 7'18	29° 30	7° 39	29° 19	17° 17	24° 56	7° 51	8° 6	7° 8	8° 26	5° 26	5° 52	24° 42	19° 6	T 5
F 6	5 0 30	14° 8'10	13♌ 3	9° 13	28° 53	17° 5	24° 53	7° 58	8° 8	7° 10	8° 24	5° 15	5° 49	24° 48	19° 6	F 6
S 7	5 4 27	15° 9'03	26° 45	10° 48	28° 28	16° 51	24° 50	8° 5	8° 10	7° 11	8° 23	5° 7	5° 46	24° 55	19° 7	S 7
S 8	5 8 23	16° 9'56	10♌ 34	12° 22	28° 6	16° 37	24° 48	8° 12	8° 13	7° 13	8° 22	5° 3	5° 42	25° 2	19° 7	S 8
M 9	5 12 20	17° 10'50	24° 29	13° 56	27° 46	16° 22	24° 46	8° 18	8° 15	7° 14	8° 21	5° 1	5° 39	25° 8	19° 8	M 9
T 10	5 16 16	18° 11'45	8♌ 28	15° 30	27° 28	16° 6	24° 43	8° 25	8° 18	7° 16	8° 20	5° D 1	5° 36	25° 15	19° 8	T 10
W 11	5 20 13	19° 12'41	22° 32	17° 4	27° 12	15° 50	24° 42	8° 32	8° 20	7° 18	8° 19	5° R 1	5° 33	25° 22	19° 9	W 11
T 12	5 24 9	20° 13'37	6♌ 39	18° 39	26° 59	15° 32	24° 40	8° 39	8° 23	7° 19	8° 18	5° 0	5° 30	25° 28	19° 9	T 12
F 13	5 28 6	21° 14'34	20° 49	20° 13	26° 49	15° 15	24° 39	8° 46	8° 26	7° 21	8° 17	4° 57	5° 26	25° 35	19° 10	F 13
S 14	5 32 2	22° 15'31	4♌ 59	21° 47	26° 41	14° 56	24° 37	8° 52	8° 28	7° 23	8° 15	4° 51	5° 23	25° 42	19° 11	S 14
S 15	5 35 59	23° 16'29	19° 6	23° 21	26° 35	14° 37	24° 36	8° 59	8° 31	7° 24	8° 14	4° 42	5° 20	25° 48	19° 12	S 15
M 16	5 39 56	24° 17'28	3♌ 7	24° 56	26° 32	14° 17	24° 35	9° 6	8° 34	7° 26	8° 13	4° 32	5° 17	25° 55	19° 13	M 16
T 17	5 43 52	25° 18'28	16° 57	26° 30	26° D 31	13° 57	24° 35	9° 13	8° 36	7° 28	8° 12	4° 20	5° 14	26° 2	19° 14	T 17
W 18	5 47 49	26° 19'28	0♌ 31	28° 5	26° 33	13° 36	24° 34	9° 20	8° 39	7° 30	8° 11	4° 8	5° 11	26° 8	19° 15	W 18
T 19	5 51 45	27° 20'29	13° 47	29° 40	26° 37	13° 14	24° D 34	9° 27	8° 42	7° 32	8° 10	3° 58	5° 7	26° 15	19° 16	T 19
F 20	5 55 42	28° 21'31	26° 43	1♌ 14	26° 44	12° 53	24° 34	9° 34	8° 45	7° 33	8° 8	3° 49	5° 4	26° 22	19° 17	F 20
S 21	5 59 38	29° 22'33	9♌ 19	2° 49	26° 53	12° 30	24° 34	9° 41	8° 48	7° 35	8° 7	3° 44	5° 1	26° 28	19° 18	S 21
S 22	6 3 35	0♌ 23'36	21° 37	4° 25	27° 4	12° 8	24° 35	9° 48	8° 51	7° 37	8° 6	3° 41	4° 58	26° 35	19° 20	S 22
M 23	6 7 31	1° 24'40	3♌ 41	6° 0	27° 17	11° 45	24° 35	9° 55	8° 54	7° 39	8° 5	3° D 40	4° 55	26° 41	19° 21	M 23
T 24	6 11 28	2° 25'45	15° 35	7° 35	27° 33	11° 22	24° 36	10° 2	8° 57	7° 41	8° 4	3° 41	4° 52	26° 48	19° 22	T 24
W 25	6 15 25	3° 26'50	27° 24	9° 11	27° 50	10° 58	24° 37	10° 9	9° 0	7° 43	8° 2	3° 41	4° 48	26° 55	19° 24	W 25
T 26	6 19 21	4° 27'56	9♌ 12	10° 47	28° 10	10° 35	24° 39	10° 16	9° 3	7° 45	8° 1	3° R 41	4° 45	27° 1	19° 25	T 26
F 27	6 23 18	5° 29'03	21° 7	12° 23	28° 32	10° 11	24° 40	10° 23	9° 6	7° 47	8° 0	3° 40	4° 42	27° 8	19° 27	F 27
S 28	6 27 14	6° 30'10	3♌ 13	13° 59	28° 55	9° 47	24° 42	10° 31	9° 9	7° 49	7° 59	3° 36	4° 39	27° 15	19° 28	S 28
S 29	6 31 11	7° 31'18	15° 34	15° 36	29° 20	9° 23	24° 44	10° 38	9° 12	7° 51	7° 57	3° 30	4° 36	27° 21	19° 30	S 29
M 30	6 35 7	8° 32'27	28° 13	17° 12	29° 47	8° 59	24° 46	10° 45	9° 15	7° 53	7° 56	3° 22	4° 32	27° 28	19° 32	M 30
T 31	6 39 4	9♌ 33'36	11♌ 14	18♌ 49	0♌ 16	8♌ 36	24° 47	10♌ 52	9♌ 18	7♌ 55	7♌ 55	3♌ 13	4♌ 29	27♌ 35	19♌ 33	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	21s47	9s53	4n24	20s10	0n15	21s23	0s59	24n37	2n26	8n24	1s26	22s37	0n35	18s52	0s37	18s21
M 2	21 56	13 8	4 49	20 36	0 8	21 1	0 44	24 41	2 29	8 23	1 25	22 37	0 35	18 51	0 37	18 21
T 3	22 5	15 51	5 0	21 0	0 1	20 39	0 28	24 45	2 32	8 22	1 25	22 37	0 35	18 51	0 37	18 20
W 4	22 13	17 48	4 55	21 24	0s 6	20 18	0 13	24 50	2 35	8 21	1 25	22 36	0 35	18 50	0 37	18 20
T 5	22 21	18 50	4 55	21 47	0 13	19 57	0n 2	24 54	2 38	8 20	1 25	22 36	0 35	18 50	0 37	18 20
F 6	22 28	18 49	3 58	22 8	0 20	19 37	0 17	24 59	2 41	8 19	1 24	22 36	0 35	18 49	0 37	18 19
S 7	22 35	17 43	3 8	22 28	0 26	19 17	0 31	25 3	2 44	8 18	1 24	22 35	0 35	18 48	0 37	18 19
S 8	22 42	15 33	2 6	22 48	0 33	18 59	0 45	25 8	2 46	8 18	1 24	22 35	0 35	18 48	0 37	18 18
M 9	22 48	12 29	0 56	23 6	0 39	18 41	0 59	25 13	2 49	8 17	1 23	22 35	0 35	18 47	0 37	18 18
T 10	22 53	8 40	0s18	23 23	0 45	18 24	1 12	25 18	2 52	8 17	1 23	22 34	0 35	18 46	0 37	18 18
W 11	22 59	4 22	1 32	23 38	0 51	18 8	1 25	25 22	2 55	8 16	1 23	22 34	0 35	18 46	0 37	18 17
T 12	23 3	0n12	2 39	23 53	0 57	17 53	1 38	25 27	2 58	8 16	1 22	22 34	0 34	18 45	0 37	18 17
F 13	23 8	4 45	3 38	24 6	1 3	17 39	1 50	25 32	3 1	8 16	1 22	22 33	0 34	18 44	0 37	18 16
S 14	23 11	9 3	4 22	24 18	1 9	17 26	2 1	25 37	3 3	8 16	1 22	22 33	0 34	18 43	0 37	18 16
S 15	23 15	12 49	4 51	24 29	1 14	17 14	2 12	25 42	3 6	8 16	1 22	22 33	0 34	18 43	0 37	18 16
M 16	23 18	15 49	5 2	24 39	1 20	17 3	2 23	25 46	3 8	8 16	1 21	22 32	0 34	18 42	0 37	18 15
T 17	23 20	17 53	4 55	24 47	1 25	16 53	2 33	25 51	3 11	8 16	1 21	22 32	0 34	18 41	0 37	18 15
W 18	23 22	18 54	4 31	24 54	1 30	16 44	2 42	25 56	3 13	8 16	1 21	22 31	0 34	18 41	0 37	18 14
T 19	23 23	18 50	3 53	24 59	1 34	16 36	2 51	26 0	3 16	8 16	1 20	22 31	0 34	18 40	0 37	18 14
F 20	23 24	17 47	3 4	25 3	1 39	16 29	3 0	26 5	3 18	8 16	1 20	22 31	0 34	18 39	0 37	18 13
S 21	23 25	15 53	2 6	25 6	1 43	16 24	3 8	26 9	3 21	8 17	1 20	22 30	0 34	18 38	0 37	18 13
S 22	23 25	13 16	1 4	25 7	1 47	16 19	3 15	26 14	3 23	8 17	1 19	22 30	0 34	18 37	0 37	18 12
M 23	23 24	10 9	0n 0	25 7	1 51	16 15	3 22	26 18	3 25	8 18	1 19	22 29	0 34	18 37	0 37	18 12
T 24	23 24	6 39	1 3	25 6	1 54	16 12	3 29	26 22	3 27	8 18	1 19	22 29	0 33	18 36	0 37	18 11
W 25	23 22	2 56	2 4	25 3	1 57	16 10	3 35	26 26	3 29	8 19	1 18	22 28	0 33	18 35	0 37	18 11
T 26	23 20	0s55	2 59	24 58	2 0	16 8	3 41	26 30	3 31	8 20	1 18	22 28	0 33	18 34	0 37	18 10
F 27	23 18	4 44	3 46	24 52	2 3	16 8	3 46	26 33	3 32	8 20	1 18	22 27	0 33	18 33	0 37	18 10
S 28	23 15	8 25	4 24	24 45	2 5	16 8	3 51	26 37	3 34	8 21	1 17	22 27	0 33	18 33	0 37	18 9
S 29	23 12	11 50	4 51	24 36	2 7	16 9	3 56	26 40	3 36	8 22	1 17	22 26	0 33	18 32	0 37	18 9
M 30	23 8	14 47	5 5	24 26	2 8	16 11	4 0	26 43	3 37	8 23	1 17	22 26	0 33	18 31	0 37	18 8
T 31	23s 4	17s 6	5n 3	24s14	2s 9	16s13	4n 4	26n46	3n38	8n24	1s17	22s25	0n33	18s30	0s37	18s 8

Julian Day Number = 2512144.5, Delta T = 133.26 sec  
Ecliptic obliquity = 23°24'55", Nutation = - 0°00'08", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°03'32", Lahiri = 26°10'32"