



# Astrodienst Ephemeris Tables for the year 2169

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 2169

## geocentric

JANUARY 2169

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 44 5	10°35'19	9°31	19°33	22°22	20°50	16°R43	11°26	20°53	14°21	11°R20	6°R44	6°24	29°47	0°Y43	S 1
M 2	6 48 1	11°52'28	21°19	20° 5	22°57	21°36	16°R38	11°33	20°56	14°23	11°R19	6°43	6°21	29°54	0°44	M 2
T 3	6 51 58	12°53'38	3°12	20°43	23°30	22°23	16°33	11°39	20°59	14°25	11°17	6°42	6°17	0°0	0°46	T 3
W 4	6 55 54	13°54'47	15°12	21°27	24° 1	23° 9	16°27	11°46	21° 1	14°27	11°16	6°41	6°14	0° 7	0°47	W 4
T 5	6 59 51	14°55'56	27°23	22°15	24°31	23°56	16°21	11°53	21° 4	14°29	11°15	6°41	6°11	0°14	0°48	T 5
F 6	7 3 47	15°57'05	9°Y49	23° 8	24°59	24°43	16°15	11°59	21° 7	14°31	11°14	6°40	6° 8	0°20	0°50	F 6
S 7	7 7 44	16°58'14	22°35	24° 5	25°25	25°29	16° 9	12° 6	21°10	14°33	11°13	6°D40	6° 5	0°27	0°51	S 7
S 8	7 11 40	17°59'22	5°R43	25° 5	25°50	26°16	16° 3	12°13	21°13	14°36	11°11	6°41	6° 1	0°34	0°53	S 8
M 9	7 15 37	19° 0'30	19°18	26° 9	26°13	27° 3	15°56	12°19	21°16	14°38	11°10	6°42	5°58	0°40	0°54	M 9
T 10	7 19 34	20° 1'38	3°II20	27°15	26°34	27°49	15°50	12°26	21°20	14°40	11° 9	6°43	5°55	0°47	0°56	T 10
W11	7 23 30	21° 2'45	17°48	28°24	26°52	28°36	15°43	12°33	21°23	14°42	11° 8	6°44	5°52	0°54	0°57	W11
T 12	7 27 27	22° 3'52	2°R39	29°35	27° 9	29°23	15°37	12°40	21°26	14°44	11° 6	6°R44	5°49	1° 0	0°59	T 12
F 13	7 31 23	23° 4'59	17°47	0°R47	27°24	0°R10	15°30	12°47	21°29	14°46	11° 5	6°44	5°46	1° 7	1° 1	F 13
S 14	7 35 20	24° 6'05	3°R 3	2° 2	27°37	0°56	15°23	12°54	21°32	14°48	11° 4	6°43	5°42	1°14	1° 3	S 14
S 15	7 39 16	25° 7'12	18°16	3°18	27°47	1°43	15°16	13° 1	21°35	14°50	11° 3	6°41	5°39	1°20	1° 5	S 15
M16	7 43 13	26° 8'17	3°II16	4°36	27°55	2°30	15° 8	13° 8	21°38	14°53	11° 2	6°38	5°36	1°27	1° 7	M16
T 17	7 47 10	27° 9'23	17°56	5°55	28° 1	3°17	15° 1	13°15	21°42	14°55	11° 1	6°36	5°33	1°34	1° 8	T 17
W18	7 51 6	28°10'28	2°R10	7°15	28° 4	4° 4	14°54	13°22	21°45	14°57	10°59	6°33	5°30	1°40	1°10	W18
T 19	7 55 3	29°11'33	15°57	8°37	28°R 5	4°51	14°46	13°29	21°48	14°59	10°58	6°32	5°27	1°47	1°13	T 19
F 20	7 58 59	0°R12'38	29°17	9°59	28° 3	5°38	14°39	13°36	21°52	15° 1	10°57	6°D31	5°23	1°54	1°15	F 20
S 21	8 2 56	1°13'43	12°R12	11°23	27°59	6°25	14°31	13°43	21°55	15° 4	10°56	6°31	5°20	2° 0	1°17	S 21
S 22	8 6 52	2°14'48	24°45	12°47	27°52	7°12	14°24	13°50	21°58	15° 6	10°55	6°33	5°17	2° 7	1°19	S 22
M23	8 10 49	3°15'52	7°R 2	14°12	27°43	7°59	14°16	13°57	22° 1	15° 8	10°54	6°34	5°14	2°14	1°21	M23
T 24	8 14 45	4°16'56	19° 7	15°38	27°32	8°47	14° 8	14° 4	22° 5	15°10	10°52	6°36	5°11	2°20	1°23	T 24
W25	8 18 42	5°17'59	1°R 2	17° 5	27°18	9°34	14° 0	14°11	22° 8	15°13	10°51	6°R37	5° 7	2°27	1°26	W25
T 26	8 22 39	6°19'02	12°53	18°33	27° 1	10°21	13°53	14°19	22°12	15°15	10°50	6°37	5° 4	2°34	1°28	T 26
F 27	8 26 35	7°20'04	24°41	20° 1	26°42	11° 8	13°45	14°26	22°15	15°17	10°49	6°36	5° 1	2°40	1°31	F 27
S 28	8 30 32	8°21'05	6°R28	21°30	26°21	11°55	13°37	14°33	22°18	15°19	10°48	6°32	4°58	2°47	1°33	S 28
S 29	8 34 28	9°22'06	18°18	23° 0	25°57	12°42	13°29	14°40	22°22	15°22	10°47	6°28	4°55	2°54	1°35	S 29
M30	8 38 25	10°23'05	0°R12	24°31	25°32	13°30	13°21	14°47	22°25	15°24	10°46	6°21	4°52	3° 0	1°38	M30
T 31	8 42 21	11°24'04	12°R11	26°R 2	25°R 4	14°R17	13°R13	14°R54	22°R29	15°R26	10°R45	6°R15	4°R48	3°R 7	1°Y41	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
S 1	22s58	20s37	2s52	20s22	2n39	14s 6	0s 4	22s48	1s 1	16n30	0n44	18s 4	0s45	15s11	0s42	16s34
M 2	22 53	17 54	3 43	20 31	2 32	13 45	0n 6	22 41	1 1	16 32	0 44	18 2	0 45	15 10	0 41	16 33
T 3	22 48	14 26	4 25	20 41	2 25	13 25	0 16	22 34	1 1	16 34	0 44	18 0	0 45	15 9	0 41	16 32
W 4	22 41	10 22	4 56	20 52	2 17	13 5	0 27	22 27	1 1	16 36	0 44	17 58	0 45	15 8	0 41	16 32
T 5	22 35	5 50	5 13	21 3	2 8	12 45	0 37	22 19	1 2	16 38	0 44	17 56	0 45	15 7	0 41	16 31
F 6	22 28	0 59	5 17	21 15	2 0	12 26	0 48	22 11	1 2	16 40	0 45	17 55	0 46	15 6	0 41	16 31
S 7	22 20	4n 3	5 5	21 26	1 51	12 6	0 59	22 2	1 2	16 42	0 45	17 53	0 46	15 5	0 41	16 30
S 8	22 13	9 3	4 38	21 38	1 42	11 47	1 11	21 54	1 2	16 44	0 45	17 51	0 46	15 4	0 41	16 29
M 9	22 4	13 47	3 54	21 49	1 33	11 28	1 23	21 45	1 2	16 46	0 45	17 49	0 46	15 3	0 41	16 29
T 10	21 55	17 56	2 55	21 59	1 24	11 10	1 35	21 36	1 3	16 48	0 45	17 47	0 46	15 2	0 41	16 28
W11	21 46	21 9	1 43	22 10	1 15	10 51	1 48	21 27	1 3	16 50	0 45	17 45	0 46	15 1	0 41	16 28
T 12	21 37	23 1	0 23	22 19	1 6	10 34	2 0	21 17	1 3	16 52	0 46	17 43	0 46	15 0	0 41	16 27
F 13	21 27	23 14	1n 1	22 28	0 57	10 16	2 13	21 7	1 3	16 54	0 46	17 41	0 46	14 59	0 41	16 26
S 14	21 16	21 44	2 21	22 36	0 48	10 0	2 27	20 57	1 3	16 57	0 46	17 40	0 46	14 58	0 41	16 26
S 15	21 5	18 40	3 30	22 43	0 39	9 43	2 40	20 47	1 3	16 59	0 46	17 38	0 46	14 57	0 41	16 25
M16	20 54	14 24	4 24	22 50	0 31	9 28	2 54	20 37	1 4	17 1	0 46	17 36	0 46	14 56	0 41	16 25
T 17	20 42	9 21	4 59	22 55	0 22	9 13	3 8	20 26	1 4	17 3	0 47	17 34	0 46	14 55	0 41	16 24
W18	20 30	3 57	5 15	22 59	0 14	8 58	3 22	20 15	1 4	17 6	0 47	17 32	0 46	14 54	0 41	16 23
T 19	20 18	1s29	5 11	23 3	0 6	8 44	3 37	20 4	1 4	17 8	0 47	17 30	0 46	14 53	0 41	16 23
F 20	20 5	6 40	4 51	23 5	0s 2	8 31	3 51	19 53	1 4	17 10	0 47	17 28	0 46	14 52	0 41	16 22
S 21	19 52	11 24	4 17	23 6	0 10	8 19	4 6	19 41	1 4	17 13	0 47	17 26	0 46	14 50	0 41	16 21
S 22	19 38	15 32	3 31	23 6	0 18	8 7	4 21	19 29	1 4	17 15	0 47	17 24	0 46	14 49	0 41	16 21
M23	19 25	18 54	2 36	23 5	0 25	7 56	4 36	19 17	1 4	17 18	0 48	17 22	0 46	14 48	0 41	16 20
T 24	19 10	21 24	1 35	23 3	0 33	7 46	4 50	19 5	1 4	17 20	0 48	17 20	0 46	14 47	0 41	16 19
W25	18 56	22 54	0 31	22 59	0 40	7 37	5 5	18 53	1 4	17 22	0 48	17 18	0 46	14 46	0 41	16 19
T 26	18 41	23 22	0s34	22 54	0 47	7 29	5 20	18 40	1 5	17 25	0 48	17 16	0 46	14 45	0 41	16 18
F 27	18 25	22 46	1 37	22 48	0 53	7 21	5 34	18 27	1 5	17 27	0 48	17 14	0 47	14 44	0 41	16 17
S 28	18 10	21 9	2 36	22 41	1 0	7 15	5 49	18 14	1 5	17 30	0 48	17 12	0 47	14 43	0 41	16 17
S 29	17 54	18 38	3 28	22 32	1 6	7 10	6 3	18 1	1 5	17 32	0 48	17 10	0 47	14 42	0 41	16 16
M30	17 37	15 19	4 12	22 22	1 12	7 5	6 16	17 47	1 5	17 34	0 48	17 8	0 47	14 41	0 41	16 16
T 31	17s21	11s21	4s44	22s11	1s17	7s 2	6n29	17s34	1s 5	17n37	0n49	17s 6	0s47	14s39	0s41	16s15

Julian Day Number = 2513271.5, Delta T = 135.67 sec  
 Ecliptic obliquity = 23°25'01, Nutation = - 0°00'16, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°06'07, Lahiri = 26°13'07

ASTRODIENST EPHEMERIS for the year 2169  
geocentric

FEBRUARY 2169

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 46 18	12 <sup>25</sup> 02	24 <sup>18</sup> 18	27 <sup>34</sup> 34	24 <sup>R</sup> 34	15 <sup>4</sup>	13 <sup>R</sup> 5	15 <sup>2</sup>	22 <sup>32</sup>	15 <sup>28</sup>	10 <sup>R</sup> 44	6 <sup>R</sup> 8	4 <sup>45</sup>	3 <sup>14</sup>	1 <sup>43</sup>	W 1
T 2	8 50 14	13 <sup>25</sup> 58	6 <sup>34</sup>	29 <sup>6</sup>	24 <sup>3</sup>	15 <sup>52</sup>	12 <sup>57</sup>	15 <sup>9</sup>	22 <sup>35</sup>	15 <sup>31</sup>	10 <sup>43</sup>	6 <sup>2</sup>	4 <sup>42</sup>	3 <sup>20</sup>	1 <sup>46</sup>	T 2
F 3	8 54 11	14 <sup>26</sup> 53	19 <sup>3</sup>	0 <sup>39</sup>	23 <sup>30</sup>	16 <sup>39</sup>	12 <sup>49</sup>	15 <sup>16</sup>	22 <sup>39</sup>	15 <sup>33</sup>	10 <sup>42</sup>	5 <sup>57</sup>	4 <sup>39</sup>	3 <sup>27</sup>	1 <sup>49</sup>	F 3
S 4	8 58 8	15 <sup>27</sup> 47	1 <sup>47</sup>	2 <sup>13</sup>	22 <sup>56</sup>	17 <sup>26</sup>	12 <sup>41</sup>	15 <sup>23</sup>	22 <sup>42</sup>	15 <sup>35</sup>	10 <sup>41</sup>	5 <sup>54</sup>	4 <sup>36</sup>	3 <sup>34</sup>	1 <sup>51</sup>	S 4
S 5	9 2 4	16 <sup>28</sup> 40	14 <sup>49</sup>	3 <sup>48</sup>	22 <sup>21</sup>	18 <sup>13</sup>	12 <sup>33</sup>	15 <sup>30</sup>	22 <sup>46</sup>	15 <sup>38</sup>	10 <sup>40</sup>	5 <sup>D</sup> 53	4 <sup>33</sup>	3 <sup>40</sup>	1 <sup>54</sup>	S 5
M 6	9 6 1	17 <sup>29</sup> 31	28 <sup>12</sup>	5 <sup>23</sup>	21 <sup>45</sup>	19 <sup>1</sup>	12 <sup>25</sup>	15 <sup>38</sup>	22 <sup>49</sup>	15 <sup>40</sup>	10 <sup>39</sup>	5 <sup>54</sup>	4 <sup>29</sup>	3 <sup>47</sup>	1 <sup>57</sup>	M 6
T 7	9 9 57	18 <sup>30</sup> 21	12 <sup>II</sup> 0	7 <sup>0</sup>	21 <sup>8</sup>	19 <sup>48</sup>	12 <sup>17</sup>	15 <sup>45</sup>	22 <sup>53</sup>	15 <sup>42</sup>	10 <sup>38</sup>	5 <sup>55</sup>	4 <sup>26</sup>	3 <sup>53</sup>	2 <sup>0</sup>	T 7
W 8	9 13 54	19 <sup>31</sup> 09	26 <sup>12</sup>	8 <sup>36</sup>	20 <sup>31</sup>	20 <sup>36</sup>	12 <sup>9</sup>	15 <sup>52</sup>	22 <sup>56</sup>	15 <sup>44</sup>	10 <sup>37</sup>	5 <sup>56</sup>	4 <sup>23</sup>	4 <sup>0</sup>	2 <sup>2</sup>	W 8
T 9	9 17 50	20 <sup>31</sup> 57	10 <sup>49</sup>	10 <sup>14</sup>	19 <sup>53</sup>	21 <sup>23</sup>	12 <sup>1</sup>	15 <sup>59</sup>	23 <sup>0</sup>	15 <sup>47</sup>	10 <sup>36</sup>	5 <sup>R</sup> 57	4 <sup>20</sup>	4 <sup>7</sup>	2 <sup>5</sup>	T 9
F 10	9 21 47	21 <sup>32</sup> 42	25 <sup>45</sup>	11 <sup>52</sup>	19 <sup>16</sup>	22 <sup>10</sup>	11 <sup>53</sup>	16 <sup>6</sup>	23 <sup>3</sup>	15 <sup>49</sup>	10 <sup>35</sup>	5 <sup>55</sup>	4 <sup>17</sup>	4 <sup>13</sup>	2 <sup>8</sup>	F 10
S 11	9 25 43	22 <sup>33</sup> 27	10 <sup>55</sup>	13 <sup>32</sup>	18 <sup>39</sup>	22 <sup>58</sup>	11 <sup>45</sup>	16 <sup>13</sup>	23 <sup>7</sup>	15 <sup>51</sup>	10 <sup>34</sup>	5 <sup>51</sup>	4 <sup>13</sup>	4 <sup>20</sup>	2 <sup>11</sup>	S 11
S 12	9 29 40	23 <sup>34</sup> 10	26 <sup>10</sup>	15 <sup>11</sup>	18 <sup>3</sup>	23 <sup>45</sup>	11 <sup>38</sup>	16 <sup>21</sup>	23 <sup>10</sup>	15 <sup>54</sup>	10 <sup>34</sup>	5 <sup>45</sup>	4 <sup>10</sup>	4 <sup>27</sup>	2 <sup>14</sup>	S 12
M13	9 33 37	24 <sup>34</sup> 51	11 <sup>18</sup>	16 <sup>52</sup>	17 <sup>28</sup>	24 <sup>32</sup>	11 <sup>30</sup>	16 <sup>28</sup>	23 <sup>14</sup>	15 <sup>56</sup>	10 <sup>33</sup>	5 <sup>38</sup>	4 <sup>7</sup>	4 <sup>33</sup>	2 <sup>17</sup>	M13
T 14	9 37 33	25 <sup>35</sup> 31	26 <sup>9</sup>	18 <sup>34</sup>	16 <sup>54</sup>	25 <sup>20</sup>	11 <sup>22</sup>	16 <sup>35</sup>	23 <sup>17</sup>	15 <sup>58</sup>	10 <sup>32</sup>	5 <sup>30</sup>	4 <sup>4</sup>	4 <sup>40</sup>	2 <sup>20</sup>	T 14
W15	9 41 30	26 <sup>36</sup> 10	10 <sup>37</sup>	20 <sup>16</sup>	16 <sup>21</sup>	26 <sup>7</sup>	11 <sup>15</sup>	16 <sup>42</sup>	23 <sup>21</sup>	16 <sup>0</sup>	10 <sup>31</sup>	5 <sup>22</sup>	4 <sup>1</sup>	4 <sup>47</sup>	2 <sup>23</sup>	W15
T 16	9 45 26	27 <sup>36</sup> 48	24 <sup>36</sup>	21 <sup>59</sup>	15 <sup>50</sup>	26 <sup>55</sup>	11 <sup>7</sup>	16 <sup>49</sup>	23 <sup>24</sup>	16 <sup>3</sup>	10 <sup>30</sup>	5 <sup>16</sup>	3 <sup>58</sup>	4 <sup>53</sup>	2 <sup>26</sup>	T 16
F 17	9 49 23	28 <sup>37</sup> 25	8 <sup>4</sup>	23 <sup>43</sup>	15 <sup>20</sup>	27 <sup>42</sup>	11 <sup>0</sup>	16 <sup>56</sup>	23 <sup>28</sup>	16 <sup>5</sup>	10 <sup>29</sup>	5 <sup>12</sup>	3 <sup>54</sup>	5 <sup>0</sup>	2 <sup>30</sup>	F 17
S 18	9 53 19	29 <sup>38</sup> 01	21 <sup>5</sup>	25 <sup>28</sup>	14 <sup>53</sup>	28 <sup>29</sup>	10 <sup>53</sup>	17 <sup>3</sup>	23 <sup>31</sup>	16 <sup>7</sup>	10 <sup>29</sup>	5 <sup>9</sup>	3 <sup>51</sup>	5 <sup>7</sup>	2 <sup>33</sup>	S 18
S 19	9 57 16	0 <sup>38</sup> 35	3 <sup>40</sup>	27 <sup>14</sup>	14 <sup>27</sup>	29 <sup>17</sup>	10 <sup>46</sup>	17 <sup>10</sup>	23 <sup>34</sup>	16 <sup>9</sup>	10 <sup>28</sup>	5 <sup>D</sup> 9	3 <sup>48</sup>	5 <sup>13</sup>	2 <sup>36</sup>	S 19
M20	10 1 12	1 <sup>39</sup> 09	15 <sup>56</sup>	29 <sup>1</sup>	14 <sup>4</sup>	0 <sup>4</sup>	10 <sup>39</sup>	17 <sup>17</sup>	23 <sup>38</sup>	16 <sup>11</sup>	10 <sup>27</sup>	5 <sup>10</sup>	3 <sup>45</sup>	5 <sup>20</sup>	2 <sup>39</sup>	M20
T 21	10 5 9	2 <sup>39</sup> 41	27 <sup>57</sup>	0 <sup>49</sup>	13 <sup>43</sup>	0 <sup>52</sup>	10 <sup>32</sup>	17 <sup>24</sup>	23 <sup>41</sup>	16 <sup>14</sup>	10 <sup>27</sup>	5 <sup>11</sup>	3 <sup>42</sup>	5 <sup>27</sup>	2 <sup>42</sup>	T 21
W22	10 9 6	3 <sup>40</sup> 12	9 <sup>49</sup>	2 <sup>37</sup>	13 <sup>24</sup>	1 <sup>39</sup>	10 <sup>25</sup>	17 <sup>31</sup>	23 <sup>45</sup>	16 <sup>16</sup>	10 <sup>26</sup>	5 <sup>R</sup> 11	3 <sup>39</sup>	5 <sup>33</sup>	2 <sup>46</sup>	W22
T 23	10 13 2	4 <sup>40</sup> 41	21 <sup>36</sup>	4 <sup>27</sup>	13 <sup>8</sup>	2 <sup>27</sup>	10 <sup>18</sup>	17 <sup>38</sup>	23 <sup>48</sup>	16 <sup>18</sup>	10 <sup>25</sup>	5 <sup>9</sup>	3 <sup>35</sup>	5 <sup>40</sup>	2 <sup>49</sup>	T 23
F 24	10 16 59	5 <sup>41</sup> 09	3 <sup>43</sup>	6 <sup>17</sup>	12 <sup>54</sup>	3 <sup>14</sup>	10 <sup>11</sup>	17 <sup>45</sup>	23 <sup>52</sup>	16 <sup>20</sup>	10 <sup>25</sup>	5 <sup>5</sup>	3 <sup>32</sup>	5 <sup>47</sup>	2 <sup>52</sup>	F 24
S 25	10 20 55	6 <sup>41</sup> 36	15 <sup>12</sup>	8 <sup>8</sup>	12 <sup>43</sup>	4 <sup>1</sup>	10 <sup>5</sup>	17 <sup>52</sup>	23 <sup>55</sup>	16 <sup>22</sup>	10 <sup>24</sup>	4 <sup>58</sup>	3 <sup>29</sup>	5 <sup>53</sup>	2 <sup>56</sup>	S 25
S 26	10 24 52	7 <sup>42</sup> 01	27 <sup>7</sup>	10 <sup>0</sup>	12 <sup>34</sup>	4 <sup>49</sup>	9 <sup>59</sup>	17 <sup>59</sup>	23 <sup>59</sup>	16 <sup>25</sup>	10 <sup>23</sup>	4 <sup>49</sup>	3 <sup>26</sup>	6 <sup>0</sup>	2 <sup>59</sup>	S 26
M27	10 28 48	8 <sup>42</sup> 25	9 <sup>4</sup>	11 <sup>52</sup>	12 <sup>28</sup>	5 <sup>36</sup>	9 <sup>52</sup>	18 <sup>6</sup>	24 <sup>2</sup>	16 <sup>27</sup>	10 <sup>23</sup>	4 <sup>38</sup>	3 <sup>23</sup>	6 <sup>7</sup>	3 <sup>2</sup>	M27
T 28	10 32 45	9 <sup>42</sup> 46	21 <sup>19</sup>	13 <sup>45</sup>	12 <sup>24</sup>	6 <sup>4</sup>	9 <sup>46</sup>	18 <sup>13</sup>	24 <sup>5</sup>	16 <sup>29</sup>	10 <sup>22</sup>	4 <sup>25</sup>	3 <sup>21</sup>	6 <sup>13</sup>	3 <sup>6</sup>	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	decl lat
W 1	17s 4	6s55	5s 4	21s59	1s23	6s59	6n42	17s20	1s 5	17n39	0n49	17s 4	0s47	14s38	0s41	16s14
T 2	16 46	2 9	5 11	21 45	1 28	6 58	6 55	17 6	1 5	17 42	0 49	17 2	0 47	14 37	0 41	16 14
F 3	16 29	2n47	5 3	21 30	1 33	6 57	7 6	16 52	1 5	17 44	0 49	16 59	0 47	14 36	0 41	16 13
S 4	16 11	7 42	4 40	21 13	1 37	6 58	7 17	16 37	1 5	17 46	0 49	16 57	0 47	14 35	0 41	16 12
S 5	15 53	12 24	4 2	20 55	1 41	6 59	7 27	16 23	1 5	17 49	0 49	16 55	0 47	14 34	0 41	16 12
M 6	15 35	16 39	3 10	20 36	1 45	7 1	7 37	16 8	1 5	17 51	0 49	16 53	0 47	14 33	0 41	16 11
T 7	15 16	20 7	2 6	20 16	1 49	7 5	7 46	15 53	1 5	17 53	0 49	16 51	0 47	14 32	0 41	16 10
W 8	14 57	22 29	0 53	19 54	1 52	7 9	7 53	15 38	1 5	17 56	0 49	16 49	0 47	14 30	0 41	16 10
T 9	14 38	23 25	0n26	19 31	1 55	7 13	8 0	15 23	1 5	17 58	0 50	16 47	0 47	14 29	0 41	16 9
F 10	14 19	22 42	1 45	19 6	1 58	7 19	8 6	15 8	1 5	18 0	0 50	16 45	0 47	14 28	0 41	16 8
S 11	13 59	20 19	2 58	18 40	2 0	7 25	8 11	14 52	1 5	18 2	0 50	16 43	0 48	14 27	0 41	16 8
S 12	13 39	16 30	3 58	18 13	2 2	7 32	8 16	14 37	1 5	18 5	0 50	16 41	0 48	14 26	0 41	16 7
M13	13 19	11 38	4 40	17 44	2 4	7 39	8 19	14 21	1 5	18 7	0 50	16 39	0 48	14 25	0 41	16 6
T 14	12 59	6 10	5 3	17 14	2 5	7 47	8 21	14 5	1 5	18 9	0 50	16 37	0 48	14 24	0 41	16 6
W15	12 38	0 30	5 6	16 42	2 6	7 55	8 22	13 49	1 5	18 11	0 50	16 35	0 48	14 22	0 41	16 5
T 16	12 17	5s 1	4 50	16 9	2 6	8 4	8 22	13 32	1 4	18 13	0 50	16 33	0 48	14 21	0 41	16 4
F 17	11 57	10 6	4 19	15 35	2 6	8 13	8 22	13 16	1 4	18 15	0 50	16 30	0 48	14 20	0 41	16 4
S 18	11 35	14 34	3 34	14 59	2 6	8 22	8 21	13 0	1 4	18 17	0 50	16 28	0 48	14 19	0 41	16 3
S 19	11 14	18 14	2 41	14 22	2 5	8 31	8 18	12 43	1 4	18 19	0 50	16 26	0 48	14 18	0 41	16 2
M20	10 53	21 0	1 42	13 44	2 3	8 40	8 15	12 26	1 4	18 21	0 50	16 24	0 48	14 17	0 41	16 2
T 21	10 31	22 45	0 39	13 4	2 1	8 50	8 12	12 9	1 4	18 23	0 50	16 22	0 48	14 16	0 41	16 1
W22	10 9	23 28	0s25	12 23	1 59	8 59	8 7	11 52	1 4	18 25	0 50	16 20	0 48	14 14	0 41	16 0
T 23	9 47	23 7	1 27	11 41	1 56	9 8	8 2	11 35	1 4	18 27	0 50	16 18	0 49	14 13	0 41	16 0
F 24	9 25	21 44	2 25	10 57	1 53	9 17	7 57	11 18	1 4	18 29	0 50	16 16	0 49	14 12	0 41	15 59
S 25	9 3	19 24	3 17	10 12	1 49	9 26	7 51	11 1	1 3	18 31	0 50	16 14	0 49	14 11	0 41	15 58
S 26	8 40	16 13	4 0	9 26	1 45	9 35	7 44	10 43	1 3	18 33	0 50	16 12	0 49	14 10	0 41	15 58
M27	8 18	12 21	4 33	8 38	1 40	9 44	7 37	10 26	1 3	18 34	0 51	16 10	0 49	14 9	0 41	15 57
T 28	7s55	7s57	4s55	7s50	1s34	9s52	7n30	10s 8	1s 3	18n36	0n51	16s 8	0s49	14s 8	0s41	15s57

Julian Day Number = 2513302.5, Delta T = 135.73 sec  
Ecliptic obliquity = 23°25'02, Nutation = - 0°00'16, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°06'11, Lahiri = 26°13'12

ASTRODIENST EPHEMERIS for the year 2169  
geocentric

MARCH 2169

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	10 36 41	10 <sup>h</sup> 43'06	3 <sup>h</sup> 39	15 <sup>h</sup> 39	12 <sup>h</sup> 22	7 <sup>h</sup> 11	9 <sup>h</sup> 40	18 <sup>h</sup> 20	24 <sup>h</sup> 9	16 <sup>h</sup> 31	10 <sup>h</sup> 22	4 <sup>h</sup> 12	3 <sup>h</sup> 16	6 <sup>h</sup> 20	3 <sup>h</sup> 9	W 1
T 2	10 40 38	11 <sup>h</sup> 43'24	16° 8	17°33	12 <sup>h</sup> 23	7°59	9 <sup>h</sup> 34	18°27	24°12	16°33	10 <sup>h</sup> 21	4 <sup>h</sup> 1	3°13	6°27	3°13	T 2
F 3	10 44 34	12 <sup>h</sup> 43'41	28°48	19°28	12°26	8°46	9°29	18°34	24°15	16°35	10°21	3°51	3°10	6°33	3°16	F 3
S 4	10 48 31	13°43'55	11 <sup>h</sup> 40	21°23	12°32	9°33	9°23	18°40	24°19	16°37	10°20	3°44	3° 7	6°40	3°19	S 4
S 5	10 52 28	14°44'07	24°46	23°17	12°40	10°21	9°18	18°47	24°22	16°39	10°20	3°40	3° 4	6°47	3°23	S 5
M 6	10 56 24	15°44'18	8 <sup>h</sup> 11	25°12	12°50	11° 8	9°12	18°54	24°25	16°41	10°19	3°39	3° 0	6°53	3°26	M 6
T 7	11 0 21	16°44'26	21°47	27° 6	13° 2	11°55	9° 7	19° 0	24°29	16°43	10°19	3°D39	2°57	7° 0	3°30	T 7
W 8	11 4 17	17°44'32	5 <sup>h</sup> 34	28°59	13°17	12°43	9° 2	19° 7	24°32	16°45	10°19	3°R39	2°54	7° 7	3°33	W 8
T 9	11 8 14	18°44'36	20° 2	0 <sup>h</sup> 51	13°33	13°30	8°58	19°14	24°35	16°48	10°18	3°38	2°51	7°13	3°37	T 9
F 10	11 12 10	19°44'38	4 <sup>h</sup> 38	2°42	13°51	14°17	8°53	19°20	24°38	16°50	10°18	3°35	2°48	7°20	3°41	F 10
S 11	11 16 7	20°44'38	19°28	4°30	14°11	15° 5	8°49	19°27	24°42	16°51	10°18	3°29	2°44	7°27	3°44	S 11
S 12	11 20 3	21°44'36	4 <sup>h</sup> 25	6°16	14°34	15°52	8°45	19°33	24°45	16°53	10°17	3°21	2°41	7°33	3°48	S 12
M13	11 24 0	22°44'31	19°21	8° 0	14°57	16°39	8°40	19°40	24°48	16°55	10°17	3°10	2°38	7°40	3°51	M13
T 14	11 27 57	23°44'25	4 <sup>h</sup> 6	9°40	15°23	17°26	8°37	19°46	24°51	16°57	10°17	2°58	2°35	7°47	3°55	T 14
W15	11 31 53	24°44'17	18°33	11°16	15°50	18°14	8°33	19°52	24°54	16°59	10°17	2°47	2°32	7°54	3°58	W15
T 16	11 35 50	25°44'07	2 <sup>h</sup> 34	12°48	16°19	19° 1	8°29	19°59	24°57	17° 1	10°16	2°37	2°29	8° 0	4° 2	T 16
F 17	11 39 46	26°43'55	16° 8	14°15	16°50	19°48	8°26	20° 5	25° 1	17° 3	10°16	2°29	2°25	8° 7	4° 6	F 17
S 18	11 43 43	27°43'42	29°14	15°37	17°22	20°35	8°23	20°11	25° 4	17° 5	10°16	2°25	2°22	8°14	4° 9	S 18
S 19	11 47 39	28°43'27	11 <sup>h</sup> 54	16°52	17°55	21°22	8°20	20°17	25° 7	17° 7	10°16	2°22	2°19	8°20	4°13	S 19
M20	11 51 36	29°43'10	24°14	18° 2	18°30	22°10	8°17	20°24	25°10	17° 8	10°16	2°21	2°16	8°27	4°17	M20
T 21	11 55 32	0 <sup>h</sup> 42'51	6 <sup>h</sup> 17	19° 5	19° 6	22°57	8°14	20°30	25°13	17°10	10°16	2°21	2°13	8°34	4°20	T 21
W22	11 59 29	1°42'31	18°10	20° 1	19°43	23°44	8°12	20°36	25°16	17°12	10°16	2°21	2°10	8°40	4°24	W22
T 23	12 3 26	2°42'09	29°58	20°49	20°22	24°31	8°10	20°42	25°19	17°14	10°16	2°19	2° 6	8°47	4°27	T 23
F 24	12 7 22	3°41'46	11 <sup>h</sup> 46	21°30	21° 1	25°18	8° 8	20°48	25°21	17°15	10°D16	2°14	2° 3	8°54	4°31	F 24
S 25	12 11 19	4°41'20	23°38	22° 4	21°42	26° 5	8° 6	20°53	25°24	17°17	10°16	2° 7	2° 0	9° 0	4°35	S 25
S 26	12 15 15	5°40'53	5 <sup>h</sup> 39	22°29	22°24	26°52	8° 4	20°59	25°27	17°19	10°16	1°57	1°57	9° 7	4°38	S 26
M27	12 19 12	6°40'23	17°50	22°47	23° 7	27°39	8° 3	21° 5	25°30	17°20	10°16	1°44	1°54	9°14	4°42	M27
T 28	12 23 8	7°39'52	0 <sup>h</sup> 13	22°56	23°51	28°26	8° 1	21°11	25°33	17°22	10°16	1°31	1°50	9°20	4°46	T 28
W29	12 27 5	8°39'19	12°48	22°R58	24°36	29°13	8° 0	21°16	25°36	17°24	10°16	1°17	1°47	9°27	4°49	W29
T 30	12 31 1	9°38'44	25°35	22°52	25°22	29°59	7°59	21°22	25°38	17°25	10°16	1° 4	1°44	9°34	4°53	T 30
F 31	12 34 58	10 <sup>h</sup> 38'06	8 <sup>h</sup> 35	22 <sup>h</sup> 40	26 <sup>h</sup> 8	0 <sup>h</sup> 47	7 <sup>h</sup> 59	21 <sup>h</sup> 27	25 <sup>h</sup> 41	17 <sup>h</sup> 27	10 <sup>h</sup> 16	0 <sup>h</sup> 53	1 <sup>h</sup> 41	9 <sup>h</sup> 40	4 <sup>h</sup> 56	F 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	7s32	3s11	5s 2	7s 0	1s28	10s 0	7n22	9s50	1s 3	18n38	0n51	16s 6	0s49	14s 7
T 2	7 10	1n47	4 56	6 9	1 21	10 7	7 14	9 32	1 3	18 39	0 51	16 4	0 49	14 6
F 3	6 47	6 45	4 35	5 18	1 14	10 14	7 5	9 14	1 2	18 41	0 51	16 2	0 49	14 4
S 4	6 24	11 31	3 59	4 25	1 6	10 21	6 57	8 56	1 2	18 42	0 51	16 0	0 49	14 3
S 5	6 0	15 51	3 11	3 32	0 57	10 28	6 48	8 38	1 2	18 44	0 51	15 58	0 49	14 2
M 6	5 37	19 29	2 11	2 38	0 48	10 34	6 39	8 20	1 2	18 45	0 51	15 56	0 50	14 1
T 7	5 14	22 7	1 3	1 44	0 38	10 39	6 30	8 2	1 2	18 46	0 51	15 54	0 50	14 0
W 8	4 50	23 29	0n11	0 50	0 28	10 44	6 20	7 44	1 1	18 48	0 51	15 52	0 50	13 59
T 9	4 27	23 20	1 26	0n 5	0 17	10 49	6 11	7 25	1 1	18 49	0 51	15 50	0 50	13 58
F 10	4 3	21 37	2 36	0 59	0 6	10 53	6 1	7 7	1 1	18 50	0 51	15 48	0 50	13 57
S 11	3 40	18 24	3 37	1 53	0n 6	10 56	5 52	6 49	1 1	18 51	0 51	15 46	0 50	13 56
S 12	3 16	13 58	4 24	2 46	0 18	10 59	5 42	6 30	1 1	18 52	0 51	15 44	0 50	13 55
M13	2 53	8 41	4 52	3 39	0 31	11 2	5 33	6 11	1 0	18 53	0 51	15 42	0 50	13 54
T 14	2 29	2 58	5 1	4 30	0 44	11 4	5 23	5 53	1 0	18 54	0 51	15 40	0 50	13 53
W15	2 5	2s48	4 50	5 20	0 57	11 5	5 13	5 34	1 0	18 55	0 50	15 38	0 51	13 52
T 16	1 42	8 16	4 21	6 8	1 10	11 6	5 3	5 15	1 0	18 56	0 50	15 37	0 51	13 51
F 17	1 18	13 9	3 39	6 53	1 23	11 6	4 54	4 57	0 59	18 57	0 50	15 35	0 51	13 50
S 18	0 54	17 16	2 46	7 37	1 36	11 6	4 44	4 38	0 59	18 58	0 50	15 33	0 51	13 49
S 19	0 30	20 27	1 46	8 18	1 49	11 5	4 35	4 19	0 59	18 59	0 50	15 31	0 51	13 48
M20	0 7	22 35	0 43	8 56	2 1	11 4	4 25	4 0	0 58	18 59	0 50	15 29	0 51	13 47
T 21	0n17	23 37	0s21	9 31	2 13	11 2	4 16	3 41	0 58	19 0	0 50	15 27	0 51	13 46
W22	0 41	23 33	1 23	10 3	2 25	10 59	4 6	3 22	0 58	19 1	0 50	15 25	0 51	13 45
T 23	1 4	22 26	2 21	10 31	2 36	10 56	3 57	3 3	0 57	19 1	0 50	15 24	0 51	13 44
F 24	1 28	20 19	3 12	10 56	2 45	10 53	3 47	2 44	0 57	19 2	0 50	15 22	0 52	13 43
S 25	1 52	17 20	3 56	11 17	2 54	10 49	3 38	2 26	0 57	19 2	0 50	15 20	0 52	13 42
S 26	2 15	13 36	4 29	11 34	3 2	10 44	3 29	2 7	0 57	19 2	0 50	15 18	0 52	13 41
M27	2 39	9 16	4 51	11 47	3 9	10 39	3 20	1 48	0 56	19 3	0 50	15 17	0 52	13 40
T 28	3 2	4 30	5 0	11 55	3 15	10 33	3 11	1 29	0 56	19 3	0 50	15 15	0 52	13 39
W29	3 26	0n32	4 54	12 0	3 19	10 26	3 2	1 10	0 55	19 3	0 50	15 13	0 52	13 38
T 30	3 49	5 38	4 33	12 0	3 21	10 20	2 54	0 51	0 55	19 3	0 50	15 12	0 52	13 37
F 31	4n12	10n35	3s58	11n56	3n22	10s12	2n45	0s32	0s55	19n 4	0n50	15s10	0s53	13s36

Julian Day Number = 2513330.5, Delta T = 135.79 sec  
Ecliptic obliquity = 23°25'02, Nutation = - 0°00'16, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°06'15, Lahiri = 26°13'15

ASTRODIENST EPHEMERIS for the year 2169  
geocentric

APRIL 2169

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 38 55	11°37'27"	21°8'45"	22°R20	26°56'	1°34'	7°R58	21°33'	25°44'	17°28'	10°16'	0°R46	1°38'	9°47'	5°0'	S 1
S 2	12 42 51	12°36'45"	5°11'7"	21°54'	27°44'	2°20'	7°58'	21°38'	25°46'	17°30'	10°17'	0°41'	1°35'	9°54'	5°4'	S 2
M 3	12 46 48	13°36'01"	18°39'	21°23'	28°33'	3°7'	7°D58	21°44'	25°49'	17°31'	10°17'	0°39'	1°31'	10°0'	5°7'	M 3
T 4	12 50 44	14°35'15"	2°52'22"	20°46'	29°23'	3°54'	7°58'	21°49'	25°52'	17°33'	10°17'	0°D38	1°28'	10°7'	5°11'	T 4
W 5	12 54 41	15°34'27"	16°17'	20°5'	0°13'	4°41'	7°58'	21°54'	25°54'	17°34'	10°17'	0°R38	1°25'	10°14'	5°15'	W 5
T 6	12 58 37	16°33'36"	0°23'	19°21'	1°4'	5°27'	7°59'	21°59'	25°57'	17°36'	10°18'	0°38'	1°22'	10°20'	5°18'	T 6
F 7	13 2 34	17°32'42"	14°41'	18°35'	1°56'	6°14'	7°59'	22°4'	25°59'	17°37'	10°18'	0°35'	1°19'	10°27'	5°22'	F 7
S 8	13 6 30	18°31'47"	29°8'	17°47'	2°49'	7°1'	8°0'	22°10'	26°2'	17°38'	10°18'	0°30'	1°16'	10°34'	5°25'	S 8
S 9	13 10 27	19°30'49"	13°40'	16°59'	3°42'	7°47'	8°1'	22°14'	26°4'	17°40'	10°19'	0°23'	1°12'	10°40'	5°29'	S 9
M10	13 14 24	20°29'49"	28°10'	16°12'	4°36'	8°34'	8°2'	22°19'	26°6'	17°41'	10°19'	0°13'	1°9'	10°47'	5°32'	M10
T 11	13 18 20	21°28'46"	12°34'	15°26'	5°30'	9°20'	8°4'	22°24'	26°9'	17°42'	10°19'	0°2'	1°6'	10°54'	5°36'	T 11
W12	13 22 17	22°27'42"	26°43'	14°42'	6°25'	10°7'	8°5'	22°29'	26°11'	17°43'	10°20'	29°11'52"	1°3'	11°0'	5°39'	W12
T 13	13 26 13	23°26'36"	10°33'	14°1'	7°20'	10°53'	8°7'	22°34'	26°13'	17°45'	10°20'	29°42'	1°0'	11°7'	5°43'	T 13
F 14	13 30 10	24°25'28"	24°0'	13°23'	8°16'	11°40'	8°9'	22°38'	26°15'	17°46'	10°21'	29°35'	0°56'	11°14'	5°46'	F 14
S 15	13 34 6	25°24'18"	7°4'	12°49'	9°12'	12°26'	8°11'	22°43'	26°18'	17°47'	10°21'	29°30'	0°53'	11°20'	5°50'	S 15
S 16	13 38 3	26°23'06"	19°45'	12°20'	10°9'	13°12'	8°13'	22°47'	26°20'	17°48'	10°22'	29°28'	0°50'	11°27'	5°53'	S 16
M17	13 41 59	27°21'52"	2°3'	11°56'	11°6'	13°59'	8°16'	22°52'	26°22'	17°49'	10°22'	29°D28	0°47'	11°34'	5°57'	M17
T 18	13 45 56	28°20'37"	14°12'	11°37'	12°4'	14°45'	8°18'	22°56'	26°24'	17°50'	10°23'	29°28'	0°44'	11°40'	6°0'	T 18
W19	13 49 52	29°19'20"	26°8'	11°23'	13°2'	15°31'	8°21'	23°0'	26°26'	17°51'	10°23'	29°R29	0°41'	11°47'	6°4'	W19
T 20	13 53 49	0°18'02"	7°58'	11°14'	14°1'	16°17'	8°24'	23°4'	26°28'	17°52'	10°24'	29°29'	0°37'	11°54'	6°7'	T 20
F 21	13 57 46	1°16'41"	19°48'	11°D10	15°0'	17°3'	8°27'	23°8'	26°30'	17°53'	10°25'	29°27'	0°34'	12°0'	6°10'	F 21
S 22	14 1 42	2°15'19"	1°44'	11°12'	15°59'	17°50'	8°31'	23°12'	26°32'	17°54'	10°25'	29°22'	0°31'	12°7'	6°14'	S 22
S 23	14 5 39	3°13'56"	13°49'	11°18'	16°59'	18°36'	8°34'	23°16'	26°34'	17°55'	10°26'	29°16'	0°28'	12°14'	6°17'	S 23
M24	14 9 35	4°12'30"	26°6'	11°30'	17°59'	19°22'	8°38'	23°20'	26°35'	17°56'	10°27'	29°8'	0°25'	12°21'	6°20'	M24
T 25	14 13 32	5°11'03"	8°39'	11°46'	18°59'	20°8'	8°42'	23°24'	26°37'	17°57'	10°27'	28°58'	0°21'	12°27'	6°24'	T 25
W26	14 17 28	6°9'34"	21°29'	12°7'	20°0'	20°54'	8°46'	23°28'	26°39'	17°58'	10°28'	28°49'	0°18'	12°34'	6°27'	W26
T 27	14 21 25	7°8'03"	4°34'	12°32'	21°1'	21°40'	8°50'	23°31'	26°41'	17°58'	10°29'	28°40'	0°15'	12°41'	6°30'	T 27
F 28	14 25 21	8°6'31"	17°55'	13°2'	22°2'	22°25'	8°55'	23°35'	26°42'	17°59'	10°30'	28°33'	0°12'	12°47'	6°33'	F 28
S 29	14 29 18	9°4'56"	1°29'	13°36'	23°4'	23°11'	8°59'	23°38'	26°44'	18°0'	10°30'	28°27'	0°9'	12°54'	6°37'	S 29
S 30	14 33 15	10°3'20"	15°14'	14°14'	24°6'	23°57'	9°2'	23°41'	26°45'	18°0'	10°31'	28°12'44"	0°6'	13°1'	6°40'	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4n36	15n 8	3s10	11n48	3n22	10s 4	2n37	0s13	0s54	19n 4	0n50	15s 8	0s53	13s35	0s42	S 1
S 2	4 59	18 59	2 11	11 36	3 19	9 56	2 28	0n 6	0 54	19 4	0 50	15 7	0 53	13 34	0 42	S 2
M 3	5 22	21 53	1 3	11 21	3 15	9 47	2 20	0 25	0 54	19 4	0 50	15 5	0 53	13 34	0 42	M 3
T 4	5 25	23 33	0n 9	11 2	3 10	9 37	2 12	0 44	0 53	19 4	0 50	15 4	0 53	13 33	0 42	T 4
W 5	6 8	23 47	1 22	10 39	3 2	9 27	2 4	1 3	0 53	19 4	0 50	15 2	0 53	13 32	0 42	W 5
T 6	6 30	22 30	2 31	10 14	2 53	9 17	1 56	1 22	0 52	19 3	0 50	15 0	0 53	13 31	0 42	T 6
F 7	6 53	19 46	3 31	9 47	2 43	9 6	1 48	1 41	0 52	19 3	0 50	14 59	0 53	13 30	0 42	F 7
S 8	7 15	15 48	4 18	9 18	2 31	8 54	1 40	1 59	0 52	19 3	0 50	14 57	0 54	13 30	0 42	S 8
S 9	7 38	10 52	4 49	8 47	2 18	8 42	1 33	2 18	0 51	19 3	0 49	14 56	0 54	13 29	0 42	S 9
M10	8 0	5 20	5 2	8 16	2 3	8 30	1 25	2 37	0 51	19 2	0 49	14 54	0 54	13 28	0 42	M10
T 11	8 22	0s26	4 55	7 44	1 48	8 17	1 18	2 56	0 50	19 2	0 49	14 53	0 54	13 27	0 42	T 11
W12	8 44	6 5	4 30	7 13	1 33	8 3	1 11	3 14	0 50	19 1	0 49	14 52	0 54	13 26	0 42	W12
T 13	9 6	11 20	3 49	6 42	1 17	7 50	1 4	3 33	0 49	19 1	0 49	14 50	0 54	13 26	0 42	T 13
F 14	9 28	15 54	2 57	6 12	1 0	7 35	0 57	3 51	0 49	19 0	0 49	14 49	0 54	13 25	0 42	F 14
S 15	9 49	19 33	1 56	5 44	0 44	7 21	0 50	4 10	0 49	19 0	0 49	14 48	0 55	13 24	0 42	S 15
S 16	10 10	22 10	0 52	5 17	0 27	7 5	0 43	4 28	0 48	18 59	0 49	14 46	0 55	13 24	0 42	S 16
M17	10 32	23 38	0s14	4 53	0 11	6 50	0 36	4 47	0 48	18 58	0 49	14 45	0 55	13 23	0 42	M17
T 18	10 53	23 57	1 18	4 31	0s 5	6 34	0 30	5 5	0 47	18 58	0 49	14 44	0 55	13 22	0 42	T 18
W19	11 13	23 9	2 18	4 11	0 21	6 18	0 24	5 23	0 47	18 57	0 49	14 42	0 55	13 22	0 42	W19
T 20	11 34	21 20	3 11	3 53	0 36	6 1	0 17	5 41	0 46	18 56	0 49	14 41	0 55	13 21	0 42	T 20
F 21	11 54	18 35	3 56	3 39	0 50	5 44	0 11	5 59	0 46	18 55	0 49	14 40	0 56	13 20	0 43	F 21
S 22	12 15	15 4	4 31	3 26	1 4	5 26	0 5	6 17	0 45	18 54	0 49	14 39	0 56	13 20	0 43	S 22
S 23	12 35	10 53	4 55	3 17	1 17	5 9	0s 0	6 35	0 45	18 53	0 49	14 38	0 56	13 19	0 43	S 23
M24	12 55	6 13	5 5	3 10	1 30	4 51	0 6	6 53	0 44	18 52	0 49	14 37	0 56	13 19	0 43	M24
T 25	13 14	1 11	5 1	3 6	1 41	4 32	0 12	7 11	0 44	18 51	0 49	14 35	0 56	13 18	0 43	T 25
W26	13 34	4n 0	4 42	3 4	1 52	4 13	0 17	7 29	0 43	18 50	0 48	14 34	0 56	13 17	0 43	W26
T 27	13 53	9 8	4 8	3 4	2 2	3 54	0 22	7 46	0 43	18 49	0 48	14 33	0 56	13 17	0 43	T 27
F 28	14 12	13 57	3 20	3 7	2 12	3 35	0 28	8 4	0 42	18 47	0 48	14 32	0 57	13 16	0 43	F 28
S 29	14 31	18 10	2 20	3 12	2 20	3 15	0 33	8 21	0 42	18 46	0 48	14 31	0 57	13 16	0 43	S 29
S 30	14n49	21n26	1s10	3n20	2s28	2s55	0s38	8n39	0s41	18n45	0n48	14s30	0s57	13s15	0s43	S 30

Julian Day Number = 2513361.5, Delta T = 135.86 sec  
Ecliptic obliquity = 23°25'02", Nutation = - 0°00'18", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°06'19", Lahiri = 26°13'20"

## ASTRODIENST EPHEMERIS for the year 2169

geocentric

MAY 2169

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 37 11	11° 1' 42"	29° 11' 8"	14° 55' 55"	25° 58' 8"	24° 43' 43"	9° 14' 9"	23° 45' 45"	26° 47' 47"	18° 1' 1"	10° 32' 32"	28° 24' 24"	0° 2' 2"	13° 7' 7"	6° 43' 43"	M 1
T 2	14 41 8	12° 0' 02"	13° 8' 8"	15° 40' 40"	26° 10' 10"	25° 28' 28"	9° 14' 14"	23° 48' 48"	26° 48' 48"	18° 2' 2"	10° 33' 33"	28° 11' 11"	29° 11' 11"	13° 14' 14"	6° 46' 46"	T 2
W 3	14 45 4	12° 58' 19"	27° 13' 13"	16° 29' 29"	27° 13' 13"	26° 14' 14"	9° 19' 19"	23° 51' 51"	26° 50' 50"	18° 2' 2"	10° 34' 34"	28° 26' 26"	29° 56' 56"	13° 21' 21"	6° 49' 49"	W 3
T 4	14 49 1	13° 56' 35"	11° 22' 22"	17° 21' 21"	28° 16' 16"	27° 0' 0"	9° 24' 24"	23° 54' 54"	26° 51' 51"	18° 3' 3"	10° 35' 35"	28° 26' 26"	29° 53' 53"	13° 27' 27"	6° 52' 52"	T 4
F 5	14 52 57	14° 54' 48"	25° 32' 32"	18° 16' 16"	29° 19' 19"	27° 45' 45"	9° 30' 30"	23° 57' 57"	26° 52' 52"	18° 3' 3"	10° 36' 36"	28° 26' 26"	29° 50' 50"	13° 34' 34"	6° 55' 55"	F 5
S 6	14 56 54	15° 53' 00"	9° 43' 43"	19° 14' 14"	0° 23' 23"	28° 31' 31"	9° 35' 35"	24° 0' 0"	26° 54' 54"	18° 4' 4"	10° 37' 37"	28° 24' 24"	29° 47' 47"	13° 41' 41"	6° 58' 58"	S 6
S 7	15 0 50	16° 51' 09"	23° 52' 52"	20° 15' 15"	1° 26' 26"	29° 16' 16"	9° 41' 41"	24° 2' 2"	26° 55' 55"	18° 4' 4"	10° 38' 38"	28° 20' 20"	29° 43' 43"	13° 47' 47"	7° 1' 1"	S 7
M 8	15 4 47	17° 49' 16"	7° 56' 56"	21° 19' 19"	2° 30' 30"	0° 8' 8"	9° 47' 47"	24° 5' 5"	26° 56' 56"	18° 5' 5"	10° 39' 39"	28° 14' 14"	29° 40' 40"	13° 54' 54"	7° 4' 4"	M 8
T 9	15 8 44	18° 47' 22"	21° 51' 51"	22° 26' 26"	3° 34' 34"	0° 47' 47"	9° 53' 53"	24° 7' 7"	26° 57' 57"	18° 5' 5"	10° 39' 39"	28° 8' 8"	29° 37' 37"	14° 1' 1"	7° 7' 7"	T 9
W10	15 12 40	19° 45' 26"	5° 34' 34"	23° 36' 36"	4° 39' 39"	1° 32' 32"	10° 0' 0"	24° 10' 10"	26° 58' 58"	18° 5' 5"	10° 40' 40"	28° 2' 2"	29° 34' 34"	14° 7' 7"	7° 10' 10"	W10
T 11	15 16 37	20° 43' 28"	19° 2' 2"	24° 48' 48"	5° 43' 43"	2° 17' 17"	10° 6' 6"	24° 12' 12"	26° 59' 59"	18° 6' 6"	10° 41' 41"	27° 56' 56"	29° 31' 31"	14° 14' 14"	7° 13' 13"	T 11
F 12	15 20 33	21° 41' 28"	2° 12' 12"	26° 2' 2"	6° 48' 48"	3° 3' 3"	10° 13' 13"	24° 14' 14"	27° 0' 0"	18° 6' 6"	10° 43' 43"	27° 52' 52"	29° 27' 27"	14° 21' 21"	7° 16' 16"	F 12
S 13	15 24 30	22° 39' 27"	15° 4' 4"	27° 19' 19"	7° 53' 53"	3° 48' 48"	10° 19' 19"	24° 17' 17"	27° 1' 1"	18° 6' 6"	10° 44' 44"	27° 50' 50"	29° 24' 24"	14° 27' 27"	7° 18' 18"	S 13
S 14	15 28 26	23° 37' 25"	27° 38' 38"	28° 38' 38"	8° 58' 58"	4° 33' 33"	10° 26' 26"	24° 19' 19"	27° 2' 2"	18° 6' 6"	10° 45' 45"	27° 50' 50"	29° 21' 21"	14° 34' 34"	7° 21' 21"	S 14
M15	15 32 23	24° 35' 21"	9° 57' 57"	0° 8' 8"	10° 3' 3"	5° 18' 18"	10° 33' 33"	24° 21' 21"	27° 3' 3"	18° 7' 7"	10° 46' 46"	27° 50' 50"	29° 18' 18"	14° 41' 41"	7° 24' 24"	M15
T 16	15 36 19	25° 33' 16"	22° 2' 2"	1° 24' 24"	11° 9' 9"	6° 3' 3"	10° 40' 40"	24° 23' 23"	27° 4' 4"	18° 7' 7"	10° 47' 47"	27° 51' 51"	29° 15' 15"	14° 48' 48"	7° 26' 26"	T 16
W17	15 40 16	26° 31' 09"	3° 59' 59"	2° 50' 50"	12° 14' 14"	6° 48' 48"	10° 47' 47"	24° 24' 24"	27° 4' 4"	18° 7' 7"	10° 48' 48"	27° 53' 53"	29° 12' 12"	14° 54' 54"	7° 29' 29"	W17
T 18	15 44 13	27° 29' 01"	15° 50' 50"	4° 19' 19"	13° 20' 20"	7° 33' 33"	10° 55' 55"	24° 26' 26"	27° 5' 5"	18° 7' 7"	10° 49' 49"	27° 54' 54"	29° 8' 8"	15° 1' 1"	7° 32' 32"	T 18
F 19	15 48 9	28° 26' 52"	27° 42' 42"	5° 50' 50"	14° 26' 26"	8° 18' 18"	11° 2' 2"	24° 28' 28"	27° 6' 6"	18° 7' 7"	10° 50' 50"	27° 55' 55"	29° 5' 5"	15° 8' 8"	7° 34' 34"	F 19
S 20	15 52 6	29° 24' 42"	9° 39' 39"	7° 23' 23"	15° 32' 32"	9° 2' 2"	11° 10' 10"	24° 29' 29"	27° 6' 6"	18° 7' 7"	10° 51' 51"	27° 54' 54"	29° 2' 2"	15° 14' 14"	7° 37' 37"	S 20
S 21	15 56 2	0° 22' 31"	21° 45' 45"	8° 58' 58"	16° 38' 38"	9° 47' 47"	11° 17' 17"	24° 31' 31"	27° 7' 7"	18° 7' 7"	10° 53' 53"	27° 53' 53"	28° 59' 59"	15° 21' 21"	7° 39' 39"	S 21
M22	15 59 59	1° 20' 18"	4° 6' 6"	10° 35' 35"	17° 45' 45"	10° 32' 32"	11° 25' 25"	24° 32' 32"	27° 7' 7"	18° 7' 7"	10° 54' 54"	27° 50' 50"	28° 56' 56"	15° 28' 28"	7° 42' 42"	M22
T 23	16 3 55	2° 18' 04"	16° 44' 44"	12° 15' 15"	18° 51' 51"	11° 16' 16"	11° 33' 33"	24° 33' 33"	27° 8' 8"	18° 7' 7"	10° 55' 55"	27° 46' 46"	28° 53' 53"	15° 34' 34"	7° 44' 44"	T 23
W24	16 7 52	3° 15' 50"	29° 41' 41"	13° 57' 57"	19° 58' 58"	12° 1' 1"	11° 41' 41"	24° 34' 34"	27° 8' 8"	18° 7' 7"	10° 56' 56"	27° 43' 43"	28° 49' 49"	15° 41' 41"	7° 47' 47"	W24
T 25	16 11 48	4° 13' 34"	13° 8' 8"	15° 41' 41"	21° 5' 5"	12° 46' 46"	11° 50' 50"	24° 35' 35"	27° 9' 9"	18° 7' 7"	10° 57' 57"	27° 39' 39"	28° 46' 46"	15° 48' 48"	7° 49' 49"	T 25
F 26	16 15 45	5° 11' 17"	26° 38' 38"	17° 27' 27"	22° 12' 12"	13° 30' 30"	11° 58' 58"	24° 36' 36"	27° 9' 9"	18° 7' 7"	10° 59' 59"	27° 36' 36"	28° 43' 43"	15° 54' 54"	7° 51' 51"	F 26
S 27	16 19 42	6° 8' 58"	10° 11' 11"	19° 15' 15"	23° 19' 19"	14° 15' 15"	12° 6' 6"	24° 37' 37"	27° 9' 9"	18° 6' 6"	11° 0' 0"	27° 34' 34"	28° 40' 40"	16° 1' 1"	7° 53' 53"	S 27
S 28	16 23 38	7° 6' 39"	24° 45' 45"	21° 5' 5"	24° 26' 26"	14° 59' 59"	12° 15' 15"	24° 38' 38"	27° 9' 9"	18° 6' 6"	11° 1' 1"	27° 34' 34"	28° 37' 37"	16° 8' 8"	7° 56' 56"	S 28
M29	16 27 35	8° 4' 18"	9° 5' 5"	22° 58' 58"	25° 34' 34"	15° 43' 43"	12° 24' 24"	24° 38' 38"	27° 10' 10"	18° 6' 6"	11° 2' 2"	27° 34' 34"	28° 33' 33"	16° 14' 14"	7° 58' 58"	M29
T 30	16 31 31	9° 1' 56"	23° 30' 30"	24° 53' 53"	26° 41' 41"	16° 28' 28"	12° 32' 32"	24° 39' 39"	27° 10' 10"	18° 6' 6"	11° 4' 4"	27° 35' 35"	28° 30' 30"	16° 21' 21"	8° 0' 0"	T 30
W31	16 35 28	9° 11' 59"	7° 55' 55"	26° 49' 49"	27° 49' 49"	17° 12' 12"	12° 41' 41"	24° 39' 39"	27° 10' 10"	18° 5' 5"	11° 5' 5"	27° 36' 36"	28° 27' 27"	16° 28' 28"	8° 1' 1"	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
M 1	15n 7	23n29	0n 4	3n29	2s35	2s35	0s42	8n56	0s41	18n44	0n48	14s30	0s57	13s15	0s43	15s29	0s 5	19n43	3s18	23n24	23n25	20s14	5n22	2n56	
T 2	15 25	24 5	1 19	3 41	2 41	2 14	0 47	9 13	0 40	18 42	0 48	14 29	0 57	13 14	0 43	15 29	0 5	19 43	3 18	23 24	23 25	20 13	5 23	2 56	
W 3	15 43	23 8	2 29	3 54	2 47	1 54	0 52	9 30	0 40	18 41	0 48	14 28	0 57	13 14	0 43	15 29	0 5	19 43	3 18	23 24	23 25	20 11	5 24	2 56	
T 4	16 1	20 44	3 31	4 10	2 51	1 33	0 56	9 47	0 39	18 39	0 48	14 27	0 58	13 14	0 43	15 29	0 5	19 43	3 18	23 24	23 25	20 10	5 26	2 56	
F 5	16 18	17 4	4 20	4 27	2 55	1 11	1 0	10 4	0 39	18 38	0 48	14 26	0 58	13 13	0 43	15 29	0 5	19 43	3 17	23 24	23 25	20 9	5 27	2 56	
S 6	16 35	12 26	4 53	4 46	2 59	0 50	1 4	10 21	0 38	18 36	0 48	14 25	0 58	13 13	0 43	15 29	0 5	19 43	3 17	23 24	23 25	20 7	5 28	2 57	
S 7	16 51	7 9	5 8	5 6	3 1	0 28	1 8	10 37	0 37	18 35	0 48	14 25	0 58	13 12	0 43	15 28	0 5	19 43	3 17	23 24	23 25	20 6	5 29	2 57	
M 8	17 8	1 32	5 5	5 28	3 3	0 7	1 12	10 54	0 37	18 33	0 48	14 24	0 58	13 12	0 43	15 28	0 5	19 43	3 17	23 24	23 25	20 5	5 30	2 57	
T 9	17 24	4s 7	4 44	5 52	3 5	0n15	1 16	11 10	0 36	18 31	0 48	14 23	0 58	13 12	0 43	15 28	0 5	19 43	3 17	23 24	23 25	20 3	5 32	2 57	
W10	17 40	9 30	4 6	6 17	3 5	0 37	1 20	11 26	0 36	18 30	0 48	14 23	0 59	13 11	0 43	15 28	0 5	19 43	3 17	23 24	23 25	20 2	5 33	2 57	
T 11	17 55	14 20	3 15	6 43	3 5	1 0	1 23	11 42	0 35	18 28	0 48	14 22	0 59	13 11	0 43	15 28	0 5	19 43	3 17	23 24	23 25	20 1	5 34	2 57	
F 12	18 10	18 23	2 15	7 11	3 5	1 22	1 27	11 58	0 35	18 26	0 48	14 21	0 59	13 11	0 43	15 28	0 5	19 43	3 17	23 24	23 25	19 59	5 35	2 57	
S 13	18 25	21 26	1 9	7 39	3 3	1 45	1 30	12 14	0 34	18 24	0 48	14 21	0 59	13 10	0 43	15 28	0 5	19 43	3 16	23 24	23 25	19 58	5 36	2 57	
S 14	18 40	23 23	0 1	8 9	3 1	2 8	1 33	12 30	0 33	18 22	0 47	14 20	0 59	13 10	0 43	15 28	0 5	19 43	3 16	23 24	23 25	19 57	5 37	2 57	
M15	18 54	24 8	1s 6	8 40	2 59	2 30	1 36	12 46	0 33	18 20	0 47	14 20	1 0	13 10	0 43	15 28	0 5	19 43	3 16	23 24	23 25	19 55	5 38	2 57	
T 16	19 8	23 44	2 9	9 12	2 56	2 53	1 39	13 1	0 32	18 18	0 47	14 19	1 0	13 10	0 43	15 28	0 5	19 43	3 16	23 24	23 25	19 54	5 40	2 57	
W17	19 22	22 14	3 5	9 45	2 52	3 16	1 42	13 16	0 32	18 16	0 47	14 19	1 0	13 9	0 44	15 28	0 5	19 43	3 16	23 24	23 25	19 52	5 41	2 57	
T 18	19 35	19 47	3 53	10 19	2 48	3 39	1 44	13 32	0 31	18 14	0 47	14 19	1 0	13 9	0 44	15 28	0 5	19 43	3 16	23 24	23 25	19 51	5 42	2 57	
F 19	19 48	16 30	4 31	10 53	2 43	4 3	1 47	13 47	0 31	18 12	0 47	14 18	1 0	13 9	0 44	15 28	0 5	19 43	3 16	23 24	23 25	19 50	5 43	2 57	
S 20	20 0	12 32	4 58	11 28	2 38	4 26	1 49	14 1	0 30	18 10	0 47	14 18	1 0	13 9	0 44	15 28	0 5	19 43	3 16	23 24	23 25	19 48	5 44	2 57	
S 21	20 13	8 2	5 12	12 4	2 32	4 49	1 52	14 16	0 29	18 8	0 47	14 18	1 1	13 9	0 44	15 28	0 5	19 43	3 16	23 24	23 25	19 47	5 45	2 57	
M22	20 25	3 9	5 12	12 41	2 26	5 12	1 54	14 31	0 29	18 6	0 47	14 17	1 1	13 9	0 44	15 28	0 5	19 43	3 16	23 24	23 25	19 45	5 46	2 57	
T 23	20 36	2n 0	4 57	13 18	2 19	5 36	1 56	14 45	0 28	18 3	0 47	14 17	1 1	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 44	5 47	2 57	
W24	20 47	7 12	4 26	13 55	2 11	5 59	1 58	15 0	0 27	18 1	0 47	14 17	1 1	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 42	5 48	2 57	
T 25	20 58	12 13	3 41	14 33	2 4	6 22	1 59	15 14	0 27	17 59	0 47	14 17	1 1	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 41	5 49	2 58	
F 26	21 9	16 45	2 42	15 11	1 55	6 46	2 1	15 28	0 26	17 56	0 47	14 17	1 1	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 40	5 50	2 58	
S 27	21 19	20 29	1 32	15 49	1 47	7 9	2 3	15 41	0 26	17 54	0 47	14 16	1 2	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 38	5 51	2 58	
S 28	21 29	23 3	0 16	16 27	1 38	7 32	2 4	15 55	0 25	17 51	0 47	14 16	1 2	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 37	5 52	2 58	
M29	21 38	24 9	1n 3	17 4	1 28	7 55	2 5	16 9	0 24	17 49	0 47	14 16	1 2	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 35	5 53	2 58	
T 30	21 47	23 39	2 18	17 42	1 19	8 19	2 7	16 22	0 24	17 46	0 47	14 16	1 2	13 8	0 44	15 28	0 5	19 43	3 15	23 24	23 25	19 34	5 54	2 58	
W31	21n56	21n34	3n25	18n19	1s 9	8n42	2s 8	16n35	0s23	17n44	0n47	14s16	1s 2	13s 8	0s44	15s28	0s 5	19n43	3s15	23n24	23n24	19s32	5n55	2n58	

# ASTRODIENST EPHEMERIS for the year 2169

## geocentric

JUNE 2169

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 39 24	10 <sup>II</sup> 57'07	22 <sup>II</sup> 17	28 <sup>II</sup> 48	28 <sup>Y</sup> 56	17 <sup>II</sup> 56	12 <sup>II</sup> 50	24 <sup>II</sup> 40	27 <sup>II</sup> R10	18 <sup>II</sup> R 5	11 <sup>II</sup> 6 6	27 <sup>II</sup> 37	28 <sup>II</sup> 24	16 <sup>II</sup> 35	8 <sup>Y</sup> 4	T 1
F 2	16 43 21	11°54'41	6 <sup>II</sup> 33	0 <sup>II</sup> 49	0 <sup>II</sup> 4	18°40	13° 0	24°40	27 <sup>II</sup> 10	18 <sup>II</sup> 5	11° 8	27°R38	28°21	16°41	8° 6	F 2
S 3	16 47 18	12°52'13	20°39	2°52	1°12	19°24	13° 9	24°40	27°10	18° 4	11° 9	27°38	28°18	16°48	8° 8	S 3
S 4	16 51 14	13°49'43	4 <sup>II</sup> 35	4°56	2°20	20° 8	13°18	24°R40	27°10	18° 4	11°10	27°37	28°14	16°55	8°10	S 4
M 5	16 55 11	14°47'13	18°18	7° 3	3°28	20°52	13°28	24°40	27° 9	18° 3	11°12	27°36	28°11	17° 1	8°12	M 5
T 6	16 59 7	15°44'41	1 <sup>II</sup> 49	9°10	4°36	21°36	13°37	24°40	27° 9	18° 3	11°13	27°34	28° 8	17° 8	8°14	T 6
W 7	17 3 4	16°42'08	15° 6	11°19	5°44	22°20	13°47	24°39	27° 9	18° 2	11°14	27°33	28° 5	17°15	8°16	W 7
T 8	17 7 0	17°39'34	28° 8	13°29	6°53	23° 3	13°56	24°39	27° 8	18° 2	11°16	27°32	28° 2	17°21	8°17	T 8
F 9	17 10 57	18°36'59	10 <sup>II</sup> 57	15°40	8° 1	23°47	14° 6	24°39	27° 8	18° 1	11°17	27°31	27°59	17°28	8°19	F 9
S 10	17 14 53	19°34'23	23°32	17°52	9°10	24°31	14°16	24°38	27° 8	18° 0	11°19	27°D30	27°55	17°35	8°21	S 10
S 11	17 18 50	20°31'46	5 <sup>II</sup> 55	20° 4	10°18	25°14	14°26	24°37	27° 7	18° 0	11°20	27°30	27°52	17°41	8°22	S 11
M12	17 22 47	21°29'09	18° 5	22°16	11°27	25°58	14°36	24°37	27° 7	17°59	11°21	27°31	27°49	17°48	8°24	M12
T 13	17 26 43	22°26'30	0 <sup>II</sup> 7	24°28	12°36	26°41	14°46	24°36	27° 6	17°58	11°23	27°31	27°46	17°55	8°25	T 13
W14	17 30 40	23°23'52	12° 2	26°40	13°45	27°25	14°57	24°35	27° 6	17°57	11°24	27°32	27°43	18° 1	8°27	W14
T 15	17 34 36	24°21'12	23°53	28°50	14°54	28° 8	15° 7	24°34	27° 5	17°57	11°26	27°32	27°39	18° 8	8°28	T 15
F 16	17 38 33	25°18'32	5 <sup>II</sup> 45	1 <sup>II</sup> 0	16° 3	28°51	15°18	24°33	27° 4	17°56	11°27	27°33	27°36	18°15	8°29	F 16
S 17	17 42 29	26°15'52	17°42	3° 9	17°12	29°35	15°28	24°31	27° 3	17°55	11°29	27°33	27°33	18°22	8°31	S 17
S 18	17 46 26	27°13'11	29°47	5°16	18°21	0 <sup>II</sup> 18	15°39	24°30	27° 3	17°54	11°30	27°33	27°30	18°28	8°32	S 18
M19	17 50 22	28°10'30	12 <sup>Y</sup> 7	7°22	19°30	1° 1	15°49	24°29	27° 2	17°53	11°32	27°33	27°27	18°35	8°33	M19
T 20	17 54 19	29° 7'48	24°44	9°26	20°40	1°44	16° 0	24°27	27° 1	17°52	11°33	27°33	27°24	18°42	8°34	T 20
W21	17 58 16	0 <sup>II</sup> 5'07	7 <sup>II</sup> 43	11°28	21°49	2°27	16°11	24°26	27° 0	17°51	11°34	27°33	27°20	18°48	8°35	W21
T 22	18 2 12	1° 2'25	21° 5	13°29	22°59	3°10	16°22	24°24	26°59	17°50	11°36	27°33	27°17	18°55	8°36	T 22
F 23	18 6 9	1°59'42	4 <sup>II</sup> 52	15°27	24° 9	3°53	16°33	24°22	26°58	17°50	11°37	27°34	27°14	19° 2	8°37	F 23
S 24	18 10 5	2°57'00	19° 1	17°23	25°18	4°36	16°44	24°20	26°57	17°48	11°39	27°34	27°11	19° 8	8°38	S 24
S 25	18 14 2	3°54'17	3 <sup>II</sup> 31	19°17	26°28	5°19	16°55	24°18	26°56	17°47	11°40	27°R34	27° 8	19°15	8°39	S 25
M26	18 17 58	4°51'34	18°15	21° 9	27°38	6° 1	17° 6	24°16	26°55	17°46	11°42	27°34	27° 5	19°22	8°40	M26
T 27	18 21 55	5°48'50	3 <sup>II</sup> 5	22°59	28°48	6°44	17°18	24°14	26°53	17°45	11°43	27°33	27° 1	19°29	8°41	T 27
W28	18 25 51	6°46'06	17°56	24°47	29°58	7°27	17°29	24°12	26°52	17°44	11°45	27°32	26°58	19°35	8°42	W28
T 29	18 29 48	7°43'21	2 <sup>II</sup> 38	26°32	1 <sup>II</sup> 8	8° 9	17°40	24°10	26°51	17°43	11°46	27°31	26°55	19°42	8°42	T 29
F 30	18 33 45	8°40'36	17 <sup>II</sup> 8	28°15	2 <sup>II</sup> 18	8 <sup>II</sup> 52	17°52	24° 7	26°50	17°42	11°48	27 <sup>II</sup> 30	26 <sup>II</sup> 52	19°49	8°43	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	22n 4	18n 8	4n18	18n56	0s58	9n 5	2s 9	16n48	0s22	17n41	0n47	14s16	1s 3	13s 8	0s44	T 1
F 2	22 12	13 40	4 55	19 31	0 48	9 28	2 10	17 1	0 22	17 39	0 47	14 16	1 3	13 8	0 44	F 2
S 3	22 19	8 30	5 14	20 6	0 37	9 50	2 10	17 13	0 21	17 36	0 47	14 17	1 3	13 8	0 44	S 3
S 4	22 26	2 59	5 14	20 40	0 26	10 13	2 11	17 26	0 20	17 33	0 47	14 17	1 3	13 8	0 44	S 4
M 5	22 33	2s36	4 56	21 13	0 16	10 36	2 12	17 38	0 20	17 31	0 47	14 17	1 3	13 8	0 44	M 5
T 6	22 39	8 0	4 22	21 43	0 5	10 58	2 12	17 50	0 19	17 28	0 46	14 17	1 3	13 9	0 44	T 6
W 7	22 45	12 56	3 34	22 13	0n 6	11 20	2 13	18 2	0 19	17 25	0 46	14 17	1 4	13 9	0 44	W 7
T 8	22 51	17 12	2 36	22 40	0 16	11 42	2 13	18 14	0 18	17 22	0 46	14 18	1 4	13 9	0 44	T 8
F 9	22 56	20 34	1 30	23 5	0 27	12 4	2 13	18 25	0 17	17 19	0 46	14 18	1 4	13 9	0 44	F 9
S 10	23 0	22 54	0 22	23 28	0 37	12 26	2 13	18 37	0 17	17 16	0 46	14 18	1 4	13 9	0 44	S 10
S 11	23 5	24 4	0s46	23 49	0 46	12 47	2 13	18 48	0 16	17 13	0 46	14 19	1 4	13 9	0 45	S 11
M12	23 9	24 2	1 52	24 7	0 56	13 9	2 13	18 59	0 15	17 11	0 46	14 19	1 5	13 10	0 45	M12
T 13	23 12	22 54	2 51	24 22	1 4	13 30	2 13	19 10	0 15	17 7	0 46	14 20	1 5	13 10	0 45	T 13
W14	23 15	20 44	3 43	24 35	1 13	13 51	2 12	19 20	0 14	17 4	0 46	14 20	1 5	13 10	0 45	W14
T 15	23 18	17 42	4 24	24 45	1 20	14 11	2 12	19 31	0 13	17 1	0 46	14 21	1 5	13 10	0 45	T 15
F 16	23 20	13 57	4 55	24 52	1 27	14 32	2 11	19 41	0 12	16 58	0 46	14 21	1 5	13 11	0 45	F 16
S 17	23 22	9 39	5 13	24 56	1 33	14 52	2 11	19 51	0 12	16 55	0 46	14 22	1 5	13 11	0 45	S 17
S 18	23 23	4 56	5 17	24 58	1 39	15 12	2 10	20 1	0 11	16 52	0 46	14 22	1 6	13 11	0 45	S 18
M19	23 24	0n 4	5 7	24 56	1 44	15 31	2 9	20 10	0 10	16 49	0 46	14 23	1 6	13 12	0 45	M19
T 20	23 25	5 11	4 42	24 53	1 48	15 50	2 8	20 20	0 10	16 46	0 46	14 24	1 6	13 12	0 45	T 20
W21	23 25	10 14	4 3	24 46	1 51	16 9	2 7	20 29	0 9	16 42	0 46	14 24	1 6	13 12	0 45	W21
T 22	23 25	14 58	3 9	24 37	1 54	16 28	2 6	20 38	0 8	16 39	0 46	14 25	1 6	13 13	0 45	T 22
F 23	23 24	19 5	2 3	24 26	1 56	16 46	2 5	20 47	0 8	16 36	0 46	14 26	1 6	13 13	0 45	F 23
S 24	23 23	22 11	0 47	24 13	1 57	17 4	2 4	20 55	0 7	16 32	0 46	14 27	1 7	13 13	0 45	S 24
S 25	23 22	23 55	0n33	23 58	1 57	17 21	2 3	21 4	0 6	16 29	0 46	14 27	1 7	13 14	0 45	S 25
M26	23 20	24 2	1 52	23 41	1 57	17 38	2 1	21 12	0 6	16 26	0 46	14 28	1 7	13 14	0 45	M26
T 27	23 17	22 26	3 4	23 22	1 56	17 55	2 0	21 20	0 5	16 22	0 46	14 29	1 7	13 15	0 45	T 27
W28	23 15	19 19	4 4	23 1	1 54	18 12	1 58	21 28	0 4	16 19	0 46	14 30	1 7	13 15	0 45	W28
T 29	23 12	14 59	4 47	22 39	1 52	18 28	1 57	21 35	0 3	16 15	0 46	14 31	1 7	13 16	0 45	T 29
F 30	23n 8	9n51	5n11	22n16	1n49	18n43	1s55	21n43	0s 3	16n12	0n46	14s32	1s 8	13s16	0s45	F 30

Julian Day Number = 2513422.5, Delta T = 135.99 sec

Ecliptic obliquity = 23°25'02, Nutation = - 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°06'28, Lahiri = 26°13'28



ASTRODIENST EPHEMERIS for the year 2169  
geocentric

JULY 2169

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	18 37 41	9♉37°50	1♊20	29♉56	3♊28	9♊34	18♊3	24°R 5	26°R48	17°R41	11♉49	27°R29	26♊49	19♉55	8♊44	S 1
S 2	18 41 38	10°35'03	15°13	1♊34	4°38	10°16	18°15	24°2	26°47	17°40	11°51	27°D29	26°45	20° 2	8°44	S 2
M 3	18 45 34	11°32'16	28°46	3°11	5°48	10°59	18°27	23°59	26°45	17°38	11°52	27♊30	26°42	20° 9	8°45	M 3
T 4	18 49 31	12°29'29	12♊0	4°45	6°59	11°41	18°38	23°57	26°44	17°37	11°54	27°31	26°39	20°15	8°45	T 4
W 5	18 53 27	13°26'41	24°58	6°17	8° 9	12°23	18°50	23°54	26°42	17°36	11°55	27°32	26°36	20°22	8°45	W 5
T 6	18 57 24	14°23'53	7♊40	7°46	9°19	13° 5	19° 2	23°51	26°41	17°35	11°57	27°33	26°33	20°29	8°46	T 6
F 7	19 1 20	15°21'05	20°10	9°13	10°30	13°47	19°14	23°48	26°39	17°33	11°58	27°34	26°30	20°35	8°46	F 7
S 8	19 5 17	16°18'17	2♉28	10°38	11°41	14°29	19°26	23°45	26°38	17°32	12° 0	27°R34	26°26	20°42	8°46	S 8
S 9	19 9 14	17°15'29	14°37	12° 1	12°51	15°11	19°38	23°42	26°36	17°31	12° 1	27°33	26°23	20°49	8°46	S 9
M10	19 13 10	18°12'41	26°39	13°21	14° 2	15°53	19°50	23°39	26°34	17°29	12° 3	27°31	26°20	20°56	8°46	M10
T 11	19 17 7	19° 9'53	8♉35	14°38	15°13	16°35	20° 2	23°36	26°33	17°28	12° 4	27°29	26°17	21° 2	8°R46	T 11
W12	19 21 3	20° 7'05	20°27	15°53	16°23	17°17	20°14	23°32	26°31	17°26	12° 6	27°25	26°14	21° 9	8°46	W12
T 13	19 25 0	21° 4'17	2♊18	17° 6	17°34	17°58	20°26	23°29	26°29	17°25	12° 7	27°21	26°11	21°16	8°46	T 13
F 14	19 28 56	22° 1'30	14°11	18°16	18°45	18°40	20°39	23°26	26°27	17°24	12° 9	27°18	26° 7	21°22	8°46	F 14
S 15	19 32 53	22°58'43	26° 7	19°23	19°56	19°21	20°51	23°22	26°26	17°22	12°10	27°14	26° 4	21°29	8°46	S 15
S 16	19 36 49	23°55'56	8♊12	20°28	21° 7	20° 3	21° 3	23°18	26°24	17°21	12°12	27°12	26° 1	21°36	8°46	S 16
M17	19 40 46	24°53'10	20°30	21°29	22°18	20°44	21°16	23°15	26°22	17°19	12°13	27°D11	25°58	21°42	8°46	M17
T 18	19 44 43	25°50'25	3♉3	22°28	23°29	21°26	21°28	23°11	26°20	17°18	12°15	27°11	25°55	21°49	8°45	T 18
W19	19 48 39	26°47'40	15°58	23°24	24°41	22° 7	21°41	23° 7	26°18	17°16	12°16	27°12	25°51	21°56	8°45	W19
T 20	19 52 36	27°44'56	29°16	24°16	25°52	22°48	21°53	23° 4	26°16	17°15	12°18	27°14	25°48	22° 3	8°45	T 20
F 21	19 56 32	28°42'12	13♊1	25° 5	27° 3	23°30	22° 6	23° 0	26°14	17°13	12°19	27°15	25°45	22° 9	8°44	F 21
S 22	20 0 29	29°39'30	27°13	25°51	28°15	24°11	22°18	22°56	26°12	17°12	12°21	27°R16	25°42	22°16	8°44	S 22
S 23	20 4 25	0♊36°48	11♉50	26°33	29°26	24°52	22°31	22°52	26°10	17°10	12°22	27°15	25°39	22°23	8°43	S 23
M24	20 8 22	1°34'06	26°46	27°11	0♉38	25°33	22°43	22°48	26° 8	17° 9	12°23	27°13	25°36	22°29	8°42	M24
T 25	20 12 19	2°31'25	11♊55	27°46	1°49	26°14	22°56	22°44	26° 6	17° 7	12°25	27° 9	25°32	22°36	8°42	T 25
W26	20 16 15	3°28'45	27° 5	28°16	3° 1	26°55	23° 9	22°40	26° 3	17° 6	12°26	27° 4	25°29	22°43	8°41	W26
T 27	20 20 12	4°26'05	12♊8	28°42	4°12	27°35	23°22	22°36	26° 1	17° 4	12°28	26°59	25°26	22°49	8°40	T 27
F 28	20 24 8	5°23'25	26°55	29° 4	5°24	28°16	23°34	22°31	25°59	17° 2	12°29	26°54	25°23	22°56	8°39	F 28
S 29	20 28 5	6°20'46	11♊19	29°21	6°36	28°57	23°47	22°27	25°57	17° 1	12°31	26°50	25°20	23° 3	8°38	S 29
S 30	20 32 1	7°18'07	25°17	29°34	7°48	29°38	24° 0	22°23	25°55	16°59	12°32	26°48	25°17	23°10	8°37	S 30
M31	20 35 58	8♊15°28	8♊49	29♊42	9♉0	0♉18	24♊13	22°19	25°52	16°58	12°33	26°D47	25♊13	23°16	8♊36	M31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	23n 4	4n18	5n16	21n51	1n45	18n58	1s54	21n50	0s 2	16n 8	0n46	14s33	1s 8	13s17	0s45	15s36	0s 5	19n42	3s12	23n24	23n23	18s44	6n14	3n 1										
S 2	23 0	1s21	5 2	21 26	1 41	19 13	1 52	21 57	0 1	16 5	0 46	14 34	1 8	13 17	0 45	15 37	0 5	19 42	3 12	23 24	23 23	18 42	6 14	3 1										
M 3	22 55	6 48	4 31	20 59	1 36	19 27	1 50	22 3	0 1	16 1	0 46	14 35	1 8	13 18	0 45	15 37	0 5	19 42	3 12	23 24	23 23	18 41	6 14	3 1										
T 4	22 50	11 50	3 46	20 31	1 30	19 41	1 48	22 10	0n 0	15 57	0 46	14 36	1 8	13 18	0 45	15 37	0 5	19 42	3 12	23 24	23 22	18 39	6 14	3 1										
W 5	22 44	16 14	2 51	20 3	1 24	19 54	1 46	22 16	0 1	15 54	0 46	14 37	1 8	13 19	0 45	15 38	0 5	19 42	3 12	23 24	23 22	18 37	6 15	3 1										
T 6	22 38	19 48	1 48	19 33	1 17	20 7	1 44	22 22	0 1	15 50	0 46	14 38	1 9	13 19	0 45	15 38	0 5	19 42	3 12	23 24	23 22	18 36	6 15	3 1										
F 7	22 32	22 22	0 41	19 4	1 10	20 19	1 42	22 28	0 2	15 46	0 46	14 39	1 9	13 20	0 45	15 39	0 5	19 42	3 12	23 24	23 22	18 34	6 15	3 1										
S 8	22 25	23 51	0s27	18 33	1 3	20 31	1 40	22 34	0 3	15 42	0 46	14 40	1 9	13 20	0 45	15 39	0 5	19 41	3 12	23 24	23 22	18 32	6 15	3 1										
S 9	22 18	24 9	1 33	18 3	0 54	20 42	1 38	22 39	0 4	15 39	0 46	14 42	1 9	13 21	0 45	15 40	0 5	19 41	3 12	23 24	23 22	18 31	6 15	3 2										
M10	22 11	23 19	2 33	17 32	0 46	20 53	1 35	22 45	0 4	15 35	0 46	14 43	1 9	13 22	0 45	15 40	0 5	19 41	3 12	23 24	23 22	18 29	6 15	3 2										
T 11	22 3	21 26	3 27	17 1	0 37	21 3	1 33	22 50	0 5	15 31	0 46	14 44	1 9	13 22	0 46	15 40	0 5	19 41	3 12	23 24	23 22	18 27	6 16	3 2										
W12	21 55	18 37	4 11	16 29	0 27	21 13	1 31	22 54	0 6	15 27	0 46	14 45	1 10	13 23	0 46	15 41	0 5	19 41	3 12	23 24	23 22	18 26	6 16	3 2										
T 13	21 46	15 4	4 44	15 58	0 17	21 22	1 28	22 59	0 7	15 23	0 46	14 47	1 10	13 23	0 46	15 41	0 5	19 41	3 12	23 23	23 22	18 24	6 16	3 2										
F 14	21 37	10 55	5 5	15 27	0 7	21 31	1 26	23 3	0 7	15 20	0 46	14 48	1 10	13 24	0 46	15 42	0 6	19 41	3 12	23 23	23 22	18 22	6 16	3 2										
S 15	21 28	6 20	5 13	14 56	0s 4	21 39	1 24	23 7	0 8	15 16	0 46	14 49	1 10	13 25	0 46	15 42	0 6	19 41	3 12	23 23	23 22	18 20	6 16	3 2										
S 16	21 18	1 28	5 8	14 25	0 15	21 46	1 21	23 11	0 9	15 12	0 46	14 50	1 10	13 25	0 46	15 43	0 6	19 41	3 12	23 23	23 21	18 19	6 16	3 2										
M17	21 8	3n33	4 48	13 55	0 27	21 53	1 19	23 15	0 9	15 8	0 46	14 52	1 10	13 26	0 46	15 43	0 6	19 41	3 11	23 23	23 21	18 17	6 16	3 2										
T 18	20 57	8 32	4 14	13 24	0 38	22 0	1 16	23 19	0 10	15 4	0 46	14 53	1 10	13 27	0 46	15 44	0 6	19 41	3 11	23 23	23 21	18 15	6 16	3 2										
W19	20 47	13 18	3 27	12 55	0 50	22 5	1 13	23 22	0 11	15 0	0 46	14 54	1 11	13 27	0 46	15 44	0 6	19 40	3 11	23 23	23 21	18 13	6 16	3 3										
T 20	20 36	17 35	2 27	12 26	1 3	22 10	1 11	23 25	0 12	14 56	0 46	14 56	1 11	13 28	0 46	15 44	0 6	19 40	3 11	23 23	23 21	18 12	6 16	3 3										
F 21	20 24	21 4	1 17	11 58	1 15	22 15	1 8	23 28	0 12	14 52	0 46	14 57	1 11	13 29	0 46	15 45	0 6	19 40	3 11	23 23	23 21	18 10	6 15	3 3										
S 22	20 12	23 23	0 0	11 30	1 28	22 19	1 5	23 30	0 13	14 48	0 46	14 59	1 11	13 30	0 46	15 45	0 6	19 40	3 11	23 23	23 21	18 8	6 15	3 3										
S 23	20 0	24 12	1n19	11 4	1 41	22 22	1 3	23 33	0 14	14 44	0 46	15 0	1 11	13 30	0 46	15 46	0 6	19 40	3 11	23 23	23 21	18 7	6 15	3 3										
M24	19 48	23 18	2 34	10 39	1 54	22 25	1 0	23 35	0 15	14 39	0 46	15 2	1 11	13 31	0 46	15 46	0 6	19 40	3 11	23 23	23 21	18 5	6 15	3 3										
T 25	19 35	20 43	3 39	10 14	2 8	22 27	0 57	23 37	0 15	14 35	0 46	15 3	1 11	13 32	0 46	15 47	0 6	19 40	3 11	23 23	23 21	18 3	6 15	3 3										
W26	19 22	16 41	4 29	9 51	2 21	22 29	0 54	23 39	0 16	14 31	0 46	15 4	1 11	13 32	0 46	15 47	0 6	19 40	3 11	23 23	23 20	18 1	6 15	3 3										
T 27	19 8	11 37	5 0	9 30	2 34	22 30	0 52	23 41	0 17	14 27	0 46	15 6	1 12	13 33	0 46	15 48	0 6	19 40	3 11	23 23	23 20	17 59	6 14	3 3										
F 28	18 54	5 59	5 10	9 10	2 48	22 30	0 49	23 42	0 18	14 23	0 46	15 7	1 12	13 34	0 46	15 48	0 6	19 40	3 11	23 23	23 20	17 58	6 14	3 3										
S 29	18 40	0 9	5 1	8 52	3 1	22 29	0 46	23 43	0 18	14 19	0 46	15 9	1 12	13 35	0 46	15 49	0 6	19 39	3 11	23 23	23 20	17 56	6 14	3 3										
S 30	18 26	5s32	4 33	8 35	3 14	22 28	0 43	23 44	0 19	14 14	0 46	15 10	1 12	13 35	0 46	15 49	0 6	19 39	3 11	23 23	23 20	17 54	6 14	3 4										
M31	18n11	10s47	3n51	8n21	3s26	22n27	0s40	23n45	0n20	14n10	0n46	15s12	1s12	13s36	0s46	15s50	0s 6	19n39	3s11	23n23	23n20	17s52	6n13	3n 4										



ASTRODIENST EPHEMERIS for the year 2169  
geocentric

AUGUST 2169

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 39 54	9♌12°50	21♍58	29°R44	10♎11	0♏59	24♐26	22°R14	25°R50	16°R56	12♑35	26♒48	25♓10	23♈23	8°R35	T 1
W 2	20 43 51	10°10'13	4♌45	29♌42	11°23	1°39	24°39	22♌10	25♌48	16♌54	12°36	26°49	25° 7	23°30	8♌34	W 2
T 3	20 47 47	11° 7'36	17°14	29°34	12°35	2°19	24°51	22° 6	25°46	16°53	12°37	26°50	25° 4	23°36	8°33	T 3
F 4	20 51 44	12° 5'00	29°31	29°22	13°47	3° 0	25° 4	22° 1	25°43	16°51	12°39	26°R51	25° 1	23°43	8°32	F 4
S 5	20 55 41	13° 2'24	11♌37	29° 4	15° 0	3°40	25°17	21°57	25°41	16°49	12°40	26°50	24°57	23°50	8°31	S 5
S 6	20 59 37	13°59'49	23°36	28°41	16°12	4°20	25°30	21°53	25°39	16°48	12°41	26°46	24°54	23°56	8°29	S 6
M 7	21 3 34	14°57'15	5♌30	28°13	17°24	5° 0	25°43	21°48	25°36	16°46	12°43	26°41	24°51	24° 3	8°28	M 7
T 8	21 7 30	15°54'42	17°22	27°41	18°36	5°40	25°56	21°44	25°34	16°45	12°44	26°33	24°48	24°10	8°27	T 8
W 9	21 11 27	16°52'10	29°14	27° 4	19°49	6°20	26° 9	21°39	25°32	16°43	12°45	26°25	24°45	24°17	8°25	W 9
T 10	21 15 23	17°49'38	11♌6	26°24	21° 1	7° 0	26°22	21°35	25°29	16°41	12°47	26°15	24°42	24°23	8°24	T 10
F 11	21 19 20	18°47'08	23° 1	25°40	22°13	7°40	26°35	21°30	25°27	16°40	12°48	26° 5	24°38	24°30	8°22	F 11
S 12	21 23 16	19°44'39	5♌1	24°54	23°26	8°20	26°48	21°26	25°25	16°38	12°49	25°57	24°35	24°37	8°21	S 12
S 13	21 27 13	20°42'12	17° 9	24° 6	24°38	8°59	27° 2	21°21	25°22	16°36	12°50	25°50	24°32	24°43	8°19	S 13
M14	21 31 10	21°39'45	29°26	23°17	25°51	9°39	27°15	21°17	25°20	16°35	12°51	25°45	24°29	24°50	8°17	M14
T 15	21 35 6	22°37'20	11♌58	22°28	27° 4	10°19	27°28	21°12	25°17	16°33	12°53	25°43	24°26	24°57	8°16	T 15
W16	21 39 3	23°34'57	24°48	21°40	28°16	10°58	27°41	21° 8	25°15	16°32	12°54	25°D42	24°22	25° 4	8°14	W16
T 17	21 42 59	24°32'35	8♌0	20°54	29°29	11°38	27°54	21° 3	25°13	16°30	12°55	25°43	24°19	25°10	8°12	T 17
F 18	21 46 56	25°30'15	21°37	20°11	0♌42	12°17	28° 7	20°59	25°10	16°28	12°56	25°R43	24°16	25°17	8°10	F 18
S 19	21 50 52	26°27'56	5♌42	19°31	1°55	12°56	28°20	20°54	25° 8	16°27	12°57	25°43	24°13	25°24	8° 9	S 19
S 20	21 54 49	27°25'39	20°13	18°56	3° 7	13°36	28°33	20°50	25° 5	16°25	12°59	25°41	24°10	25°30	8° 7	S 20
M21	21 58 45	28°23'23	5♌7	18°26	4°20	14°15	28°46	20°45	25° 3	16°23	13° 0	25°36	24° 7	25°37	8° 5	M21
T 22	22 2 42	29°21'09	20°18	18° 2	5°33	14°54	29° 0	20°41	25° 1	16°22	13° 1	25°29	24° 3	25°44	8° 3	T 22
W23	22 6 39	0♌18'56	5♌36	17°45	6°46	15°33	29°13	20°36	24°58	16°20	13° 2	25°21	24° 0	25°50	8° 1	W23
T 24	22 10 35	1°16'44	20°50	17°34	8° 0	16°12	29°26	20°32	24°56	16°19	13° 3	25°11	23°57	25°57	7°59	T 24
F 25	22 14 32	2°14'33	5♌49	17°D31	9°13	16°51	29°39	20°28	24°54	16°17	13° 4	25° 2	23°54	26° 4	7°57	F 25
S 26	22 18 28	3°12'24	20°24	17°36	10°26	17°30	29°52	20°23	24°51	16°16	13° 5	24°54	23°51	26°11	7°54	S 26
S 27	22 22 25	4°10'16	4♌32	17°48	11°39	18° 9	0♌5	20°19	24°49	16°14	13° 6	24°48	23°48	26°17	7°52	S 27
M28	22 26 21	5° 8'09	18° 9	18° 9	12°52	18°47	0°18	20°15	24°46	16°13	13° 7	24°45	23°44	26°24	7°50	M28
T 29	22 30 18	6° 6'04	1♌19	18°37	14° 6	19°26	0°31	20°11	24°44	16°11	13° 8	24°D44	23°41	26°31	7°48	T 29
W30	22 34 14	7° 3'59	14° 4	19°13	15°19	20° 4	0°44	20° 6	24°42	16°10	13° 9	24°44	23°38	26°37	7°46	W30
T 31	22 38 11	8♌1'56	26♌30	19♌57	16♌32	20♌43	0♌57	20♌2	24♌40	16♌8	13♌10	24°R44	23♌35	26♌44	7♌43	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	decl	lat	decl	lat
T 1	17n56	15s23	2n58	8n 8	3s39	22n24	0s37	23n45	0n20	14n 6	0n47	15s13	1s12	13s37	0s46	15s50	0s 6	19n39	3s11	23n23	23n20	17s51	6n13	3n 4		
W 2	17 41	19 9	1 57	7 58	3 50	22 21	0 34	23 46	0 21	14 2	0 47	15 15	1 12	13 38	0 46	15 51	0 6	19 39	3 11	23 23	23 20	17 49	6 13	3 4		
T 3	17 25	21 57	0 52	7 50	4 2	22 18	0 32	23 46	0 22	13 57	0 47	15 16	1 12	13 39	0 46	15 51	0 6	19 39	3 11	23 23	23 20	17 47	6 12	3 4		
F 4	17 9	23 39	0s14	7 45	4 12	22 14	0 29	23 46	0 23	13 53	0 47	15 18	1 12	13 39	0 46	15 52	0 6	19 39	3 11	23 23	23 19	17 45	6 12	3 4		
S 5	16 53	24 13	1 19	7 42	4 22	22 9	0 26	23 45	0 23	13 49	0 47	15 19	1 13	13 40	0 46	15 52	0 6	19 39	3 11	23 23	23 19	17 43	6 11	3 4		
S 6	16 37	23 39	2 19	7 42	4 30	22 3	0 23	23 45	0 24	13 44	0 47	15 21	1 13	13 41	0 46	15 53	0 6	19 39	3 11	23 23	23 19	17 41	6 11	3 4		
M 7	16 20	22 0	3 13	7 44	4 38	21 57	0 20	23 44	0 25	13 40	0 47	15 22	1 13	13 42	0 46	15 53	0 6	19 39	3 11	23 23	23 19	17 40	6 10	3 4		
T 8	16 3	19 23	3 58	7 49	4 44	21 51	0 17	23 43	0 26	13 36	0 47	15 24	1 13	13 43	0 46	15 54	0 6	19 38	3 11	23 22	23 19	17 38	6 10	3 4		
W 9	15 46	15 59	4 32	7 57	4 49	21 43	0 14	23 42	0 26	13 31	0 47	15 26	1 13	13 43	0 46	15 54	0 6	19 38	3 11	23 22	23 19	17 36	6 10	3 4		
T 10	15 29	11 57	4 55	8 7	4 52	21 35	0 11	23 41	0 27	13 27	0 47	15 27	1 13	13 44	0 46	15 55	0 6	19 38	3 11	23 22	23 19	17 34	6 9	3 4		
F 11	15 11	7 26	5 5	8 20	4 54	21 27	0 9	23 40	0 28	13 23	0 47	15 29	1 13	13 45	0 46	15 55	0 6	19 38	3 11	23 22	23 19	17 32	6 8	3 4		
S 12	14 53	2 38	5 2	8 36	4 54	21 17	0 6	23 38	0 29	13 18	0 47	15 30	1 13	13 46	0 46	15 56	0 6	19 38	3 11	23 21	23 18	17 30	6 8	3 4		
S 13	14 35	2n20	4 45	8 53	4 52	21 8	0 3	23 36	0 30	13 14	0 47	15 32	1 13	13 47	0 46	15 56	0 6	19 38	3 11	23 21	23 18	17 29	6 7	3 5		
M14	14 16	7 17	4 15	9 13	4 48	20 57	0 0	23 34	0 30	13 9	0 47	15 33	1 13	13 47	0 46	15 57	0 6	19 38	3 11	23 21	23 18	17 27	6 7	3 5		
T 15	13 58	12 3	3 32	9 34	4 42	20 46	0n 3	23 32	0 31	13 5	0 47	15 35	1 13	13 48	0 46	15 57	0 6	19 38	3 11	23 21	23 18	17 25	6 6	3 5		
W16	13 39	16 24	2 38	9 56	4 34	20 35	0 5	23 30	0 32	13 0	0 47	15 36	1 14	13 49	0 46	15 58	0 6	19 38	3 11	23 21	23 18	17 23	6 5	3 5		
T 17	13 20	20 5	1 33	10 19	4 25	20 22	0 8	23 27	0 33	12 56	0 47	15 38	1 14	13 50	0 46	15 58	0 6	19 38	3 11	23 21	23 18	17 21	6 5	3 5		
F 18	13 0	22 47	0 22	10 43	4 14	20 10	0 11	23 24	0 33	12 51	0 47	15 39	1 14	13 51	0 46	15 59	0 6	19 37	3 11	23 21	23 18	17 19	6 4	3 5		
S 19	12 41	24 11	0n53	11 7	4 2	19 56	0 13	23 21	0 34	12 47	0 47	15 41	1 14	13 51	0 46	15 59	0 6	19 37	3 11	23 21	23 17	17 17	6 3	3 5		
S 20	12 21	23 59	2 7	11 31	3 48	19 42	0 16	23 18	0 35	12 42	0 47	15 42	1 14	13 52	0 46	16 0	0 6	19 37	3 11	23 21	23 17	17 15	6 3	3 5		
M21	12 1	22 6	3 14	11 55	3 33	19 28	0 19	23 15	0 36	12 38	0 47	15 44	1 14	13 53	0 46	16 0	0 6	19 37	3 11	23 21	23 17	17 14	6 2	3 5		
T 22	11 41	18 38	4 8	12 18	3 17	19 13	0 21	23 11	0 36	12 33	0 48	15 45	1 14	13 54	0 46	16 1	0 6	19 37	3 11	23 20	23 17	17 12	6 1	3 5		
W23	11 21	13 52	4 45	12 39	3 0	18 57	0 24	23 8	0 37	12 29	0 48	15 47	1 14	13 55	0 46	16 1	0 6	19 37	3 11	23 20	23 17	17 10	6 1	3 5		
T 24	11 1	8 15	5 2	12 59	2 42	18 41	0 27	23 4	0 38	12 24	0 48	15 48	1 14	13 55	0 46	16 2	0 6	19 37	3 11	23 20	23 17	17 8	6 0	3 5		
F 25	10 40	2 15	4 58	13 17	2 24	18 24	0 29	23 0	0 39	12 20	0 48	15 50	1 14	13 56	0 46	16 2	0 6	19 37	3 11	23 19	23 17	17 6	5 59	3 5		
S 26	10 19	3s44	4 34	13 32	2 6	18 7	0 32	22 56	0 39	12 15	0 48	15 51	1 14	13 57	0 46	16 3	0 6	19 37	3 11	23 19	23 16	17 4	5 58	3 5		
S 27	9 58	9 21	3 54	13 46	1 48	17 49	0 34	22 51	0 40	12 11	0 48	15 52	1 14	13 58	0 46	16 3	0 6	19 36	3 11	23 19	23 16	17 2	5 57	3 5		
M28	9 37	14 19	3 1	13 57	1 30	17 31	0 36	22 47	0 41	12 6	0 48	15 54	1 14	13 59	0 46	16 4	0 6	19 36	3 11	23 19	23 16	17 0	5 56	3 5		
T 29	9 16	18 26	2 1	14 5	1 12	17 12	0 39	22 42	0 42	12 2	0 48	15 55	1 14	13 59	0 46	16 4	0 6	19 36	3 11	23 19	23 16	16 58	5 56	3 5		
W30	8 55	21 32	0 56	14 11	0 55	16 53	0 41	22 37	0 43	11 57	0 48	15 57	1 14	14 0	0 46	16 5	0 6	19 36	3 11	23 19	23 16	16 56	5 55	3 5		
T 31	8n33	23s32	0s 9	14n13	0s38	16n33	0n43	22n32	0n43	11n52	0n48	15s58	1s14	14s 1	0s46	16s 5	0s 6	19n36	3s11	23n19	23n16	16s54	5n54	3n 5		

# ASTRODIENST EPHEMERIS for the year 2169

## geocentric

SEPTEMBER 2169

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 42 8	8♍59°55	8♋40	20♌48	17♌46	21♍21	1♍11	19°R58	24°R37	16°R 7	13♍11	24°R43	23♌32	26♍51	7°R41	F 1	
S 2	22 46 4	9°57'54	20°40	21°47	18°59	22° 0	1°24	19°54	24°35	16° 5	13°12	24°41	23°28	26°58	7°Y39	S 2	
S 3	22 50 1	10°55'55	2°33	22°52	20°13	22°38	1°37	19°50	24°33	16° 4	13°13	24°35	23°25	27° 4	7°36	S 3	
M 4	22 53 57	11°53'58	14°24	24° 4	21°26	23°16	1°50	19°46	24°30	16° 2	13°14	24°27	23°22	27°11	7°34	M 4	
T 5	22 57 54	12°52'02	26°15	25°22	22°40	23°54	2° 3	19°42	24°28	16° 1	13°14	24°17	23°19	27°18	7°31	T 5	
W 6	23 1 50	13°50'07	8♋ 8	26°46	23°54	24°32	2°16	19°38	24°26	15°59	13°15	24° 4	23°16	27°24	7°29	W 6	
T 7	23 5 47	14°48'14	20° 5	28°14	25° 7	25°10	2°29	19°34	24°24	15°58	13°16	23°50	23°13	27°31	7°26	T 7	
F 8	23 9 43	15°46'23	2♍ 6	29°47	26°21	25°48	2°41	19°30	24°22	15°57	13°17	23°37	23° 9	27°38	7°24	F 8	
S 9	23 13 40	16°44'33	14°14	1♍25	27°35	26°26	2°54	19°27	24°19	15°55	13°18	23°24	23° 6	27°44	7°21	S 9	
S 10	23 17 37	17°42'46	26°30	3° 6	28°49	27° 4	3° 7	19°23	24°17	15°54	13°18	23°14	23° 3	27°51	7°19	S 10	
M11	23 21 33	18°41'00	8♋54	4°50	0♍ 2	27°41	3°20	19°19	24°15	15°53	13°19	23° 6	23° 0	27°58	7°16	M11	
T 12	23 25 30	19°39'16	21°31	6°36	1°16	28°19	3°33	19°16	24°13	15°51	13°20	23° 2	22°57	28° 5	7°14	T 12	
W13	23 29 26	20°37'35	4♌22	8°25	2°30	28°57	3°46	19°12	24°11	15°50	13°21	22°59	22°54	28°11	7°11	W13	
T 14	23 33 23	21°35'55	17°31	10°15	3°44	29°34	3°59	19° 9	24° 9	15°49	13°21	22°59	22°50	28°18	7° 8	T 14	
F 15	23 37 19	22°34'18	1♌ 1	12° 6	4°58	0♌11	4°11	19° 5	24° 7	15°48	13°22	22°59	22°47	28°25	7° 6	F 15	
S 16	23 41 16	23°32'43	14°55	13°59	6°12	0°49	4°24	19° 2	24° 5	15°46	13°23	22°58	22°44	28°31	7° 3	S 16	
S 17	23 45 12	24°31'10	29°13	15°52	7°26	1°26	4°37	18°59	24° 3	15°45	13°23	22°55	22°41	28°38	7° 0	S 17	
M18	23 49 9	25°29'39	13♌53	17°45	8°41	2° 3	4°50	18°56	24° 1	15°44	13°24	22°50	22°38	28°45	6°58	M18	
T 19	23 53 6	26°28'10	28°52	19°38	9°55	2°40	5° 2	18°52	23°59	15°43	13°24	22°42	22°34	28°52	6°55	T 19	
W20	23 57 2	27°26'43	14♍ 0	21°32	11° 9	3°17	5°15	18°49	23°57	15°42	13°25	22°32	22°31	28°58	6°52	W20	
T 21	0 0 59	28°25'18	29° 9	23°24	12°23	3°54	5°27	18°47	23°55	15°41	13°26	22°20	22°28	29° 5	6°50	T 21	
F 22	0 4 55	29°23'55	14♌ 7	25°17	13°38	4°31	5°40	18°44	23°54	15°40	13°26	22° 9	22°25	29°12	6°47	F 22	
S 23	0 8 52	0♌22'33	28°46	27° 9	14°52	5° 8	5°52	18°41	23°52	15°39	13°27	22° 0	22°22	29°18	6°44	S 23	
S 24	0 12 48	1°21'14	12♌58	29° 0	16° 6	5°44	6° 5	18°38	23°50	15°38	13°27	21°53	22°19	29°25	6°41	S 24	
M25	0 16 45	2°19'56	26°41	0♌50	17°21	6°21	6°17	18°36	23°48	15°37	13°27	21°48	22°15	29°32	6°39	M25	
T 26	0 20 41	3°18'40	9♌56	2°40	18°35	6°57	6°30	18°33	23°47	15°36	13°28	21°46	22°12	29°39	6°36	T 26	
W27	0 24 38	4°17'26	22°44	4°29	19°49	7°34	6°42	18°31	23°45	15°35	13°28	21°D46	22° 9	29°45	6°33	W27	
T 28	0 28 35	5°16'13	5♌11	6°16	21° 4	8°10	6°54	18°28	23°43	15°34	13°29	21°R46	22° 6	29°52	6°30	T 28	
F 29	0 32 31	6°15'03	17°21	8° 3	22°18	8°46	7° 7	18°26	23°42	15°33	13°29	21°46	22° 3	29°59	6°28	F 29	
S 30	0 36 28	7♌13'53	29♌20	9♌50	23♍33	9♌22	7♍19	18°24	23°40	15°32	13°29	21°43	21°59	0♋ 5	6°Y25	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	8n11	24s21	1s13	14n12	0s22	16n13	0n46	22n27	0n44	11n48	0n48	15s59	1s14	14s 2	0s46	16s 5	0s 6	19n36	3s11	23n19	23n16	16s52	5n53	3n 5			
S 2	7 50	24 1	2 13	14 8	0 6	15 52	0 48	22 22	0 45	11 43	0 48	16 1	1 14	14 2	0 46	16 6	0 6	19 36	3 11	23 19	23 15	16 50	5 52	3 5			
S 3	7 28	22 35	3 6	14 1	0n 8	15 31	0 50	22 16	0 46	11 39	0 48	16 2	1 14	14 3	0 46	16 6	0 6	19 36	3 11	23 18	23 15	16 48	5 51	3 5			
M 4	7 6	20 10	3 51	13 50	0 22	15 10	0 52	22 11	0 47	11 34	0 48	16 3	1 14	14 4	0 46	16 7	0 6	19 36	3 11	23 18	23 15	16 46	5 50	3 5			
T 5	6 43	16 55	4 25	13 36	0 35	14 48	0 54	22 5	0 47	11 30	0 49	16 4	1 15	14 5	0 46	16 7	0 6	19 36	3 11	23 18	23 15	16 44	5 49	3 5			
W 6	6 21	12 58	4 48	13 19	0 47	14 25	0 56	21 59	0 48	11 25	0 49	16 6	1 15	14 5	0 46	16 8	0 6	19 36	3 11	23 17	23 15	16 43	5 48	3 5			
T 7	5 59	8 31	4 59	12 58	0 57	14 3	0 58	21 53	0 49	11 20	0 49	16 7	1 15	14 6	0 46	16 8	0 6	19 35	3 11	23 16	23 15	16 41	5 47	3 5			
F 8	5 36	3 42	4 57	12 35	1 7	13 40	1 0	21 47	0 50	11 16	0 49	16 8	1 15	14 7	0 46	16 8	0 6	19 35	3 11	23 16	23 14	16 39	5 46	3 5			
S 9	5 14	1n18	4 41	12 9	1 16	13 16	1 2	21 40	0 50	11 11	0 49	16 9	1 15	14 8	0 46	16 9	0 6	19 35	3 11	23 15	23 14	16 37	5 45	3 5			
S 10	4 51	6 18	4 11	11 39	1 23	12 52	1 3	21 34	0 51	11 7	0 49	16 11	1 15	14 8	0 46	16 9	0 6	19 35	3 11	23 15	23 14	16 35	5 44	3 5			
M11	4 28	11 8	3 30	11 8	1 30	12 28	1 5	21 27	0 52	11 2	0 49	16 12	1 15	14 9	0 46	16 10	0 6	19 35	3 11	23 14	23 14	16 33	5 43	3 5			
T 12	4 6	15 35	2 38	10 33	1 35	12 3	1 7	21 21	0 53	10 58	0 49	16 13	1 15	14 10	0 46	16 10	0 6	19 35	3 11	23 14	23 14	16 31	5 42	3 5			
W13	3 43	19 25	1 37	9 57	1 40	11 38	1 8	21 14	0 54	10 53	0 49	16 14	1 15	14 10	0 46	16 10	0 6	19 35	3 11	23 14	23 14	16 29	5 41	3 5			
T 14	3 20	22 21	0 29	9 19	1 43	11 13	1 10	21 7	0 54	10 49	0 49	16 15	1 15	14 11	0 46	16 11	0 6	19 35	3 11	23 14	23 13	16 27	5 40	3 5			
F 15	2 57	24 7	0n42	8 39	1 46	10 47	1 11	20 59	0 55	10 44	0 49	16 16	1 15	14 12	0 46	16 11	0 6	19 35	3 11	23 14	23 13	16 25	5 39	3 5			
S 16	2 34	24 27	1 53	7 57	1 48	10 21	1 13	20 52	0 56	10 39	0 50	16 17	1 15	14 12	0 46	16 12	0 6	19 35	3 11	23 14	23 13	16 23	5 38	3 5			
S 17	2 11	23 13	2 59	7 14	1 49	9 55	1 14	20 45	0 57	10 35	0 50	16 18	1 15	14 13	0 46	16 12	0 6	19 35	3 11	23 14	23 13	16 20	5 37	3 5			
M18	1 47	20 23	3 54	6 31	1 49	9 29	1 15	20 37	0 58	10 30	0 50	16 19	1 15	14 13	0 46	16 12	0 6	19 35	3 11	23 13	23 13	16 18	5 36	3 5			
T 19	1 24	16 9	4 35	5 46	1 48	9 2	1 17	20 30	0 58	10 26	0 50	16 20	1 15	14 14	0 46	16 13	0 6	19 34	3 11	23 13	23 13	16 16	5 35	3 5			
W20	1 1	10 51	4 57	5 0	1 47	8 35	1 18	20 22	0 59	10 21	0 50	16 21	1 15	14 15	0 46	16 13	0 6	19 34	3 11	23 12	23 12	16 14	5 33	3 5			
T 21	0 38	4 54	4 58	4 14	1 45	8 7	1 19	20 14	1 0	10 17	0 50	16 22	1 15	14 15	0 46	16 13	0 6	19 34	3 11	23 12	23 12	16 12	5 32	3 5			
F 22	0 14	1s17	4 39	3 27	1 43	7 40	1 20	20 6	1 1	10 12	0 50	16 23	1 15	14 16	0 46	16 14	0 6	19 34	3 11	23 11	23 12	16 10	5 31	3 5			
S 23	0s 9	7 16	4 1	2 40	1 40	7 12	1 21	19 58	1 2	10 8	0 50	16 24	1 15	14 16	0 46	16 14	0 6	19 34	3 11	23 11	23 12	16 8	5 30	3 5			
S 24	0 32	12 42	3 10	1 53	1 37	6 44	1 22	19 50	1 3	10 3	0 50	16 25	1 15	14 17	0 46	16 14	0 6	19 34	3 11	23 10	23 12	16 6	5 29	3 5			
M25	0 56	17 19	2 9	1 5	1 33	6 16	1 23	19 42	1 3	9 59	0 51	16 25	1 15	14 18	0 46	16 15	0 6	19 34	3 11	23 10	23 11	16 4	5 28	3 5			
T 26	1 19	20 53	1 2	0 18	1 29	5 48	1 24	19 33	1 4	9 54	0 51	16 26	1 15	14 18	0 46	16 15	0 6	19 34	3 11	23 10	23 11	16 2	5 27	3 5			
W27	1 42	23 18	0s 5	0s29	1 24	5 19	1 24	19 25	1 5	9 50	0 51	16 27	1 15	14 19	0 46	16 15	0 6	19 34	3 11	23 10	23 11	16 0	5 26	3 5			
T 28	2 6	24 29	1 11	1 17	1 19	4 50	1 25	19 16	1 6	9 45	0 51	16 28	1 14	14 19	0 46	16 15	0 6	19 34	3 11	23 10	23 11	15 58	5 24	3 5			
F 29	2 29	24 28	2 11	2 4	1 14	4 22	1 26	19 7	1 7	9 41	0 51	16 28	1 14	14 20	0 46	16 16	0 6	19 34	3 11	23 10	23 11	15 56	5 23	3 5			
S 30	2s52	23s17	3s 5	2s50	1n 9	3n53	1n26	18n59	1n 8	9n37	0n51	16s29	1s14	14s20	0s46	16s16	0s 6	19n34	3s11	23n10	23n11	15s54	5n22	3n 5			

## ASTRODIENST EPHEMERIS for the year 2169

geocentric

OCTOBER 2169

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 40 24	8♌12'46	11♏12	11♌35	24♏48	9♏58	7♏31	18°R22	23°R39	15°R31	13♌30	21°R39	21♏56	0♏12	6°R22	S 1
M 2	0 44 21	9°11'40	23° 3	13°19	26° 2	10°34	7°43	18♏20	23♏37	15♏30	13°30	21♏32	21°53	0°19	6°Y19	M 2
T 3	0 48 17	10°10'36	4♏55	15° 2	27°17	11°10	7°55	18°18	23°36	15°29	13°30	21°22	21°50	0°26	6°16	T 3
W 4	0 52 14	11° 9'34	16°52	16°45	28°31	11°46	8° 7	18°16	23°35	15°29	13°30	21°10	21°47	0°32	6°14	W 4
T 5	0 56 10	12° 8'34	28°55	18°26	29°46	12°21	8°19	18°14	23°33	15°28	13°31	20°58	21°44	0°39	6°11	T 5
F 6	1 0 7	13° 7'36	11°Y 6	20° 7	1♌ 1	12°57	8°31	18°12	23°32	15°27	13°31	20°45	21°40	0°46	6° 8	F 6
S 7	1 4 3	14° 6'39	23°26	21°47	2°15	13°32	8°43	18°11	23°31	15°27	13°31	20°34	21°37	0°52	6° 6	S 7
S 8	1 8 0	15° 5'45	5♏56	23°26	3°30	14° 8	8°54	18° 9	23°29	15°26	13°31	20°24	21°34	0°59	6° 3	S 8
M 9	1 11 57	16° 4'53	18°35	25° 5	4°45	14°43	9° 6	18° 8	23°28	15°25	13°31	20°17	21°31	1° 6	6° 0	M 9
T 10	1 15 53	17° 4'03	1♏25	26°42	6° 0	15°18	9°18	18° 7	23°27	15°25	13°31	20°13	21°28	1°13	5°57	T 10
W11	1 19 50	18° 3'16	14°28	28°19	7°15	15°53	9°29	18° 6	23°26	15°24	13°31	20°D11	21°25	1°19	5°55	W11
T 12	1 23 46	19° 2'31	27°43	29°55	8°29	16°28	9°41	18° 4	23°25	15°24	13°32	20°12	21°21	1°26	5°52	T 12
F 13	1 27 43	20° 1'48	11♌30	1♏30	9°44	17° 3	9°52	18° 3	23°24	15°23	13°32	20°12	21°18	1°33	5°49	F 13
S 14	1 31 39	21° 1'07	25° 3	3° 4	10°59	17°38	10° 3	18° 3	23°23	15°23	13°R32	20°R12	21°15	1°39	5°47	S 14
S 15	1 35 36	22° 0'29	9♏ 9	4°38	12°14	18°12	10°15	18° 2	23°22	15°22	13°32	20°11	21°12	1°46	5°44	S 15
M16	1 39 32	22°59'53	23°32	6°11	13°29	18°47	10°26	18° 1	23°21	15°22	13°31	20° 8	21° 9	1°53	5°41	M16
T 17	1 43 29	23°59'19	8♏10	7°44	14°44	19°21	10°37	18° 1	23°20	15°22	13°31	20° 2	21° 5	2° 0	5°39	T 17
W18	1 47 26	24°58'48	22°56	9°15	15°59	19°56	10°48	18° 0	23°20	15°21	13°31	19°54	21° 2	2° 6	5°36	W18
T 19	1 51 22	25°58'19	7♌44	10°47	17°14	20°30	10°59	18° 0	23°19	15°21	13°31	19°46	20°59	2°13	5°34	T 19
F 20	1 55 19	26°57'51	22°25	12°17	18°29	21° 4	11°10	17°59	23°18	15°21	13°31	19°37	20°56	2°20	5°31	F 20
S 21	1 59 15	27°57'26	6♏52	13°47	19°44	21°38	11°21	17°59	23°18	15°21	13°31	19°30	20°53	2°26	5°29	S 21
S 22	2 3 12	28°57'03	20°58	15°16	20°59	22°12	11°32	17°D59	23°17	15°20	13°31	19°24	20°50	2°33	5°26	S 22
M23	2 7 8	29°56'42	4♏79	16°44	22°14	22°46	11°42	17°59	23°17	15°20	13°31	19°21	20°46	2°40	5°24	M23
T 24	2 11 5	0♏56'23	17°55	18°12	23°29	23°19	11°53	17°59	23°16	15°20	13°30	19°D20	20°43	2°47	5°21	T 24
W25	2 15 1	1°56'05	0♏47	19°39	24°45	23°53	12° 3	18° 0	23°16	15°20	13°30	19°20	20°40	2°53	5°19	W25
T 26	2 18 58	2°55'49	13°17	21° 5	26° 0	24°26	12°14	18° 0	23°15	15°20	13°30	19°22	20°37	3° 0	5°16	T 26
F 27	2 22 55	3°55'35	25°30	22°31	27°15	24°59	12°24	18° 0	23°15	15°D20	13°29	19°23	20°34	3° 7	5°14	F 27
S 28	2 26 51	4°55'23	7♏31	23°56	28°30	25°32	12°34	18° 1	23°15	15°20	13°29	19°R23	20°31	3°13	5°12	S 28
S 29	2 30 48	5°55'12	19°25	25°20	29°45	26° 5	12°44	18° 2	23°14	15°20	13°29	19°22	20°27	3°20	5°10	S 29
M30	2 34 44	6°55'03	1♏16	26°43	1♏ 0	26°38	12°54	18° 2	23°14	15°20	13°28	19°19	20°24	3°27	5° 7	M30
T 31	2 38 41	7♏54'55	13♏10	28♏ 5	2♏16	27♏11	13♏ 4	18♏ 3	23♏14	15♏20	13♏28	19♏14	20♏21	3♏34	5°Y 5	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	3s15	21s 5	3s50	3s37	1n 3	3n23	1n26	18n50	1n 8	9n32	0n51	16s30	1s14	14s21	0s46	16s16
M 2	3 38	18 0	4 26	4 23	0 57	2 54	1 27	18 41	1 9	9 28	0 51	16 30	1 14	14 21	0 46	16 16
T 3	4 2	14 11	4 49	5 8	0 51	2 25	1 27	18 32	1 10	9 23	0 52	16 31	1 14	14 21	0 46	16 17
W 4	4 25	9 48	5 1	5 54	0 44	1 55	1 27	18 23	1 11	9 19	0 52	16 31	1 14	14 22	0 45	16 17
T 5	4 48	5 0	4 59	6 38	0 38	1 26	1 28	18 14	1 12	9 15	0 52	16 32	1 14	14 22	0 45	16 17
F 6	5 11	0n 3	4 43	7 22	0 31	0 56	1 28	18 4	1 13	9 10	0 52	16 32	1 14	14 23	0 45	16 17
S 7	5 34	5 10	4 14	8 6	0 25	0 27	1 28	17 55	1 14	9 6	0 52	16 33	1 14	14 23	0 45	16 18
S 8	5 56	10 9	3 32	8 49	0 18	0s 3	1 28	17 46	1 14	9 2	0 52	16 33	1 14	14 23	0 45	16 18
M 9	6 19	14 47	2 40	9 31	0 11	0 33	1 28	17 36	1 15	8 58	0 52	16 33	1 14	14 24	0 45	16 18
T 10	6 42	18 49	1 38	10 13	0 4	1 2	1 27	17 27	1 16	8 53	0 53	16 34	1 14	14 24	0 45	16 18
W11	7 5	22 0	0 31	10 54	0s 3	1 32	1 27	17 17	1 17	8 49	0 53	16 34	1 14	14 25	0 45	16 18
T 12	7 27	24 4	0n40	11 35	0 10	2 2	1 27	17 7	1 18	8 45	0 53	16 34	1 14	14 25	0 45	16 18
F 13	7 49	24 46	1 50	12 15	0 17	2 32	1 27	16 58	1 19	8 41	0 53	16 35	1 14	14 25	0 45	16 19
S 14	8 12	23 58	2 55	12 54	0 24	3 1	1 26	16 48	1 20	8 37	0 53	16 35	1 14	14 25	0 45	16 19
S 15	8 34	21 40	3 51	13 32	0 31	3 31	1 26	16 38	1 20	8 33	0 53	16 35	1 14	14 26	0 45	16 19
M16	8 56	17 57	4 33	14 10	0 38	4 1	1 25	16 28	1 21	8 28	0 53	16 35	1 14	14 26	0 45	16 19
T 17	9 18	13 7	4 59	14 47	0 45	4 30	1 25	16 18	1 22	8 24	0 54	16 35	1 14	14 26	0 45	16 19
W18	9 40	7 28	5 5	15 23	0 51	5 0	1 24	16 8	1 23	8 20	0 54	16 36	1 14	14 26	0 45	16 19
T 19	10 1	1 23	4 51	15 58	0 58	5 29	1 23	15 58	1 24	8 16	0 54	16 36	1 14	14 27	0 45	16 19
F 20	10 23	4s44	4 17	16 32	1 5	5 58	1 22	15 48	1 25	8 12	0 54	16 36	1 14	14 27	0 45	16 19
S 21	10 44	10 31	3 28	17 6	1 52	6 27	1 21	15 38	1 26	8 8	0 54	16 36	1 14	14 27	0 45	16 19
S 22	11 5	15 37	2 27	17 39	1 18	6 56	1 21	15 28	1 27	8 4	0 54	16 36	1 14	14 27	0 45	16 20
M23	11 27	19 46	1 18	18 10	1 25	7 25	1 20	15 18	1 28	8 0	0 55	16 36	1 14	14 27	0 45	16 20
T 24	11 47	22 45	0 8	18 41	1 31	7 54	1 19	15 8	1 29	7 57	0 55	16 35	1 13	14 27	0 45	16 20
W25	12 8	24 26	1s 1	19 11	1 37	8 22	1 17	14 57	1 30	7 53	0 55	16 35	1 13	14 27	0 45	16 20
T 26	12 29	24 50	2 6	19 40	1 43	8 51	1 16	14 47	1 30	7 49	0 55	16 35	1 13	14 28	0 45	16 20
F 27	12 49	24 1	3 3	20 8	1 49	9 19	1 15	14 37	1 31	7 45	0 55	16 35	1 13	14 28	0 45	16 20
S 28	13 9	22 5	3 51	20 35	1 55	9 47	1 14	14 27	1 32	7 41	0 55	16 35	1 13	14 28	0 45	16 20
S 29	13 29	19 14	4 28	21 1	2 0	10 15	1 12	14 16	1 33	7 38	0 56	16 35	1 13	14 28	0 45	16 20
M30	13 49	15 35	4 54	21 26	2 6	10 42	1 11	14 6	1 34	7 34	0 56	16 34	1 13	14 28	0 45	16 20
T 31	14s 8	11s20	5s 8	21s50	2s11	11s 9	1n10	13n56	1n35	7n30	0n56	16s34	1s13	14s28	0s45	16s20

Julian Day Number = 2513544.5, Delta T = 136.26 sec

Ecliptic obliquity = 23°25'04, Nutation = - 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°06'44, Lahiri = 26°13'45

## ASTRODIENST EPHEMERIS for the year 2169

geocentric

NOVEMBER 2169

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 42 37	8♍54'49	25♋10	29♍26	3♍31	27♏44	13♐14	18♏4	23°R14	15♏20	13°R28	19°R 8	20♐18	3♋40	5°R 3	W 1
T 2	2 46 34	9°54'45	7°Y20	0♋47	4°46	28°16	13°24	18° 5	23°D14	15°20	13°D27	19°II 1	20°15	3°47	5°Y 1	T 2
F 3	2 50 30	10°54'43	19°40	2° 6	6° 1	28°48	13°34	18° 6	23°A14	15°21	13°27	18°54	20°11	3°54	4°59	F 3
S 4	2 54 27	11°54'42	2♌14	3°24	7°16	29°21	13°43	18° 8	23°14	15°21	13°26	18°47	20° 8	4° 0	4°56	S 4
S 5	2 58 24	12°54'43	15° 0	4°41	8°32	29°53	13°53	18° 9	23°14	15°21	13°26	18°42	20° 5	4° 7	4°54	S 5
M 6	3 2 20	13°54'46	28° 0	5°56	9°47	0♐24	14° 2	18°10	23°15	15°22	13°25	18°38	20° 2	4°14	4°52	M 6
T 7	3 6 17	14°54'52	11♐12	7°10	11° 2	0°56	14°11	18°12	23°15	15°22	13°25	18°36	19°59	4°21	4°50	T 7
W 8	3 10 13	15°54'59	24°36	8°22	12°17	1°28	14°20	18°14	23°15	15°22	13°24	18°D36	19°56	4°27	4°49	W 8
T 9	3 14 10	16°55'08	8♌11	9°32	13°33	1°59	14°29	18°15	23°15	15°23	13°24	18°37	19°52	4°34	4°47	T 9
F 10	3 18 6	17°55'19	21°56	10°40	14°48	2°31	14°38	18°17	23°16	15°23	13°23	18°39	19°49	4°41	4°45	F 10
S 11	3 22 3	18°55'32	5♏51	11°45	16° 3	3° 2	14°47	18°19	23°16	15°24	13°22	18°40	19°46	4°47	4°43	S 11
S 12	3 25 59	19°55'47	19°55	12°48	17°19	3°33	14°55	18°21	23°17	15°24	13°22	18°R41	19°43	4°54	4°41	S 12
M13	3 29 56	20°56'04	4♐ 7	13°48	18°34	4° 3	15° 4	18°23	23°17	15°25	13°21	18°40	19°40	5° 1	4°40	M13
T 14	3 33 53	21°56'23	18°25	14°44	19°49	4°34	15°12	18°26	23°18	15°25	13°20	18°38	19°37	5° 8	4°38	T 14
W15	3 37 49	22°56'44	2♌45	15°37	21° 5	5° 5	15°21	18°28	23°18	15°26	13°20	18°35	19°33	5°14	4°36	W15
T 16	3 41 46	23°57'07	17° 5	16°25	22°20	5°35	15°29	18°30	23°19	15°27	13°19	18°32	19°30	5°21	4°35	T 16
F 17	3 45 42	24°57'32	1♍18	17° 8	23°35	6° 5	15°37	18°33	23°20	15°27	13°18	18°28	19°27	5°28	4°33	F 17
S 18	3 49 39	25°57'59	15°20	17°46	24°51	6°35	15°45	18°36	23°21	15°28	13°17	18°25	19°24	5°34	4°32	S 18
S 19	3 53 35	26°58'27	29° 7	18°18	26° 6	7° 5	15°52	18°38	23°21	15°29	13°17	18°23	19°21	5°41	4°30	S 19
M20	3 57 32	27°58'57	12♋36	18°43	27°22	7°34	16° 0	18°41	23°22	15°30	13°16	18°D22	19°17	5°48	4°29	M20
T 21	4 1 28	28°59'28	25°44	19° 1	28°37	8° 4	16° 8	18°44	23°23	15°30	13°15	18°22	19°14	5°55	4°28	T 21
W22	4 5 25	0♋ 0'01	8♌33	19°10	29°52	8°33	16°15	18°47	23°24	15°31	13°14	18°23	19°11	6° 1	4°26	W22
T 23	4 9 22	1° 0'35	21° 4	19°R10	1♋ 8	9° 2	16°22	18°50	23°25	15°32	13°13	18°24	19° 8	6° 8	4°25	T 23
F 24	4 13 18	2° 1'11	3♌18	19° 0	2°23	9°30	16°29	18°54	23°26	15°33	13°12	18°26	19° 5	6°15	4°24	F 24
S 25	4 17 15	3° 1'47	15°21	18°41	3°39	9°59	16°36	18°57	23°28	15°34	13°12	18°27	19° 2	6°22	4°23	S 25
S 26	4 21 11	4° 2'25	27°16	18°10	4°54	10°27	16°43	19° 0	23°29	15°35	13°11	18°28	18°58	6°28	4°22	S 26
M27	4 25 8	5° 3'04	9♋ 9	17°29	6° 9	10°56	16°50	19° 4	23°30	15°36	13°10	18°R28	18°55	6°35	4°21	M27
T 28	4 29 4	6° 3'44	21° 3	16°37	7°25	11°23	16°56	19° 7	23°31	15°37	13° 9	18°27	18°52	6°42	4°20	T 28
W29	4 33 1	7° 4'25	3°Y 4	15°36	8°40	11°51	17° 2	19°11	23°33	15°38	13° 8	18°26	18°49	6°48	4°19	W29
T 30	4 36 57	8♋ 5'07	15°Y15	14♋26	9♋56	12♐19	17♐ 9	19°A15	23°A34	15°A39	13°D 7	18°II25	18°II46	6°A55	4°Y18	T 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
W 1	14s27	6s37	5s 8	22s13	2s15	11s36	1n 8	13n45	1n36	7n27	0n56	16s34	1s13	14s28	0s45	16s20	0s 7
T 2	14 46	1 36	4 54	22 35	2 20	12 3	1 7	13 35	1 37	7 23	0 56	16 33	1 13	14 28	0 45	16 20	0 7
F 3	15 5	3n35	4 26	22 55	2 24	12 30	1 5	13 25	1 38	7 20	0 57	16 33	1 13	14 28	0 45	16 20	0 7
S 4	15 24	8 42	3 45	23 14	2 28	12 56	1 3	13 14	1 39	7 16	0 57	16 32	1 13	14 28	0 44	16 19	0 7
S 5	15 42	13 34	2 53	23 32	2 32	13 22	1 2	13 4	1 40	7 13	0 57	16 32	1 13	14 28	0 44	16 19	0 7
M 6	16 0	17 55	1 50	23 49	2 35	13 47	1 0	12 54	1 41	7 9	0 57	16 31	1 13	14 27	0 44	16 19	0 7
T 7	16 18	21 26	0 40	24 5	2 38	14 12	0 58	12 43	1 42	7 6	0 57	16 31	1 13	14 27	0 44	16 19	0 7
W 8	16 35	23 51	0n33	24 19	2 40	14 37	0 56	12 33	1 43	7 3	0 58	16 30	1 13	14 27	0 44	16 19	0 7
T 9	16 52	24 55	1 45	24 32	2 42	15 1	0 55	12 23	1 44	6 59	0 58	16 30	1 13	14 27	0 44	16 19	0 7
F 10	17 9	24 28	2 52	24 43	2 43	15 25	0 53	12 12	1 45	6 56	0 58	16 29	1 13	14 27	0 44	16 19	0 7
S 11	17 26	22 31	3 50	24 53	2 44	15 49	0 51	12 2	1 46	6 53	0 58	16 28	1 13	14 27	0 44	16 19	0 7
S 12	17 42	19 10	4 35	25 2	2 44	16 12	0 49	11 52	1 47	6 50	0 58	16 28	1 12	14 27	0 44	16 19	0 7
M13	17 58	14 42	5 3	25 9	2 44	16 35	0 47	11 41	1 48	6 47	0 59	16 27	1 12	14 26	0 44	16 18	0 7
T 14	18 14	9 23	5 13	25 14	2 43	16 58	0 45	11 31	1 49	6 44	0 59	16 26	1 12	14 26	0 44	16 18	0 7
W15	18 30	3 33	5 4	25 18	2 41	17 19	0 43	11 21	1 50	6 41	0 59	16 26	1 12	14 26	0 44	16 18	0 7
T 16	18 45	2s27	4 36	25 20	2 38	17 41	0 41	11 11	1 51	6 38	0 59	16 25	1 12	14 26	0 44	16 18	0 7
F 17	18 59	8 19	3 50	25 21	2 34	18 2	0 38	11 1	1 52	6 35	0 59	16 24	1 12	14 25	0 44	16 18	0 7
S 18	19 14	13 41	2 52	25 20	2 29	18 23	0 36	10 51	1 53	6 32	1 0	16 23	1 12	14 25	0 44	16 17	0 7
S 19	19 28	18 15	1 44	25 17	2 23	18 43	0 34	10 40	1 54	6 29	1 0	16 22	1 12	14 25	0 44	16 17	0 7
M20	19 42	21 46	0 32	25 12	2 16	19 2	0 32	10 30	1 55	6 26	1 0	16 21	1 12	14 24	0 44	16 17	0 7
T 21	19 55	24 2	0s41	25 5	2 7	19 21	0 30	10 20	1 57	6 24	1 0	16 20	1 12	14 24	0 44	16 17	0 7
W22	20 8	24 57	1 49	24 56	1 57	19 40	0 27	10 11	1 58	6 21	1 1	16 19	1 12	14 24	0 44	16 17	0 7
T 23	20 21	24 35	2 51	24 44	1 46	19 57	0 25	10 1	1 59	6 18	1 1	16 18	1 12	14 23	0 44	16 16	0 7
F 24	20 33	23 1	3 43	24 31	1 33	20 15	0 23	9 51	2 0	6 16	1 1	16 17	1 12	14 23	0 44	16 16	0 7
S 25	20 45	20 26	4 25	24 15	1 19	20 32	0 20	9 41	2 1	6 13	1 1	16 16	1 12	14 23	0 44	16 16	0 7
S 26	20 56	17 1	4 55	23 56	1 3	20 48	0 18	9 31	2 2	6 11	1 1	16 15	1 12	14 22	0 44	16 15	0 7
M27	21 7	12 57	5 12	23 35	0 46	21 3	0 16	9 22	2 3	6 9	1 2	16 14	1 12	14 22	0 44	16 15	0 7
T 28	21 18	8 23	5 16	23 12	0 27	21 18	0 13	9 12	2 4	6 6	1 2	16 13	1 12	14 21	0 44	16 15	0 7
W29	21 28	3 28	5 6	22 46	0 8	21 33	0 11	9 3	2 6	6 4	1 2	16 12	1 12	14 21	0 44	16 15	0 7
T 30	21s38	1n39	4s42	22s18	0n12	21s47	0n 9	8n53	2n 7	6n 2	1n 2	16s10	1s12	14s20	0s44	16s14	0s 7

Julian Day Number = 2513575.5, Delta T = 136.33 sec

Ecliptic obliquity = 23°25'04, Nutation = - 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°06'49, Lahiri = 26°13'49

ASTRODIENST EPHEMERIS for the year 2169  
geocentric

DECEMBER 2169

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	4 40 54	9♈ 5'50	27♏41	13°R 9	11♌11	12♍46	17♎15	19♏18	23♐35	15♑40	13°R 6	18°R23	18♒42	7♈ 2	4°R17	F 1
S 2	4 44 51	10° 6'34	10♏23	11♌49	12°26	13°13	17°20	19°22	23°37	15°41	13° 5	18♒22	18°39	7° 9	4°Y16	S 2
S 3	4 48 47	11° 7'20	23°24	10°26	13°42	13°40	17°26	19°26	23°38	15°43	13° 4	18°21	18°36	7°15	4°16	S 3
M 4	4 52 44	12° 8'06	6♐43	9° 4	14°57	14° 6	17°32	19°30	23°40	15°44	13° 3	18°21	18°33	7°22	4°15	M 4
T 5	4 56 40	13° 8'54	20°19	7°47	16°13	14°32	17°37	19°35	23°42	15°45	13° 2	18°D21	18°30	7°29	4°14	T 5
W 6	5 0 37	14° 9'43	4♑10	6°35	17°28	14°58	17°42	19°39	23°43	15°46	13° 1	18°21	18°27	7°35	4°14	W 6
T 7	5 4 33	15°10'33	18°13	5°32	18°43	15°24	17°48	19°43	23°45	15°48	13° 0	18°21	18°23	7°42	4°13	T 7
F 8	5 8 30	16°11'25	2♒25	4°38	19°59	15°50	17°52	19°48	23°47	15°49	12°59	18°21	18°20	7°49	4°13	F 8
S 9	5 12 27	17°12'17	16°40	3°56	21°14	16°15	17°57	19°52	23°49	15°50	12°58	18°22	18°17	7°56	4°13	S 9
S 10	5 16 23	18°13'11	0♎56	3°25	22°30	16°40	18° 2	19°57	23°50	15°52	12°56	18°R22	18°14	8° 2	4°12	S 10
M 11	5 20 20	19°14'07	15°10	3° 5	23°45	17° 5	18° 6	20° 1	23°52	15°53	12°55	18°D22	18°11	8° 9	4°12	M 11
T 12	5 24 16	20°15'03	29°20	2°D57	25° 1	17°29	18°10	20° 6	23°54	15°55	12°54	18°22	18° 8	8°16	4°12	T 12
W 13	5 28 13	21°16'00	13♑22	2°59	26°16	17°53	18°15	20°11	23°56	15°56	12°53	18°22	18° 4	8°23	4°12	W 13
T 14	5 32 9	22°16'59	27°16	3°10	27°31	18°17	18°18	20°15	23°58	15°58	12°52	18°22	18° 1	8°29	4°11	T 14
F 15	5 36 6	23°17'59	11♒1	3°31	28°47	18°40	18°22	20°20	24° 0	15°59	12°51	18°23	17°58	8°36	4°D11	F 15
S 16	5 40 2	24°19'00	24°34	4° 0	0♌2	19° 4	18°26	20°25	24° 2	16° 1	12°50	18°23	17°55	8°43	4°11	S 16
S 17	5 43 59	25°20'02	7♌54	4°36	1°18	19°26	18°29	20°30	24° 5	16° 2	12°48	18°24	17°52	8°49	4°12	S 17
M 18	5 47 56	26°21'05	21° 1	5°18	2°33	19°49	18°32	20°36	24° 7	16° 4	12°47	18°R24	17°48	8°56	4°12	M 18
T 19	5 51 52	27°22'09	3♌54	6° 7	3°49	20°11	18°35	20°41	24° 9	16° 6	12°46	18°23	17°45	9° 3	4°12	T 19
W 20	5 55 49	28°23'13	16°32	7° 0	5° 4	20°33	18°38	20°46	24°11	16° 7	12°45	18°22	17°42	9°10	4°12	W 20
T 21	5 59 45	29°24'18	28°57	7°58	6°20	20°54	18°41	20°51	24°14	16° 9	12°44	18°21	17°39	9°16	4°12	T 21
F 22	6 3 42	0♌25'23	11♒9	9° 0	7°35	21°16	18°43	20°57	24°16	16°11	12°43	18°19	17°36	9°23	4°13	F 22
S 23	6 7 38	1°26'28	23°11	10° 5	8°50	21°36	18°45	21° 2	24°18	16°12	12°41	18°17	17°33	9°30	4°13	S 23
S 24	6 11 35	2°27'34	5♈6	11°13	10° 6	21°57	18°48	21° 8	24°21	16°14	12°40	18°15	17°29	9°36	4°14	S 24
M 25	6 15 31	3°28'40	16°58	12°24	11°21	22°17	18°49	21°13	24°23	16°16	12°39	18°14	17°26	9°43	4°14	M 25
T 26	6 19 28	4°29'47	28°51	13°37	12°37	22°36	18°51	21°19	24°26	16°18	12°38	18°13	17°23	9°50	4°15	T 26
W 27	6 23 25	5°30'53	10♏50	14°52	13°52	22°56	18°53	21°25	24°28	16°20	12°36	18°D13	17°20	9°57	4°15	W 27
T 28	6 27 21	6°32'00	22°59	16° 9	15° 8	23°14	18°54	21°31	24°31	16°21	12°35	18°14	17°17	10° 3	4°16	T 28
F 29	6 31 18	7°33'06	5♌23	17°28	16°23	23°33	18°55	21°36	24°33	16°23	12°34	18°15	17°14	10°10	4°17	F 29
S 30	6 35 14	8°34'13	18° 6	18°48	17°38	23°51	18°56	21°42	24°36	16°25	12°33	18°17	17°10	10°17	4°18	S 30
S 31	6 39 11	9♌35'20	1♐11	20♌9	18♌54	24♎8	18♎57	21♏48	24♐39	16♑27	12♑32	18♒18	17♒7	10♈24	4♏19	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	21s48	6n49	4s 5	21s49	0n33	22s 0	0n 6	8n44	2n 8	6n 0	1n 3	16s 9	1s12	14s20
S 2	21 57	11 50	3 15	21 18	0 53	22 12	0 4	8 35	2 9	5 58	1 3	16 8	1 12	14 19
S 3	22 5	16 27	2 14	20 48	1 13	22 24	0 2	8 25	2 10	5 56	1 3	16 7	1 11	14 19
M 4	22 14	20 22	1 4	20 17	1 31	22 35	0s 1	8 16	2 11	5 54	1 3	16 5	1 11	14 18
T 5	22 21	23 15	0n11	19 49	1 48	22 46	0 3	8 7	2 13	5 52	1 4	16 4	1 11	14 18
W 6	22 29	24 48	1 27	19 22	2 3	22 55	0 6	7 58	2 14	5 50	1 4	16 2	1 11	14 17
T 7	22 36	24 47	2 38	18 59	2 15	23 4	0 8	7 49	2 15	5 48	1 4	16 1	1 11	14 16
F 8	22 42	23 11	3 41	18 39	2 26	23 13	0 10	7 41	2 16	5 47	1 4	16 0	1 11	14 16
S 9	22 48	20 7	4 30	18 24	2 34	23 21	0 13	7 32	2 18	5 45	1 5	15 58	1 11	14 15
S 10	22 54	15 51	5 3	18 12	2 40	23 28	0 15	7 23	2 19	5 43	1 5	15 57	1 11	14 15
M 11	22 59	10 42	5 17	18 4	2 44	23 34	0 18	7 15	2 20	5 42	1 5	15 55	1 11	14 14
T 12	23 4	5 2	5 11	18 1	2 46	23 39	0 20	7 7	2 21	5 41	1 5	15 54	1 11	14 13
W 13	23 8	0s51	4 48	18 1	2 46	23 44	0 22	6 58	2 23	5 39	1 6	15 52	1 11	14 13
T 14	23 12	6 39	4 7	18 4	2 45	23 48	0 25	6 50	2 24	5 38	1 6	15 51	1 11	14 12
F 15	23 15	12 4	3 13	18 10	2 43	23 52	0 27	6 42	2 25	5 37	1 6	15 49	1 11	14 11
S 16	23 18	16 49	2 8	18 19	2 40	23 54	0 29	6 34	2 27	5 36	1 7	15 47	1 11	14 10
S 17	23 20	20 39	0 58	18 30	2 35	23 56	0 32	6 27	2 28	5 34	1 7	15 46	1 11	14 10
M 18	23 22	23 21	0s15	18 42	2 30	23 57	0 34	6 19	2 29	5 33	1 7	15 44	1 11	14 9
T 19	23 23	24 46	1 25	18 56	2 24	23 58	0 36	6 11	2 31	5 33	1 7	15 42	1 11	14 8
W 20	23 24	24 52	2 30	19 11	2 18	23 57	0 38	6 4	2 32	5 32	1 8	15 41	1 11	14 7
T 21	23 25	23 43	3 26	19 28	2 11	23 56	0 40	5 57	2 33	5 31	1 8	15 39	1 11	14 7
F 22	23 25	21 27	4 12	19 44	2 4	23 55	0 43	5 50	2 35	5 30	1 8	15 37	1 11	14 6
S 23	23 25	18 17	4 46	20 1	1 57	23 52	0 45	5 43	2 36	5 30	1 8	15 35	1 11	14 5
S 24	23 24	14 24	5 8	20 18	1 49	23 49	0 47	5 36	2 37	5 29	1 9	15 34	1 11	14 4
M 25	23 22	9 59	5 16	20 36	1 41	23 45	0 49	5 30	2 39	5 29	1 9	15 32	1 11	14 3
T 26	23 20	5 12	5 10	20 53	1 33	23 40	0 51	5 23	2 40	5 28	1 9	15 30	1 11	14 2
W 27	23 18	0 12	4 52	21 9	1 25	23 34	0 53	5 17	2 42	5 28	1 9	15 28	1 11	14 2
T 28	23 15	4n54	4 20	21 26	1 17	23 28	0 55	5 11	2 43	5 28	1 10	15 26	1 11	14 1
F 29	23 12	9 55	3 35	21 42	1 8	23 21	0 57	5 5	2 45	5 27	1 10	15 24	1 11	14 0
S 30	23 8	14 40	2 39	21 57	1 0	23 14	0 59	4 59	2 46	5 27	1 10	15 22	1 11	13 59
S 31	23s 4	18n52	1s33	22s11	0n52	23s 5	1s 1	4n53	2n48	5n27	1n11	15s20	1s11	13s58

Julian Day Number = 2513605.5, Delta T = 136.39 sec  
Ecliptic obliquity = 23°25'03, Nutation = - 0°00'18, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°06'53, Lahiri = 26°13'53