



# Astrodienst Ephemeris Tables for the year 2097

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 2097

## geocentric

JANUARY 2097

00:00 UT

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

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s57	20n22	5n 7	21s 9	1n50	12s59	0s53	15s45	0n52	22n35	0n 6	6n20	1n57	1n42	0s42	8n19
W 2	22 51	15 32	5 1	21 22	1 41	12 34	0 47	15 56	0 51	22 36	0 6	6 20	1 57	1 43	0 42	8 19
T 3	22 45	10 4	4 38	21 36	1 32	12 9	0 41	16 7	0 51	22 38	0 6	6 21	1 57	1 43	0 42	8 19
F 4	22 39	4 21	4 2	21 49	1 24	11 44	0 34	16 18	0 50	22 39	0 6	6 21	1 58	1 44	0 42	8 20
S 5	22 32	1s22	3 14	22 1	1 15	11 19	0 27	16 29	0 50	22 40	0 6	6 22	1 58	1 44	0 42	8 20
S 6	22 25	6 53	2 19	22 13	1 6	10 53	0 20	16 39	0 50	22 41	0 7	6 22	1 58	1 45	0 42	8 20
M 7	22 17	12 3	1 19	22 24	0 58	10 28	0 12	16 50	0 49	22 42	0 7	6 23	1 58	1 45	0 42	8 21
T 8	22 9	16 42	0 16	22 35	0 49	10 3	0 5	17 0	0 49	22 43	0 7	6 24	1 59	1 46	0 42	8 21
W 9	22 1	20 41	0s47	22 45	0 41	9 37	0n 3	17 11	0 48	22 44	0 7	6 24	1 59	1 46	0 42	8 21
T 10	21 52	23 49	1 48	22 54	0 32	9 12	0 11	17 21	0 48	22 45	0 7	6 25	1 59	1 47	0 42	8 22
F 11	21 42	25 57	2 44	23 2	0 24	8 47	0 19	17 31	0 47	22 46	0 7	6 26	1 59	1 47	0 42	8 22
S 12	21 33	26 55	3 34	23 9	0 16	8 22	0 28	17 41	0 47	22 47	0 7	6 27	2 0	1 48	0 42	8 22
S 13	21 22	26 36	4 14	23 15	0 8	7 56	0 37	17 51	0 46	22 48	0 8	6 28	2 0	1 49	0 42	8 23
M14	21 12	25 0	4 43	23 19	0s 0	7 31	0 45	18 1	0 46	22 49	0 8	6 29	2 0	1 49	0 42	8 23
T 15	21 1	22 11	4 59	23 23	0 8	7 6	0 55	18 10	0 45	22 50	0 8	6 30	2 0	1 50	0 42	8 24
W16	20 49	18 18	5 1	23 26	0 16	6 42	1 4	18 20	0 44	22 51	0 8	6 31	2 1	1 50	0 42	8 24
T 17	20 37	13 31	4 48	23 28	0 23	6 17	1 14	18 29	0 44	22 52	0 8	6 32	2 1	1 51	0 42	8 25
F 18	20 25	8 5	4 20	23 28	0 30	5 53	1 23	18 38	0 44	22 53	0 8	6 33	2 1	1 52	0 42	8 25
S 19	20 12	2 13	3 38	23 27	0 37	5 28	1 33	18 47	0 43	22 53	0 8	6 34	2 1	1 53	0 41	8 26
S 20	19 59	3n52	2 43	23 25	0 44	5 4	1 44	18 56	0 43	22 54	0 8	6 35	2 2	1 53	0 41	8 26
M21	19 46	9 54	1 38	23 22	0 51	4 41	1 54	19 5	0 42	22 55	0 9	6 36	2 2	1 54	0 41	8 26
T 22	19 32	15 34	0 25	23 17	0 57	4 17	2 5	19 14	0 42	22 56	0 9	6 38	2 2	1 55	0 41	8 27
W23	19 18	20 30	0n50	23 11	1 3	3 54	2 16	19 22	0 41	22 57	0 9	6 39	2 2	1 56	0 41	8 27
T 24	19 4	24 18	2 3	23 4	1 9	3 32	2 27	19 31	0 41	22 58	0 9	6 40	2 3	1 57	0 41	8 28
F 25	18 49	26 32	3 8	22 56	1 15	3 9	2 38	19 39	0 40	22 58	0 9	6 41	2 3	1 57	0 41	8 28
S 26	18 34	26 56	4 2	22 46	1 20	2 47	2 50	19 47	0 40	22 59	0 9	6 43	2 3	1 58	0 41	8 29
S 27	18 18	25 24	4 40	22 35	1 25	2 26	3 1	19 55	0 39	23 0	0 9	6 44	2 3	1 59	0 41	8 30
M28	18 2	22 11	4 58	22 22	1 30	2 5	3 13	20 3	0 38	23 1	0 9	6 46	2 4	2 0	0 41	8 30
T 29	17 46	17 40	4 58	22 8	1 35	1 44	3 25	20 11	0 38	23 1	0 10	6 47	2 4	2 1	0 41	8 31
W30	17 30	12 17	4 39	21 53	1 39	1 24	3 38	20 18	0 37	23 2	0 10	6 49	2 4	2 2	0 41	8 31
T 31	17s13	6n28	4n 5	21s36	1s43	1s 5	3n50	20s26	0n36	23n 3	0n10	6n50	2n 4	2n 3	0s41	8n32

Julian Day Number = 2486974.5, Delta T = 91.81 sec  
 Ecliptic obliquity = 23°25'42, Nutation = - 0°00'12, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 26°05'44, Lahiri = 25°12'45

# ASTRODIENST EPHEMERIS for the year 2097

## geocentric

FEBRUARY 2097

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 48 1	12 <sup>53</sup> 52	6 <sup>16</sup> 16	2 <sup>35</sup> 35	18 <sup>38</sup> 38	5 <sup>7</sup> 7	11 <sup>57</sup> 57	17 <sup>28</sup> 28	6 <sup>47</sup> 47	10 <sup>4</sup> 4	29 <sup>30</sup> 30	17 <sup>18</sup> 18	17 <sup>17</sup> 17	13 <sup>40</sup> 40	17 <sup>22</sup> 22	F 1
S 2	8 51 58	13 <sup>54</sup> 45	18 <sup>59</sup> 59	4 <sup>12</sup> 12	18 <sup>54</sup> 54	5 <sup>44</sup> 44	11 <sup>51</sup> 51	17 <sup>24</sup> 24	6 <sup>49</sup> 49	10 <sup>2</sup> 2	29 <sup>31</sup> 31	17 <sup>14</sup> 14	17 <sup>13</sup> 13	13 <sup>47</sup> 47	17 <sup>22</sup> 22	S 2
S 3	8 55 55	14 <sup>55</sup> 38	1 <sup>20</sup> 20	5 <sup>49</sup> 49	19 <sup>8</sup> 8	6 <sup>21</sup> 21	11 <sup>45</sup> 45	17 <sup>21</sup> 21	6 <sup>51</sup> 51	10 <sup>1</sup> 1	29 <sup>31</sup> 31	17 <sup>12</sup> 12	17 <sup>10</sup> 10	13 <sup>54</sup> 54	17 <sup>21</sup> 21	S 3
M 4	8 59 51	15 <sup>56</sup> 29	13 <sup>24</sup> 24	7 <sup>28</sup> 28	19 <sup>20</sup> 20	6 <sup>57</sup> 57	11 <sup>40</sup> 40	17 <sup>17</sup> 17	6 <sup>54</sup> 54	9 <sup>59</sup> 59	29 <sup>32</sup> 32	17 <sup>12</sup> 12	17 <sup>7</sup> 7	14 <sup>0</sup> 0	17 <sup>21</sup> 21	M 4
T 5	9 3 48	16 <sup>57</sup> 20	25 <sup>18</sup> 18	9 <sup>7</sup> 7	19 <sup>29</sup> 29	7 <sup>34</sup> 34	11 <sup>34</sup> 34	17 <sup>13</sup> 13	6 <sup>56</sup> 56	9 <sup>58</sup> 58	29 <sup>32</sup> 32	17 <sup>12</sup> 12	17 <sup>4</sup> 4	14 <sup>7</sup> 7	17 <sup>20</sup> 20	T 5
W 6	9 7 44	17 <sup>58</sup> 11	7 <sup>6</sup> 6	10 <sup>47</sup> 47	19 <sup>37</sup> 37	8 <sup>11</sup> 11	11 <sup>29</sup> 29	17 <sup>10</sup> 10	6 <sup>59</sup> 59	9 <sup>56</sup> 56	29 <sup>33</sup> 33	17 <sup>11</sup> 11	17 <sup>1</sup> 1	14 <sup>14</sup> 14	17 <sup>19</sup> 19	W 6
T 7	9 11 41	18 <sup>59</sup> 00	18 <sup>53</sup> 53	12 <sup>27</sup> 27	19 <sup>42</sup> 42	8 <sup>48</sup> 48	11 <sup>24</sup> 24	17 <sup>6</sup> 6	7 <sup>1</sup> 1	9 <sup>55</sup> 55	29 <sup>33</sup> 33	17 <sup>8</sup> 8	16 <sup>58</sup> 58	14 <sup>20</sup> 20	17 <sup>19</sup> 19	T 7
F 8	9 15 37	19 <sup>59</sup> 48	0 <sup>34</sup> 34	14 <sup>8</sup> 8	19 <sup>44</sup> 44	9 <sup>25</sup> 25	11 <sup>19</sup> 19	17 <sup>2</sup> 2	7 <sup>4</sup> 4	9 <sup>53</sup> 53	29 <sup>34</sup> 34	17 <sup>3</sup> 3	16 <sup>54</sup> 54	14 <sup>27</sup> 27	17 <sup>18</sup> 18	F 8
S 9	9 19 34	21 <sup>0</sup> 35	12 <sup>47</sup> 47	15 <sup>51</sup> 51	19 <sup>45</sup> 45	10 <sup>2</sup> 2	11 <sup>14</sup> 14	16 <sup>58</sup> 58	7 <sup>6</sup> 6	9 <sup>52</sup> 52	29 <sup>35</sup> 35	16 <sup>54</sup> 54	16 <sup>51</sup> 51	14 <sup>34</sup> 34	17 <sup>17</sup> 17	S 9
S 10	9 23 30	22 <sup>1</sup> 22	25 <sup>1</sup> 1	17 <sup>34</sup> 34	19 <sup>43</sup> 43	10 <sup>38</sup> 38	11 <sup>10</sup> 10	16 <sup>54</sup> 54	7 <sup>9</sup> 9	9 <sup>50</sup> 50	29 <sup>35</sup> 35	16 <sup>43</sup> 43	16 <sup>48</sup> 48	14 <sup>40</sup> 40	17 <sup>15</sup> 15	S 10
M 11	9 27 27	23 <sup>2</sup> 07	7 <sup>28</sup> 28	19 <sup>17</sup> 17	19 <sup>38</sup> 38	11 <sup>15</sup> 15	11 <sup>5</sup> 5	16 <sup>49</sup> 49	7 <sup>12</sup> 12	9 <sup>49</sup> 49	29 <sup>36</sup> 36	16 <sup>30</sup> 30	16 <sup>45</sup> 45	14 <sup>47</sup> 47	17 <sup>14</sup> 14	M 11
T 12	9 31 24	24 <sup>2</sup> 50	20 <sup>10</sup> 10	21 <sup>2</sup> 2	19 <sup>31</sup> 31	11 <sup>52</sup> 52	11 <sup>1</sup> 1	16 <sup>45</sup> 45	7 <sup>14</sup> 14	9 <sup>47</sup> 47	29 <sup>37</sup> 37	16 <sup>16</sup> 16	16 <sup>42</sup> 42	14 <sup>54</sup> 54	17 <sup>13</sup> 13	T 12
W 13	9 35 20	25 <sup>3</sup> 33	3 <sup>7</sup> 7	22 <sup>47</sup> 47	19 <sup>21</sup> 21	12 <sup>28</sup> 28	10 <sup>57</sup> 57	16 <sup>41</sup> 41	7 <sup>17</sup> 17	9 <sup>45</sup> 45	29 <sup>37</sup> 37	16 <sup>2</sup> 2	16 <sup>38</sup> 38	15 <sup>0</sup> 0	17 <sup>11</sup> 11	W 13
T 14	9 39 17	26 <sup>4</sup> 13	16 <sup>17</sup> 17	24 <sup>33</sup> 33	19 <sup>9</sup> 9	13 <sup>5</sup> 5	10 <sup>53</sup> 53	16 <sup>37</sup> 37	7 <sup>20</sup> 20	9 <sup>44</sup> 44	29 <sup>38</sup> 38	15 <sup>50</sup> 50	16 <sup>35</sup> 35	15 <sup>7</sup> 7	17 <sup>9</sup> 9	T 14
F 15	9 43 13	27 <sup>4</sup> 53	29 <sup>38</sup> 38	26 <sup>20</sup> 20	18 <sup>54</sup> 54	13 <sup>41</sup> 41	10 <sup>49</sup> 49	16 <sup>32</sup> 32	7 <sup>22</sup> 22	9 <sup>42</sup> 42	29 <sup>39</sup> 39	15 <sup>41</sup> 41	16 <sup>32</sup> 32	15 <sup>14</sup> 14	17 <sup>7</sup> 7	F 15
S 16	9 47 10	28 <sup>5</sup> 30	13 <sup>9</sup> 9	28 <sup>8</sup> 8	18 <sup>37</sup> 37	14 <sup>18</sup> 18	10 <sup>46</sup> 46	16 <sup>28</sup> 28	7 <sup>25</sup> 25	9 <sup>41</sup> 41	29 <sup>39</sup> 39	15 <sup>34</sup> 34	16 <sup>29</sup> 29	15 <sup>20</sup> 20	17 <sup>6</sup> 6	S 16
S 17	9 51 6	29 <sup>6</sup> 07	26 <sup>49</sup> 49	29 <sup>57</sup> 57	18 <sup>17</sup> 17	14 <sup>54</sup> 54	10 <sup>43</sup> 43	16 <sup>24</sup> 24	7 <sup>28</sup> 28	9 <sup>39</sup> 39	29 <sup>40</sup> 40	15 <sup>31</sup> 31	16 <sup>26</sup> 26	15 <sup>27</sup> 27	17 <sup>4</sup> 4	S 17
M 18	9 55 3	0 <sup>6</sup> 41	10 <sup>36</sup> 36	1 <sup>46</sup> 46	17 <sup>55</sup> 55	15 <sup>31</sup> 31	10 <sup>40</sup> 40	16 <sup>19</sup> 19	7 <sup>31</sup> 31	9 <sup>37</sup> 37	29 <sup>41</sup> 41	15 <sup>D30</sup> D30	16 <sup>23</sup> 23	15 <sup>34</sup> 34	17 <sup>1</sup> 1	M 18
T 19	9 58 59	1 <sup>7</sup> 14	24 <sup>32</sup> 32	3 <sup>36</sup> 36	17 <sup>31</sup> 31	16 <sup>7</sup> 7	10 <sup>37</sup> 37	16 <sup>15</sup> 15	7 <sup>34</sup> 34	9 <sup>36</sup> 36	29 <sup>42</sup> 42	15 <sup>R30</sup> R30	16 <sup>19</sup> 19	15 <sup>40</sup> 40	16 <sup>59</sup> 59	T 19
W 20	10 2 56	2 <sup>7</sup> 44	8 <sup>35</sup> 35	5 <sup>27</sup> 27	17 <sup>4</sup> 4	16 <sup>44</sup> 44	10 <sup>34</sup> 34	16 <sup>10</sup> 10	7 <sup>37</sup> 37	9 <sup>34</sup> 34	29 <sup>42</sup> 42	15 <sup>30</sup> 30	16 <sup>16</sup> 16	15 <sup>47</sup> 47	16 <sup>57</sup> 57	W 20
T 21	10 6 53	3 <sup>8</sup> 13	22 <sup>46</sup> 46	7 <sup>19</sup> 19	16 <sup>36</sup> 36	17 <sup>20</sup> 20	10 <sup>31</sup> 31	16 <sup>5</sup> 5	7 <sup>40</sup> 40	9 <sup>32</sup> 32	29 <sup>43</sup> 43	15 <sup>28</sup> 28	16 <sup>13</sup> 13	15 <sup>54</sup> 54	16 <sup>55</sup> 55	T 21
F 22	10 10 49	4 <sup>8</sup> 41	7 <sup>5</sup> 5	9 <sup>11</sup> 11	16 <sup>6</sup> 6	17 <sup>56</sup> 56	10 <sup>29</sup> 29	16 <sup>1</sup> 1	7 <sup>43</sup> 43	9 <sup>31</sup> 31	29 <sup>44</sup> 44	15 <sup>24</sup> 24	16 <sup>10</sup> 10	16 <sup>0</sup> 0	16 <sup>52</sup> 52	F 22
S 23	10 14 46	5 <sup>9</sup> 06	21 <sup>21</sup> 21	11 <sup>3</sup> 3	15 <sup>34</sup> 34	18 <sup>32</sup> 32	10 <sup>27</sup> 27	15 <sup>56</sup> 56	7 <sup>46</sup> 46	9 <sup>29</sup> 29	29 <sup>45</sup> 45	15 <sup>18</sup> 18	16 <sup>7</sup> 7	16 <sup>7</sup> 7	16 <sup>49</sup> 49	S 23
S 24	10 18 42	6 <sup>9</sup> 29	5 <sup>40</sup> 40	12 <sup>56</sup> 56	15 <sup>0</sup> 0	19 <sup>9</sup> 9	10 <sup>25</sup> 25	15 <sup>52</sup> 52	7 <sup>49</sup> 49	9 <sup>27</sup> 27	29 <sup>46</sup> 46	15 <sup>9</sup> 9	16 <sup>4</sup> 4	16 <sup>14</sup> 14	16 <sup>47</sup> 47	S 24
M 25	10 22 39	7 <sup>9</sup> 51	19 <sup>51</sup> 51	14 <sup>49</sup> 49	14 <sup>26</sup> 26	19 <sup>45</sup> 45	10 <sup>23</sup> 23	15 <sup>47</sup> 47	7 <sup>52</sup> 52	9 <sup>26</sup> 26	29 <sup>47</sup> 47	14 <sup>58</sup> 58	16 <sup>0</sup> 0	16 <sup>20</sup> 20	16 <sup>44</sup> 44	M 25
T 26	10 26 35	8 <sup>10</sup> 10	3 <sup>52</sup> 52	16 <sup>42</sup> 42	13 <sup>50</sup> 50	20 <sup>21</sup> 21	10 <sup>22</sup> 22	15 <sup>42</sup> 42	7 <sup>55</sup> 55	9 <sup>24</sup> 24	29 <sup>48</sup> 48	14 <sup>47</sup> 47	15 <sup>57</sup> 57	16 <sup>27</sup> 27	16 <sup>41</sup> 41	T 26
W 27	10 30 32	9 <sup>10</sup> 28	17 <sup>35</sup> 35	18 <sup>35</sup> 35	13 <sup>13</sup> 13	20 <sup>57</sup> 57	10 <sup>20</sup> 20	15 <sup>37</sup> 37	7 <sup>58</sup> 58	9 <sup>22</sup> 22	29 <sup>49</sup> 49	14 <sup>36</sup> 36	15 <sup>54</sup> 54	16 <sup>34</sup> 34	16 <sup>38</sup> 38	W 27
T 28	10 34 28	10 <sup>10</sup> 45	0 <sup>59</sup> 59	20 <sup>38</sup> 38	12 <sup>36</sup> 36	21 <sup>33</sup> 33	10 <sup>19</sup> 19	15 <sup>33</sup> 33	8 <sup>1</sup> 1	9 <sup>21</sup> 21	29 <sup>50</sup> 50	14 <sup>27</sup> 27	15 <sup>51</sup> 51	16 <sup>34</sup> 34	16 <sup>35</sup> 35	T 28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	16s56	0n33	3n18	21s18	1s47	0s46	4n 3	20s33	0n36	23n 3	0n10	6n52	2n 4	2n 4	0s41	8n32
S 2	16 39	5s13	2 23	20 59	1 50	0 28	4 15	20 40	0 35	23 4	0 10	6 53	2 5	2 5	0 41	8 33
S 3	16 21	10 38	1 23	20 38	1 53	0 11	4 28	20 47	0 35	23 5	0 10	6 55	2 5	2 6	0 41	8 33
M 4	16 3	15 32	0 20	20 16	1 56	0n 5	4 41	20 54	0 34	23 5	0 10	6 56	2 5	2 7	0 41	8 34
T 5	15 45	19 46	0s43	19 53	1 59	0 21	4 54	21 1	0 33	23 6	0 10	6 58	2 5	2 8	0 41	8 35
W 6	15 26	23 11	1 43	19 28	2 1	0 36	5 7	21 8	0 33	23 6	0 10	7 0	2 5	2 9	0 41	8 35
T 7	15 8	25 37	2 39	19 1	2 2	0 50	5 20	21 14	0 32	23 7	0 11	7 1	2 6	2 10	0 41	8 36
F 8	14 49	26 54	3 29	18 33	2 4	1 3	5 34	21 20	0 31	23 7	0 11	7 3	2 6	2 11	0 41	8 36
S 9	14 29	26 57	4 9	18 4	2 5	1 15	5 47	21 26	0 30	23 8	0 11	7 5	2 6	2 12	0 41	8 37
S 10	14 10	25 42	4 39	17 33	2 5	1 27	6 0	21 32	0 30	23 8	0 11	7 7	2 6	2 13	0 41	8 38
M 11	13 50	23 10	4 56	17 1	2 6	1 37	6 13	21 38	0 29	23 9	0 11	7 8	2 6	2 14	0 41	8 38
T 12	13 30	19 29	4 59	16 28	2 5	1 46	6 25	21 44	0 28	23 9	0 11	7 10	2 6	2 15	0 41	8 39
W 13	13 10	14 49	4 47	15 53	2 5	1 53	6 38	21 50	0 27	23 10	0 11	7 12	2 7	2 16	0 41	8 39
T 14	12 49	9 24	4 19	15 16	2 3	2 0	6 50	21 55	0 27	23 10	0 11	7 14	2 7	2 17	0 41	8 40
F 15	12 29	3 28	3 37	14 38	2 2	2 5	7 2	22 0	0 26	23 11	0 11	7 16	2 7	2 18	0 41	8 41
S 16	12 8	2n42	2 42	13 59	2 0	2 9	7 14	22 5	0 25	23 11	0 12	7 17	2 7	2 19	0 41	8 41
S 17	11 47	8 49	1 37	13 19	1 57	2 12	7 25	22 10	0 24	23 11	0 12	7 19	2 7	2 20	0 41	8 42
M 18	11 26	14 35	0 26	12 37	1 54	2 14	7 36	22 15	0 24	23 12	0 12	7 21	2 7	2 22	0 41	8 43
T 19	11 4	19 40	0n48	11 54	1 50	2 14	7 47	22 20	0 23	23 12	0 12	7 23	2 7	2 23	0 41	8 43
W 20	10 43	23 41	1 59	11 9	1 46	2 13	7 56	22 24	0 22	23 12	0 12	7 25	2 8	2 24	0 41	8 44
T 21	10 21	26 18	3 4	10 23	1 41	2 10	8 5	22 29	0 21	23 13	0 12	7 27	2 8	2 25	0 40	8 45
F 22	9 59	27 12	3 58	9 36	1 36	2 6	8 14	22 33	0 20	23 13	0 12	7 29	2 8	2 26	0 40	8 45
S 23	9 37	26 17	4 37	8 48	1 30	2 1	8 21	22 37	0 19	23 13	0 12	7 31	2 8	2 28	0 40	8 46
S 24	9 15	23 40	4 58	7 59	1 23	1 55	8 28	22 41	0 18	23 13	0 12	7 33	2 8	2 29	0 40	8 46
M 25	8 53	19 37	5 1	7 9	1 16	1 47	8 34	22 45	0 17	23 14	0 12	7 34	2 8	2 30	0 40	8 47
T 26	8 30	14 31	4 46	6 17	1 8	1 38	8 39	22 48	0 17	23 14	0 12	7 36	2 8	2 31	0 40	8 48
W 27	8 8	8 48	4 14	5 26	1 0	1 28	8 43	22 52	0 16	23 14	0 13	7 38	2 8	2 32	0 40	8 48
T 28	7s45	2n48	3n29	4s33	0s51	1n17	8n47	22s55	0n15	23n14	0n13	7n40	2n 8	2n34	0s40	8n49

Jul

ASTRODIENST EPHEMERIS for the year 2097  
geocentric

MARCH 2097

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 38 25	11°11'59"	14°11'59"	22°11'59"	11°R58	22°11'59"	10°R18	15°R28	8°V 4	9°R19	29°V51	14°R21	15°R48	16°R47	16°R32	F 1
S 2	10 42 22	12°11'12"	26°42'	24°11'	11°R20	22°45'	10°R17	15°R23	8° 7	9°R17	29°52'	14°R17	15°44'	16°54'	16°R29	S 2
S 3	10 46 18	13°11'24"	9°M 4	26° 1	10°43'	23°20'	10°17'	15°18'	8°10'	9°16'	29°53'	14°D15	15°41'	17° 0	16°25'	S 3
M 4	10 50 15	14°11'34"	21°11'	27°49'	10° 6	23°56'	10°16'	15°13'	8°14'	9°14'	29°54'	14°15'	15°38'	17° 7	16°22'	M 4
T 5	10 54 11	15°11'42"	3°M 6	29°34'	9°30'	24°32'	10°D16	15° 9	8°17'	9°12'	29°55'	14°16'	15°35'	17°14'	16°18'	T 5
W 6	10 58 8	16°11'49"	14°56'	1°V18	8°54'	25° 8	10°16'	15° 4	8°20'	9°11'	29°56'	14°R17	15°32'	17°20'	16°15'	W 6
T 7	11 2 4	17°11'54"	26°45'	2°58'	8°20'	25°43'	10°16'	14°59'	8°23'	9° 9	29°57'	14°16'	15°29'	17°27'	16°11'	T 7
F 8	11 6 1	18°11'58"	8°R40	4°34'	7°47'	26°19'	10°17'	14°54'	8°27'	9° 7	29°58'	14°14'	15°25'	17°34'	16° 7	F 8
S 9	11 9 57	19°12'00"	20°44'	6° 7	7°16'	26°54'	10°17'	14°50'	8°30'	9° 6	29°59'	14° 9	15°22'	17°40'	16° 3	S 9
S 10	11 13 54	20°12'01"	3°M 3	7°34'	6°47'	27°30'	10°18'	14°45'	8°33'	9° 4	29°59'	14° 2	15°19'	17°47'	16° 0	S 10
M 11	11 17 51	21°12'00"	15°38'	8°56'	6°19'	28° 5	10°19'	14°40'	8°36'	9° 2	0° 1	13°54'	15°16'	17°54'	15°56'	M 11
T 12	11 21 47	22°11'57"	28°32'	10°13'	5°54'	28°41'	10°20'	14°35'	8°40'	9° 1	0° 2	13°44'	15°13'	18° 0	15°52'	T 12
W 13	11 25 44	23°11'52"	11°R45	11°23'	5°30'	29°16'	10°22'	14°31'	8°43'	8°59'	0° 3	13°35'	15° 9	18° 7	15°48'	W 13
T 14	11 29 40	24°11'45"	25°16'	12°26'	5° 9	29°51'	10°23'	14°26'	8°46'	8°57'	0° 4	13°27'	15° 6	18°14'	15°43'	T 14
F 15	11 33 37	25°11'36"	9°V 2	13°23'	4°50'	0°R26	10°25'	14°21'	8°50'	8°56'	0° 6	13°20'	15° 3	18°20'	15°39'	F 15
S 16	11 37 33	26°11'26"	22°59'	14°11'	4°34'	1° 1	10°27'	14°16'	8°53'	8°54'	0° 7	13°16'	15° 0	18°27'	15°35'	S 16
S 17	11 41 30	27°11'13"	7°R 4	14°52'	4°20'	1°36'	10°29'	14°12'	8°57'	8°53'	0° 8	13°D14	14°57'	18°34'	15°31'	S 17
M 18	11 45 26	28°10'58"	21°14'	15°25'	4° 8	2°11'	10°32'	14° 7	9° 0	8°51'	0° 9	13°15'	14°54'	18°40'	15°26'	M 18
T 19	11 49 23	29°10'41"	5°M25	15°50'	3°59'	2°46'	10°34'	14° 3	9° 3	8°50'	0°10'	13°16'	14°50'	18°47'	15°22'	T 19
W 20	11 53 19	0°V10'22"	19°36'	16° 6	3°53'	3°21'	10°37'	13°58'	9° 7	8°48'	0°12'	13°17'	14°47'	18°54'	15°17'	W 20
T 21	11 57 16	1°10'00"	3°R45	16°R14	3°48'	3°55'	10°40'	13°54'	9°10'	8°47'	0°13'	13°R17	14°44'	19° 0	15°13'	T 21
F 22	12 1 13	2° 9'36"	17°50'	16°14'	3°D47	4°30'	10°43'	13°49'	9°13'	8°45'	0°14'	13°16'	14°41'	19° 7	15° 8	F 22
S 23	12 5 9	3° 9'10"	1°R50	16° 6	3°47'	5° 4	10°46'	13°45'	9°17'	8°44'	0°15'	13°13'	14°38'	19°14'	15° 4	S 23
S 24	12 9 6	4° 8'42"	15°43'	15°50'	3°50'	5°39'	10°50'	13°41'	9°20'	8°42'	0°17'	13° 9	14°35'	19°20'	14°59'	S 24
M 25	12 13 2	5° 8'11"	29°27'	15°27'	3°55'	6°13'	10°53'	13°36'	9°24'	8°41'	0°18'	13° 3	14°31'	19°27'	14°55'	M 25
T 26	12 16 59	6° 7'37"	12°M59	14°58'	4° 3	6°47'	10°57'	13°32'	9°27'	8°39'	0°19'	12°56'	14°28'	19°34'	14°50'	T 26
W 27	12 20 55	7° 7'02"	26°18'	14°23'	4°13'	7°21'	11° 1	13°28'	9°31'	8°38'	0°20'	12°51'	14°25'	19°40'	14°45'	W 27
T 28	12 24 52	8° 6'25"	9°R21	13°43'	4°25'	7°55'	11° 5	13°24'	9°34'	8°36'	0°22'	12°46'	14°22'	19°47'	14°41'	T 28
F 29	12 28 48	9° 5'45"	22° 8	12°59'	4°39'	8°29'	11°10'	13°20'	9°37'	8°35'	0°23'	12°42'	14°19'	19°54'	14°36'	F 29
S 30	12 32 45	10° 5'04"	4°M39	12°12'	4°55'	9° 3	11°14'	13°16'	9°41'	8°33'	0°24'	12°40'	14°15'	20° 0	14°31'	S 30
S 31	12 36 42	11°V 4'21"	16°M56	11°V22	5°R13	9°R37	11°R19	13°M12	9°V44	8°M32	0°R26	12°D40	14°R12	20°R 7	14°R27	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	7s22	3s10	2n34	3s40	0s41	1n 5	8n49	22s58	0n14	23n14	0n13	7n42	2n 9	2n35	0s40	8n50
S 2	6 59	8 51	1 32	2 47	0 31	0 52	8 50	23 1	0 13	23 15	0 13	7 44	2 9	2 36	0 40	8 50
S 3	6 36	14 5	0 28	1 53	0 20	0 38	8 50	23 4	0 12	23 15	0 13	7 46	2 9	2 37	0 40	8 51
M 4	6 13	18 38	0s37	1 0	0 8	0 24	8 49	23 7	0 11	23 15	0 13	7 48	2 9	2 39	0 40	8 52
T 5	5 50	22 23	1 39	0 7	0n 4	0 9	8 48	23 9	0 10	23 15	0 13	7 50	2 9	2 40	0 40	8 52
W 6	5 27	25 10	2 37	0n46	0 16	0s 7	8 45	23 12	0 9	23 15	0 13	7 52	2 9	2 41	0 40	8 53
T 7	5 3	26 51	3 27	1 37	0 29	0 22	8 41	23 14	0 8	23 15	0 13	7 54	2 9	2 43	0 40	8 53
F 8	4 40	27 18	4 10	2 27	0 42	0 39	8 37	23 16	0 7	23 15	0 13	7 56	2 9	2 44	0 40	8 54
S 9	4 16	26 28	4 41	3 16	0 55	0 55	8 31	23 18	0 6	23 15	0 13	7 58	2 9	2 45	0 40	8 55
S 10	3 53	24 20	5 0	4 3	1 9	1 11	8 25	23 20	0 4	23 15	0 13	7 59	2 9	2 46	0 40	8 55
M 11	3 29	21 0	5 6	4 48	1 22	1 28	8 18	23 22	0 3	23 15	0 14	8 1	2 9	2 48	0 40	8 56
T 12	3 6	16 36	4 56	5 31	1 36	1 44	8 11	23 23	0 2	23 15	0 14	8 3	2 9	2 49	0 40	8 57
W 13	2 42	11 19	4 30	6 10	1 49	2 0	8 2	23 24	0 1	23 15	0 14	8 5	2 9	2 50	0 40	8 57
T 14	2 18	5 23	3 49	6 47	2 2	2 16	7 54	23 26	0s 0	23 15	0 14	8 7	2 9	2 52	0 40	8 58
F 15	1 55	0n55	2 54	7 21	2 15	2 31	7 44	23 27	0 1	23 15	0 14	8 9	2 9	2 53	0 40	8 58
S 16	1 31	7 16	1 47	7 51	2 27	2 46	7 34	23 28	0 2	23 15	0 14	8 11	2 9	2 54	0 40	8 59
S 17	1 7	13 20	0 33	8 17	2 38	3 1	7 24	23 29	0 4	23 15	0 14	8 12	2 9	2 56	0 40	9 0
M 18	0 43	18 45	0n43	8 39	2 48	3 15	7 14	23 29	0 5	23 15	0 14	8 14	2 9	2 57	0 40	9 0
T 19	0 20	23 7	1 57	8 58	2 58	3 28	7 3	23 30	0 6	23 15	0 14	8 16	2 9	2 58	0 40	9 1
W 20	0n 4	26 5	3 4	9 12	3 6	3 41	6 52	23 31	0 7	23 14	0 14	8 18	2 9	3 0	0 40	9 1
T 21	0 28	27 22	3 59	9 21	3 14	3 53	6 40	23 31	0 9	23 14	0 14	8 19	2 9	3 1	0 40	9 2
F 22	0 52	26 52	4 40	9 27	3 19	4 4	6 29	23 31	0 10	23 14	0 14	8 21	2 9	3 2	0 40	9 2
S 23	1 15	24 41	5 4	9 28	3 24	4 15	6 17	23 31	0 11	23 14	0 14	8 23	2 9	3 4	0 40	9 3
S 24	1 39	21 2	5 10	9 24	3 26	4 25	6 5	23 31	0 13	23 14	0 15	8 24	2 9	3 5	0 40	9 4
M 25	2 2	16 18	4 57	9 16	3 27	4 34	5 54	23 31	0 14	23 13	0 15	8 26	2 9	3 7	0 40	9 4
T 26	2 26	10 49	4 29	9 4	3 27	4 43	5 42	23 31	0 15	23 13	0 15	8 28	2 9	3 8	0 40	9 5
W 27	2 49	4 56	3 46	8 48	3 24	4 50	5 30	23 30	0 17	23 13	0 15	8 29	2 9	3 9	0 40	9 5
T 28	3 13	1s 4	2 52	8 29	3 20	4 57	5 18	23 30	0 18	23 13	0 15	8 31	2 9	3 11	0 40	9 6
F 29	3 36	6 55	1 50	8 6	3 14	5 3	5 6	23 29	0 20	23 12	0 15	8 32	2 9	3 12	0 40	9 6
S 30	4 0	12 23	0 44	7 40	3 6	5 8	4 54	23 28	0 21	23 12	0 15	8 34	2 9	3 13	0 40	9 7
S 31	4n23	17s16	0s23	7n12	2n57	5s13	4n42	23s27	0s23	23n12	0n15	8n35	2n 9	3n15	0s40	9n 7

Julian Day Number = 2487033.5, Delta T = 91.89 sec  
Ecliptic obliquity = 23°25'43", Nutation = - 0°00'11", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°05'52", Lahiri = 25°12'53"

ASTRODIENST EPHEMERIS for the year 2097  
geocentric

APRIL 2097

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 40 38	12°36' 36"	29°00' 00"	10°R32	5°33' 33"	10°31' 11"	11°24' 24"	13°R 8	9°48' 48"	8°R31	0°27' 27"	12°R41	14°R 9	20°14' 14"	14°R22	M 1
T 2	12 44 35	13° 2' 49"	10°15' 56"	9°41' 41"	5°55' 55"	10°44' 44"	11°29' 29"	13°R 4	9°51' 51"	8°R29	0°28' 28"	12°43' 43"	14° 6' 6"	20°20' 20"	14°17' 17"	T 2
W 3	12 48 31	14° 2' 00"	22°46' 46"	8°52' 52"	6°18' 18"	11°18' 18"	11°34' 34"	13° 0' 0"	9°55' 55"	8°28' 28"	0°30' 30"	12°45' 45"	14° 3' 3"	20°27' 27"	14°12' 12"	W 3
T 4	12 52 28	15° 1' 10"	4°37' 37"	8° 4' 4"	6°43' 43"	11°51' 51"	11°39' 39"	12°56' 56"	9°58' 58"	8°27' 27"	0°31' 31"	12°46' 46"	14° 0' 0"	20°34' 34"	14° 8' 8"	T 4
F 5	12 56 24	16° 0' 18"	16°32' 32"	7°20' 20"	7°10' 10"	12°25' 25"	11°45' 45"	12°53' 53"	10° 1' 1"	8°26' 26"	0°32' 32"	12°R46	13°56' 56"	20°40' 40"	14° 3' 3"	F 5
S 6	13 0 21	16°59' 24"	28°36' 36"	6°38' 38"	7°39' 39"	12°58' 58"	11°50' 50"	12°49' 49"	10° 5' 5"	8°24' 24"	0°34' 34"	12°46' 46"	13°53' 53"	20°47' 47"	13°58' 58"	S 6
S 7	13 4 17	17°58' 28"	10°55' 55"	6° 0' 0"	8° 9' 9"	13°31' 31"	11°56' 56"	12°46' 46"	10° 8' 8"	8°23' 23"	0°35' 35"	12°44' 44"	13°50' 50"	20°54' 54"	13°53' 53"	S 7
M 8	13 8 14	18°57' 30"	23°32' 32"	5°27' 27"	8°41' 41"	14° 4' 4"	12° 2' 2"	12°42' 42"	10°12' 12"	8°22' 22"	0°36' 36"	12°41' 41"	13°47' 47"	21° 0' 0"	13°49' 49"	M 8
T 9	13 12 11	19°56' 31"	6°30' 30"	4°59' 59"	9°14' 14"	14°36' 36"	12° 8' 8"	12°39' 39"	10°15' 15"	8°21' 21"	0°38' 38"	12°38' 38"	13°44' 44"	21° 7' 7"	13°44' 44"	T 9
W10	13 16 7	20°55' 30"	19°51' 51"	4°36' 36"	9°48' 48"	15° 9' 9"	12°14' 14"	12°36' 36"	10°18' 18"	8°20' 20"	0°39' 39"	12°35' 35"	13°41' 41"	21°14' 14"	13°39' 39"	W10
T 11	13 20 4	21°54' 26"	3°35' 35"	4°19' 19"	10°24' 24"	15°42' 42"	12°21' 21"	12°33' 33"	10°22' 22"	8°18' 18"	0°41' 41"	12°32' 32"	13°37' 37"	21°20' 20"	13°35' 35"	T 11
F 12	13 24 0	22°53' 21"	17°39' 39"	4° 6' 6"	11° 1' 1"	16°14' 14"	12°27' 27"	12°30' 30"	10°25' 25"	8°17' 17"	0°42' 42"	12°30' 30"	13°34' 34"	21°27' 27"	13°30' 30"	F 12
S 13	13 27 57	23°52' 14"	2° 0' 0"	3°59' 59"	11°39' 39"	16°46' 46"	12°34' 34"	12°27' 27"	10°29' 29"	8°16' 16"	0°43' 43"	12°28' 28"	13°31' 31"	21°34' 34"	13°25' 25"	S 13
S 14	13 31 53	24°51' 06"	16°31' 31"	3°D58	12°18' 18"	17°18' 18"	12°41' 41"	12°24' 24"	10°32' 32"	8°15' 15"	0°45' 45"	12°D28	13°28' 28"	21°40' 40"	13°21' 21"	S 14
M15	13 35 50	25°49' 55"	1°11' 11"	4° 1' 1"	12°58' 58"	17°50' 50"	12°48' 48"	12°21' 21"	10°35' 35"	8°14' 14"	0°46' 46"	12°29' 29"	13°25' 25"	21°47' 47"	13°16' 16"	M15
T 16	13 39 46	26°48' 42"	15°44' 44"	4°10' 10"	13°40' 40"	18°22' 22"	12°55' 55"	12°18' 18"	10°39' 39"	8°13' 13"	0°47' 47"	12°30' 30"	13°21' 21"	21°54' 54"	13°12' 12"	T 16
W17	13 43 43	27°47' 26"	0°31' 31"	4°24' 24"	14°22' 22"	18°54' 54"	13° 2' 2"	12°15' 15"	10°42' 42"	8°12' 12"	0°49' 49"	12°31' 31"	13°18' 18"	22° 0' 0"	13° 7' 7"	W17
T 18	13 47 40	28°46' 09"	14°34' 34"	4°42' 42"	15° 6' 6"	19°25' 25"	13°10' 10"	12°13' 13"	10°45' 45"	8°11' 11"	0°50' 50"	12°32' 32"	13°15' 15"	22° 7' 7"	13° 3' 3"	T 18
F 19	13 51 36	29°44' 49"	28°42' 42"	5° 5' 5"	15°50' 50"	19°57' 57"	13°17' 17"	12°10' 10"	10°48' 48"	8°10' 10"	0°52' 52"	12°R32	13°12' 12"	22°14' 14"	12°58' 58"	F 19
S 20	13 55 33	0°34' 27"	12°35' 35"	5°33' 33"	16°35' 35"	20°28' 28"	13°25' 25"	12° 8' 8"	10°52' 52"	8°10' 10"	0°53' 53"	12°32' 32"	13° 9' 9"	22°20' 20"	12°54' 54"	S 20
S 21	13 59 29	1°42' 03"	26°13' 13"	6° 5' 5"	17°21' 21"	20°59' 59"	13°33' 33"	12° 6' 6"	10°55' 55"	8° 9' 9"	0°54' 54"	12°31' 31"	13° 6' 6"	22°27' 27"	12°49' 49"	S 21
M22	14 3 26	2°40' 36"	9°36' 36"	6°40' 40"	18° 8' 8"	21°30' 30"	13°41' 41"	12° 4' 4"	10°58' 58"	8° 8' 8"	0°56' 56"	12°30' 30"	13° 2' 2"	22°34' 34"	12°45' 45"	M22
T 23	14 7 22	3°39' 07"	22°45' 45"	7°20' 20"	18°56' 56"	22° 0' 0"	13°49' 49"	12° 1' 1"	11° 2' 2"	8° 7' 7"	0°57' 57"	12°29' 29"	12°59' 59"	22°40' 40"	12°41' 41"	T 23
W24	14 11 19	4°37' 36"	5°43' 43"	8° 4' 4"	19°45' 45"	22°31' 31"	13°57' 57"	11°59' 59"	11° 5' 5"	8° 6' 6"	0°59' 59"	12°28' 28"	12°56' 56"	22°47' 47"	12°37' 37"	W24
T 25	14 15 15	5°36' 04"	18°20' 20"	8°51' 51"	20°34' 34"	23° 1' 1"	14° 5' 5"	11°58' 58"	11° 8' 8"	8° 6' 6"	1° 0' 0"	12°27' 27"	12°53' 53"	22°54' 54"	12°33' 33"	T 25
F 26	14 19 12	6°34' 29"	0°49' 49"	9°41' 41"	21°24' 24"	23°31' 31"	14°14' 14"	11°56' 56"	11°11' 11"	8° 5' 5"	1° 1' 1"	12°26' 26"	12°50' 50"	23° 1' 1"	12°29' 29"	F 26
S 27	14 23 9	7°32' 52"	13° 6' 6"	10°35' 35"	22°14' 14"	24° 1' 1"	14°22' 22"	11°54' 54"	11°14' 14"	8° 4' 4"	1° 3' 3"	12°D26	12°46' 46"	23° 7' 7"	12°25' 25"	S 27
S 28	14 27 5	8°31' 14"	25°13' 13"	11°31' 31"	23° 6' 6"	24°31' 31"	14°31' 31"	11°53' 53"	11°17' 17"	8° 3' 3"	1° 4' 4"	12°26' 26"	12°43' 43"	23°14' 14"	12°21' 21"	S 28
M29	14 31 2	9°29' 34"	7°12' 12"	12°31' 31"	23°58' 58"	25° 1' 1"	14°40' 40"	11°51' 51"	11°21' 21"	8° 3' 3"	1° 6' 6"	12°27' 27"	12°40' 40"	23°21' 21"	12°17' 17"	M29
T 30	14 34 58	10°27' 52"	19°15' 15"	13°33' 33"	24°50' 50"	25°30' 30"	14°54' 54"	11°50' 50"	11°24' 24"	8°R 2	1°R 7	12°R27	12°R37	23°17' 17"	12°13' 13"	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	4n46	21s22	1s28	6n43	2n46	5s16	4n31	23s26	0s24	23n11	0n15	8n37	2n 9	3n16	0s40	9n 8	0n49	3s58	16s37	15n38	16n 5	26s 6	7s41	2s12	
T 2	5 9	24 32	2 29	6 11	2 34	5 19	4 19	23 25	0 26	23 11	0 15	8 38	2 9	3 17	0 40	9 8	0 49	3 57	16 36	15 39	16 4	26 7	7 39	2 12	
W 3	5 32	26 36	3 22	5 40	2 20	5 21	4 8	23 24	0 27	23 11	0 15	8 40	2 9	3 19	0 40	9 9	0 49	3 57	16 36	15 39	16 3	26 8	7 37	2 11	
T 4	5 55	27 28	4 7	5 8	2 6	5 23	3 56	23 23	0 29	23 10	0 15	8 41	2 9	3 20	0 40	9 9	0 49	3 56	16 36	15 40	16 2	26 9	7 35	2 11	
F 5	6 18	27 4	4 42	4 36	1 51	5 23	3 45	23 21	0 30	23 10	0 15	8 42	2 9	3 21	0 40	9 10	0 49	3 56	16 36	15 40	16 1	26 11	7 33	2 11	
S 6	6 40	25 24	5 5	4 5	1 35	5 23	3 34	23 20	0 32	23 9	0 15	8 43	2 9	3 23	0 40	9 10	0 49	3 55	16 36	15 40	16 0	26 12	7 30	2 10	
S 7	7 3	22 31	5 14	3 36	1 19	5 22	3 23	23 18	0 34	23 9	0 15	8 45	2 9	3 24	0 40	9 11	0 49	3 55	16 36	15 39	15 59	26 13	7 28	2 10	
M 8	7 25	18 31	5 9	3 8	1 3	5 20	3 13	23 16	0 35	23 9	0 16	8 46	2 8	3 25	0 40	9 11	0 49	3 54	16 36	15 38	15 58	26 14	7 26	2 9	
T 9	7 48	13 34	4 48	2 42	0 46	5 17	3 2	23 14	0 37	23 8	0 16	8 47	2 8	3 27	0 40	9 11	0 49	3 54	16 36	15 37	15 57	26 15	7 24	2 9	
W10	8 10	7 51	4 11	2 18	0 30	5 14	2 52	23 12	0 39	23 8	0 16	8 48	2 8	3 28	0 40	9 12	0 49	3 53	16 36	15 36	15 56	26 16	7 22	2 9	
T 11	8 32	1 37	3 18	1 56	0 14	5 10	2 41	23 10	0 40	23 7	0 16	8 49	2 8	3 29	0 40	9 12	0 49	3 53	16 36	15 35	15 55	26 18	7 19	2 8	
F 12	8 54	4n53	2 13	1 37	0s 1	5 6	2 31	23 8	0 42	23 6	0 16	8 51	2 8	3 31	0 40	9 13	0 49	3 52	16 36	15 35	15 54	26 19	7 17	2 8	
S 13	9 16	11 16	0 58	1 20	0 16	5 1	2 22	23 6	0 44	23 6	0 16	8 52	2 8	3 32	0 40	9 13	0 49	3 52	16 35	15 34	15 53	26 20	7 15	2 7	
S 14	9 37	17 8	0n22	1 6	0 31	4 55	2 12	23 4	0 46	23 5	0 16	8 53	2 8	3 33	0 40	9 13	0 49	3 51	16 35	15 34	15 52	26 21	7 13	2 7	
M15	9 59	22 2	1 41	0 55	0 45	4 48	2 2	23 2	0 48	23 5	0 16	8 54	2 8	3 35	0 40	9 14	0 49	3 51	16 35	15 35	15 51	26 22	7 11	2 7	
T 16	10 20	25 33	2 54	0 46	0 58	4 41	1 53	22 59	0 49	23 4	0 16	8 55	2 8	3 36	0 40	9 14	0 49	3 50	16 35	15 35	15 50	26 23	7 9	2 6	
W17	10 41	27 20	3 54	0 40	1 11	4 33	1 44	22 57	0 51	23 3	0 16	8 55	2 8	3 37	0 40	9 15	0 49	3 50	16 35	15 35	15 50	26 24	7 6	2 6	
T 18	11 2	27 16	4 40	0 36	1 23	4 25	1 35	22 54	0 53	23 3	0 16	8 56	2 7	3 38	0 40	9 15	0 49	3 49	16 35	15 35	15 49	26 25	7 4	2 5	
F 19	11 23	25 25	5 7	0 35	1 34	4 16	1 26	22 52	0 55	23 2	0 16	8 57	2 7	3 40	0 40	9 15	0 49	3 49	16 35	15 36	15 48	26 26	7 2	2 5	
S 20	11 43	22 5	5 17	0 36	1 45	4 6	1 17	22 49	0 57	23 1	0 16	8 58	2 7	3 41	0 40	9 16	0 49	3 48	16 35	15 35	15 47	26 28	7 0	2 4	
S 21	12 4	17 35	5 8	0 39	1 55	3 56	1 9	22 46	0 59	23 1	0 16	8 59	2 7	3 42	0 40	9 16	0 49	3 48	16 35	15 35	15 46	26 29	6 58	2 4	
M22	12 24	12 19	4 42	0 45	2 4	3 45	1 1	22 43	1 1	23 0	0 16	8 59	2 7	3 44	0 40	9 16	0 49	3 47	16 35	15 35	15 45	26 30	6 56	2 3	
T 23	12 44	6 35	4 2	0 53	2 12	3 34	0 53	22 40	1 3	22 59	0 16	9 0	2 7	3 45	0 40	9 16	0 49	3 47	16 35	15 35	15 44	26 31	6 54	2 3	
W24	13 3	0 40	3 10	1 3	2 20	3 22	0 45	22 38	1 5	22 58	0 16	9 1	2 7	3 46	0 40	9 17	0 49	3 46	16 35	15 34	15 43	26 32	6 52	2 3	
T 25	13 23	5s11	2 10	1 15	2 27	3 10	0 37	22 35	1 8	22 57	0 17	9 1	2 7	3 47	0 40	9 17	0 49	3 46	16 35	15 34	15 42	26 33	6 50	2 2	
F 26	13 42	10 45	1 4	1 29	2 33	2 58	0 29	22 32	1 10	22 57	0 17	9 2	2 7	3 49	0 40	9 17	0 49	3 46	16 35	15 34	15 41	26 34	6 48	2 2	
S 27	14 1	15 49	0s 4	1 45	2 39	2 44	0 22	22 29	1 12	22 56	0 17	9 2	2 6	3 50	0 40	9 18	0 49	3 45	16 35	15 34	15 40	26 35	6 46	2 1	
S 28	14 20	20 12	1 10	2 3	2 43	2 31	0 15	22 26	1 14	22 55	0 17	9 3	2 6	3 51	0 40	9 18	0 49	3 45	16 35	15 34	15 39	26 36	6 44	2 1	
M29	14 39	23 41	2 13	2 22	2 48	2 17	0 8	22 22	1 17	22 54	0 17	9 3	2 6	3 52	0 40	9 18	0 49	3 44	16 35	15 34	15 38	26 37	6 42	2 0	
T 30	14n57	26s 8	3s10	2n43	2s51	2s 2	0n 1	22s19	1s19	22n53	0n17	9n 4	2n 6	3n53	0s40	9n18	0n49	3s44	16s35	15n34	15n37	26s38	6s40	2s 0	

ASTRODIENST EPHEMERIS for the year 2097  
geocentric

MAY 2097

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 38 55	11°8'26"09	0°35'55	14°Y39	25°X44	25°Z59	14°58'58	11°R48	11°Y27	8°R 2	1°8 8	12°Z27	12°Z34	23°X34	12°R 9	W 1
T 2	14 42 51	12°24'24	12°46	15°47	26°38	26°28	15° 7	11°M47	11°30	8°M 1	1°10	12°R27	12°31	23°41	12°Z 6	T 2
F 3	14 46 48	13°22'37	24°41	16°57	27°32	26°57	15°16	11°46	11°33	8° 1	1°11	12°27	12°27	23°47	12° 2	F 3
S 4	14 50 44	14°20'49	6°45	18°10	28°27	27°25	15°26	11°45	11°36	8° 0	1°12	12°27	12°24	23°54	11°59	S 4
S 5	14 54 41	15°19'00	19° 2	19°26	29°22	27°54	15°35	11°44	11°39	8° 0	1°14	12°D27	12°21	24° 1	11°55	S 5
M 6	14 58 38	16°17'09	1°36	20°43	0°Y18	28°22	15°45	11°43	11°42	7°59	1°15	12°27	12°18	24° 7	11°52	M 6
T 7	15 2 34	17°15'17	14°32	22° 3	1°14	28°50	15°54	11°43	11°45	7°59	1°16	12°28	12°15	24°14	11°49	T 7
W 8	15 6 31	18°13'23	27°52	23°26	2°11	29°17	16° 4	11°42	11°48	7°59	1°18	12°28	12°12	24°21	11°45	W 8
T 9	15 10 27	19°11'28	11°Y37	24°50	3° 9	29°44	16°14	11°42	11°51	7°58	1°19	12°29	12° 8	24°27	11°42	T 9
F 10	15 14 24	20° 9'31	25°48	26°17	4° 6	0°X11	16°24	11°41	11°53	7°58	1°20	12°29	12° 5	24°34	11°39	F 10
S 11	15 18 20	21° 7'33	10°Z21	27°46	5° 4	0°38	16°34	11°41	11°56	7°58	1°22	12°R29	12° 2	24°41	11°36	S 11
S 12	15 22 17	22° 5'34	25°11	29°17	6° 3	1° 4	16°44	11°41	11°59	7°58	1°23	12°29	11°59	24°47	11°33	S 12
M13	15 26 13	23° 3'33	10°II10	0°Z50	7° 2	1°31	16°55	11°D41	12° 2	7°57	1°24	12°29	11°56	24°54	11°31	M13
T14	15 30 10	24° 1'30	25°10	2°25	8° 1	1°56	17° 5	11°41	12° 5	7°57	1°26	12°27	11°52	25° 1	11°28	T14
W15	15 34 7	24°59'26	10°Z 4	4° 2	9° 1	2°22	17°16	11°41	12° 7	7°57	1°27	12°26	11°49	25° 7	11°26	W15
T16	15 38 3	25°57'20	24°42	5°41	10° 0	2°47	17°26	11°41	12°10	7°57	1°28	12°25	11°46	25°14	11°23	T16
F17	15 42 0	26°55'12	9°Z 1	7°22	11° 1	3°12	17°37	11°42	12°13	7°57	1°30	12°23	11°43	25°21	11°21	F17
S18	15 45 56	27°53'02	22°59	9° 6	12° 1	3°37	17°47	11°42	12°15	7°D57	1°31	12°D23	11°40	25°27	11°18	S18
S19	15 49 53	28°50'51	6°M33	10°51	13° 2	4° 1	17°58	11°43	12°18	7°57	1°32	12°23	11°37	25°34	11°16	S19
M20	15 53 49	29°48'38	19°46	12°39	14° 3	4°25	18° 9	11°43	12°21	7°57	1°33	12°24	11°33	25°41	11°14	M20
T21	15 57 46	0°II46'23	2°Z40	14°28	15° 5	4°48	18°20	11°44	12°23	7°57	1°35	12°25	11°30	25°48	11°12	T21
W22	16 1 42	1°44'06	15°17	16°20	16° 6	5°12	18°31	11°45	12°26	7°57	1°36	12°26	11°27	25°54	11°10	W22
T23	16 5 39	2°41'48	27°41	18°14	17° 8	5°34	18°42	11°46	12°28	7°57	1°37	12°28	11°24	26° 1	11° 9	T23
F24	16 9 36	3°39'29	9°M54	20°10	18°11	5°57	18°53	11°47	12°31	7°57	1°38	12°R28	11°21	26° 8	11° 7	F24
S25	16 13 32	4°37'08	21°58	22° 7	19°13	6°19	19° 5	11°48	12°33	7°58	1°40	12°28	11°18	26°14	11° 6	S25
S26	16 17 29	5°34'46	3°Z56	24° 7	20°16	6°41	19°16	11°50	12°35	7°58	1°41	12°26	11°14	26°21	11° 4	S26
M27	16 21 25	6°32'23	15°49	26° 9	21°19	7° 2	19°27	11°51	12°38	7°58	1°42	12°24	11°11	26°28	11° 3	M27
T28	16 25 22	7°29'59	27°40	28°12	22°22	7°23	19°39	11°53	12°40	7°58	1°43	12°20	11° 8	26°34	11° 2	T28
W29	16 29 18	8°27'34	9°Z30	0°II17	23°26	7°44	19°51	11°54	12°42	7°59	1°44	12°16	11° 5	26°41	11° 1	W29
T30	16 33 15	9°25'07	21°23	2°24	24°29	8° 4	20° 2	11°56	12°45	7°59	1°45	12°11	11° 2	26°48	11° 0	T30
F31	16 37 11	10°II22'40	3°Z20	4°II32	25°Y33	8°Z23	20°Z14	11°M58	12°Y47	8°M 0	1°Z47	12°Z 7	10°Z58	26°Z54	10°Z59	F31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
W 1	15n15	27s23	3s58	3n 6	2s54	1s47	0s 6	22s16	1s21	22n52	0n17	9n 4	2n 6	3n55	0s40	9n18
T 2	15 33	27 24	4 36	3 30	2 56	1 32	0 12	22 13	1 24	22 51	0 17	9 5	2 6	3 56	0 40	9 19
F 3	15 51	26 8	5 2	3 55	2 58	1 16	0 18	22 10	1 26	22 50	0 17	9 5	2 6	3 57	0 40	9 19
S 4	16 8	23 40	5 16	4 22	2 59	1 0	0 25	22 7	1 28	22 49	0 17	9 5	2 5	3 58	0 40	9 19
S 5	16 25	20 6	5 15	4 50	2 59	0 43	0 31	22 3	1 31	22 48	0 17	9 5	2 5	3 59	0 40	9 19
M 6	16 42	15 34	5 0	5 20	2 58	0 26	0 36	22 0	1 33	22 47	0 17	9 5	2 5	4 0	0 40	9 19
T 7	16 59	10 13	4 29	5 50	2 58	0 9	0 42	21 57	1 36	22 46	0 17	9 6	2 5	4 2	0 40	9 19
W 8	17 15	4 16	3 43	6 22	2 56	0n 9	0 47	21 54	1 39	22 45	0 17	9 6	2 5	4 3	0 40	9 19
T 9	17 31	2n 5	2 43	6 55	2 54	0 26	0 53	21 51	1 41	22 44	0 17	9 6	2 5	4 4	0 40	9 20
F 10	17 47	8 33	1 31	7 29	2 51	0 45	0 58	21 47	1 44	22 43	0 17	9 6	2 4	4 5	0 40	9 20
S 11	18 2	14 44	0 12	8 3	2 48	1 3	1 3	21 44	1 47	22 41	0 17	9 6	2 4	4 6	0 40	9 20
S 12	18 17	20 11	1n10	8 39	2 44	1 22	1 8	21 41	1 49	22 40	0 18	9 6	2 4	4 7	0 40	9 20
M13	18 32	24 24	2 27	9 15	2 40	1 41	1 12	21 38	1 52	22 39	0 18	9 5	2 4	4 8	0 40	9 20
T14	18 46	26 55	3 35	9 53	2 35	2 0	1 17	21 35	1 55	22 38	0 18	9 5	2 4	4 9	0 40	9 20
W15	19 0	27 29	4 27	10 31	2 29	2 19	1 21	21 32	1 58	22 37	0 18	9 5	2 4	4 10	0 40	9 20
T16	19 14	26 7	5 1	11 9	2 24	2 39	1 25	21 29	2 1	22 35	0 18	9 5	2 4	4 11	0 40	9 20
F17	19 28	23 4	5 16	11 48	2 17	2 59	1 29	21 26	2 4	22 34	0 18	9 4	2 3	4 12	0 40	9 20
S18	19 41	18 45	5 11	12 28	2 10	3 19	1 33	21 23	2 7	22 33	0 18	9 4	2 3	4 13	0 40	9 20
S19	19 54	13 34	4 49	13 8	2 3	3 39	1 37	21 20	2 10	22 31	0 18	9 4	2 3	4 14	0 40	9 20
M20	20 6	7 54	4 12	13 48	1 55	4 0	1 41	21 18	2 13	22 30	0 18	9 3	2 3	4 15	0 40	9 20
T21	20 18	2 2	3 22	14 28	1 47	4 20	1 44	21 15	2 16	22 28	0 18	9 3	2 3	4 16	0 40	9 20
W22	20 30	3s48	2 24	15 9	1 38	4 41	1 47	21 12	2 19	22 27	0 18	9 2	2 3	4 17	0 40	9 20
T23	20 41	9 23	1 21	15 49	1 29	5 2	1 51	21 10	2 22	22 25	0 18	9 2	2 2	4 18	0 40	9 20
F24	20 52	14 33	0 14	16 30	1 20	5 23	1 54	21 7	2 25	22 24	0 18	9 1	2 2	4 19	0 41	9 20
S25	21 3	19 5	0s52	17 10	1 10	5 44	1 56	21 5	2 29	22 22	0 18	9 1	2 2	4 20	0 41	9 20
S26	21 13	22 49	1 55	17 50	1 0	6 5	1 59	21 3	2 32	22 21	0 18	9 0	2 2	4 21	0 41	9 19
M27	21 23	25 33	2 53	18 29	0 50	6 26	2 2	21 1	2 35	22 19	0 18	8 59	2 2	4 22	0 41	9 19
T28	21 33	27 8	3 43	19 7	0 39	6 47	2 4	20 58	2 39	22 18	0 19	8 59	2 2	4 23	0 41	9 19
W29	21 42	27 28	4 24	19 44	0 28	7 8	2 6	20 56	2 42	22 16	0 19	8 58	2 1	4 24	0 41	9 19
T30	21 51	26 33	4 53	20 20	0 18	7 30	2 8	20 55	2 46	22 14	0 19	8 57	2 1	4 24	0 41	9 19
F31	22n 0	24s25	5s 9	20n55	0s 7	7n51	2s10	20s53	2s49	22n13	0n19	8n56	2n 1	4n25	0s41	9n19

Julian Day Number = 2487094.5, Delta T = 91.96 sec  
Ecliptic obliquity = 23°25'43, Nutation = - 0°00'13, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°06'01, Lahiri = 25°13'01



ASTRODIENST EPHEMERIS for the year 2097  
geocentric

JUNE 2097

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 41 8	11 <sup>II</sup> 20'12	15 <sup>♈</sup> 25	6 <sup>II</sup> 41	26 <sup>♊</sup> 38	8 <sup>♈</sup> 42	20 <sup>♈</sup> 26	12 <sup>♈</sup> 0	12 <sup>♊</sup> 49	8 <sup>♈</sup> 0	1 <sup>♈</sup> 48	12 <sup>♈</sup> R 4	10 <sup>♈</sup> 55	27 <sup>♈</sup> 1	10 <sup>♈</sup> R58	S 1
S 2	16 45 5	12°17'42	27°41	8°52	27°42	9° 1	20°37	12° 2	12°51	8° 0	1°49	12 <sup>♈</sup> 1	10°52	27° 8	10 <sup>♈</sup> 57	S 2
M 3	16 49 1	13°15'12	10 <sup>♈</sup> 13	11° 3	28°46	9°19	20°49	12° 4	12°53	8° 1	1°50	12 <sup>♈</sup> D 0	10°49	27°14	10°57	M 3
T 4	16 52 58	14°12'42	23° 3	13°15	29°51	9°37	21° 1	12° 6	12°55	8° 1	1°51	12° 1	10°46	27°21	10°56	T 4
W 5	16 56 54	15°10'10	6 <sup>♊</sup> 17	15°27	0 <sup>♈</sup> 56	9°54	21°13	12° 8	12°57	8° 2	1°52	12° 2	10°43	27°28	10°56	W 5
T 6	17 0 51	16° 7'38	19°56	17°39	2° 1	10°11	21°25	12°11	12°59	8° 3	1°53	12° 3	10°39	27°34	10°56	T 6
F 7	17 4 47	17° 5'05	4 <sup>♈</sup> 2	19°51	3° 6	10°27	21°37	12°13	13° 1	8° 3	1°54	12° 4	10°36	27°41	10°D56	F 7
S 8	17 8 44	18° 2'32	18°34	22° 2	4°12	10°43	21°50	12°16	13° 3	8° 4	1°55	12°R 5	10°33	27°48	10°56	S 8
S 9	17 12 40	18°59'58	3 <sup>II</sup> 28	24°13	5°18	10°58	22° 2	12°19	13° 5	8° 5	1°56	12° 3	10°30	27°55	10°56	S 9
M10	17 16 37	19°57'23	18°37	26°22	6°23	11°12	22°14	12°21	13° 7	8° 5	1°57	12° 0	10°27	28° 1	10°56	M10
T 11	17 20 34	20°54'48	3 <sup>♈</sup> 52	28°31	7°29	11°26	22°26	12°24	13° 8	8° 6	1°58	11°55	10°24	28° 8	10°56	T 11
W12	17 24 30	21°52'11	19° 2	0 <sup>♈</sup> 38	8°35	11°39	22°39	12°27	13°10	8° 7	1°59	11°49	10°20	28°15	10°57	W12
T 13	17 28 27	22°49'34	3 <sup>♈</sup> 57	2°43	9°42	11°52	22°51	12°30	13°12	8° 8	2° 0	11°44	10°17	28°21	10°57	T 13
F 14	17 32 23	23°46'56	18°30	4°46	10°48	12° 4	23° 4	12°33	13°13	8° 8	2° 1	11°39	10°14	28°28	10°58	F 14
S 15	17 36 20	24°44'17	2 <sup>♈</sup> 37	6°48	11°54	12°16	23°16	12°37	13°15	8° 9	2° 2	11°35	10°11	28°35	10°59	S 15
S 16	17 40 16	25°41'36	16°16	8°47	13° 1	12°27	23°29	12°40	13°16	8°10	2° 3	11°33	10° 8	28°41	11° 0	S 16
M17	17 44 13	26°38'55	29°28	10°45	14° 8	12°37	23°41	12°43	13°18	8°11	2° 4	11°D32	10° 4	28°48	11° 1	M17
T 18	17 48 10	27°36'13	12 <sup>♈</sup> 17	12°40	15°15	12°46	23°54	12°47	13°19	8°12	2° 5	11°33	10° 1	28°55	11° 2	T 18
W19	17 52 6	28°33'30	24°46	14°33	16°22	12°55	24° 7	12°51	13°21	8°13	2° 5	11°35	9°58	29° 1	11° 3	W19
T 20	17 56 3	29°30'47	7 <sup>♈</sup> 0	16°24	17°29	13° 4	24°19	12°54	13°22	8°14	2° 6	11°R35	9°55	29° 8	11° 5	T 20
F 21	17 59 59	0 <sup>♈</sup> 28'02	19° 3	18°12	18°36	13°11	24°32	12°58	13°24	8°15	2° 7	11°35	9°52	29°15	11° 6	F 21
S 22	18 3 56	1°25'17	0 <sup>♈</sup> 59	19°58	19°43	13°18	24°45	13° 2	13°25	8°16	2° 8	11°33	9°49	29°22	11° 8	S 22
S 23	18 7 52	2°22'32	12°50	21°42	20°51	13°24	24°58	13° 6	13°26	8°17	2° 9	11°29	9°45	29°28	11° 9	S 23
M24	18 11 49	3°19'46	24°40	23°23	21°59	13°30	25°11	13°10	13°27	8°19	2° 9	11°23	9°42	29°35	11°11	M24
T 25	18 15 45	4°17'00	6 <sup>♈</sup> 31	25° 2	23° 6	13°35	25°24	13°14	13°28	8°20	2°10	11°14	9°39	29°42	11°13	T 25
W26	18 19 42	5°14'13	18°24	26°39	24°14	13°39	25°37	13°18	13°29	8°21	2°11	11° 5	9°36	29°48	11°15	W26
T 27	18 23 39	6°11'26	0 <sup>♈</sup> 21	28°14	25°22	13°42	25°49	13°22	13°31	8°22	2°12	10°54	9°33	29°55	11°17	T 27
F 28	18 27 35	7° 8'39	12°24	29°46	26°30	13°45	26° 2	13°27	13°32	8°23	2°12	10°44	9°30	0 <sup>♈</sup> 2	11°20	F 28
S 29	18 31 32	8° 5'51	24°35	1 <sup>♈</sup> 15	27°38	13°47	26°15	13°31	13°32	8°25	2°13	10°36	9°26	0° 8	11°22	S 29
S 30	18 35 28	9 <sup>♈</sup> 3'04	6 <sup>♈</sup> 55	2 <sup>♈</sup> 42	28 <sup>♈</sup> 47	13 <sup>♈</sup> 48	26 <sup>♈</sup> 29	13 <sup>♈</sup> 36	13 <sup>♈</sup> 33	8 <sup>♈</sup> 26	2 <sup>♈</sup> 14	10 <sup>♈</sup> R29	9 <sup>♈</sup> 23	0 <sup>♈</sup> 15	11 <sup>♈</sup> 24	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
S 1	22n 8	21s10	5s12	21n28	0n 4	8n12	2s12	20s51	2s53	22n11	0n19	8n55	2n 1	4n26	0s41	9n19	0n48	3s34	16s39	15n27	15n 6	27s 6	5s55	1s43	1s43
S 2	22 15	16 59	5 1	22 0	0 14	8 34	2 14	20 50	2 56	22 9	0 19	8 54	2 1	4 27	0 41	9 18	0 48	3 34	16 40	15 26	15 5	27 7	5 54	1 42	1 42
M 3	22 23	11 59	4 36	22 30	0 24	8 55	2 16	20 48	3 0	22 8	0 19	8 53	2 1	4 28	0 41	9 18	0 48	3 34	16 40	15 26	15 4	27 8	5 54	1 42	1 42
T 4	22 30	6 22	3 56	22 57	0 35	9 16	2 17	20 47	3 4	22 6	0 19	8 52	2 0	4 28	0 41	9 18	0 48	3 34	16 40	15 26	15 3	27 9	5 53	1 41	1 41
W 5	22 36	0 18	3 3	23 22	0 44	9 38	2 19	20 46	3 8	22 4	0 19	8 51	2 0	4 29	0 41	9 18	0 48	3 34	16 40	15 26	15 2	27 9	5 52	1 41	1 41
T 6	22 42	5n58	1 58	23 45	0 54	9 59	2 20	20 45	3 11	22 2	0 19	8 50	2 0	4 30	0 41	9 17	0 48	3 34	16 40	15 27	15 1	27 10	5 52	1 40	1 40
F 7	22 48	12 10	0 44	24 5	1 3	10 20	2 21	20 45	3 15	22 0	0 19	8 49	2 0	4 31	0 41	9 17	0 48	3 33	16 41	15 27	15 0	27 11	5 51	1 40	1 40
S 8	22 53	17 55	0n35	24 22	1 11	10 41	2 22	20 44	3 19	21 59	0 19	8 48	2 0	4 31	0 41	9 17	0 48	3 33	16 41	15 27	14 59	27 12	5 51	1 39	1 39
S 9	22 58	22 42	1 54	24 37	1 19	11 2	2 23	20 44	3 23	21 57	0 19	8 47	2 0	4 32	0 41	9 17	0 48	3 33	16 41	15 27	14 58	27 12	5 50	1 39	1 39
M10	23 3	26 1	3 6	24 49	1 26	11 23	2 23	20 43	3 27	21 55	0 19	8 46	2 0	4 33	0 41	9 16	0 48	3 33	16 41	15 26	14 57	27 13	5 50	1 38	1 38
T 11	23 7	27 27	4 4	24 58	1 33	11 44	2 24	20 43	3 31	21 53	0 19	8 45	1 59	4 33	0 41	9 16	0 48	3 33	16 42	15 24	14 56	27 14	5 49	1 38	1 38
W12	23 11	26 48	4 46	25 4	1 39	12 4	2 25	20 43	3 35	21 51	0 19	8 43	1 59	4 34	0 41	9 16	0 48	3 33	16 42	15 23	14 55	27 14	5 49	1 37	1 37
T 13	23 14	24 13	5 7	25 8	1 44	12 25	2 25	20 44	3 39	21 49	0 20	8 42	1 59	4 35	0 41	9 15	0 48	3 33	16 42	15 21	14 54	27 15	5 49	1 37	1 37
F 14	23 17	20 8	5 7	25 9	1 48	12 45	2 25	20 44	3 43	21 47	0 20	8 41	1 59	4 35	0 41	9 15	0 48	3 33	16 42	15 19	14 53	27 16	5 49	1 36	1 36
S 15	23 19	15 2	4 49	25 7	1 52	13 6	2 25	20 45	3 48	21 45	0 20	8 39	1 59	4 36	0 41	9 15	0 48	3 33	16 43	15 18	14 52	27 16	5 49	1 36	1 36
S 16	23 22	9 20	4 15	25 3	1 55	13 26	2 25	20 46	3 52	21 43	0 20	8 38	1 59	4 36	0 41	9 14	0 48	3 33	16 43	15 17	14 51	27 17	5 48	1 35	1 35
M17	23 23	3 23	3 28	24 56	1 57	13 45	2 25	20 47	3 56	21 41	0 20	8 36	1 59	4 37	0 41	9 14	0 48	3 33	16 43	15 17	14 50	27 18	5 48	1 34	1 34
T 18	23 24	2s31	2 32	24 48	1 59	14 5	2 25	20 48	4 0	21 39	0 20	8 35	1 58	4 38	0 41	9 14	0 48	3 33	16 43	15 18	14 49	27 18	5 48	1 34	1 34
W19	23 25	8 12	1 30	24 37	1 59	14 24	2 25	20 50	4 5	21 36	0 20	8 33	1 58	4 38	0 41	9 13	0 48	3 33	16 44	15 18	14 48	27 19	5 48	1 33	1 33
T 20	23 26	13 27	0 25	24 24	1 59	14 44	2 25	20 52	4 9	21 34	0 20	8 32	1 58	4 39	0 41	9 13	0 48	3 33	16 44	15 18	14 47	27 20	5 48	1 33	1 33
F 21	23 26	18 7	0s40	24 9	1 58	15 2	2 24	20 54	4 13	21 32	0 20	8 30	1 58	4 39	0 41	9 13	0 48	3 33	16 44	15 18	14 46	27 20	5 48	1 32	1 32
S 22	23 25	22 1	1 43	23 52	1 57	15 21	2 24	20 56	4 18	21 30	0 20	8 29	1 58	4 39	0 41	9 12	0 48	3 33	16 45	15 18	14 45	27 21	5 49	1 32	1 32
S 23	23 24	24 58	2 40	23 34	1 55	15 40	2 23	20 58	4 22	21 28	0 20	8 27	1 58	4 40	0 41	9 12	0 48	3 33	16 45	15 16	14 44	27 21	5 49	1 31	1 31
M24	23 23	26 49	3 30	23 15	1 52	15 58	2 22	21 1	4 26	21 25	0 20	8 25	1 58	4 40	0 41	9 11	0 48	3 33	16 45	15 14	14 43	27 22	5 49	1 31	1 31
T 25	23 22	27 27	4 11	22 54	1 48	16 16	2 21	21 4	4 31	21 23	0 20	8 24	1 57	4 41	0 41	9 11	0 48	3 33	16 45	15 12	14 42	27 23	5 49	1 30	1 30
W26	23 19	26 49	4 42	22 31	1 44	16 33	2 20	21 7	4 35	21 21	0 20	8 22	1 57	4 41	0 41	9 10	0 48	3 33	16 46	15 9	14 41	27 23	5 50	1 30	1 30
T 27	23 17	24 56	5 0	22 8	1 39	16 50	2 19	21 10	4 40	21 18	0 21	8 20	1 57	4 42	0 41	9 10	0 48	3 33	16 46	15 5	14 40	27 24	5 50	1 29	1 29
F 28	23 14	21 56	5 5	21 43	1 34	17 7	2 18	21 13	4 44	21 16	0 21	8 18	1 57	4 42	0 41	9 9	0 48	3 33	16 46	15 2	14 39	27 24	5 50	1 29	1 29
S 29	23 11	17 58	4 56	21 18	1 28	17 24	2 17	21 17	4 49	21 14	0 21	8 17	1 57	4 42	0 41	9 9	0 48	3 33	16 47	15 0	14 38	27 25	5 51	1 28	1 28
S 30	23n 7	13s12	4s33	20n52	1n21	17n40	2s16	21s21	4s53	21n11	0n21	8n15	1n57	4n43	0s42	9n 8	0n48	3s33	16s47	14n58	14n37	27s25	5s51	1s28	1s28

ASTRODIENST EPHEMERIS for the year 2097  
geocentric

JULY 2097

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 39 25	10°07'17	19°42'29	4°07'17	29°05'55	13°R48	26°04'42	13°40'40	13°34'34	8°27'27	2°14'14	10°R25	9°20'20	0°22'22	11°27'27	M 1
T 2	18 43 21	10°57'29	2°07'18	5°29'29	1°11'11	13°48'48	26°55'55	13°45'45	13°35'35	8°29'29	2°15'15	10°R23	9°17'17	0°28'28	11°30'30	T 2
W 3	18 47 18	11°54'42	15°27'27	6°49'49	2°12'12	13°46'46	27°08'08	13°50'50	13°36'36	8°30'30	2°16'16	10°D23	9°14'14	0°35'35	11°32'32	W 3
T 4	18 51 14	12°51'55	28°58'58	8°06'06	3°21'21	13°44'44	27°21'21	13°54'54	13°37'37	8°31'31	2°16'16	10°23'23	9°10'10	0°42'42	11°35'35	T 4
F 5	18 55 11	13°49'09	12°05'54	9°21'21	4°30'30	13°42'42	27°34'34	13°59'59	13°37'37	8°33'33	2°17'17	10°R24	9°07'07	0°49'49	11°38'38	F 5
S 6	18 59 08	14°46'22	27°16'16	10°33'33	5°39'39	13°38'38	27°47'47	14°04'04	13°38'38	8°34'34	2°17'17	10°23'23	9°04'04	0°55'55	11°41'41	S 6
S 7	19 03 04	15°43'36	12°11'11	11°42'42	6°48'48	13°34'34	28°01'01	14°09'09	13°38'38	8°36'36	2°18'18	10°19'19	9°01'01	1°02'02	11°45'45	S 7
M 8	19 07 10	16°40'51	27°04'04	12°49'49	7°57'57	13°29'29	28°14'14	14°14'14	13°39'39	8°37'37	2°18'18	10°14'14	8°58'58	1°09'09	11°48'48	M 8
T 9	19 10 57	17°38'05	12°05'17	13°52'52	9°06'06	13°23'23	28°27'27	14°19'19	13°39'39	8°39'39	2°19'19	10°06'06	8°55'55	1°15'15	11°51'51	T 9
W10	19 14 54	18°35'20	27°30'30	14°53'53	10°15'15	13°17'17	28°40'40	14°25'25	13°40'40	8°40'40	2°19'19	9°56'56	8°51'51	1°22'22	11°55'55	W10
T 11	19 18 50	19°32'34	12°02'31	15°51'51	11°24'24	13°09'09	28°54'54	14°30'30	13°40'40	8°42'42	2°20'20	9°46'46	8°48'48	1°29'29	11°59'59	T 11
F 12	19 22 47	20°29'49	27°13'13	16°45'45	12°34'34	13°01'01	29°07'07	14°35'35	13°41'41	8°43'43	2°20'20	9°37'37	8°45'45	1°35'35	12°02'02	F 12
S 13	19 26 44	21°27'04	11°07'27	17°36'36	13°43'43	12°53'53	29°20'20	14°41'41	13°41'41	8°45'45	2°21'21	9°30'30	8°42'42	1°42'42	12°06'06	S 13
S 14	19 30 40	22°24'18	25°13'13	18°24'24	14°53'53	12°43'43	29°33'33	14°46'46	13°41'41	8°47'47	2°21'21	9°25'25	8°39'39	1°49'49	12°10'10	S 14
M15	19 34 37	23°21'32	8°02'29	19°08'08	16°03'03	12°33'33	29°47'47	14°52'52	13°41'41	8°48'48	2°21'21	9°22'22	8°36'36	1°55'55	12°14'14	M15
T 16	19 38 33	24°18'47	21°19'19	19°48'48	17°12'12	12°23'23	0°02'00	14°57'57	13°41'41	8°50'50	2°22'22	9°D21	8°32'32	2°02'02	12°18'18	T 16
W17	19 42 30	25°16'01	3°04'47	20°25'25	18°22'22	12°12'12	0°13'13	15°03'03	13°41'41	8°52'52	2°22'22	9°R21	8°29'29	2°09'09	12°22'22	W17
T 18	19 46 26	26°13'16	15°58'58	20°57'57	19°32'32	12°02'02	0°27'27	15°09'09	13°R41	8°54'54	2°22'22	9°21'21	8°26'26	2°16'16	12°27'27	T 18
F 19	19 50 23	27°10'31	27°57'57	21°26'26	20°42'42	11°48'48	0°40'40	15°15'15	13°41'41	8°55'55	2°23'23	9°20'20	8°23'23	2°22'22	12°31'31	F 19
S 20	19 54 19	28°07'46	9°07'50	21°50'50	21°52'52	11°35'35	0°54'54	15°21'21	13°41'41	8°57'57	2°23'23	9°17'17	8°20'20	2°29'29	12°35'35	S 20
S 21	19 58 16	29°05'01	21°39'39	22°10'10	23°02'02	11°22'22	1°07'07	15°26'26	13°41'41	8°59'59	2°23'23	9°11'11	8°16'16	2°36'36	12°40'40	S 21
M22	20 02 13	0°02'17	3°03'29	22°25'25	24°12'12	11°08'08	1°20'20	15°32'32	13°41'41	9°01'01	2°23'23	9°02'02	8°13'13	2°42'42	12°45'45	M22
T 23	20 06 09	0°59'33	15°23'23	22°35'35	25°23'23	10°54'54	1°34'34	15°38'38	13°41'41	9°02'02	2°24'24	8°51'51	8°10'10	2°49'49	12°50'50	T 23
W24	20 10 06	1°56'50	27°21'21	22°41'41	26°33'33	10°39'39	1°47'47	15°45'45	13°41'41	9°04'04	2°24'24	8°38'38	8°07'07	2°56'56	12°54'54	W24
T 25	20 14 02	2°54'07	9°02'27	22°R42	27°43'43	10°24'24	2°00'00	15°51'51	13°40'40	9°06'06	2°24'24	8°24'24	8°04'04	3°02'02	12°59'59	T 25
F 26	20 17 59	3°51'25	21°40'40	22°37'37	28°54'54	10°09'09	2°14'14	15°57'57	13°40'40	9°08'08	2°24'24	8°11'11	8°01'01	3°09'09	13°04'04	F 26
S 27	20 21 55	4°48'43	4°01'11	22°28'28	0°05'04	9°53'53	2°27'27	16°03'03	13°40'40	9°10'10	2°24'24	8°00'00	7°57'57	3°16'16	13°09'09	S 27
S 28	20 25 52	5°46'02	16°33'33	22°13'13	1°15'15	9°38'38	2°40'40	16°09'09	13°39'39	9°12'12	2°24'24	7°51'51	7°54'54	3°23'23	13°15'15	S 28
M29	20 29 48	6°43'22	29°15'15	21°54'54	2°26'26	9°22'22	2°54'54	16°16'16	13°39'39	9°14'14	2°24'24	7°44'44	7°51'51	3°29'29	13°20'20	M29
T 30	20 33 45	7°40'43	12°07'11	21°30'30	3°37'37	9°06'06	3°07'07	16°22'22	13°38'38	9°16'16	2°24'24	7°41'41	7°48'48	3°36'36	13°25'25	T 30
W31	20 37 42	8°03'8'05	25°07'22	21°02'02	4°05'47	8°04'49	3°02'00	16°07'29	13°07'38	9°18'18	2°02'00	7°03'39	7°04'45	3°03'43	13°03'31	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
M 1	23n 3	7s48	3s57	20n25	1n14	17n56	2s14	21s25	4s58	21n 9	0n21	8n13	1n57	4n43	0s42	9n 8	0n48	3s33	16s47	14n56	14n36	27s26	5s52	1s27			
T 2	22 59	1 58	3 9	19 58	1 7	18 12	2 13	21 30	5 2	21 6	0 21	8 11	1 57	4 43	0 42	9 7	0 48	3 33	16 48	14 56	14 35	27 26	5 53	1 27			
W 3	22 54	4n 6	2 9	19 30	0 58	18 27	2 11	21 34	5 6	21 4	0 21	8 9	1 56	4 43	0 42	9 7	0 48	3 33	16 48	14 56	14 34	27 27	5 53	1 26			
T 4	22 48	10 9	1 1	19 2	0 50	18 42	2 10	21 39	5 11	21 1	0 21	8 7	1 56	4 44	0 42	9 6	0 48	3 33	16 48	14 56	14 33	27 28	5 54	1 26			
F 5	22 43	15 55	0n13	18 33	0 40	18 56	2 8	21 44	5 15	20 59	0 21	8 5	1 56	4 44	0 42	9 6	0 48	3 33	16 48	14 56	14 32	27 28	5 55	1 25			
S 6	22 37	20 59	1 29	18 5	0 31	19 10	2 6	21 49	5 19	20 56	0 21	8 3	1 56	4 44	0 42	9 5	0 48	3 34	16 49	14 56	14 31	27 29	5 55	1 25			
S 7	22 30	24 52	2 40	17 36	0 21	19 23	2 4	21 54	5 24	20 54	0 21	8 1	1 56	4 44	0 42	9 5	0 48	3 34	16 49	14 55	14 30	27 29	5 56	1 24			
M 8	22 23	27 5	3 41	17 7	0 10	19 37	2 2	22 0	5 28	20 51	0 21	7 59	1 56	4 45	0 42	9 4	0 47	3 34	16 49	14 53	14 29	27 30	5 57	1 24			
T 9	22 16	27 18	4 28	16 38	0s 1	19 49	2 0	22 6	5 32	20 49	0 21	7 57	1 56	4 45	0 42	9 3	0 47	3 34	16 50	14 50	14 28	27 30	5 58	1 23			
W10	22 8	25 29	4 55	16 10	0 13	20 1	1 58	22 11	5 36	20 46	0 21	7 55	1 56	4 45	0 42	9 3	0 47	3 34	16 50	14 47	14 27	27 30	5 59	1 23			
T 11	22 0	21 52	5 2	15 41	0 24	20 13	1 56	22 17	5 40	20 43	0 22	7 52	1 55	4 45	0 42	9 2	0 47	3 34	16 50	14 44	14 26	27 31	6 0	1 22			
F 12	21 52	16 57	4 48	15 14	0 37	20 24	1 54	22 24	5 44	20 41	0 22	7 50	1 55	4 45	0 42	9 2	0 47	3 34	16 51	14 41	14 25	27 31	6 1	1 22			
S 13	21 43	11 13	4 17	14 46	0 49	20 35	1 52	22 30	5 48	20 38	0 22	7 48	1 55	4 45	0 42	9 1	0 47	3 35	16 51	14 39	14 24	27 32	6 2	1 21			
S 14	21 34	5 8	3 32	14 19	1 2	20 45	1 50	22 36	5 52	20 35	0 22	7 46	1 55	4 45	0 42	9 0	0 47	3 35	16 51	14 37	14 23	27 32	6 3	1 21			
M15	21 25	0s58	2 36	13 53	1 15	20 55	1 47	22 43	5 56	20 33	0 22	7 44	1 55	4 45	0 42	9 0	0 47	3 35	16 52	14 37	14 22	27 33	6 4	1 20			
T 16	21 15	6 51	1 34	13 28	1 29	21 4	1 45	22 49	5 59	20 30	0 22	7 41	1 55	4 45	0 42	8 59	0 47	3 35	16 52	14 36	14 21	27 33	6 5	1 20			
W17	21 4	12 18	0 30	13 4	1 42	21 13	1 42	22 56	6 3	20 27	0 22	7 39	1 55	4 45	0 42	8 59	0 47	3 35	16 52	14 36	14 20	27 34	6 6	1 19			
T 18	20 54	17 10	0s35	12 40	1 56	21 21	1 40	23 2	6 6	20 24	0 22	7 37	1 55	4 45	0 42	8 58	0 47	3 36	16 53	14 36	14 19	27 34	6 8	1 19			
F 19	20 43	21 16	1 37	12 18	2 10	21 29	1 37	23 9	6 10	20 22	0 22	7 34	1 55	4 45	0 42	8 57	0 47	3 36	16 53	14 36	14 18	27 34	6 9	1 19			
S 20	20 32	24 27	2 34	11 57	2 24	21 36	1 35	23 16	6 13	20 19	0 22	7 32	1 55	4 45	0 42	8 57	0 47	3 36	16 53	14 35	14 17	27 35	6 10	1 18			
S 21	20 20	26 33	3 24	11 38	2 37	21 43	1 32	23 22	6 16	20 16	0 22	7 30	1 55	4 45	0 42	8 56	0 47	3 36	16 54	14 33	14 15	27 35	6 12	1 18			
M22	20 8	27 28	4 5	11 20	2 51	21 49	1 30	23 29	6 19	20 13	0 22	7 27	1 54	4 45	0 42	8 55	0 47	3 37	16 54	14 30	14 14	27 36	6 13	1 17			
T 23	19 56	27 6	4 35	11 4	3 5	21 54	1 27	23 36	6 21	20 10	0 23	7 25	1 54	4 45	0 42	8 55	0 47	3 37	16 54	14 26	14 13	27 36	6 14	1 17			
W24	19 43	25 29	4 54	10 49	3 18	21 59	1 24	23 42	6 24	20 7	0 23	7 22	1 54	4 45	0 42	8 54	0 47	3 37	16 55	14 22	14 12	27 36	6 16	1 16			
T 25	19 30	22 41	5 0	10 37	3 31	22 3	1 21	23 49	6 26	20 4	0 23	7 20	1 54	4 45	0 42	8 53	0 47	3 37	16 55	14 18	14 11	27 37	6 17	1 16			
F 26	19 17	18 52	4 52	10 26	3 44	22 7	1 19	23 55	6 28	20 2	0 23	7 18	1 54	4 44	0 42	8 52	0 47	3 38	16 55	14 14	14 10	27 37	6 19	1 15			
S 27	19 3	14 13	4 30	10 18	3 56	22 10	1 16	24 1	6 31	19 59	0 23	7 15	1 54	4 44	0 42	8 52	0 47	3 38	16 56	14 10	14 9	27 37	6 21	1 15			
S 28	18 49	8 55	3 55	10 12	4 7	22 13	1 13	24 8	6 32	19 56	0 23	7 13	1 54	4 44	0 42	8 51	0 47	3 38	16 56	14 7	14 8	27 38	6 22	1 14			
M29	18 35	3 10	3 8	10 8	4 18	22 14	1 10	24 14	6 34	19 53	0 23	7 10	1 54	4 44	0 42	8 50	0 47	3 39	16 56	14 5	14 7	27 38	6 24	1 14			
T 30	18 21	2n49	2 10	10 6	4 27	22 16	1 7	24 20	6 36	19 50	0 23	7 7	1 54	4 44	0 42	8 49	0 47	3 39	16 57	14 4	14 6	27 38	6 25	1 14			
W31	18n 6	8n48	1s 4	10n 7	4s36	22n16	1s 4	24s25	6s37	19n47	0n23	7n 5	1n54	4n43	0s42	8n49	0n47	3s39	16s57	14n 3	14n 5	27s39	6s27	1s13			



ASTRODIENST EPHEMERIS for the year 2097  
geocentric

AUGUST 2097

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 41 38	9♏35°28	8♏50	20°R29	5♏58	8°R33	3♏34	16♏35	13°R37	9♏20	2°R24	7°R39	7♏42	3♏49	13♏36	T 1
F 2	20 45 35	10°32°52	22°39	19♏52	7° 9	8♏17	3°47	16°42	13°Y36	9°22	2♏24	7♏39	7°38	3°56	13°42	F 2
S 3	20 49 31	11°30°18	6♏48	19°12	8°20	8° 0	4° 0	16°48	13°36	9°24	2°24	7°37	7°35	4° 3	13°48	S 3
S 4	20 53 28	12°27°45	21°17	18°29	9°32	7°44	4°14	16°55	13°35	9°26	2°24	7°34	7°32	4° 9	13°53	S 4
M 5	20 57 24	13°25°12	6♏4	17°44	10°43	7°28	4°27	17° 1	13°34	9°28	2°24	7°27	7°29	4°16	13°59	M 5
T 6	21 1 121	14°22°41	21° 1	16°58	11°54	7°12	4°40	17° 8	13°33	9°30	2°24	7°19	7°26	4°23	14° 5	T 6
W 7	21 5 17	15°20°11	6♏1	16°12	13° 6	6°57	4°53	17°15	13°32	9°32	2°24	7° 8	7°22	4°30	14°11	W 7
T 8	21 9 14	16°17°43	20°54	15°25	14°17	6°41	5° 7	17°22	13°31	9°34	2°24	6°57	7°19	4°36	14°17	T 8
F 9	21 13 11	17°15°15	5♏31	14°40	15°28	6°26	5°20	17°28	13°30	9°36	2°24	6°47	7°16	4°43	14°23	F 9
S 10	21 17 7	18°12°47	19°44	13°57	16°40	6°11	5°33	17°35	13°29	9°38	2°24	6°38	7°13	4°50	14°30	S 10
S 11	21 21 4	19°10°21	3♏31	13°16	17°52	5°57	5°46	17°42	13°28	9°40	2°23	6°32	7°10	4°56	14°36	S 11
M12	21 25 0	20° 7°56	16°50	12°40	19° 3	5°43	5°59	17°49	13°27	9°42	2°23	6°29	7° 7	5° 3	14°42	M12
T 13	21 28 57	21° 5°31	29°43	12° 8	20°15	5°30	6°12	17°56	13°26	9°44	2°23	6°27	7° 3	5°10	14°49	T 13
W14	21 32 53	22° 3°08	12♏13	11°41	21°27	5°17	6°25	18° 3	13°25	9°46	2°23	6°D27	7° 0	5°16	14°55	W14
T 15	21 36 50	23° 0°45	24°25	11°20	22°39	5° 4	6°39	18°10	13°23	9°49	2°22	6°R27	6°57	5°23	15° 2	T 15
F 16	21 40 46	23°58°24	6♏25	11° 5	23°51	4°53	6°52	18°17	13°22	9°51	2°22	6°27	6°54	5°30	15° 9	F 16
S 17	21 44 43	24°56°03	18°18	10°57	25° 3	4°42	7° 5	18°24	13°21	9°53	2°22	6°24	6°51	5°37	15°15	S 17
S 18	21 48 40	25°53°44	0♏8	10°D56	26°15	4°31	7°18	18°31	13°19	9°55	2°21	6°19	6°48	5°43	15°22	S 18
M19	21 52 36	26°51°25	12° 0	11° 2	27°27	4°21	7°31	18°39	13°18	9°57	2°21	6°12	6°44	5°50	15°29	M19
T 20	21 56 33	27°49°08	23°58	11°16	28°39	4°12	7°43	18°46	13°16	9°59	2°21	6° 3	6°41	5°57	15°36	T 20
W21	22 0 29	28°46°52	6♏4	11°37	29°51	4° 4	7°56	18°53	13°15	10° 2	2°20	5°51	6°38	6° 3	15°43	W21
T 22	22 4 26	29°44°37	18°19	12° 6	1♏3	3°56	8° 9	19° 0	13°13	10° 4	2°20	5°39	6°35	6°10	15°50	T 22
F 23	22 8 22	0♏42°23	0♏45	12°42	2°16	3°49	8°22	19° 7	13°12	10° 6	2°19	5°28	6°32	6°17	15°57	F 23
S 24	22 12 19	1°40°11	13°23	13°26	3°28	3°43	8°35	19°15	13°10	10° 8	2°19	5°18	6°28	6°23	16° 4	S 24
S 25	22 16 15	2°38°00	26°11	14°17	4°41	3°38	8°47	19°22	13° 9	10°10	2°18	5°10	6°25	6°30	16°11	S 25
M26	22 20 12	3°35°51	9°Y11	15°15	5°53	3°33	9° 0	19°29	13° 7	10°13	2°18	5° 4	6°22	6°37	16°19	M26
T 27	22 24 9	4°33°43	22°22	16°19	7° 6	3°29	9°13	19°37	13° 5	10°15	2°17	5° 2	6°19	6°44	16°26	T 27
W28	22 28 5	5°31°37	5♏45	17°30	8°18	3°26	9°25	19°44	13° 3	10°17	2°17	5°D 1	6°16	6°50	16°33	W28
T 29	22 32 2	6°29°33	19°21	18°47	9°31	3°24	9°38	19°51	13° 2	10°19	2°16	5° 1	6°13	6°57	16°41	T 29
F 30	22 35 58	7°27°31	3♏10	20°10	10°44	3°23	9°51	19°59	13° 0	10°22	2°16	5°R 2	6° 9	7° 4	16°48	F 30
S 31	22 39 55	8♏25°31	17♏13	21♏38	11♏57	3°D22	10♏3	20♏6	12°Y58	10♏24	2♏15	5♏2	6♏6	7♏10	16♏56	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	17n51	14n32	On 6	10n11	4s43	22n17	1s 1	24s31	6s38	19n44	On23	7n 2	1n54	4n43	0s42	8n48
F 2	17 35	19 41	1 18	10 17	4 49	22 16	0 58	24 36	6 39	19 41	0 23	7 0	1 54	4 43	0 43	8 47
S 3	17 19	23 51	2 27	10 25	4 53	22 15	0 55	24 41	6 40	19 38	0 24	6 57	1 54	4 42	0 43	8 46
S 4	17 3	26 37	3 29	10 35	4 56	22 13	0 52	24 46	6 41	19 35	0 24	6 54	1 54	4 42	0 43	8 46
M 5	16 47	27 34	4 17	10 48	4 56	22 11	0 49	24 51	6 41	19 31	0 24	6 52	1 53	4 42	0 43	8 45
T 6	16 31	26 32	4 49	11 3	4 56	22 8	0 46	24 55	6 41	19 28	0 24	6 49	1 53	4 41	0 43	8 44
W 7	16 14	23 36	5 0	11 19	4 53	22 4	0 43	24 59	6 41	19 25	0 24	6 46	1 53	4 41	0 43	8 43
T 8	15 57	19 8	4 52	11 37	4 48	22 0	0 40	25 3	6 41	19 22	0 24	6 44	1 53	4 41	0 43	8 43
F 9	15 39	13 35	4 24	11 56	4 42	21 55	0 37	25 7	6 41	19 19	0 24	6 41	1 53	4 40	0 43	8 42
S 10	15 22	7 26	3 40	12 16	4 34	21 50	0 34	25 10	6 40	19 16	0 24	6 38	1 53	4 40	0 43	8 41
S 11	15 4	1 7	2 45	12 36	4 24	21 44	0 31	25 13	6 39	19 13	0 24	6 36	1 53	4 39	0 43	8 40
M12	14 46	5s 2	1 42	12 57	4 13	21 37	0 28	25 16	6 38	19 10	0 24	6 33	1 53	4 39	0 43	8 39
T 13	14 28	10 49	0 36	13 18	4 0	21 30	0 25	25 18	6 37	19 7	0 25	6 30	1 53	4 38	0 43	8 39
W14	14 9	15 59	0s31	13 39	3 46	21 22	0 22	25 20	6 36	19 3	0 25	6 27	1 53	4 38	0 43	8 38
T 15	13 50	20 23	1 34	13 59	3 31	21 13	0 19	25 22	6 35	19 0	0 25	6 25	1 53	4 37	0 43	8 37
F 16	13 31	23 52	2 32	14 19	3 15	21 4	0 16	25 23	6 33	18 57	0 25	6 22	1 53	4 37	0 43	8 36
S 17	13 12	26 17	3 23	14 37	2 59	20 54	0 13	25 24	6 31	18 54	0 25	6 19	1 53	4 36	0 43	8 35
S 18	12 53	27 30	4 5	14 53	2 41	20 44	0 10	25 25	6 29	18 51	0 25	6 16	1 53	4 36	0 43	8 35
M19	12 33	27 28	4 36	15 9	2 24	20 33	0 7	25 26	6 27	18 47	0 25	6 13	1 53	4 35	0 43	8 34
T 20	12 14	26 9	4 55	15 22	2 6	20 22	0 4	25 26	6 25	18 44	0 25	6 11	1 53	4 35	0 43	8 33
W21	11 54	23 37	5 2	15 33	1 49	20 10	0 1	25 25	6 23	18 41	0 25	6 8	1 53	4 34	0 43	8 32
T 22	11 33	20 0	4 55	15 42	1 31	19 57	On 2	25 25	6 20	18 38	0 26	6 5	1 53	4 33	0 43	8 31
F 23	11 13	15 28	4 34	15 49	1 14	19 44	0 5	25 24	6 18	18 35	0 26	6 2	1 53	4 33	0 43	8 31
S 24	10 53	10 12	3 59	15 53	0 57	19 30	0 8	25 23	6 15	18 31	0 26	5 59	1 53	4 32	0 43	8 30
S 25	10 32	4 27	3 11	15 54	0 40	19 15	0 11	25 22	6 12	18 28	0 26	5 56	1 53	4 32	0 43	8 29
M26	10 11	1n36	2 13	15 52	0 24	19 1	0 13	25 20	6 9	18 25	0 26	5 53	1 53	4 31	0 43	8 28
T 27	9 50	7 40	1 7	15 47	0 9	18 45	0 16	25 18	6 6	18 22	0 26	5 51	1 53	4 30	0 43	8 27
W28	9 29	13 30	On 4	15 40	On 5	18 29	0 19	25 16	6 3	18 18	0 26	5 48	1 53	4 30	0 43	8 26
T 29	9 8	18 46	1 16	15 29	0 19	18 13	0 22	25 13	6 0	18 15	0 26	5 45	1 53	4 29	0 43	8 26
F 30	8 46	23 9	2 25	15 15	0 32	17 56	0 24	25 10	5 57	18 12	0 26	5 42	1 53	4 28	0 43	8 25
S 31	8n24	26n14	3n26	14n58	On43	17n38	On27	25s 7	5s54	18n 9	On27	5n39	1n53	4n27	0s43	8n24

Julian Day Number = 2487186.5, Delta T = 92.08 sec  
Ecliptic obliquity = 23°25'43", Nutation = - 0°00'09", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°06'13", Lahiri = 25°13'14"

# ASTRODIENST EPHEMERIS for the year 2097

## geocentric

SEPTEMBER 2097

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 43 51	9♍23'33	1♌29	23♏11	13♏10	3♏22	10♏16	20♏14	12♏R56	10♏26	2♏R15	5♏R 0	6♏3	7♏17	17♏3	S 1
M 2	22 47 48	10°21'36	15°56	24°48	14°23	3°23	10°28	20°21	12♏Y54	10°28	2♏14	4♏56	6° 0	7°24	17°11	M 2
T 3	22 51 44	11°19'42	0♌30	26°29	15°36	3°25	10°40	20°28	12°52	10°30	2°13	4°50	5°57	7°31	17°19	T 3
W 4	22 55 41	12°17'49	15° 6	28°13	16°49	3°27	10°53	20°36	12°50	10°33	2°13	4°42	5°54	7°37	17°26	W 4
T 5	22 59 38	13°15'58	29°36	29°59	18° 2	3°31	11° 5	20°43	12°48	10°35	2°12	4°34	5°50	7°44	17°34	T 5
F 6	23 3 34	14°14'09	13♏55	1♏49	19°15	3°35	11°17	20°51	12°46	10°37	2°11	4°26	5°47	7°51	17°42	F 6
S 7	23 7 31	15°12'21	27°55	3°40	20°28	3°40	11°29	20°58	12°44	10°39	2°11	4°20	5°44	7°57	17°50	S 7
S 8	23 11 27	16°10'35	11♌34	5°32	21°41	3°46	11°41	21° 6	12°42	10°42	2°10	4°15	5°41	8° 4	17°58	S 8
M 9	23 15 24	17° 8'51	24°49	7°26	22°55	3°53	11°53	21°13	12°40	10°44	2° 9	4°13	5°38	8°11	18° 6	M 9
T 10	23 19 20	18° 7'09	7♏41	9°20	24° 8	4° 0	12° 5	21°21	12°38	10°46	2° 8	4°D12	5°34	8°17	18°14	T 10
W11	23 23 17	19° 5'28	20°12	11°15	25°21	4° 9	12°17	21°28	12°36	10°48	2° 8	4°13	5°31	8°24	18°22	W11
T 12	23 27 13	20° 3'48	2♏27	13°10	26°35	4°18	12°29	21°36	12°34	10°50	2° 7	4°15	5°28	8°31	18°30	T 12
F 13	23 31 10	21° 2'10	14°28	15° 4	27°48	4°27	12°41	21°43	12°32	10°53	2° 6	4°16	5°25	8°38	18°38	F 13
S 14	23 35 6	22° 0'34	26°22	16°59	29° 2	4°38	12°52	21°51	12°29	10°55	2° 5	4°R16	5°22	8°44	18°46	S 14
S 15	23 39 3	22°58'59	8♏14	18°53	0♏16	4°49	13° 4	21°58	12°27	10°57	2° 4	4°15	5°19	8°51	18°54	S 15
M16	23 43 0	23°57'26	20° 8	20°47	1°29	5° 1	13°16	22° 6	12°25	10°59	2° 4	4°12	5°15	8°58	19° 2	M16
T 17	23 46 56	24°55'55	2♏9	22°40	2°43	5°14	13°27	22°13	12°23	11° 1	2° 3	4° 7	5°12	9° 4	19°11	T 17
W18	23 50 53	25°54'25	14°20	24°32	3°57	5°27	13°38	22°21	12°20	11° 3	2° 2	4° 1	5° 9	9°11	19°19	W18
T 19	23 54 49	26°52'56	26°44	26°23	5°11	5°41	13°50	22°28	12°18	11° 6	2° 1	3°54	5° 6	9°18	19°27	T 19
F 20	23 58 46	27°51'30	9♏22	28°13	6°24	5°56	14° 1	22°36	12°16	11° 8	2° 0	3°48	5° 3	9°25	19°36	F 20
S 21	0 2 42	28°50'05	22°16	0♌3	7°38	6°12	14°12	22°43	12°13	11°10	1°59	3°42	4°59	9°31	19°44	S 21
S 22	0 6 39	29°48'42	5♏24	1°51	8°52	6°28	14°23	22°51	12°11	11°12	1°58	3°38	4°56	9°38	19°52	S 22
M23	0 10 35	0♌47'21	18°47	3°39	10° 6	6°44	14°34	22°58	12° 9	11°14	1°57	3°36	4°53	9°45	20° 1	M23
T 24	0 14 32	1°46'03	2♏21	5°26	11°20	7° 2	14°45	23° 6	12° 6	11°16	1°56	3°D35	4°50	9°51	20° 9	T 24
W25	0 18 29	2°44'46	16° 7	7°11	12°34	7°20	14°56	23°13	12° 4	11°18	1°55	3°35	4°47	9°58	20°18	W25
T 26	0 22 25	3°43'32	0♏1	8°56	13°48	7°38	15° 7	23°21	12° 2	11°21	1°54	3°37	4°44	10° 5	20°26	T 26
F 27	0 26 22	4°42'20	14° 3	10°40	15° 2	7°57	15°18	23°28	11°59	11°23	1°53	3°38	4°40	10°12	20°35	F 27
S 28	0 30 18	5°41'10	28°10	12°23	16°17	8°17	15°28	23°36	11°57	11°25	1°52	3°39	4°37	10°18	20°43	S 28
S 29	0 34 15	6°40'02	12♌21	14° 5	17°31	8°37	15°39	23°43	11°54	11°27	1°51	3°R39	4°34	10°25	20°52	S 29
M30	0 38 11	7♌38'57	26♌35	15♌46	18♏45	8♏58	15♌49	23♏50	11♏52	11♏29	1♏50	3♏38	4♏31	10♏32	21♌0	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n 3	27n41	4n15	14n38	0n54	17n20	0n30	25s 4	5s50	18n 5	0n27	5n36	1n53	4n27	0s43	8n23	0n47	3s52	17s 7	13n11	13n32	27s44	7s37	1s 0	
M 2	7 41	27 16	4 49	14 15	1 4	17 1	0 32	25 0	5 47	18 2	0 27	5 33	1 53	4 26	0 43	8 22	0 47	3 52	17 7	13 10	13 31	27 44	7 40	1 0	
T 3	7 19	25 0	5 5	13 49	1 13	16 42	0 35	24 57	5 43	17 59	0 27	5 30	1 53	4 25	0 43	8 21	0 47	3 53	17 8	13 7	13 30	27 44	7 43	0 59	
W 4	6 57	21 5	5 1	13 21	1 20	16 23	0 37	24 53	5 40	17 56	0 27	5 27	1 53	4 24	0 43	8 21	0 47	3 53	17 8	13 5	13 29	27 44	7 45	0 59	
T 5	6 34	15 56	4 37	12 50	1 27	16 3	0 40	24 48	5 36	17 53	0 27	5 24	1 53	4 24	0 43	8 20	0 47	3 54	17 8	13 2	13 28	27 44	7 48	0 59	
F 6	6 12	9 58	3 57	12 16	1 33	15 43	0 42	24 44	5 33	17 49	0 27	5 21	1 53	4 23	0 43	8 19	0 47	3 54	17 9	13 0	13 27	27 44	7 51	0 58	
S 7	5 50	3 37	3 3	11 41	1 38	15 22	0 44	24 39	5 29	17 46	0 27	5 19	1 53	4 22	0 43	8 18	0 47	3 55	17 9	12 57	13 26	27 44	7 53	0 58	
S 8	5 27	2s45	1 59	11 3	1 42	15 0	0 47	24 34	5 25	17 43	0 28	5 16	1 53	4 21	0 43	8 17	0 47	3 55	17 9	12 56	13 25	27 44	7 56	0 58	
M 9	5 4	8 49	0 51	10 24	1 44	14 39	0 49	24 29	5 21	17 40	0 28	5 13	1 53	4 20	0 43	8 16	0 47	3 56	17 9	12 55	13 24	27 44	7 59	0 57	
T 10	4 42	14 22	0s19	9 43	1 46	14 17	0 51	24 23	5 18	17 36	0 28	5 10	1 53	4 19	0 43	8 16	0 48	3 56	17 10	12 55	13 22	27 44	8 1	0 57	
W11	4 19	19 10	1 25	9 0	1 48	13 54	0 53	24 17	5 14	17 33	0 28	5 7	1 53	4 19	0 43	8 15	0 48	3 56	17 10	12 55	13 21	27 44	8 4	0 57	
T 12	3 56	23 2	2 27	8 17	1 48	13 31	0 55	24 12	5 10	17 30	0 28	5 4	1 53	4 18	0 43	8 14	0 48	3 57	17 10	12 56	13 20	27 44	8 7	0 56	
F 13	3 33	25 51	3 20	7 32	1 48	13 8	0 57	24 5	5 6	17 27	0 28	5 1	1 53	4 17	0 43	8 13	0 48	3 57	17 10	12 56	13 19	27 44	8 10	0 56	
S 14	3 10	27 28	4 5	6 47	1 47	12 44	0 59	23 59	5 2	17 24	0 28	4 58	1 53	4 16	0 43	8 12	0 48	3 58	17 10	12 56	13 18	27 44	8 12	0 56	
S 15	2 47	27 49	4 39	6 1	1 45	12 20	1 1	23 53	4 59	17 20	0 28	4 55	1 53	4 15	0 43	8 11	0 48	3 58	17 11	12 56	13 17	27 44	8 15	0 55	
M16	2 24	26 52	5 1	5 14	1 43	11 56	1 3	23 46	4 55	17 17	0 29	4 52	1 53	4 14	0 43	8 11	0 48	3 59	17 11	12 55	13 16	27 44	8 18	0 55	
T 17	2 1	24 42	5 10	4 27	1 41	11 31	1 5	23 39	4 51	17 14	0 29	4 49	1 53	4 13	0 43	8 10	0 48	3 59	17 11	12 53	13 15	27 44	8 21	0 55	
W18	1 38	21 23	5 5	3 40	1 37	11 6	1 7	23 32	4 47	17 11	0 29	4 46	1 54	4 12	0 43	8 9	0 48	4 0	17 11	12 51	13 14	27 44	8 24	0 54	
T 19	1 14	17 4	4 46	2 52	1 34	10 40	1 9	23 25	4 43	17 8	0 29	4 43	1 54	4 12	0 43	8 8	0 48	4 0	17 11	12 49	13 13	27 44	8 26	0 54	
F 20	0 51	11 57	4 13	2 5	1 30	10 15	1 10	23 17	4 39	17 5	0 29	4 41	1 54	4 11	0 43	8 7	0 48	4 1	17 12	12 47	13 12	27 43	8 29	0 54	
S 21	0 28	6 13	3 26	1 17	1 25	9 49	1 12	23 10	4 36	17 2	0 29	4 38	1 54	4 10	0 43	8 7	0 48	4 1	17 12	12 45	13 11	27 43	8 32	0 53	
S 22	0 4	0 7	2 28	0 30	1 20	9 22	1 13	23 2	4 32	16 59	0 29	4 35	1 54	4 9	0 43	8 6	0 48	4 2	17 12	12 43	13 10	27 43	8 35	0 53	
M23	0s19	6n 7	1 20	0s18	1 15	8 56	1 15	22 54	4 28	16 56	0 30	4 32	1 54	4 8	0 43	8 5	0 48	4 2	17 12	12 43	13 9	27 43	8 38	0 53	
T 24	0 42	12 11	0 7	1 5	1 10	8 29	1 16	22 46	4 24	16 52	0 30	4 29	1 54	4 7	0 43	8 4	0 48	4 3	17 12	12 42	13 8	27 43	8 41	0 52	
W25	1 5	17 44	1n 8	1 52	1 4	8 2	1 17	22 38	4 20	16 49	0 30	4 26	1 54	4 6	0 43	8 3	0 48	4 3	17 13	12 42	13 7	27 43	8 44	0 52	
T 26	1 29	22 25	2 20	2 39	0 59	7 35	1 19	22 29	4 17	16 46	0 30	4 23	1 54	4 5	0 43	8 3	0 48	4 4	17 13	12 43	13 5	27 43	8 47	0 52	
F 27	1 52	25 51	3 24	3 25	0 53	7 7	1 20	22 20	4 13	16 43	0 30	4 20	1 54	4 4	0 43	8 2	0 48	4 4	17 13	12 43	13 4	27 42	8 49	0 51	
S 28	2 15	27 41	4 16	4 11	0 46	6 39	1 21	22 12	4 9	16 40	0 30	4 18	1 54	4 3	0 43	8 1	0 48	4 4	17 13	12 44	13 3	27 42	8 52	0 51	
S 29	2 39	27 42	4 52	4 56	0 40	6 11	1 22	22 3	4 5	16 37	0 31	4 15	1 54	4 2	0 43	8 0	0 48	4 5	17 13	12 44	13 2	27 42	8 55	0 51	
M30	3s 2	25n55	5n11	5s41	0n33	5n43	1n23	21s54	4s 2	16n34	0n31	4n12	1n54	4n 1	0s43	8n 0	0n48	4s 5	17s13	12n43	13n 1	27s42	8s58	0s50	

ASTRODIENST EPHEMERIS for the year 2097  
geocentric

OCTOBER 2097

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 42 8	8♂37°54	10♂48	17♂26	19♂59	9♂19	16♂0	23♂58	11°R49	11♂31	1°R49	3°R36	4♂28	10♂38	21♂9	T 1
W 2	0 46 4	9°36'53	24°57	19° 5	21°14	9°41	16°10	24° 5	11°Y47	11°33	1♂48	3♂33	4°25	10°45	21°17	W 2
T 3	0 50 1	10°35'55	8♂59	20°43	22°28	10° 3	16°20	24°12	11°45	11°35	1°47	3°29	4°21	10°52	21°26	T 3
F 4	0 53 58	11°34'59	22°51	22°21	23°43	10°26	16°30	24°20	11°42	11°37	1°46	3°26	4°18	10°59	21°35	F 4
S 5	0 57 54	12°34'04	6♂28	23°57	24°57	10°50	16°40	24°27	11°40	11°39	1°45	3°24	4°15	11° 5	21°43	S 5
S 6	1 1 51	13°33'12	19°49	25°33	26°12	11°13	16°50	24°34	11°37	11°41	1°44	3°22	4°12	11°12	21°52	S 6
M 7	1 5 47	14°32'22	2♂51	27° 8	27°26	11°38	17° 0	24°41	11°35	11°43	1°43	3°D21	4° 9	11°19	22° 1	M 7
T 8	1 9 44	15°31'34	15°36	28°43	28°41	12° 2	17°10	24°49	11°33	11°45	1°42	3°22	4° 5	11°25	22° 9	T 8
W 9	1 13 40	16°30'47	28° 4	0♂16	29°55	12°28	17°19	24°56	11°30	11°47	1°41	3°23	4° 2	11°32	22°18	W 9
T 10	1 17 37	17°30'03	10♂17	1°49	1♂10	12°53	17°29	25° 3	11°28	11°48	1°40	3°24	3°59	11°39	22°27	T 10
F 11	1 21 33	18°29'20	22°19	3°21	2°25	13°19	17°38	25°10	11°25	11°50	1°39	3°26	3°56	11°45	22°36	F 11
S 12	1 25 30	19°28'40	4♂14	4°52	3°39	13°46	17°47	25°17	11°23	11°52	1°37	3°27	3°53	11°52	22°44	S 12
S 13	1 29 27	20°28'01	16° 6	6°23	4°54	14°13	17°56	25°24	11°20	11°54	1°36	3°R27	3°50	11°59	22°53	S 13
M14	1 33 23	21°27'23	28° 0	7°52	6° 9	14°40	18° 5	25°31	11°18	11°56	1°35	3°27	3°46	12° 6	23° 2	M14
T 15	1 37 20	22°26'48	10♂1	9°21	7°24	15° 8	18°14	25°38	11°16	11°58	1°34	3°27	3°43	12°12	23°10	T 15
W16	1 41 16	23°26'14	22°13	10°50	8°38	15°36	18°23	25°45	11°13	11°59	1°33	3°26	3°40	12°19	23°19	W16
T 17	1 45 13	24°25'42	4♂40	12°17	9°53	16° 5	18°32	25°52	11°11	12° 1	1°32	3°24	3°37	12°26	23°28	T 17
F 18	1 49 9	25°25'12	17°25	13°44	11° 8	16°33	18°40	25°59	11° 9	12° 3	1°31	3°23	3°34	12°32	23°37	F 18
S 19	1 53 6	26°24'43	0°Y29	15°10	12°23	17° 3	18°49	26° 6	11° 6	12° 5	1°30	3°22	3°31	12°39	23°45	S 19
S 20	1 57 2	27°24'17	13°54	16°35	13°38	17°32	18°57	26°13	11° 4	12° 6	1°29	3°22	3°27	12°46	23°54	S 20
M21	2 0 59	28°23'52	27°38	17°59	14°53	18° 2	19° 5	26°19	11° 2	12° 8	1°27	3°D21	3°24	12°53	24° 3	M21
T 22	2 4 56	29°23'30	11♂39	19°23	16° 8	18°32	19°13	26°26	11° 0	12°10	1°26	3°22	3°21	12°59	24°11	T 22
W23	2 8 52	0♂13°09	25°53	20°46	17°23	19° 2	19°21	26°33	10°57	12°11	1°25	3°22	3°18	13° 6	24°20	W23
T 24	2 12 49	1°22'51	10♂11	22° 7	18°38	19°33	19°29	26°40	10°55	12°13	1°24	3°22	3°15	13°13	24°29	T 24
F 25	2 16 45	2°22'35	24°40	23°28	19°53	20° 4	19°36	26°46	10°53	12°14	1°23	3°22	3°11	13°19	24°37	F 25
S 26	2 20 42	3°22'21	9♂5	24°47	21° 8	20°35	19°44	26°53	10°51	12°16	1°22	3°R22	3° 8	13°26	24°46	S 26
S 27	2 24 38	4°22'09	23°24	26° 6	22°23	21° 7	19°51	26°59	10°48	12°18	1°21	3°22	3° 5	13°33	24°55	S 27
M28	2 28 35	5°22'00	7♂23	27°23	23°38	21°39	19°58	27° 6	10°46	12°19	1°19	3°D22	3° 2	13°40	25° 3	M28
T 29	2 32 31	6°21'53	21°36	28°39	24°53	22°11	20° 6	27°12	10°44	12°21	1°18	3°22	2°59	13°46	25°12	T 29
W30	2 36 28	7°21'48	5♂25	29°53	26° 8	22°43	20°12	27°18	10°42	12°22	1°17	3°22	2°56	13°53	25°21	W30
T 31	2 40 25	8♂21°45	19♂2	1♂6	27♂23	23♂16	20♂19	27♂25	10°Y40	12♂23	1♂16	3♂23	2♂52	14♂0	25♂29	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	3s25	22n30	5n11	6s26	0n27	5n15	1n24	21s44	3s58	16n31	0n31	4n 9	1n54	4n 0	0s43	7n59
W 2	3 48	17 47	4 52	7 10	0 20	4 46	1 25	21 35	3 55	16 29	0 31	4 6	1 55	3 59	0 43	7 58
T 3	4 12	12 9	4 16	7 53	0 13	4 18	1 26	21 25	3 51	16 26	0 31	4 3	1 55	3 59	0 43	7 57
F 4	4 35	5 58	3 25	8 36	0 6	3 49	1 26	21 16	3 47	16 23	0 31	4 1	1 55	3 58	0 43	7 57
S 5	4 58	0s23	2 23	9 18	0s 1	3 20	1 27	21 6	3 44	16 20	0 31	3 58	1 55	3 57	0 43	7 56
S 6	5 21	6 36	1 14	10 0	0 8	2 51	1 28	20 56	3 40	16 17	0 32	3 55	1 55	3 56	0 43	7 55
M 7	5 44	12 25	0 3	10 41	0 15	2 22	1 28	20 45	3 37	16 14	0 32	3 52	1 55	3 55	0 43	7 54
T 8	6 7	17 34	1s 7	11 21	0 22	1 53	1 29	20 35	3 33	16 12	0 32	3 49	1 55	3 54	0 43	7 54
W 9	6 29	21 52	2 12	12 1	0 29	1 23	1 29	20 25	3 30	16 9	0 32	3 47	1 55	3 53	0 43	7 53
T 10	6 52	25 7	3 10	12 40	0 36	0 54	1 29	20 14	3 26	16 6	0 32	3 44	1 55	3 52	0 43	7 52
F 11	7 15	27 11	3 59	13 18	0 43	0 25	1 29	20 3	3 23	16 3	0 32	3 41	1 56	3 51	0 43	7 52
S 12	7 37	27 58	4 36	13 56	0 50	0s 5	1 30	19 52	3 20	16 1	0 33	3 39	1 56	3 50	0 43	7 51
S 13	8 0	27 27	5 2	14 32	0 57	0 34	1 30	19 41	3 16	15 58	0 33	3 36	1 56	3 49	0 43	7 50
M14	8 22	25 41	5 15	15 8	1 4	1 4	1 30	19 30	3 13	15 55	0 33	3 33	1 56	3 48	0 43	7 50
T 15	8 44	22 46	5 14	15 43	1 11	1 34	1 30	19 18	3 10	15 53	0 33	3 31	1 56	3 47	0 43	7 49
W16	9 6	18 49	5 0	16 18	1 18	2 3	1 30	19 7	3 6	15 50	0 33	3 28	1 56	3 46	0 43	7 48
T 17	9 28	14 0	4 31	16 51	1 24	2 33	1 29	18 55	3 3	15 48	0 33	3 25	1 56	3 46	0 43	7 48
F 18	9 50	8 28	3 48	17 24	1 31	3 2	1 29	18 43	3 0	15 45	0 34	3 23	1 56	3 45	0 43	7 47
S 19	10 11	2 26	2 52	17 56	1 37	3 32	1 29	18 32	2 57	15 43	0 34	3 20	1 57	3 44	0 43	7 46
S 20	10 33	3n51	1 46	18 26	1 43	4 1	1 28	18 19	2 54	15 41	0 34	3 17	1 57	3 43	0 43	7 46
M21	10 54	10 8	0 32	18 56	1 50	4 30	1 28	18 7	2 50	15 38	0 34	3 15	1 57	3 42	0 43	7 45
T 22	11 15	16 3	0n46	19 25	1 55	5 0	1 27	17 55	2 47	15 36	0 34	3 12	1 57	3 41	0 43	7 45
W23	11 36	21 11	2 2	19 53	2 1	5 29	1 27	17 43	2 44	15 34	0 35	3 10	1 57	3 40	0 43	7 44
T 24	11 57	25 7	3 11	20 20	2 7	5 58	1 26	17 30	2 41	15 31	0 35	3 7	1 57	3 39	0 43	7 43
F 25	12 18	27 27	4 8	20 46	2 12	6 27	1 26	17 17	2 38	15 29	0 35	3 5	1 57	3 39	0 43	7 43
S 26	12 38	27 55	4 49	21 10	2 17	6 56	1 25	17 4	2 35	15 27	0 35	3 2	1 58	3 38	0 43	7 42
S 27	12 58	26 32	5 12	21 34	2 22	7 24	1 24	16 51	2 32	15 25	0 35	3 0	1 58	3 37	0 43	7 42
M28	13 18	23 27	5 16	21 56	2 26	7 53	1 23	16 38	2 29	15 23	0 36	2 58	1 58	3 36	0 43	7 41
T 29	13 38	19 3	5 1	22 18	2 31	8 21	1 22	16 25	2 27	15 21	0 36	2 55	1 58	3 35	0 43	7 41
W30	13 58	13 41	4 29	22 38	2 34	8 50	1 21	16 12	2 24	15 19	0 36	2 53	1 58	3 34	0 43	7 40
T 31	14s17	7n44	3n42	22s57	2s38	9s18	1n20	15s58	2s21	15n17	0n36	2n50	1n58	3n34	0s43	7n40

Julian Day Number = 2487247.5, Delta T = 92.15 sec  
Ecliptic obliquity = 23°25'44, Nutation = - 0°00'10, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 26°06'22, Lahiri = 25°13'22

ASTRODIENST EPHEMERIS for the year 2097  
geocentric

NOVEMBER 2097

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 44 21	9♍21'44	2♊26	2♊17	28♊38	23♊49	20♊26	27♊31	10°R38	12♊25	1°R15	3♊23	2♊49	14♊6	25♊38	F 1
S 2	2 48 18	10°21'45	15°37	3°26	29°53	24°22	20°32	27°37	10°Y36	12°26	1♊14	3°24	2°46	14°13	25°46	S 2
S 3	2 52 14	11°21'49	28°35	4°33	1♍ 9	24°56	20°39	27°43	10°34	12°28	1°13	3°R24	2°43	14°20	25°55	S 3
M 4	2 56 11	12°21'54	11♍19	5°38	2°24	25°29	20°45	27°49	10°32	12°29	1°12	3°24	2°40	14°27	26° 3	M 4
T 5	3 0 7	13°22'01	23°50	6°40	3°39	26° 3	20°51	27°55	10°30	12°30	1°10	3°24	2°36	14°33	26°12	T 5
W 6	3 4 4	14°22'10	6♊10	7°39	4°54	26°37	20°57	28° 1	10°28	12°31	1° 9	3°23	2°33	14°40	26°20	W 6
T 7	3 8 0	15°22'21	18°18	8°34	6°10	27°11	21° 3	28° 7	10°26	12°33	1° 8	3°21	2°30	14°47	26°29	T 7
F 8	3 11 57	16°22'33	0♊18	9°26	7°25	27°46	21° 8	28°13	10°25	12°34	1° 7	3°19	2°27	14°53	26°37	F 8
S 9	3 15 54	17°22'47	12°12	10°14	8°40	28°21	21°14	28°19	10°23	12°35	1° 6	3°17	2°24	15° 0	26°46	S 9
S 10	3 19 50	18°23'03	24° 3	10°57	9°55	28°56	21°19	28°25	10°21	12°36	1° 5	3°15	2°21	15° 7	26°54	S 10
M 11	3 23 47	19°23'20	5♊56	11°34	11°11	29°31	21°24	28°30	10°19	12°37	1° 4	3°14	2°17	15°14	27° 2	M 11
T 12	3 27 43	20°23'38	17°54	12° 6	12°26	0♊ 6	21°29	28°36	10°18	12°38	1° 3	3°D13	2°14	15°20	27°11	T 12
W 13	3 31 40	21°23'58	0♊ 3	12°31	13°41	0°41	21°33	28°41	10°16	12°40	1° 2	3°13	2°11	15°27	27°19	W 13
T 14	3 35 36	22°24'19	12°27	12°50	14°57	1°17	21°38	28°47	10°14	12°41	1° 1	3°14	2° 8	15°34	27°27	T 14
F 15	3 39 33	23°24'41	25°10	13° 0	16°12	1°53	21°42	28°52	10°13	12°42	1° 0	3°16	2° 5	15°41	27°35	F 15
S 16	3 43 29	24°25'05	8♊16	13°R 1	17°27	2°29	21°47	28°58	10°11	12°43	0°59	3°17	2° 2	15°47	27°44	S 16
S 17	3 47 26	25°25'31	21°47	12°53	18°43	3° 5	21°51	29° 3	10°10	12°43	0°58	3°18	1°58	15°54	27°52	S 17
M 18	3 51 23	26°25'57	5♊43	12°35	19°58	3°41	21°54	29° 8	10° 8	12°44	0°57	3°R19	1°55	16° 1	28° 0	M 18
T 19	3 55 19	27°26'26	20° 3	12° 7	21°14	4°18	21°58	29°13	10° 7	12°45	0°56	3°18	1°52	16° 7	28° 8	T 19
W 20	3 59 16	28°26'55	4♊41	11°29	22°29	4°54	22° 2	29°18	10° 5	12°46	0°55	3°16	1°49	16°14	28°16	W 20
T 21	4 3 12	29°27'27	19°32	10°40	23°44	5°31	22° 5	29°23	10° 4	12°47	0°54	3°13	1°46	16°21	28°24	T 21
F 22	4 7 9	0♊28'00	4♊26	9°41	25° 0	6° 8	22° 8	29°28	10° 3	12°48	0°53	3° 9	1°42	16°28	28°32	F 22
S 23	4 11 5	1°28'35	19°16	8°34	26°15	6°45	22°11	29°33	10° 1	12°48	0°52	3° 5	1°39	16°34	28°40	S 23
S 24	4 15 2	2°29'11	3♊54	7°20	27°31	7°22	22°14	29°38	10° 0	12°49	0°51	3° 1	1°36	16°41	28°47	S 24
M 25	4 18 58	3°29'49	18°16	6° 0	28°46	7°59	22°17	29°42	9°59	12°50	0°50	2°59	1°33	16°48	28°55	M 25
T 26	4 22 55	4°30'29	2♊18	4°38	0♊ 1	8°36	22°19	29°47	9°58	12°50	0°49	2°D58	1°30	16°54	29° 3	T 26
W 27	4 26 52	5°31'10	15°59	3°17	1°17	9°14	22°21	29°51	9°57	12°51	0°48	2°59	1°27	17° 1	29°11	W 27
T 28	4 30 48	6°31'53	29°21	1°58	2°32	9°51	22°23	29°56	9°56	12°52	0°47	3° 0	1°23	17° 8	29°18	T 28
F 29	4 34 45	7°32'37	12♊26	0°45	3°48	10°29	22°25	29°59	9°55	12°52	0°46	3° 2	1°20	17°15	29°26	F 29
S 30	4 38 41	8♊33'23	25♊16	29♍39	5♊ 3	11♊ 7	22♊27	0♊ 4	9°Y54	12♊53	0♊45	3♊ 3	1♊17	17♊21	29♊33	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
F 1	14s36	1n32	2n43	23s14	2s41	9s45	1n19	15s45	2s18	15n15	0n36	2n48	1n59	3n33	0s43	7n39	0n49	4s18	17s15	12n38	12n27	27s32	10s32	0s41			
S 2	14 55	4s39	1 37	23 31	2 44	10 13	1 18	15 31	2 15	15 13	0 37	2 46	1 59	3 32	0 43	7 39	0 49	4 18	17 15	12 39	12 26	27 31	10 35	0 40			
S 3	15 14	10 33	0 27	23 45	2 46	10 40	1 16	15 17	2 13	15 11	0 37	2 44	1 59	3 31	0 43	7 38	0 49	4 19	17 14	12 39	12 25	27 31	10 38	0 40			
M 4	15 32	15 55	0s44	23 59	2 47	11 8	1 15	15 3	2 10	15 9	0 37	2 41	1 59	3 31	0 43	7 38	0 49	4 19	17 14	12 39	12 23	27 30	10 41	0 40			
T 5	15 51	20 31	1 51	24 11	2 48	11 34	1 14	14 49	2 7	15 8	0 37	2 39	1 59	3 30	0 43	7 37	0 49	4 19	17 14	12 38	12 22	27 30	10 43	0 40			
W 6	16 9	24 8	2 51	24 21	2 49	12 1	1 12	14 35	2 4	15 6	0 37	2 37	2 0	3 29	0 43	7 37	0 49	4 20	17 14	12 38	12 21	27 29	10 46	0 39			
T 7	16 26	26 37	3 43	24 30	2 49	12 27	1 11	14 21	2 2	15 4	0 38	2 35	2 0	3 28	0 43	7 36	0 49	4 20	17 14	12 38	12 20	27 29	10 49	0 39			
F 8	16 44	27 51	4 25	24 37	2 48	12 53	1 9	14 7	1 59	15 3	0 38	2 33	2 0	3 28	0 43	7 36	0 49	4 20	17 14	12 37	12 19	27 28	10 52	0 39			
S 9	17 1	27 45	4 55	24 43	2 46	13 19	1 8	13 52	1 57	15 1	0 38	2 30	2 0	3 27	0 43	7 35	0 49	4 20	17 14	12 36	12 18	27 28	10 55	0 38			
S 10	17 18	26 24	5 12	24 46	2 43	13 44	1 6	13 38	1 54	15 0	0 38	2 28	2 0	3 26	0 43	7 35	0 49	4 21	17 14	12 36	12 17	27 27	10 57	0 38			
M 11	17 34	23 52	5 15	24 48	2 40	14 9	1 4	13 23	1 52	14 58	0 38	2 26	2 1	3 26	0 43	7 35	0 49	4 21	17 14	12 35	12 16	27 27	11 0	0 38			
T 12	17 50	20 18	5 5	24 47	2 35	14 34	1 3	13 8	1 49	14 57	0 39	2 24	2 1	3 25	0 43	7 34	0 49	4 21	17 14	12 35	12 15	27 26	11 3	0 38			
W 13	18 6	15 50	4 42	24 45	2 29	14 58	1 1	12 53	1 47	14 55	0 39	2 22	2 1	3 24	0 43	7 34	0 49	4 21	17 13	12 35	12 14	27 26	11 6	0 37			
T 14	18 22	10 39	4 5	24 40	2 22	15 22	0 59	12 38	1 44	14 54	0 39	2 20	2 1	3 24	0 43	7 33	0 49	4 21	17 13	12 35	12 13	27 25	11 8	0 37			
F 15	18 37	4 54	3 15	24 33	2 13	15 46	0 57	12 23	1 42	14 53	0 39	2 18	2 1	3 23	0 43	7 33	0 49	4 22	17 13	12 36	12 11	27 25	11 11	0 37			
S 16	18 52	1n14	2 14	24 23	2 3	16 9	0 55	12 8	1 39	14 52	0 39	2 16	2 2	3 23	0 43	7 33	0 49	4 22	17 13	12 36	12 10	27 24	11 14	0 37			
S 17	19 7	7 30	1 3	24 11	1 52	16 32	0 54	11 53	1 37	14 51	0 40	2 14	2 2	3 22	0 43	7 32	0 49	4 22	17 13	12 37	12 9	27 23	11 16	0 36			
M 18	19 21	13 38	0n13	23 56	1 39	16 54	0 52	11 37	1 35	14 50	0 40	2 13	2 2	3 22	0 43	7 32	0 49	4 22	17 13	12 37	12 8	27 23	11 19	0 36			
T 19	19 35	19 12	1 31	23 38	1 24	17 16	0 50	11 22	1 32	14 49	0 40	2 11	2 2	3 21	0 43	7 32	0 49	4 22	17 12	12 37	12 7	27 22	11 22	0 36			
W 20	19 48	23 45	2 44	23 17	1 8	17 37	0 48	11 6	1 30	14 48	0 40	2 9	2 2	3 21	0 42	7 31	0 49	4 23	17 12	12 36	12 6	27 22	11 24	0 35			
T 21	20 2	26 47	3 47	22 52	0 51	17 58	0 46	10 51	1 28	14 47	0 41	2 7	2 3	3 20	0 42	7 31	0 49	4 23	17 12	12 35	12 5	27 21	11 27	0 35			
F 22	20 14	27 56	4 35	22 25	0 32	18 18	0 43	10 35	1 26	14 46	0 41	2 5	2 3	3 20	0 42	7 31	0 49	4 23	17 12	12 33	12 4	27 21	11 29	0 35			
S 23	20 27	27 3	5 4	21 55	0 12	18 38	0 41	10 19	1 23	14 45	0 41	2 4	2 3	3 19	0 42	7 31	0 50	4 23	17 12	12 32	12 3	27 20	11 32	0 35			
S 24	20 39	24 20	5 13	21 23	0n 8	18 58	0 39	10 4	1 21	14 45	0 41	2 2	2 3	3 19	0 42	7 30	0 50	4 23	17 11	12 31	12 2	27 19	11 34	0 34			
M 25	20 51	20 8	5 2	20 50	0 29	19 16	0 37	9 48	1 19	14 44	0 41	2 0	2 4	3 18	0 42	7 30	0 50	4 23	17 11	12 30	12 0	27 19	11 37	0 34			
T 26	21 2	14 54	4 33	20 15	0 49	19 35	0 35	9 32	1 17	14 44	0 42	1 59	2 4	3 18	0 42	7 30	0 50	4 23	17 11	12 30	11 59	27 18	11 39	0 34			
W 27	21 13	9 2	3 49	19 41	1 8	19 53	0 33	9 16	1 15	14 43	0 42	1 57	2 4	3 17	0 42	7 30	0 50	4 23	17 11	12 30	11 58	27 17	11 42	0 34			
T 28	21 23	2 55	2 54	19 8	1 27	20 10	0 30	9 0	1 13	14 43	0 42	1 56	2 4	3 17	0 42	7 30	0 50	4 23	17 11	12 30	11 57	27 17	11 44	0 33			
F 29	21 34	3s13	1 50	18 37	1 43	20 27	0 28	8 43	1 11	14 42	0 42	1 54	2 5	3 17	0 42	7 29	0 50	4 24	17 10	12 31	11 56	27 16	11 47	0 33			
S 30	21s43	9s7	0n42	18s9	1n58	20s43	0n26	8s27	1s9	14n42	0n43	1n53	2n5	3n16	0s42	7n29	0n50	4s24	17s10	12n31	11n55	27s15	11s49	0s33			

ASTRODIENST EPHEMERIS for the year 2097  
geocentric

DECEMBER 2097

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	4 42 38	9♌34'11	7♍52	28°R43	6♋19	11♌45	22♏28	0♌8	9°R53	12♐53	0°R44	3°R 3	1♌14	17♌28	29♌41	S 1
M 2	4 46 34	10°35'00	20°18	27♍58	7°34	12°23	22°29	0°12	9°Y52	12°54	0♌44	3♌1	1°11	17°35	29°48	M 2
T 3	4 50 31	11°35'50	2♌34	27°24	8°50	13°1	22°30	0°16	9°51	12°54	0°43	2°58	1°8	17°41	29°56	T 3
W 4	4 54 27	12°36'41	14°42	27°2	10°5	13°39	22°31	0°20	9°51	12°54	0°42	2°52	1°4	17°48	0♍3	W 4
T 5	4 58 24	13°37'34	26°44	26°51	11°21	14°17	22°32	0°24	9°50	12°55	0°41	2°45	1°1	17°55	0°10	T 5
F 6	5 2 21	14°38'28	8♌40	26°D50	12°36	14°56	22°32	0°28	9°49	12°55	0°40	2°37	0°58	18°2	0°17	F 6
S 7	5 6 17	15°39'22	20°32	27°0	13°52	15°34	22°33	0°31	9°49	12°55	0°40	2°28	0°55	18°8	0°25	S 7
S 8	5 10 14	16°40'18	2♌23	27°20	15°7	16°13	22°R33	0°35	9°48	12°56	0°39	2°20	0°52	18°15	0°32	S 8
M 9	5 14 10	17°41'14	14°15	27°47	16°23	16°51	22°33	0°38	9°48	12°56	0°38	2°13	0°48	18°22	0°39	M 9
T 10	5 18 7	18°42'11	26°11	28°23	17°38	17°30	22°32	0°41	9°47	12°56	0°37	2°8	0°45	18°29	0°46	T 10
W11	5 22 3	19°43'08	8♌16	29°5	18°54	18°9	22°32	0°45	9°47	12°56	0°37	2°6	0°42	18°35	0°52	W11
T 12	5 26 0	20°44'06	20°34	29°53	20°9	18°48	22°31	0°48	9°46	12°56	0°36	2°D 5	0°39	18°42	0°59	T 12
F 13	5 29 57	21°45'05	3°Y11	0♌47	21°25	19°27	22°30	0°51	9°46	12°56	0°35	2°5	0°36	18°49	1°6	F 13
S 14	5 33 53	22°46'04	16°9	1°45	22°40	20°6	22°29	0°54	9°46	12°R56	0°35	2°7	0°33	18°55	1°13	S 14
S 15	5 37 50	23°47'04	29°35	2°48	23°56	20°45	22°28	0°56	9°46	12°56	0°34	2°R 7	0°29	19°2	1°19	S 15
M16	5 41 46	24°48'05	13♌29	3°54	25°11	21°24	22°26	0°59	9°46	12°56	0°34	2°7	0°26	19°9	1°26	M16
T 17	5 45 43	25°49'06	27°52	5°3	26°27	22°4	22°25	1°2	9°45	12°56	0°33	2°4	0°23	19°16	1°32	T 17
W18	5 49 39	26°50'07	12♌41	6°14	27°42	22°43	22°23	1°4	9°D45	12°56	0°32	1°59	0°20	19°22	1°38	W18
T 19	5 53 36	27°51'09	27°48	7°29	28°58	23°22	22°21	1°7	9°45	12°56	0°32	1°52	0°17	19°29	1°45	T 19
F 20	5 57 32	28°52'12	13♌4	8°45	0♌13	24°2	22°18	1°9	9°46	12°56	0°31	1°43	0°14	19°36	1°51	F 20
S 21	6 1 29	29°53'16	28°18	10°3	1°29	24°41	22°16	1°11	9°46	12°56	0°31	1°34	0°10	19°42	1°57	S 21
S 22	6 5 26	0♌54'20	13♌20	11°22	2°44	25°21	22°13	1°13	9°46	12°55	0°30	1°25	0°7	19°49	2°3	S 22
M23	6 9 22	1°55'24	28°0	12°43	3°59	26°0	22°10	1°15	9°46	12°55	0°30	1°19	0°4	19°56	2°9	M23
T 24	6 13 19	2°56'30	12♐14	14°6	5°15	26°40	22°7	1°17	9°46	12°55	0°29	1°14	0°1	20°3	2°15	T 24
W25	6 17 15	3°57'36	26°1	15°29	6°30	27°19	22°4	1°19	9°47	12°54	0°29	1°12	29°Y58	20°9	2°21	W25
T 26	6 21 12	4°58'43	9♌22	16°53	7°46	27°59	22°1	1°21	9°47	12°54	0°29	1°D12	29°55	20°16	2°27	T 26
F 27	6 25 8	5°59'50	22°20	18°18	9°1	28°39	21°57	1°22	9°47	12°54	0°28	1°13	29°51	20°23	2°32	F 27
S 28	6 29 5	7°0'58	4♍58	19°44	10°17	29°19	21°53	1°24	9°48	12°53	0°28	1°R13	29°48	20°30	2°38	S 28
S 29	6 33 1	8°2'07	17°22	21°11	11°32	29°58	21°50	1°25	9°48	12°53	0°27	1°11	29°45	20°36	2°43	S 29
M30	6 36 58	9°3'16	29°34	22°38	12°48	0°Y38	21°45	1°27	9°49	12°52	0°27	1°8	29°42	20°43	2°49	M30
T 31	6 40 55	10♌4'26	11♌38	24♌6	14♌3	1°Y18	21♏41	1♌28	9°Y50	12♐52	0♌27	1♌1	29°Y39	20♌50	2♍54	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	decl	lat
S 1	21s53	14s32	0s26	17s45	2n10	20s58	0n23	8s11	1s 7	14n42	0n43	1n51	2n 5	3n16	0s42	7n29	0n50	4s24	17s10	12n31	11n54	27s15	11s52	0s32		
M 2	22 1	19 18	1 32	17 25	2 21	21 13	0 21	7 55	1 5	14 41	0 43	1 50	2 5	3 16	0 42	7 29	0 50	4 24	17 10	12 31	11 53	27 14	11 54	0 32		
T 3	22 10	23 10	2 33	17 9	2 29	21 27	0 19	7 38	1 3	14 41	0 43	1 49	2 6	3 15	0 42	7 29	0 50	4 24	17 9	12 30	11 52	27 13	11 56	0 32		
W 4	22 18	25 58	3 26	16 59	2 35	21 41	0 16	7 22	1 1	14 41	0 44	1 47	2 6	3 15	0 42	7 29	0 50	4 24	17 9	12 28	11 51	27 13	11 59	0 32		
T 5	22 26	27 33	4 10	16 52	2 39	21 54	0 14	7 5	0 59	14 41	0 44	1 46	2 6	3 15	0 42	7 29	0 50	4 24	17 9	12 25	11 49	27 12	12 1	0 31		
F 6	22 33	27 50	4 42	16 50	2 41	22 6	0 12	6 49	0 57	14 41	0 44	1 45	2 6	3 15	0 42	7 29	0 50	4 24	17 9	12 22	11 48	27 11	12 3	0 31		
S 7	22 39	26 49	5 1	16 51	2 42	22 18	0 9	6 32	0 55	14 41	0 44	1 44	2 7	3 15	0 42	7 29	0 50	4 24	17 8	12 19	11 47	27 10	12 5	0 31		
S 8	22 46	24 37	5 8	16 57	2 41	22 29	0 7	6 15	0 53	14 42	0 45	1 43	2 7	3 14	0 42	7 28	0 50	4 24	17 8	12 17	11 46	27 10	12 8	0 31		
M 9	22 52	21 21	5 1	17 5	2 39	22 39	0 4	5 59	0 51	14 42	0 45	1 41	2 7	3 14	0 42	7 28	0 50	4 24	17 8	12 14	11 45	27 9	12 10	0 30		
T 10	22 57	17 11	4 41	17 15	2 36	22 49	0 2	5 42	0 50	14 42	0 45	1 40	2 7	3 14	0 42	7 28	0 50	4 24	17 8	12 13	11 44	27 8	12 12	0 30		
W11	23 2	12 19	4 9	17 28	2 32	22 58	0s 0	5 25	0 48	14 43	0 45	1 39	2 8	3 14	0 42	7 28	0 50	4 24	17 7	12 12	11 43	27 7	12 14	0 30		
T 12	23 6	6 52	3 25	17 43	2 27	23 7	0 3	5 8	0 46	14 43	0 45	1 38	2 8	3 14	0 42	7 28	0 50	4 24	17 7	12 11	11 42	27 7	12 16	0 29		
F 13	23 10	1 1	2 29	18 0	2 22	23 14	0 5	4 51	0 44	14 44	0 46	1 37	2 8	3 14	0 42	7 28	0 50	4 24	17 7	12 12	11 41	27 6	12 18	0 29		
S 14	23 14	5n 3	1 25	18 17	2 16	23 21	0 8	4 34	0 43	14 44	0 46	1 36	2 8	3 14	0 42	7 28	0 50	4 24	17 6	12 12	11 39	27 5	12 21	0 29		
S 15	23 17	11 6	0 14	18 36	2 9	23 27	0 10	4 17	0 41	14 45	0 46	1 36	2 9	3 14	0 42	7 28	0 50	4 23	17 6	12 12	11 38	27 4	12 23	0 29		
M16	23 20	16 51	1n 1	18 55	2 2	23 33	0 12	4 0	0 39	14 46	0 46	1 35	2 9	3 14	0 42	7 29	0 50	4 23	17 6	12 12	11 37	27 3	12 25	0 28		
T 17	23 22	21 51	2 14	19 14	1 55	23 37	0 15	3 43	0 37	14 46	0 47	1 34	2 9	3 14	0 41	7 29	0 50	4 23	17 6	12 11	11 36	27 3	12 27	0 28		
W18	23 23	25 36	3 19	19 34	1 48	23 42	0 17	3 26	0 36	14 47	0 47	1 33	2 9	3 14	0 41	7 29	0 50	4 23	17 5	12 9	11 35	27 2	12 28	0 28		
T 19	23 25	27 37	4 13	19 54	1 40	23 45	0 19	3 9	0 34	14 48	0 47	1 33	2 10	3 14	0 41	7 29	0 50	4 23	17 5	12 7	11 34	27 1	12 30	0 28		
F 20	23 25	27 34	4 49	20 14	1 33	23 47	0 22	2 52	0 33	14 49	0 47	1 32	2 10	3 14	0 41	7 29	0 51	4 23	17 5	12 4	11 33	27 0	12 32	0 27		
S 21	23 26	25 27	5 4	20 33	1 25	23 49	0 24	2 35	0 31	14 50	0 48	1 31	2 10	3 14	0 41	7 29	0 51	4 23	17 4	12 1	11 32	26 59	12 34	0 27		
S 22	23 26	21 34	4 58	20 52	1 17	23 50	0 26	2 18	0 29	14 51	0 48	1 31	2 11	3 14	0 41	7 29	0 51	4 23	17 4	11 58	11 31	26 58	12 36	0 27		
M23	23 25	16 25	4 32	21 10	1 9	23 51	0 29	2 1	0 28	14 52	0 48	1 30	2 11	3 14	0 41	7 29	0 51	4 23	17 4	11 55	11 29	26 58	12 38	0 26		
T 24	23 24	10 31	3 50	21 28	1 1	23 50	0 31	1 44	0 26	14 53	0 48	1 30	2 11	3 14	0 41	7 29	0 51	4 22	17 3	11 54	11 28	26 57	12 40	0 26		
W25	23 22	4 16	2 56	21 46	0 53	23 49	0 33	1 27	0 25	14 55	0 49	1 29	2 11	3 14	0 41	7 30	0 51	4 22	17 3	11 53	11 27	26 56	12 41	0 26		
T 26	23 20	1s58	1 54	22 2	0 45	23 47	0 35	1 9	0 23	14 56	0 49	1 29	2 12	3 15	0 41	7 30	0 51	4 22	17 3	11 53	11 26	26 55	12 43	0 26		
F 27	23 18	7 57	0 47	22 18	0 37	23 45	0 37	0 52	0 22	14 57	0 49	1 28	2 12	3 15	0 41	7 30	0 51	4 22	17 2	11 53	11 25	26 54	12 45	0 25		
S 28	23 15	13 29	0s20	22 33	0 29	23 41	0 40	0 35	0 20	14 59	0 49	1 28	2 12	3 15	0 41	7 30	0 51	4 22	17 2	11 53	11 24	26 53	12 46	0 25		
S 29	23 11	18 22	1 25	22 47	0 21	23 37	0 42	0 18	0 19	15 0	0 49	1 28	2 13	3 15	0 41	7 30	0 51	4 21	17 2	11 53	11 23	26 52	12 48	0 25		
M30	23 7	22 24	2 25	23 0	0 14	23 32	0 44	0 1	0 18	15 2	0 50	1 27	2 13	3 16	0 41	7 31	0 51	4 21	17 1	11 52	11 22	26 51	12 50	0 25		
T 31	23s 3	25s25	3s17	23s12	0n 6	23s27	0s46	0n16	0s16	15n 4	0n50	1n27	2n13	3n16	0s41	7n31	0n51	4s21	17s 1	11n49	11n20	26s50	12s51	0s24		