



# Astrodienst Ephemeris Tables for the year 2181

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 2181  
geocentric

JANUARY 2181

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 44 29	10°35'12	10°26	21°R35	2°33	16°R47	21°R38	17°R22	7°V 4	10°H15	26°R 9	15°R55	14°M18	8°II 4	17°R 6	M 1
T 2	6 48 25	11°58'19	22°37	20°339	3°49	16°II33	21°R33	17°R17	7° 5	10°17	26°R 7	15°M44	14°15	8°11	17°R 4	T 2
W 3	6 52 22	12°59'26	4°27	19°34	5° 4	16°20	21°28	17°12	7° 6	10°18	26° 6	15°33	14°12	8°17	17° 3	W 3
T 4	6 56 18	14° 0'34	17°27	18°21	6°20	16° 7	21°23	17° 7	7° 7	10°19	26° 5	15°22	14° 9	8°24	17° 2	T 4
F 5	7 0 15	15° 1'41	0°18	17° 3	7°35	15°56	21°18	17° 2	7° 8	10°21	26° 4	15°12	14° 6	8°31	17° 0	F 5
S 6	7 4 11	16° 2'49	13° 1	15°42	8°51	15°45	21°13	16°57	7° 9	10°22	26° 2	15° 5	14° 3	8°37	16°59	S 6
S 7	7 8 8	17° 3'57	26° 8	14°21	10° 6	15°34	21° 7	16°52	7°10	10°24	26° 1	15° 0	13°59	8°44	16°58	S 7
M 8	7 12 5	18° 5'05	9°29	13° 3	11°22	15°25	21° 2	16°47	7°11	10°25	26° 0	14°58	13°56	8°51	16°57	M 8
T 9	7 16 1	19° 6'14	23° 7	11°49	12°37	15°17	20°56	16°42	7°12	10°27	25°58	14°D58	13°53	8°57	16°56	T 9
W10	7 19 58	20° 7'22	7°14	10°42	13°53	15° 9	20°50	16°38	7°14	10°29	25°57	14°59	13°50	9° 4	16°55	W10
T 11	7 23 54	21° 8'31	21°19	9°43	15° 8	15° 2	20°44	16°33	7°15	10°30	25°56	14°R59	13°47	9°11	16°54	T 11
F 12	7 27 51	22° 9'40	5°27	8°53	16°24	14°56	20°38	16°28	7°16	10°32	25°55	14°57	13°44	9°17	16°53	F 12
S 13	7 31 47	23°10'50	20°39	8°13	17°39	14°51	20°32	16°23	7°18	10°34	25°53	14°53	13°40	9°24	16°52	S 13
S 14	7 35 44	24°11'59	5°33	7°43	18°54	14°46	20°25	16°18	7°19	10°35	25°52	14°46	13°37	9°31	16°51	S 14
M15	7 39 40	25°13'08	20°27	7°22	20°10	14°43	20°19	16°13	7°21	10°37	25°51	14°36	13°34	9°37	16°51	M15
T 16	7 43 37	26°14'16	5°22	7°12	21°25	14°40	20°12	16° 8	7°22	10°39	25°49	14°25	13°31	9°44	16°50	T 16
W17	7 47 34	27°15'24	19°38	7°D10	22°41	14°38	20° 5	16° 3	7°24	10°40	25°48	14°13	13°28	9°51	16°50	W17
T 18	7 51 30	28°16'31	3°14	7°16	23°56	14°37	19°58	15°59	7°26	10°42	25°47	14° 2	13°24	9°57	16°49	T 18
F 19	7 55 27	29°17'38	17°17	7°30	25°12	14°D36	19°51	15°54	7°27	10°44	25°46	13°54	13°21	10° 4	16°49	F 19
S 20	7 59 23	0°18'44	0°V24	7°52	26°27	14°37	19°44	15°49	7°29	10°46	25°44	13°47	13°18	10°11	16°48	S 20
S 21	8 3 20	1°19'49	13° 6	8°19	27°43	14°38	19°37	15°44	7°31	10°48	25°43	13°44	13°15	10°17	16°48	S 21
M22	8 7 16	2°20'54	25°27	8°53	28°58	14°40	19°30	15°40	7°33	10°50	25°42	13°43	13°12	10°24	16°48	M22
T 23	8 11 13	3°21'58	7°31	9°32	0°14	14°42	19°22	15°35	7°34	10°51	25°40	13°43	13° 9	10°31	16°48	T 23
W24	8 15 9	4°23'00	19°24	10°15	1°29	14°46	19°15	15°31	7°36	10°53	25°39	13°42	13° 5	10°37	16°47	W24
T 25	8 19 6	5°24'02	1°11	11° 3	2°44	14°50	19° 7	15°26	7°38	10°55	25°38	13°41	13° 2	10°44	16°D47	T 25
F 26	8 23 3	6°25'03	12°59	11°55	4° 0	14°55	19° 0	15°22	7°40	10°57	25°36	13°38	12°59	10°51	16°47	F 26
S 27	8 26 59	7°26'03	24°51	12°51	5°15	15° 0	18°52	15°17	7°42	10°59	25°35	13°32	12°56	10°57	16°47	S 27
S 28	8 30 56	8°27'02	6°51	13°49	6°31	15° 6	18°44	15°13	7°44	11° 1	25°34	13°23	12°53	11° 4	16°48	S 28
M29	8 34 52	9°28'00	19° 2	14°51	7°46	15°13	18°37	15° 9	7°47	11° 3	25°33	13°12	12°50	11°11	16°48	M29
T 30	8 38 49	10°28'57	1°25	15°55	9° 1	15°21	18°29	15° 4	7°49	11° 5	25°31	12°58	12°46	11°17	16°48	T 30
W31	8 42 45	11°29'53	14°2	17°3	10°17	15°II29	18°21	15°5	7°V51	11°H 7	25°30	12°M44	12°M43	11°II24	16°R48	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	22s58	18n52	4s 9	20s26	1n16	23s28	0s 4	25n48	3n 4	15n 3	0n49	21n53	0s25	2n10	0s42	8s28
T 2	22 53	16 54	4 40	20 15	1 36	23 28	0 7	25 48	3 4	15 5	0 49	21 53	0 25	2 10	0 42	8 28
W 3	22 47	14 10	4 59	20 6	1 54	23 28	0 9	25 47	3 5	15 6	0 49	21 54	0 25	2 10	0 42	8 27
T 4	22 41	10 45	5 4	19 58	2 12	23 27	0 12	25 46	3 5	15 8	0 49	21 55	0 24	2 11	0 42	8 26
F 5	22 34	6 49	4 54	19 52	2 29	23 26	0 14	25 45	3 5	15 10	0 50	21 56	0 24	2 11	0 42	8 25
S 6	22 27	2 31	4 29	19 48	2 43	23 23	0 16	25 44	3 6	15 12	0 50	21 56	0 24	2 12	0 42	8 25
S 7	22 20	1s59	3 50	19 44	2 55	23 20	0 19	25 43	3 6	15 14	0 50	21 57	0 24	2 12	0 42	8 25
M 8	22 12	6 29	2 58	19 43	3 5	23 17	0 21	25 42	3 6	15 16	0 50	21 58	0 24	2 13	0 42	8 24
T 9	22 3	10 44	1 54	19 42	3 12	23 12	0 23	25 41	3 6	15 18	0 50	21 59	0 24	2 13	0 42	8 23
W10	21 54	14 31	0 42	19 43	3 17	23 7	0 26	25 40	3 6	15 20	0 51	21 59	0 24	2 14	0 42	8 23
T 11	21 45	17 32	0n34	19 45	3 19	23 1	0 28	25 39	3 6	15 22	0 51	22 0	0 24	2 14	0 42	8 22
F 12	21 36	19 29	1 49	19 49	3 19	22 55	0 30	25 38	3 6	15 24	0 51	22 1	0 24	2 15	0 42	8 22
S 13	21 26	20 8	2 58	19 53	3 17	22 47	0 32	25 38	3 6	15 26	0 51	22 1	0 23	2 15	0 42	8 21
S 14	21 15	19 23	3 55	19 58	3 13	22 39	0 35	25 37	3 5	15 29	0 51	22 2	0 23	2 16	0 42	8 20
M15	21 4	17 19	4 36	20 5	3 8	22 31	0 37	25 36	3 5	15 31	0 52	22 3	0 23	2 17	0 41	8 20
T 16	20 53	14 8	4 58	20 12	3 2	22 21	0 39	25 36	3 5	15 33	0 52	22 3	0 23	2 17	0 41	8 19
W17	20 41	10 9	5 1	20 19	2 54	22 11	0 41	25 35	3 4	15 36	0 52	22 4	0 23	2 18	0 41	8 18
T 18	20 29	5 43	4 45	20 27	2 46	22 0	0 43	25 34	3 4	15 38	0 52	22 5	0 23	2 19	0 41	8 18
F 19	20 17	1 8	4 13	20 35	2 37	21 49	0 45	25 34	3 4	15 40	0 52	22 5	0 23	2 19	0 41	8 17
S 20	20 4	3n21	3 28	20 43	2 28	21 37	0 47	25 34	3 3	15 43	0 52	22 6	0 23	2 20	0 41	8 16
S 21	19 51	7 33	2 35	20 51	2 18	21 24	0 49	25 33	3 3	15 45	0 53	22 7	0 23	2 21	0 41	8 16
M22	19 37	11 19	1 35	20 59	2 9	21 11	0 51	25 33	3 2	15 48	0 53	22 7	0 22	2 22	0 41	8 15
T 23	19 23	14 31	0 33	21 6	1 58	20 57	0 53	25 33	3 2	15 50	0 53	22 8	0 22	2 22	0 41	8 14
W24	19 9	17 5	0s30	21 13	1 48	20 42	0 55	25 33	3 1	15 53	0 53	22 9	0 22	2 23	0 41	8 13
T 25	18 54	18 53	1 31	21 20	1 38	20 27	0 57	25 32	3 0	15 55	0 53	22 9	0 22	2 24	0 41	8 13
F 26	18 39	19 53	2 28	21 25	1 28	20 11	0 59	25 32	3 0	15 58	0 53	22 10	0 22	2 25	0 41	8 12
S 27	18 24	20 0	3 19	21 30	1 18	19 55	1 0	25 32	2 59	16 0	0 54	22 11	0 22	2 26	0 41	8 11
S 28	18 8	19 13	4 2	21 35	1 7	19 38	1 2	25 32	2 59	16 3	0 54	22 11	0 22	2 26	0 41	8 10
M29	17 52	17 32	4 34	21 38	0 58	19 20	1 4	25 33	2 58	16 5	0 54	22 12	0 22	2 27	0 41	8 10
T 30	17 36	15 2	4 54	21 41	0 48	19 2	1 5	25 33	2 57	16 8	0 54	22 12	0 21	2 28	0 41	8 9
W31	17s19	11n49	5s 0	21s42	0n38	18s43	1s 7	25n33	2n57	16n10	0n54	22n13	0s21	2n29	0s41	8s 8

Julian Day Number = 2517654.5, Delta T = 145.56 sec  
Ecliptic obliquity = 23°24'49, Nutation = 0°00'13, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°16'11, Lahiri = 26°23'11

# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

FEBRUARY 2181

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 46 42	12 <sup>30</sup> 48	26 <sup>02</sup> 51	18 <sup>30</sup> 10	11 <sup>38</sup> 32	15 <sup>11</sup> 38	18 <sup>01</sup> 13	14 <sup>05</sup> 56	7 <sup>05</sup> 53	11 <sup>11</sup> 9	25 <sup>02</sup> 29	12 <sup>02</sup> 30	12 <sup>02</sup> 40	11 <sup>11</sup> 31	16 <sup>08</sup> 49	T 1
F 2	8 50 38	13 <sup>31</sup> 43	9 <sup>09</sup> 53	19 <sup>02</sup> 21	12 <sup>47</sup>	15 <sup>47</sup>	18 <sup>02</sup> 5	14 <sup>05</sup> 52	7 <sup>05</sup> 55	11 <sup>11</sup>	25 <sup>02</sup> 28	12 <sup>02</sup> 18	12 <sup>02</sup> 37	11 <sup>13</sup> 37	16 <sup>09</sup> 49	F 2
S 3	8 54 35	14 <sup>32</sup> 36	23 <sup>0</sup> 5	20 <sup>33</sup>	14 <sup>3</sup>	15 <sup>57</sup>	17 <sup>57</sup>	14 <sup>04</sup> 48	7 <sup>05</sup> 58	11 <sup>13</sup>	25 <sup>02</sup> 27	12 <sup>0</sup> 8	12 <sup>02</sup> 34	11 <sup>14</sup> 44	16 <sup>10</sup> 50	S 3
S 4	8 58 32	15 <sup>33</sup> 29	6 <sup>02</sup> 28	21 <sup>47</sup>	15 <sup>18</sup>	16 <sup>8</sup>	17 <sup>49</sup>	14 <sup>04</sup> 44	8 <sup>0</sup> 0	11 <sup>16</sup>	25 <sup>02</sup> 25	12 <sup>0</sup> 2	12 <sup>02</sup> 30	11 <sup>15</sup> 51	16 <sup>11</sup> 50	S 4
M 5	9 2 28	16 <sup>34</sup> 20	20 <sup>1</sup> 4	23 <sup>3</sup>	16 <sup>33</sup>	16 <sup>19</sup>	17 <sup>41</sup>	14 <sup>04</sup> 40	8 <sup>0</sup> 3	11 <sup>18</sup>	25 <sup>02</sup> 24	11 <sup>15</sup> 58	12 <sup>02</sup> 27	11 <sup>15</sup> 57	16 <sup>12</sup> 51	M 5
T 6	9 6 25	17 <sup>35</sup> 11	3 <sup>03</sup> 43	24 <sup>21</sup>	17 <sup>49</sup>	16 <sup>30</sup>	17 <sup>33</sup>	14 <sup>03</sup> 37	8 <sup>0</sup> 5	11 <sup>20</sup>	25 <sup>02</sup> 23	11 <sup>15</sup> 57	12 <sup>02</sup> 24	12 <sup>0</sup> 4	16 <sup>13</sup> 52	T 6
W 7	9 10 21	18 <sup>36</sup> 02	17 <sup>36</sup>	25 <sup>39</sup>	19 <sup>4</sup>	16 <sup>43</sup>	17 <sup>25</sup>	14 <sup>03</sup> 33	8 <sup>0</sup> 7	11 <sup>22</sup>	25 <sup>02</sup> 22	11 <sup>15</sup> 57	12 <sup>02</sup> 21	12 <sup>11</sup>	16 <sup>14</sup> 53	W 7
T 8	9 14 18	19 <sup>36</sup> 51	1 <sup>04</sup> 40	26 <sup>59</sup>	20 <sup>19</sup>	16 <sup>55</sup>	17 <sup>17</sup>	14 <sup>02</sup> 29	8 <sup>10</sup>	11 <sup>24</sup>	25 <sup>02</sup> 21	11 <sup>15</sup> 57	12 <sup>02</sup> 18	12 <sup>17</sup>	16 <sup>15</sup> 53	T 8
F 9	9 18 14	20 <sup>37</sup> 40	15 <sup>54</sup>	28 <sup>21</sup>	21 <sup>35</sup>	17 <sup>9</sup>	17 <sup>9</sup>	14 <sup>02</sup> 26	8 <sup>12</sup>	11 <sup>26</sup>	25 <sup>02</sup> 19	11 <sup>15</sup> 55	12 <sup>02</sup> 15	12 <sup>24</sup>	16 <sup>16</sup> 54	F 9
S 10	9 22 11	21 <sup>38</sup> 28	0 <sup>03</sup> 17	29 <sup>43</sup>	22 <sup>50</sup>	17 <sup>23</sup>	17 <sup>1</sup>	14 <sup>02</sup> 22	8 <sup>15</sup>	11 <sup>28</sup>	25 <sup>02</sup> 18	11 <sup>15</sup> 50	12 <sup>02</sup> 11	12 <sup>31</sup>	16 <sup>17</sup> 55	S 10
S 11	9 26 7	22 <sup>39</sup> 14	14 <sup>45</sup>	1 <sup>08</sup> 7	24 <sup>5</sup>	17 <sup>37</sup>	16 <sup>53</sup>	14 <sup>01</sup> 19	8 <sup>18</sup>	11 <sup>30</sup>	25 <sup>02</sup> 17	11 <sup>14</sup> 3	12 <sup>0</sup> 8	12 <sup>37</sup>	16 <sup>18</sup> 56	S 11
M 12	9 30 4	23 <sup>40</sup> 00	29 <sup>13</sup>	2 <sup>31</sup>	25 <sup>20</sup>	17 <sup>52</sup>	16 <sup>45</sup>	14 <sup>01</sup> 16	8 <sup>20</sup>	11 <sup>33</sup>	25 <sup>02</sup> 16	11 <sup>14</sup> 33	12 <sup>0</sup> 5	12 <sup>44</sup>	16 <sup>19</sup> 57	M 12
T 13	9 34 1	24 <sup>40</sup> 44	13 <sup>03</sup> 35	3 <sup>57</sup>	26 <sup>36</sup>	18 <sup>7</sup>	16 <sup>37</sup>	14 <sup>01</sup> 13	8 <sup>23</sup>	11 <sup>35</sup>	25 <sup>02</sup> 15	11 <sup>14</sup> 22	12 <sup>0</sup> 2	12 <sup>51</sup>	16 <sup>20</sup> 59	T 13
W 14	9 37 57	25 <sup>41</sup> 28	27 <sup>44</sup>	5 <sup>24</sup>	27 <sup>51</sup>	18 <sup>23</sup>	16 <sup>30</sup>	14 <sup>01</sup> 10	8 <sup>26</sup>	11 <sup>37</sup>	25 <sup>02</sup> 14	11 <sup>9</sup>	11 <sup>15</sup> 59	12 <sup>57</sup>	17 <sup>0</sup> 0	W 14
T 15	9 41 54	26 <sup>42</sup> 09	11 <sup>11</sup> 35	6 <sup>51</sup>	29 <sup>6</sup>	18 <sup>39</sup>	16 <sup>22</sup>	14 <sup>0</sup> 7	8 <sup>28</sup>	11 <sup>39</sup>	25 <sup>02</sup> 13	10 <sup>15</sup> 58	11 <sup>15</sup> 56	13 <sup>4</sup>	17 <sup>1</sup> 1	T 15
F 16	9 45 50	27 <sup>42</sup> 50	25 <sup>4</sup>	8 <sup>20</sup>	0 <sup>11</sup> 21	18 <sup>56</sup>	16 <sup>14</sup>	14 <sup>0</sup> 4	8 <sup>31</sup>	11 <sup>42</sup>	25 <sup>02</sup> 12	10 <sup>14</sup> 48	11 <sup>15</sup> 52	13 <sup>11</sup>	17 <sup>2</sup> 2	F 16
S 17	9 49 47	28 <sup>43</sup> 28	8 <sup>09</sup> 10	9 <sup>50</sup>	1 <sup>37</sup>	19 <sup>13</sup>	16 <sup>6</sup>	14 <sup>0</sup> 1	8 <sup>34</sup>	11 <sup>44</sup>	25 <sup>02</sup> 10	10 <sup>14</sup> 41	11 <sup>14</sup> 49	13 <sup>17</sup>	17 <sup>4</sup> 4	S 17
S 18	9 53 43	29 <sup>44</sup> 06	20 <sup>53</sup>	11 <sup>20</sup>	2 <sup>52</sup>	19 <sup>31</sup>	15 <sup>59</sup>	13 <sup>58</sup>	8 <sup>37</sup>	11 <sup>46</sup>	25 <sup>0</sup> 9	10 <sup>13</sup> 37	11 <sup>14</sup> 46	13 <sup>24</sup>	17 <sup>5</sup> 5	S 18
M 19	9 57 40	0 <sup>11</sup> 44 <sup>41</sup>	3 <sup>08</sup> 15	12 <sup>52</sup>	4 <sup>7</sup>	19 <sup>49</sup>	15 <sup>51</sup>	13 <sup>56</sup>	8 <sup>40</sup>	11 <sup>48</sup>	25 <sup>0</sup> 8	10 <sup>13</sup> 35	11 <sup>14</sup> 43	13 <sup>31</sup>	17 <sup>7</sup> 7	M 19
T 20	10 1 36	1 <sup>45</sup> 15	15 <sup>22</sup>	14 <sup>24</sup>	5 <sup>22</sup>	20 <sup>8</sup>	15 <sup>44</sup>	13 <sup>53</sup>	8 <sup>42</sup>	11 <sup>50</sup>	25 <sup>0</sup> 7	10 <sup>12</sup> D35	11 <sup>14</sup> 40	13 <sup>37</sup>	17 <sup>8</sup> 8	T 20
W 21	10 5 33	2 <sup>45</sup> 47	27 <sup>0</sup> 17	15 <sup>57</sup>	6 <sup>37</sup>	20 <sup>27</sup>	15 <sup>37</sup>	13 <sup>51</sup>	8 <sup>45</sup>	11 <sup>53</sup>	25 <sup>0</sup> 6	10 <sup>12</sup> R36	11 <sup>13</sup> 36	13 <sup>44</sup>	17 <sup>10</sup> 10	W 21
T 22	10 9 30	3 <sup>46</sup> 17	9 <sup>11</sup> 6	17 <sup>31</sup>	7 <sup>52</sup>	20 <sup>46</sup>	15 <sup>29</sup>	13 <sup>48</sup>	8 <sup>48</sup>	11 <sup>55</sup>	25 <sup>0</sup> 5	10 <sup>12</sup> 36	11 <sup>13</sup> 33	13 <sup>51</sup>	17 <sup>12</sup> 12	T 22
F 23	10 13 26	4 <sup>46</sup> 46	20 <sup>55</sup>	19 <sup>7</sup>	9 <sup>8</sup>	21 <sup>6</sup>	15 <sup>22</sup>	13 <sup>46</sup>	8 <sup>51</sup>	11 <sup>57</sup>	25 <sup>0</sup> 4	10 <sup>12</sup> 34	11 <sup>13</sup> 30	13 <sup>57</sup>	17 <sup>13</sup> 13	F 23
S 24	10 17 23	5 <sup>47</sup> 12	2 <sup>05</sup> 49	20 <sup>43</sup>	10 <sup>23</sup>	21 <sup>26</sup>	15 <sup>15</sup>	13 <sup>44</sup>	8 <sup>54</sup>	12 <sup>0</sup> 0	25 <sup>0</sup> 4	10 <sup>12</sup> 30	11 <sup>12</sup> 27	14 <sup>4</sup> 4	17 <sup>15</sup> 15	S 24
S 25	10 21 19	6 <sup>47</sup> 37	14 <sup>53</sup>	22 <sup>20</sup>	11 <sup>38</sup>	21 <sup>46</sup>	15 <sup>8</sup>	13 <sup>42</sup>	8 <sup>57</sup>	12 <sup>0</sup> 2	25 <sup>0</sup> 3	10 <sup>12</sup> 24	11 <sup>12</sup> 24	14 <sup>11</sup>	17 <sup>17</sup> 17	S 25
M 26	10 25 16	7 <sup>48</sup> 00	27 <sup>10</sup>	23 <sup>58</sup>	12 <sup>53</sup>	22 <sup>7</sup>	15 <sup>1</sup>	13 <sup>40</sup>	9 <sup>0</sup> 0	12 <sup>0</sup> 4	25 <sup>0</sup> 2	10 <sup>12</sup> 16	11 <sup>12</sup> 21	14 <sup>17</sup>	17 <sup>19</sup> 19	M 26
T 27	10 29 12	8 <sup>48</sup> 21	9 <sup>02</sup> 43	25 <sup>37</sup>	14 <sup>8</sup>	22 <sup>28</sup>	14 <sup>54</sup>	13 <sup>38</sup>	9 <sup>3</sup> 3	12 <sup>0</sup> 6	25 <sup>0</sup> 1	10 <sup>12</sup> 5	11 <sup>12</sup> 17	14 <sup>24</sup>	17 <sup>21</sup> 21	T 27
W 28	10 33 9	9 <sup>11</sup> 48 <sup>41</sup>	22 <sup>02</sup> 33	27 <sup>08</sup> 17	15 <sup>11</sup> 23	22 <sup>11</sup> 49	14 <sup>02</sup> 48	13 <sup>03</sup> 37	9 <sup>09</sup> 6	12 <sup>11</sup> 9	25 <sup>0</sup> 0	9 <sup>11</sup> 54	11 <sup>12</sup> 14	14 <sup>11</sup> 31	17 <sup>23</sup> 23	W 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s 2	7n59	4s51	21s43	0n29	18s24	1s 8	25n33	2n56	16n13	0n54	22n14	0s21	2n30	0s41	8s 7	0s48	21n59	0m59	15s34	15s37	19n40	14n39	2s17			
F 2	16 45	3 44	4 26	21 42	0 19	18 4	1 10	25 33	2 55	16 15	0 54	22 14	0 21	2 31	0 41	8 7	0 48	22 0	0 59	15 31	15 36	19 41	14 39	2 17			
S 3	16 27	0s45	3 48	21 41	0 10	17 44	1 11	25 34	2 54	16 18	0 55	22 15	0 21	2 32	0 41	8 6	0 48	22 0	0 59	15 28	15 35	19 41	14 39	2 17			
S 4	16 9	5 15	2 56	21 38	0 1	17 23	1 12	25 34	2 54	16 21	0 55	22 15	0 21	2 33	0 41	8 5	0 48	22 0	0 59	15 26	15 34	19 41	14 39	2 17			
M 5	15 51	9 34	1 53	21 34	0s 7	17 2	1 14	25 35	2 53	16 23	0 55	22 16	0 21	2 34	0 41	8 4	0 48	22 1	0 59	15 25	15 34	19 41	14 40	2 17			
T 6	15 33	13 26	0 43	21 29	0 16	16 40	1 15	25 35	2 52	16 26	0 55	22 16	0 21	2 35	0 41	8 3	0 48	22 1	0 59	15 24	15 33	19 41	14 40	2 17			
W 7	15 14	16 35	0n30	21 23	0 24	16 18	1 16	25 36	2 51	16 28	0 55	22 17	0 20	2 36	0 41	8 3	0 48	22 1	0 59	15 24	15 32	19 41	14 40	2 17			
T 8	14 55	18 48	1 42	21 15	0 32	15 55	1 17	25 36	2 51	16 31	0 55	22 17	0 20	2 37	0 41	8 2	0 48	22 1	1 0	15 24	15 31	19 41	14 40	2 17			
F 9	14 36	19 52	2 49	21 7	0 39	15 32	1 18	25 37	2 50	16 33	0 55	22 18	0 20	2 38	0 41	8 1	0 48	22 2	1 0	15 24	15 30	19 41	14 41	2 17			
S 10	14 17	19 39	3 46	20 57	0 47	15 8	1 19	25 37	2 49	16 36	0 55	22 18	0 20	2 39	0 41	8 0	0 48	22 2	1 0	15 22	15 29	19 41	14 41	2 17			
S 11	13 57	18 9	4 29	20 46	0 54	14 44	1 20	25 38	2 48	16 38	0 55	22 19	0 20	2 40	0 41	7 59	0 48	22 2	1 0	15 20	15 28	19 42	14 41	2 17			
M 12	13 37	15 30	4 54	20 34	1 1	14 20	1 21	25 38	2 47	16 41	0 55	22 19	0 20	2 41	0 41	7 58	0 48	22 2	1 0	15 17	15 27	19 42	14 42	2 17			
T 13	13 17	11 55	5 1	20 20	1 7	13 55	1 22	25 39	2 47	16 43	0 56	22 20	0 20	2 42	0 41	7 58	0 48	22 3	1 0	15 13	15 26	19 42	14 42	2 17			
W 14	12 57	7 44	4 49	20 5	1 13	13 30	1 23	25 40	2 46	16 46	0 56	22 20	0 19	2 43	0 41	7 57	0 48	22 3	1 0	15 10	15 25	19 42	14 43	2 17			
T 15	12 36	3 12	4 20	19 49	1 19	13 4	1 23	25 40	2 45	16 48	0 56	22 21	0 19	2 44	0 40	7 56	0 48	22 3	1 0	15 6	15 24	19 42	14 43	2 17			
F 16	12 15	1n22	3 37	19 32	1 25	12 39	1 24	25 41	2 44	16 50	0 56	22 21	0 19	2 45	0 40	7 55	0 48	22 3	1 0	15 3	15 23	19 42	14 43	2 16			
S 17	11 54	5 44	2 43	19 13	1 30	12 12	1 24	25 41	2 43	16 53	0 56	22 22	0 19	2 46	0 40	7 54	0 48	22 4	1 0	15 1	15 22	19 42	14 44	2 16			
S 18	11 33	9 44	1 43	18 53	1 35	11 46	1 25	25 42	2 42	16 55	0 56	22 22	0 19	2 48	0 40	7 53	0 48	22 4	1 0	15 0	15 21	19 42	14 44	2 16			
M 19	11 12	13 12	0 39	18 32	1 40	11 19	1 25	25 43	2 42	16 57	0 56	22 22	0 19	2 49	0 40	7 52	0 48	22 4	1 0	14 59	15 20	19 42	14 45	2 16			
T 20	10 50	16 1	0s25	18 10	1 45	10 52	1 26	25 43	2 41	17 0	0 56	22 23	0 19	2 50	0 40	7 52	0 48	22 4	1 0	14 59	15 19	19 42	14 45	2 16			
W 21	10 29	18 6	1 28	17 46	1 49	10 24	1 26	25 44	2 40	17 2	0 56	22 23	0 19	2 51	0 40	7 51	0 48	22 5	1 0	14 59	15 18	19 42	14 46	2 16			
T 22	10 7	19 23	2 26	17 21	1 52	9 57	1 26	25 44	2 39	17 4	0 56	22 24	0 18	2 52	0 40	7 50	0 48	22 5	1 0	14 59	15 17	19 42	14 46	2 16			
F 23	9 45	19 49	3 18	16 55	1 56	9 29	1 27	25 45	2 38	17 6	0 56	22 24	0 18	2 53	0 40	7 49	0 48	22 5	1 0	14 59	15 16	19 42	14 47	2 16			
S 24	9 23	19 22	4 1	16 27	1 59	9 0	1 27	25 45	2 37	17 8	0 56	22 24	0 18	2 55	0 40	7 48	0 48	22 5	1 0	14 57	15 15	19 42	14 47	2 16			
S 25	9 1	18 2	4 35	15 58	2 1	8 32	1 27	25 46	2 37	17 10	0 56	22 25	0 18	2 56	0 40	7 47	0 48	22 5	1 0	14 56	15 14	19 42	14 48	2 16			
M 26	8 38	15 52	4 56	15 28	2 4	8 3	1 27	25 46	2 36	17 13	0 56	22 25	0 18	2 57	0 40	7 46	0 48	22 6	1 0	14 53	15 13	19 42	14 49	2 16			
T 27	8 16	12 55	5 4	14 56	2 6	7 34	1 27	25 47	2 35	17 15	0 56	22 25	0 18	2 58	0 40	7 46	0 48	22 6	1 1	14 50	15 12	19 42	14 49	2 16			
W 28	7s53	9n18	4s57	14s24	2s 7	7s 5	1s27	25n47	2n34	17n17	0n56	22n26	0s18	2n59	0s40	7s45	0s49	22n 6	1n 1	14s46	15s11	19n42	14n50	2s16			



# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

APRIL 2181

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 39 18	11°43'18	25°45	27°19	25°13	6°33	12°R35	13°41	10°53	13°19	24°R43	8°R 9	9°M32	18°II 4	18°53	S 1
M 2	12 43 15	12°42'34	10°M 9	29° 1	26°27	7° 2	12°R34	13°43	10°56	13°21	24°R43	8°D 9	9°29	18°11	18°56	M 2
T 3	12 47 12	13°41'48	24°37	0°B38	27°41	7°31	12°33	13°45	10°59	13°23	24°43	8°M 9	9°26	18°17	19° 0	T 3
W 4	12 51 8	14°41'01	9°A 5	2°12	28°56	8° 1	12°32	13°47	11° 3	13°25	24°43	8°11	9°23	18°24	19° 3	W 4
T 5	12 55 5	15°40'12	23°28	3°40	0°B10	8°30	12°32	13°50	11° 6	13°27	24°43	8°12	9°20	18°31	19° 7	T 5
F 6	12 59 1	16°39'21	7°B44	5° 4	1°24	9° 0	12°31	13°52	11°10	13°29	24°43	8°13	9°17	18°37	19°10	F 6
S 7	13 2 58	17°38'28	21°50	6°22	2°38	9°29	12°31	13°54	11°13	13°31	24°D43	8°R13	9°13	18°44	19°14	S 7
S 8	13 6 54	18°37'34	5°A45	7°35	3°52	9°59	12°D31	13°57	11°17	13°33	24°43	8°12	9°10	18°51	19°18	S 8
M 9	13 10 51	19°36'37	19°27	8°41	5° 6	10°29	12°31	14° 0	11°20	13°35	24°43	8°11	9° 7	18°57	19°21	M 9
T 10	13 14 47	20°35'39	2°H57	9°42	6°20	10°59	12°31	14° 3	11°23	13°37	24°43	8° 8	9° 4	19° 4	19°25	T 10
W11	13 18 44	21°34'39	16°12	10°37	7°34	11°30	12°32	14° 5	11°27	13°39	24°43	8° 6	9° 1	19°11	19°29	W11
T 12	13 22 41	22°33'38	29°15	11°25	8°48	12° 0	12°33	14° 8	11°30	13°41	24°43	8° 4	8°58	19°17	19°32	T 12
F 13	13 26 37	23°32'34	12°Y 3	12° 7	10° 2	12°31	12°33	14°11	11°33	13°43	24°43	8° 2	8°54	19°24	19°36	F 13
S 14	13 30 34	24°31'29	24°38	12°43	11°16	13° 1	12°35	14°15	11°37	13°45	24°43	8° 1	8°51	19°31	19°40	S 14
S 15	13 34 30	25°30'21	7°B 0	13°12	12°30	13°32	12°36	14°18	11°40	13°47	24°44	8°D 0	8°48	19°37	19°44	S 15
M16	13 38 27	26°29'12	19°10	13°34	13°44	14° 3	12°37	14°21	11°44	13°48	24°44	8° 1	8°45	19°44	19°48	M16
T 17	13 42 23	27°28'00	1°II11	13°51	14°58	14°34	12°39	14°25	11°47	13°50	24°44	8° 1	8°42	19°51	19°51	T 17
W18	13 46 20	28°26'47	13° 5	14° 0	16°12	15° 5	12°41	14°28	11°50	13°52	24°44	8° 2	8°38	19°58	19°55	W18
T 19	13 50 16	29°25'31	24°55	14°R 4	17°26	15°36	12°43	14°32	11°54	13°54	24°45	8° 3	8°35	20° 4	19°59	T 19
F 20	13 54 13	0°B24'13	6°B45	14° 1	18°39	16° 8	12°45	14°36	11°57	13°55	24°45	8° 4	8°32	20°11	20° 3	F 20
S 21	13 58 10	1°22'53	18°40	13°52	19°53	16°39	12°47	14°40	12° 0	13°57	24°45	8° 5	8°29	20°18	20° 7	S 21
S 22	14 2 6	2°21'31	0°B43	13°38	21° 7	17°11	12°50	14°44	12° 3	13°59	24°46	8°R 5	8°26	20°24	20°11	S 22
M23	14 6 3	3°20'06	13° 0	13°19	22°21	17°42	12°53	14°48	12° 7	14° 0	24°46	8° 5	8°23	20°31	20°15	M23
T 24	14 9 59	4°18'39	25°34	12°54	23°34	18°14	12°55	14°52	12°10	14° 2	24°46	8° 5	8°19	20°38	20°19	T 24
W25	14 13 56	5°17'10	8°H30	12°26	24°48	18°46	12°59	14°56	12°13	14° 4	24°47	8° 4	8°16	20°44	20°23	W25
T 26	14 17 52	6°15'39	21°50	11°54	26° 1	19°18	13° 2	15° 0	12°16	14° 5	24°47	8° 4	8°13	20°51	20°27	T 26
F 27	14 21 49	7°14'06	5°A35	11°19	27°15	19°50	13° 5	15° 5	12°19	14° 7	24°48	8° 4	8°10	20°58	20°31	F 27
S 28	14 25 45	8°12'31	19°44	10°42	28°28	20°22	13° 9	15° 9	12°23	14° 8	24°48	8°D 4	8° 7	21° 4	20°35	S 28
S 29	14 29 42	9°10'54	4°M14	10° 3	29°42	20°54	13°13	15°14	12°26	14°10	24°49	8°R 4	8° 4	21°11	20°39	S 29
M30	14 33 39	10°B 9'15	19°M 0	9°B23	0°II55	21°B26	13°R16	15°B18	12°Y29	14°H11	24°B49	8°M 4	8°M 0	21°II18	20°B43	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	4n38	11s 0	1s 8	11n37	1n12	8n58	0s50	25n24	2n 9	17n54	0n55	22n29	0s14	3n41	0s40	S 1
M 2	5 1 14	40n11	12 25	1 23	9 27	0 48	25 22	2 8	17 54	0 55	22 29	0 13	3 43	0 40	7 17	M 2
T 3	5 24	17 27	1 29	13 10	1 35	9 55	0 46	25 19	2 8	17 54	0 55	22 29	0 13	3 44	0 40	T 3
W 4	5 47	19 7	2 42	13 53	1 46	10 24	0 44	25 17	2 7	17 54	0 55	22 29	0 13	3 45	0 40	W 4
T 5	6 10	19 31	3 44	14 33	1 57	10 52	0 42	25 14	2 6	17 55	0 55	22 29	0 13	3 47	0 40	T 5
F 6	6 32	18 40	4 32	15 11	2 7	11 20	0 40	25 12	2 5	17 55	0 55	22 29	0 13	3 48	0 40	F 6
S 7	6 55	16 40	5 3	15 47	2 17	11 47	0 38	25 9	2 5	17 55	0 55	22 29	0 13	3 49	0 40	S 7
S 8	7 17	13 43	5 15	16 19	2 26	12 14	0 35	25 6	2 4	17 55	0 55	22 28	0 13	3 51	0 40	S 8
M 9	7 40	10 4	5 9	16 49	2 34	12 41	0 33	25 3	2 3	17 54	0 55	22 28	0 13	3 52	0 40	M 9
T 10	8 2	5 57	4 47	17 15	2 41	13 8	0 31	25 0	2 3	17 54	0 55	22 28	0 12	3 53	0 40	T 10
W11	8 24	1 37	4 9	17 39	2 47	13 35	0 28	24 56	2 2	17 54	0 55	22 28	0 12	3 55	0 40	W11
T 12	8 46	2n44	3 18	17 59	2 53	14 1	0 26	24 53	2 1	17 54	0 55	22 28	0 12	3 56	0 40	T 12
F 13	9 8	6 53	2 19	18 16	2 57	14 26	0 24	24 50	2 0	17 53	0 54	22 27	0 12	3 57	0 40	F 13
S 14	9 30	10 40	1 13	18 30	3 0	14 52	0 21	24 46	2 0	17 53	0 54	22 27	0 12	3 59	0 40	S 14
S 15	9 51	13 55	0 6	18 41	3 2	15 17	0 19	24 42	1 59	17 53	0 54	22 27	0 12	4 0	0 40	S 15
M16	10 12	16 31	1s 2	18 48	3 3	15 41	0 16	24 38	1 58	17 52	0 54	22 27	0 12	4 1	0 40	M16
T 17	10 34	18 20	2 5	18 52	3 2	16 5	0 14	24 34	1 57	17 52	0 54	22 27	0 12	4 3	0 40	T 17
W18	10 55	19 20	3 3	18 53	3 0	16 29	0 11	24 30	1 57	17 51	0 54	22 26	0 12	4 4	0 40	W18
T 19	11 15	19 27	3 52	18 51	2 57	16 53	0 9	24 26	1 56	17 50	0 54	22 26	0 11	4 5	0 40	T 19
F 20	11 36	18 43	4 31	18 46	2 52	17 16	0 6	24 21	1 56	17 50	0 54	22 26	0 11	4 6	0 40	F 20
S 21	11 57	17 10	5 0	18 37	2 46	17 38	0 4	24 17	1 55	17 49	0 54	22 25	0 11	4 8	0 40	S 21
S 22	12 17	14 51	5 15	18 26	2 38	18 0	0 1	24 12	1 54	17 48	0 54	22 25	0 11	4 9	0 40	S 22
M23	12 37	11 50	5 16	18 11	2 29	18 22	0n 2	24 7	1 54	17 47	0 54	22 25	0 11	4 10	0 40	M23
T 24	12 57	8 14	5 3	17 54	2 19	18 43	0 4	24 2	1 53	17 46	0 54	22 24	0 11	4 11	0 40	T 24
W25	13 16	4 8	4 34	17 34	2 7	19 4	0 7	23 57	1 52	17 45	0 54	22 24	0 11	4 13	0 40	W25
T 26	13 36	0s17	3 50	17 12	1 54	19 24	0 10	23 52	1 52	17 44	0 53	22 24	0 11	4 14	0 40	T 26
F 27	13 55	4 50	2 51	16 48	1 40	19 43	0 12	23 47	1 51	17 43	0 53	22 23	0 11	4 15	0 40	F 27
S 28	14 14	9 15	1 40	16 22	1 25	20 2	0 15	23 41	1 50	17 42	0 53	22 23	0 10	4 16	0 40	S 28
S 29	14 32	13 15	0 21	15 55	1 10	20 21	0 17	23 36	1 50	17 41	0 53	22 22	0 10	4 18	0 40	S 29
M30	14n51	16s29	1n 0	15n27	0n53	20n39	0n20	23n30	1n49	17n40	0n53	22n22	0s10	4n19	0s40	M30

Julian Day Number = 2517744.5, Delta T = 145.77 sec  
 Ecliptic obliquity = 23°24'50, Nutation = 0°00'11, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°16'23, Lahiri = 26°23'24

ASTRODIENST EPHEMERIS for the year 2181  
geocentric

MAY 2181

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 37 35	11♈ 7°35	3♊53	8°R43	2♊ 9	21♈59	13♈21	15♈23	12♈32	14♈13	24♈50	8°R 4	7♊57	21♊24	20♈47	T 1
W 2	14 41 32	12° 5'52	18°47	8♈ 3	3°22	22°31	13°25	15°28	12°35	14°14	24°50	8♊ 3	7°54	21°31	20°51	W 2
T 3	14 45 28	13° 4'09	3♈34	7°25	4°35	23° 4	13°29	15°33	12°38	14°16	24°51	8° 3	7°51	21°38	20°55	T 3
F 4	14 49 25	14° 2'23	18° 8	6°49	5°49	23°36	13°34	15°38	12°41	14°17	24°52	8° 2	7°48	21°44	20°59	F 4
S 5	14 53 21	15° 0'37	2♈24	6°15	7° 2	24° 9	13°39	15°43	12°44	14°18	24°52	8° 2	7°44	21°51	21° 4	S 5
S 6	14 57 18	15°58'48	16°20	5°44	8°15	24°42	13°43	15°48	12°47	14°20	24°53	8°D 2	7°41	21°58	21° 8	S 6
M 7	15 1 14	16°56'59	29°56	5°16	9°28	25°14	13°49	15°53	12°50	14°21	24°54	8° 2	7°38	22° 4	21°12	M 7
T 8	15 5 11	17°55'07	13♈11	4°53	10°42	25°47	13°54	15°58	12°53	14°22	24°55	8° 2	7°35	22°11	21°16	T 8
W 9	15 9 8	18°53'15	26° 9	4°33	11°55	26°20	13°59	16° 3	12°56	14°23	24°55	8° 3	7°32	22°18	21°20	W 9
T 10	15 13 4	19°51'21	8♈52	4°18	13° 8	26°53	14° 5	16° 9	12°59	14°25	24°56	8° 4	7°29	22°25	21°24	T 10
F 11	15 17 1	20°49'25	21°21	4° 7	14°21	27°26	14°10	16°14	13° 2	14°26	24°57	8° 5	7°25	22°31	21°28	F 11
S 12	15 20 57	21°47'28	3♈38	4° 1	15°34	28° 0	14°16	16°20	13° 5	14°27	24°58	8°R 6	7°22	22°38	21°32	S 12
S 13	15 24 54	22°45'30	15°46	4°D 0	16°47	28°33	14°22	16°25	13° 8	14°28	24°59	8° 6	7°19	22°45	21°36	S 13
M14	15 28 50	23°43'30	27°46	4° 3	18° 0	29° 6	14°28	16°31	13°10	14°29	24°59	8° 5	7°16	22°51	21°41	M14
T 15	15 32 47	24°41'28	9♈41	4°11	19°13	29°40	14°35	16°37	13°13	14°30	25° 0	8° 3	7°13	22°58	21°45	T 15
W16	15 36 43	25°39'25	21°32	4°24	20°26	0♈13	14°41	16°43	13°16	14°31	25° 1	8° 1	7° 9	23° 5	21°49	W16
T 17	15 40 40	26°37'21	3♈22	4°41	21°39	0°47	14°48	16°48	13°19	14°32	25° 2	7°58	7° 6	23°11	21°53	T 17
F 18	15 44 37	27°35'14	15°13	5° 2	22°52	1°20	14°54	16°54	13°21	14°33	25° 3	7°55	7° 3	23°18	21°57	F 18
S 19	15 48 33	28°33'06	27° 8	5°28	24° 4	1°54	15° 1	17° 0	13°24	14°34	25° 4	7°52	7° 0	23°25	22° 1	S 19
S 20	15 52 30	29°30'57	9♈11	5°58	25°17	2°28	15° 8	17° 6	13°27	14°35	25° 5	7°50	6°57	23°31	22° 5	S 20
M21	15 56 26	0♈28'45	21°26	6°32	26°30	3° 2	15°15	17°13	13°29	14°36	25° 6	7°49	6°54	23°38	22° 9	M21
T 22	16 0 23	1°26'32	3♈57	7°10	27°42	3°36	15°22	17°19	13°32	14°37	25° 7	7°D48	6°50	23°45	22°14	T 22
W23	16 4 19	2°24'17	16°47	7°52	28°55	4°10	15°30	17°25	13°34	14°37	25° 8	7°49	6°47	23°51	22°18	W23
T 24	16 8 16	3°22'01	0♈ 2	8°37	0°58	4°43	15°37	17°31	13°37	14°38	25° 9	7°50	6°44	23°58	22°22	T 24
F 25	16 12 12	4°19'43	13°42	9°26	1°20	5°18	15°45	17°38	13°39	14°39	25°10	7°52	6°41	24° 5	22°26	F 25
S 26	16 16 9	5°17'24	27°50	10°19	2°33	5°52	15°53	17°44	13°42	14°40	25°11	7°53	6°38	24°11	22°30	S 26
S 27	16 20 6	6°15'03	12♈23	11°14	3°45	6°26	16° 0	17°51	13°44	14°40	25°12	7°R53	6°35	24°18	22°34	S 27
M28	16 24 2	7°12'40	27°18	12°14	4°58	7° 0	16° 8	17°57	13°46	14°41	25°14	7°52	6°31	24°25	22°38	M28
T 29	16 27 59	8°10'17	12♈26	13°16	6°10	7°34	16°17	18° 4	13°49	14°42	25°15	7°50	6°28	24°32	22°42	T 29
W30	16 31 55	9° 7'52	27°39	14°21	7°22	8° 9	16°25	18°10	13°51	14°42	25°16	7°46	6°25	24°38	22°46	W30
T 31	16 35 52	10♈ 5'27	12♈46	15♈30	8♈35	8♈43	16♈33	18♈17	13°Y53	14°Y43	25♈17	7♈41	6♈22	24♈45	22♈50	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	15n 9	18s38	2n19	14n58	0n37	20n56	0n23	23n24	1n48	17n39	0n53	22n22	0s10	4n20	0s40	6s58
W 2	15 27	19 30	3 27	14 29	0 19	21 13	0 25	23 18	1 48	17 37	0 53	22 21	0 10	4 21	0 40	6 58
T 3	15 45	19 0	4 22	14 0	0 2	21 29	0 28	23 12	1 47	17 36	0 53	22 21	0 10	4 22	0 40	6 57
F 4	16 2	17 15	4 59	13 32	0s15	21 45	0 31	23 6	1 46	17 35	0 53	22 20	0 10	4 24	0 40	6 57
S 5	16 19	14 28	5 16	13 5	0 32	22 0	0 33	23 0	1 46	17 33	0 53	22 20	0 10	4 25	0 40	6 56
S 6	16 36	10 55	5 14	12 39	0 49	22 15	0 36	22 53	1 45	17 32	0 53	22 19	0 10	4 26	0 40	6 56
M 7	16 53	6 53	4 55	12 15	1 5	22 29	0 38	22 47	1 44	17 30	0 53	22 19	0 9	4 27	0 40	6 55
T 8	17 9	2 36	4 20	11 52	1 21	22 42	0 41	22 40	1 44	17 29	0 53	22 18	0 9	4 28	0 40	6 55
W 9	17 25	1n43	3 32	11 31	1 36	22 55	0 43	22 33	1 43	17 27	0 52	22 18	0 9	4 29	0 40	6 55
T 10	17 41	5 53	2 35	11 13	1 50	23 7	0 46	22 26	1 42	17 25	0 52	22 17	0 9	4 30	0 40	6 54
F 11	17 56	9 44	1 32	10 57	2 3	23 18	0 48	22 19	1 42	17 24	0 52	22 17	0 9	4 32	0 40	6 54
S 12	18 12	13 6	0 25	10 43	2 16	23 29	0 51	22 12	1 41	17 22	0 52	22 16	0 9	4 33	0 40	6 53
S 13	18 26	15 52	0s42	10 32	2 27	23 39	0 53	22 4	1 41	17 20	0 52	22 16	0 9	4 34	0 40	6 53
M14	18 41	17 54	1 47	10 23	2 38	23 48	0 56	21 57	1 40	17 18	0 52	22 15	0 9	4 35	0 40	6 52
T 15	18 55	19 9	2 46	10 17	2 47	23 57	0 58	21 49	1 39	17 16	0 52	22 14	0 9	4 36	0 40	6 52
W16	19 9	19 32	3 38	10 13	2 56	24 5	1 1	21 41	1 39	17 14	0 52	22 14	0 9	4 37	0 40	6 52
T 17	19 23	19 3	4 20	10 11	3 3	24 12	1 3	21 33	1 38	17 12	0 52	22 13	0 8	4 38	0 40	6 51
F 18	19 36	17 44	4 51	10 12	3 10	24 18	1 5	21 25	1 37	17 10	0 52	22 12	0 8	4 39	0 40	6 51
S 19	19 49	15 39	5 9	10 15	3 16	24 24	1 7	21 17	1 37	17 8	0 52	22 12	0 8	4 40	0 40	6 51
S 20	20 2	12 52	5 15	10 20	3 20	24 29	1 10	21 9	1 36	17 6	0 52	22 11	0 8	4 41	0 40	6 50
M21	20 14	9 30	5 6	10 28	3 24	24 34	1 12	21 1	1 36	17 4	0 52	22 10	0 8	4 42	0 40	6 50
T 22	20 26	5 39	4 43	10 37	3 27	24 38	1 14	20 52	1 35	17 2	0 52	22 10	0 8	4 43	0 40	6 50
W23	20 37	1 27	4 5	10 49	3 29	24 41	1 16	20 43	1 34	17 0	0 51	22 9	0 8	4 44	0 40	6 50
T 24	20 48	2s58	3 13	11 2	3 31	24 43	1 18	20 35	1 34	16 57	0 51	22 8	0 8	4 45	0 40	6 49
F 25	20 59	7 23	2 9	11 17	3 31	24 45	1 20	20 26	1 33	16 55	0 51	22 8	0 8	4 46	0 40	6 49
S 26	21 10	11 33	0 55	11 33	3 31	24 46	1 22	20 17	1 33	16 53	0 51	22 7	0 8	4 47	0 40	6 49
S 27	21 20	15 9	0n25	11 52	3 30	24 46	1 24	20 8	1 32	16 50	0 51	22 6	0 7	4 48	0 40	6 49
M28	21 29	17 50	1 44	12 11	3 28	24 45	1 26	19 59	1 31	16 48	0 51	22 5	0 7	4 49	0 40	6 48
T 29	21 39	19 19	2 58	12 32	3 25	24 44	1 28	19 49	1 31	16 45	0 51	22 5	0 7	4 49	0 40	6 48
W30	21 48	19 24	3 59	12 54	3 22	24 42	1 30	19 40	1 30	16 43	0 51	22 4	0 7	4 50	0 40	6 48
T 31	21n56	18s 6	4n43	13n18	3s18	24n39	1n31	19n30	1n30	16n40	0n51	22n 3	0s 7	4n51	0s40	6s48

Julian Day Number = 2517774.5, Delta T = 145.84 sec  
Ecliptic obliquity = 23°24'49, Nutation = 0°00'09, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°16'27, Lahiri = 26°23'28



# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

JUNE 2181

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 39 48	11 <sup>II</sup> 3'00	27 <sup>☾</sup> 39	16 <sup>♂</sup> 41	9 <sup>☾</sup> 47	9 <sup>♂</sup> 17	16 <sup>♂</sup> 42	18 <sup>☾</sup> 24	13 <sup>♂</sup> 56	14 <sup>♂</sup> 43	25 <sup>☾</sup> 18	7 <sup>♂</sup> R37	6 <sup>♂</sup> L19	24 <sup>II</sup> 52	22 <sup>♂</sup> 54	F 1
S 2	16 43 45	12° 0'32	12 <sup>☾</sup> 10	17°55	10°59	9°52	16°50	18°30	13°58	14°44	25°19	7 <sup>♂</sup> L33	6°15	24°58	22°58	S 2
S 3	16 47 41	12°58'04	26°15	19°12	12°11	10°26	16°59	18°37	14° 0	14°44	25°21	7°31	6°12	25° 5	23° 2	S 3
M 4	16 51 38	13°55'35	9 <sup>♂</sup> 53	20°32	13°23	11° 1	17° 8	18°44	14° 2	14°45	25°22	7°D29	6° 9	25°12	23° 6	M 4
T 5	16 55 35	14°53'05	23° 6	21°55	14°35	11°36	17°17	18°51	14° 4	14°45	25°23	7°30	6° 6	25°18	23°10	T 5
W 6	16 59 31	15°50'34	5 <sup>♂</sup> 56	23°20	15°47	12°10	17°26	18°58	14° 6	14°46	25°24	7°31	6° 3	25°25	23°14	W 6
T 7	17 3 28	16°48'03	18°28	24°49	16°59	12°45	17°35	19° 5	14° 8	14°46	25°26	7°32	6° 0	25°32	23°17	T 7
F 8	17 7 24	17°45'30	0 <sup>♂</sup> 44	26°19	18°11	13°20	17°44	19°12	14°10	14°46	25°27	7°33	5°56	25°38	23°21	F 8
S 9	17 11 21	18°42'58	12°49	27°53	19°23	13°55	17°53	19°19	14°12	14°46	25°28	7°R34	5°53	25°45	23°25	S 9
S 10	17 15 17	19°40'24	24°47	29°29	20°35	14°30	18° 3	19°26	14°14	14°47	25°30	7°32	5°50	25°52	23°29	S 10
M 11	17 19 14	20°37'50	6 <sup>II</sup> 40	1 <sup>II</sup> 8	21°47	15° 5	18°12	19°33	14°16	14°47	25°31	7°28	5°47	25°59	23°33	M 11
T 12	17 23 10	21°35'15	18°30	2°49	22°59	15°40	18°22	19°40	14°17	14°47	25°32	7°23	5°44	26° 5	23°37	T 12
W 13	17 27 7	22°32'39	0 <sup>☾</sup> 20	4°33	24°10	16°15	18°32	19°47	14°19	14°47	25°34	7°15	5°41	26°12	23°40	W 13
T 14	17 31 4	23°30'03	12°11	6°20	25°22	16°50	18°41	19°55	14°21	14°47	25°35	7° 7	5°37	26°19	23°44	T 14
F 15	17 35 0	24°27'25	24° 5	8° 9	26°34	17°25	18°51	20° 2	14°22	14°47	25°37	6°58	5°34	26°25	23°48	F 15
S 16	17 38 57	25°24'47	6 <sup>♂</sup> 5	10° 1	27°45	18° 0	19° 1	20° 9	14°24	14°47	25°38	6°50	5°31	26°32	23°51	S 16
S 17	17 42 53	26°22'08	18°11	11°55	28°57	18°36	19°11	20°17	14°26	14°R47	25°39	6°43	5°28	26°39	23°55	S 17
M 18	17 46 50	27°19'28	0 <sup>♂</sup> 28	13°51	0 <sup>♂</sup> 8	19°11	19°22	20°24	14°27	14°47	25°41	6°37	5°25	26°45	23°59	M 18
T 19	17 50 46	28°16'47	12°59	15°50	1°19	19°46	19°32	20°31	14°29	14°47	25°42	6°34	5°21	26°52	24° 2	T 19
W 20	17 54 43	29°14'05	25°46	17°51	2°31	20°22	19°42	20°39	14°30	14°47	25°44	6°D33	5°18	26°59	24° 6	W 20
T 21	17 58 39	0 <sup>☾</sup> 11'22	8 <sup>♂</sup> 54	19°54	3°42	20°57	19°53	20°46	14°31	14°47	25°45	6°33	5°15	27° 5	24° 9	T 21
F 22	18 2 36	1° 8'39	22°27	21°59	4°53	21°33	20° 3	20°54	14°33	14°47	25°47	6°34	5°12	27°12	24°13	F 22
S 23	18 6 33	2° 5'55	6 <sup>♂</sup> L25	24° 5	6° 4	22° 8	20°14	21° 1	14°34	14°47	25°48	6°R34	5° 9	27°19	24°16	S 23
S 24	18 10 29	3° 3'10	20°50	26°13	7°15	22°44	20°24	21° 9	14°35	14°47	25°50	6°34	5° 6	27°26	24°20	S 24
M 25	18 14 26	4° 0'25	5 <sup>♂</sup> 39	28°22	8°26	23°19	20°35	21°16	14°37	14°46	25°51	6°31	5° 2	27°32	24°23	M 25
T 26	18 18 22	4°57'39	20°47	0 <sup>☾</sup> 33	9°37	23°55	20°46	21°24	14°38	14°46	25°53	6°26	4°59	27°39	24°27	T 26
W 27	18 22 19	5°54'52	6 <sup>♂</sup> 3	2°43	10°48	24°31	20°57	21°31	14°39	14°46	25°54	6°18	4°56	27°46	24°30	W 27
T 28	18 26 15	6°52'05	21°19	4°55	11°59	25° 6	21° 8	21°39	14°40	14°45	25°56	6°10	4°53	27°52	24°33	T 28
F 29	18 30 12	7°49'18	6 <sup>♂</sup> 22	7° 6	13°10	25°42	21°19	21°47	14°41	14°45	25°57	6° 1	4°50	27°59	24°37	F 29
S 30	18 34 8	8° <sup>☾</sup> 46'31	21 <sup>☾</sup> 4	9 <sup>☾</sup> 17	14 <sup>♂</sup> L21	26 <sup>♂</sup> L18	21 <sup>♂</sup> L30	21 <sup>☾</sup> 54	14 <sup>♂</sup> Y42	14 <sup>♂</sup> Y45	25 <sup>☾</sup> 59	5 <sup>♂</sup> L53	4 <sup>♂</sup> L47	28 <sup>II</sup> 6	24 <sup>♂</sup> 40	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	22n 5	15s35	5n 7	13n42	3s14	24n36	1n33	19n20	1n29	16n38	0n51	22n 2	0s 7	4n52	0s40	6s48	0s51	22n 6	1n 4	14s 2	13s37	19n27	16n14	2s19			
S 2	22 12	12 9	5 11	14 8	3 9	24 32	1 35	19 11	1 28	16 35	0 51	22 1	0 7	4 53	0 40	6 47	0 51	22 6	1 4	14 1	13 36	19 27	16 15	2 19			
S 3	22 20	8 7	4 56	14 34	3 3	24 27	1 36	19 1	1 28	16 32	0 51	22 1	0 7	4 54	0 41	6 47	0 51	22 6	1 4	14 0	13 34	19 27	16 16	2 19			
M 4	22 27	3 47	4 24	15 1	2 57	24 22	1 38	18 51	1 27	16 29	0 51	22 0	0 7	4 54	0 41	6 47	0 51	22 6	1 4	14 0	13 33	19 26	16 17	2 19			
T 5	22 33	0n37	3 39	15 29	2 50	24 16	1 39	18 40	1 27	16 27	0 51	21 59	0 7	4 55	0 41	6 47	0 51	22 6	1 5	14 0	13 32	19 26	16 18	2 19			
W 6	22 40	4 52	2 44	15 58	2 43	24 9	1 41	18 30	1 26	16 24	0 51	21 58	0 6	4 56	0 41	6 47	0 51	22 6	1 5	14 0	13 31	19 26	16 19	2 19			
T 7	22 46	8 48	1 42	16 27	2 35	24 1	1 42	18 20	1 25	16 21	0 51	21 57	0 6	4 57	0 41	6 47	0 51	22 5	1 5	14 1	13 30	19 25	16 20	2 19			
F 8	22 51	12 18	0 37	16 56	2 26	23 53	1 43	18 9	1 25	16 18	0 51	21 56	0 6	4 57	0 41	6 47	0 51	22 5	1 5	14 1	13 29	19 25	16 20	2 20			
S 9	22 56	15 13	0s29	17 26	2 18	23 44	1 44	17 59	1 24	16 15	0 51	21 55	0 6	4 58	0 41	6 47	0 51	22 5	1 5	14 1	13 28	19 25	16 21	2 20			
S 10	23 1	17 27	1 32	17 56	2 8	23 34	1 45	17 48	1 24	16 12	0 50	21 54	0 6	4 59	0 41	6 47	0 51	22 5	1 5	14 1	13 27	19 24	16 22	2 20			
M11	23 5	18 55	2 31	18 25	1 59	23 24	1 46	17 37	1 23	16 9	0 50	21 54	0 6	4 59	0 41	6 47	0 51	22 5	1 5	13 59	13 26	19 24	16 23	2 20			
T 12	23 9	19 32	3 23	18 55	1 49	23 13	1 47	17 26	1 22	16 6	0 50	21 53	0 6	5 0	0 41	6 47	0 51	22 4	1 5	13 58	13 25	19 23	16 24	2 20			
W13	23 12	19 18	4 6	19 25	1 39	23 2	1 48	17 15	1 22	16 3	0 50	21 52	0 6	5 1	0 41	6 47	0 51	22 4	1 5	13 55	13 24	19 23	16 24	2 20			
T 14	23 15	18 13	4 39	19 54	1 28	22 50	1 49	17 4	1 21	16 0	0 50	21 51	0 6	5 1	0 41	6 47	0 51	22 4	1 5	13 52	13 23	19 23	16 25	2 20			
F 15	23 18	16 21	5 0	20 22	1 17	22 37	1 50	16 53	1 21	15 57	0 50	21 50	0 6	5 2	0 41	6 47	0 51	22 4	1 5	13 50	13 22	19 22	16 26	2 21			
S 16	23 20	13 46	5 7	20 50	1 6	22 23	1 50	16 41	1 20	15 54	0 50	21 49	0 6	5 3	0 41	6 47	0 51	22 4	1 5	13 47	13 21	19 22	16 27	2 21			
S 17	23 22	10 35	5 1	21 17	0 55	22 9	1 51	16 30	1 19	15 51	0 50	21 48	0 5	5 3	0 41	6 47	0 52	22 3	1 5	13 44	13 20	19 22	16 27	2 21			
M18	23 23	6 54	4 41	21 43	0 44	21 55	1 51	16 18	1 19	15 48	0 50	21 47	0 5	5 4	0 41	6 47	0 52	22 3	1 5	13 43	13 19	19 21	16 28	2 21			
T 19	23 24	2 52	4 8	22 7	0 33	21 40	1 52	16 7	1 18	15 44	0 50	21 46	0 5	5 4	0 41	6 47	0 52	22 3	1 5	13 42	13 18	19 21	16 29	2 21			
W20	23 25	1s24	3 21	22 30	0 21	21 24	1 52	15 55	1 18	15 41	0 50	21 45	0 5	5 5	0 41	6 47	0 52	22 3	1 5	13 41	13 17	19 20	16 30	2 21			
T 21	23 25	5 43	2 23	22 52	0 10	21 7	1 52	15 43	1 17	15 38	0 50	21 44	0 5	5 5	0 41	6 47	0 52	22 2	1 5	13 41	13 16	19 20	16 30	2 22			
F 22	23 25	9 53	1 15	23 11	0n 1	20 50	1 52	15 31	1 17	15 34	0 50	21 43	0 5	5 6	0 41	6 47	0 52	22 2	1 5	13 42	13 14	19 20	16 31	2 22			
S 23	23 24	13 40	0 1	23 29	0 12	20 33	1 53	15 19	1 16	15 31	0 50	21 42	0 5	5 6	0 41	6 47	0 52	22 2	1 5	13 42	13 13	19 19	16 32	2 22			
S 24	23 23	16 44	1n16	23 44	0 22	20 15	1 52	15 7	1 15	15 28	0 50	21 40	0 5	5 7	0 41	6 47	0 52	22 2	1 5	13 42	13 12	19 19	16 32	2 22			
M25	23 21	18 47	2 29	23 57	0 33	19 57	1 52	14 54	1 15	15 24	0 50	21 39	0 5	5 7	0 41	6 47	0 52	22 2	1 6	13 41	13 11	19 18	16 33	2 22			
T 26	23 19	19 32	3 34	24 7	0 42	19 37	1 52	14 42	1 14	15 21	0 50	21 38	0 5	5 8	0 41	6 47	0 52	22 1	1 6	13 39	13 10	19 18	16 34	2 22			
W27	23 17	18 53	4 23	24 15	0 52	19 18	1 52	14 30	1 14	15 17	0 50	21 37	0 5	5 8	0 41	6 48	0 52	22 1	1 6	13 36	13 9	19 17	16 34	2 23			
T 28	23 14	16 53	4 54	24 20	1 0	18 58	1 52	14 17	1 13	15 14	0 50	21 36	0 4	5 8	0 41	6 48	0 52	22 1	1 6	13 34	13 8	19 17	16 35	2 23			
F 29	23 11	13 45	5 4	24 22	1 9	18 37	1 51	14 5	1 13	15 10	0 50	21 35	0 4	5 9	0 41	6 48	0 52	22 1	1 6	13 31	13 7	19 17	16 35	2 23			
S 30	23n 7	9s49	4n54	24n21	1n16	18n16	1n51	13n52	1n12	15n 6	0n50	21n34	0s 4	5n 9	0s41	6s48	0s52	22n 0	1n 6	13s28	13s 6	19n16	16n36	2s23			

# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

JULY 2181

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 38 5	9♂43'44	5♂19	11♂28	15♂31	26♂54	21♂41	22♂2	14♂43	14♂44	26♂0	5♂47	4♂43	28♂12	24♂43	S 1
M 2	18 42 2	10°40'57	19° 5	13°38	16°42	27°30	21°53	22°10	14°44	14°44	26° 2	5♂43	4°40	28°19	24°46	M 2
T 3	18 45 58	11°38'10	2♂21	15°47	17°52	28° 6	22° 4	22°17	14°45	14°43	26° 3	5°41	4°37	28°26	24°49	T 3
W 4	18 49 55	12°35'23	15°11	17°55	19° 3	28°42	22°15	22°25	14°45	14°43	26° 5	5°D40	4°34	28°32	24°53	W 4
T 5	18 53 51	13°32'36	27°40	20° 2	20°13	29°18	22°27	22°33	14°46	14°42	26° 7	5°41	4°31	28°39	24°56	T 5
F 6	18 57 48	14°29'49	9♂52	22° 8	21°23	29°54	22°38	22°41	14°47	14°41	26° 8	5°R41	4°27	28°46	24°59	F 6
S 7	19 1 44	15°27'03	21°52	24°11	22°33	0♂30	22°50	22°48	14°47	14°41	26°10	5°39	4°24	28°53	25° 2	S 7
S 8	19 5 41	16°24'17	3♂45	26°14	23°43	1° 6	23° 1	22°56	14°48	14°40	26°11	5°36	4°21	28°59	25° 5	S 8
M 9	19 9 37	17°21'31	15°34	28°14	24°54	1°42	23°13	23° 4	14°49	14°39	26°13	5°30	4°18	29° 6	25° 8	M 9
T 10	19 13 34	18°18'45	27°23	0♂13	26° 4	2°19	23°25	23°12	14°49	14°39	26°15	5°21	4°15	29°13	25°10	T 10
W11	19 17 31	19°15'59	9♂14	2°10	27°13	2°55	23°37	23°19	14°50	14°38	26°16	5°10	4°12	29°19	25°13	W11
T 12	19 21 27	20°13'14	21°10	4° 5	28°23	3°31	23°49	23°27	14°50	14°37	26°18	4°58	4° 8	29°26	25°16	T 12
F 13	19 25 24	21°10'28	3♂11	5°58	29°33	4° 8	24° 1	23°35	14°50	14°36	26°19	4°45	4° 5	29°33	25°19	F 13
S 14	19 29 20	22° 7'43	15°18	7°49	0♂43	4°44	24°13	23°43	14°51	14°36	26°21	4°32	4° 2	29°39	25°21	S 14
S 15	19 33 17	23° 4'58	27°34	9°38	1°52	5°21	24°25	23°50	14°51	14°35	26°23	4°21	3°59	29°46	25°24	S 15
M16	19 37 13	24° 2'13	9♂59	11°25	3° 2	5°57	24°37	23°58	14°51	14°34	26°24	4°12	3°56	29°53	25°27	M16
T 17	19 41 10	24°59'28	22°36	13°11	4°11	6°34	24°49	24° 6	14°51	14°33	26°26	4° 6	3°53	29°59	25°29	T 17
W18	19 45 6	25°56'43	5♂27	14°54	5°20	7°10	25° 1	24°14	14°51	14°32	26°27	4° 3	3°49	0♂6	25°32	W18
T 19	19 49 3	26°53'58	18°35	16°36	6°30	7°47	25°13	24°22	14°51	14°31	26°29	4° 1	3°46	0°13	25°34	T 19
F 20	19 53 0	27°51'13	2♂2	18°15	7°39	8°24	25°25	24°29	14°R51	14°30	26°31	4° 1	3°43	0°20	25°37	F 20
S 21	19 56 56	28°48'28	15°51	19°53	8°48	9° 0	25°38	24°37	14°51	14°29	26°32	4° 1	3°40	0°26	25°39	S 21
S 22	20 0 53	29°45'44	0♂4	21°29	9°57	9°37	25°50	24°45	14°51	14°28	26°34	4° 0	3°37	0°33	25°41	S 22
M23	20 4 49	0♂43'00	14°38	23° 2	11° 5	10°14	26° 3	24°53	14°51	14°27	26°35	3°56	3°33	0°40	25°44	M23
T 24	20 8 46	1°40'16	29°32	24°34	12°14	10°51	26°15	25° 0	14°51	14°26	26°37	3°49	3°30	0°46	25°46	T 24
W25	20 12 42	2°37'32	14♂37	26° 4	13°23	11°28	26°27	25° 8	14°51	14°25	26°39	3°40	3°27	0°53	25°48	W25
T 26	20 16 39	3°34'49	29°44	27°32	14°31	12° 5	26°40	25°16	14°50	14°24	26°40	3°30	3°24	1° 0	25°50	T 26
F 27	20 20 35	4°32'06	14♂44	28°58	15°39	12°42	26°52	25°24	14°50	14°23	26°42	3°19	3°21	1° 7	25°52	F 27
S 28	20 24 32	5°29'24	29°26	0♂22	16°48	13°19	27° 5	25°31	14°50	14°21	26°43	3° 9	3°18	1°13	25°54	S 28
S 29	20 28 29	6°26'43	13♂44	1°44	17°56	13°56	27°18	25°39	14°49	14°20	26°45	3° 1	3°14	1°20	25°56	S 29
M30	20 32 25	7°24'02	27°33	3° 4	19° 4	14°33	27°30	25°47	14°49	14°19	26°47	2°55	3°11	1°27	25°58	M30
T 31	20 36 22	8♂21'23	10♂53	4♂21	20♂11	15♂10	27♂43	25♂54	14♂48	14♂18	26♂48	2♂51	3♂8	1♂33	26♂0	T 31

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	
S 1	23n 3	5s26	4n25	24n18	1n23	17n55	1n50	13n39	1n11	15n 3	0n50	21n33	0s 4	5n 9	0s41	S 1
M 2	22 59	0 55	3 42	24 12	1 29	17 33	1 49	13 26	1 11	14 59	0 50	21 32	0 4	5 10	0 41	M 2
T 3	22 54	3n30	2 48	24 3	1 35	17 11	1 48	13 13	1 10	14 55	0 50	21 30	0 4	5 10	0 41	T 3
W 4	22 49	7 37	1 47	23 51	1 39	16 48	1 47	13 0	1 10	14 52	0 50	21 29	0 4	5 10	0 41	W 4
T 5	22 44	11 18	0 43	23 37	1 43	16 25	1 46	12 47	1 9	14 48	0 50	21 28	0 4	5 11	0 41	T 5
F 6	22 38	14 24	0s22	23 21	1 46	16 1	1 45	12 34	1 8	14 44	0 50	21 27	0 4	5 11	0 41	F 6
S 7	22 31	16 51	1 25	23 2	1 49	15 37	1 44	12 21	1 8	14 40	0 50	21 26	0 4	5 11	0 41	S 7
S 8	22 24	18 32	2 23	22 41	1 50	15 13	1 43	12 7	1 7	14 37	0 50	21 24	0 4	5 11	0 42	S 8
M 9	22 17	19 24	3 15	22 19	1 51	14 48	1 41	11 54	1 7	14 33	0 50	21 23	0 3	5 11	0 42	M 9
T 10	22 10	19 25	3 58	21 54	1 52	14 23	1 40	11 40	1 6	14 29	0 50	21 22	0 3	5 12	0 42	T 10
W11	22 2	18 35	4 31	21 28	1 51	13 58	1 38	11 27	1 6	14 25	0 50	21 21	0 3	5 12	0 42	W11
T 12	21 54	16 56	4 52	21 0	1 50	13 32	1 37	11 13	1 5	14 21	0 50	21 20	0 3	5 12	0 42	T 12
F 13	21 45	14 33	5 1	20 31	1 48	13 6	1 35	10 59	1 4	14 17	0 50	21 18	0 3	5 12	0 42	F 13
S 14	21 36	11 31	4 55	20 0	1 46	12 40	1 33	10 45	1 4	14 13	0 50	21 17	0 3	5 12	0 42	S 14
S 15	21 26	7 58	4 37	19 28	1 43	12 13	1 31	10 31	1 3	14 9	0 50	21 16	0 3	5 12	0 42	S 15
M16	21 17	4 2	4 5	18 56	1 39	11 46	1 29	10 17	1 3	14 5	0 50	21 15	0 3	5 12	0 42	M16
T 17	21 7	0s 8	3 20	18 22	1 35	11 19	1 27	10 3	1 2	14 1	0 50	21 13	0 3	5 12	0 42	T 17
W18	20 56	4 23	2 25	17 47	1 31	10 51	1 25	9 49	1 2	13 57	0 50	21 12	0 3	5 12	0 42	W18
T 19	20 45	8 31	1 21	17 12	1 25	10 24	1 22	9 35	1 1	13 53	0 50	21 11	0 3	5 12	0 42	T 19
F 20	20 34	12 20	0 11	16 36	1 20	9 56	1 20	9 21	1 1	13 49	0 50	21 9	0 3	5 12	0 42	F 20
S 21	20 23	15 34	1n 2	16 0	1 14	9 28	1 18	9 7	1 0	13 44	0 50	21 8	0 2	5 12	0 42	S 21
S 22	20 11	17 58	2 13	15 23	1 7	8 59	1 15	8 52	0 59	13 40	0 50	21 7	0 2	5 12	0 42	S 22
M23	19 59	19 16	3 17	14 46	1 0	8 31	1 12	8 38	0 59	13 36	0 50	21 6	0 2	5 12	0 42	M23
T 24	19 46	19 16	4 9	14 9	0 53	8 2	1 9	8 23	0 58	13 32	0 50	21 4	0 2	5 12	0 42	T 24
W25	19 33	17 54	4 44	13 31	0 45	7 33	1 7	8 9	0 58	13 28	0 50	21 3	0 2	5 12	0 42	W25
T 26	19 20	15 18	5 0	12 53	0 37	7 4	1 4	7 54	0 57	13 23	0 50	21 2	0 2	5 12	0 42	T 26
F 27	19 6	11 42	4 55	12 16	0 28	6 35	1 1	7 40	0 57	13 19	0 50	21 0	0 2	5 12	0 42	F 27
S 28	18 53	7 26	4 30	11 38	0 19	6 5	0 57	7 25	0 56	13 15	0 50	20 59	0 2	5 11	0 42	S 28
S 29	18 39	2 52	3 49	11 0	0 10	5 36	0 54	7 10	0 55	13 11	0 50	20 58	0 2	5 11	0 42	S 29
M30	18 24	1n42	2 55	10 23	0 1	5 6	0 51	6 55	0 55	13 6	0 50	20 56	0 2	5 11	0 42	M30
T 31	18n 9	6n 3	1n53	9n46	0s 9	4n36	0n47	6n40	0n54	13n 2	0n50	20n55	0s 2	5n11	0s42	T 31

Julian Day Number = 2517835.5, Delta T = 145.99 sec  
 Ecliptic obliquity = 23°24'48, Nutation = 0°00'11, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°16'36, Lahiri = 26°23'36



# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

AUGUST 2181

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 40 18	9♂18'44	23♂47	5♂37	21♂19	15♂47	27♂56	26♂2	14°R48	14°R17	26♂50	2°R50	3♂5	1♂40	26♂2	W 1
T 2	20 44 15	10°16'06	6♂18	6°50	22°27	16°24	28°8	26°10	14°Y47	14°X15	26°51	2♂50	3°2	1°47	26°4	T 2
F 3	20 48 11	11°13'30	18°30	8°1	23°34	17°2	28°21	26°17	14°46	14°14	26°53	2°50	2°59	1°53	26°5	F 3
S 4	20 52 8	12°10'55	0♂30	9°10	24°42	17°39	28°34	26°25	14°46	14°13	26°55	2°49	2°55	2°0	26°7	S 4
S 5	20 56 4	13°8'21	12°22	10°16	25°49	18°16	28°47	26°33	14°45	14°11	26°56	2°46	2°52	2°7	26°9	S 5
M 6	21 0 1	14°5'48	24°12	11°20	26°56	18°54	29°0	26°40	14°44	14°10	26°58	2°40	2°49	2°14	26°10	M 6
T 7	21 3 58	15°3'16	6♂2	12°21	28°3	19°31	29°12	26°48	14°43	14°9	26°59	2°32	2°46	2°20	26°12	T 7
W 8	21 7 54	16°0'45	17°58	13°19	29°10	20°9	29°25	26°55	14°43	14°7	27°1	2°21	2°43	2°27	26°13	W 8
T 9	21 11 51	16°58'15	29°59	14°15	0♂16	20°46	29°38	27°3	14°42	14°6	27°2	2°8	2°39	2°34	26°14	T 9
F 10	21 15 47	17°55'46	12♂10	15°7	1°23	21°24	29°51	27°10	14°41	14°4	27°4	1°55	2°36	2°40	26°16	F 10
S 11	21 19 44	18°53'19	24°30	15°56	2°29	22°1	0♂4	27°18	14°40	14°3	27°5	1°43	2°33	2°47	26°17	S 11
S 12	21 23 40	19°50'52	7♂0	16°42	3°35	22°39	0°17	27°25	14°39	14°1	27°7	1°32	2°30	2°54	26°18	S 12
M13	21 27 37	20°48'26	19°40	17°25	4°42	23°17	0°30	27°32	14°37	14°0	27°8	1°23	2°27	3°1	26°19	M13
T 14	21 31 33	21°46'02	2♂31	18°3	5°47	23°54	0°43	27°40	14°36	13°58	27°10	1°18	2°24	3°7	26°20	T 14
W15	21 35 30	22°43'38	15°34	18°38	6°53	24°32	0°56	27°47	14°35	13°57	27°11	1°14	2°20	3°14	26°21	W15
T 16	21 39 27	23°41'15	28°51	19°9	7°59	25°10	1°9	27°54	14°34	13°55	27°13	1°D13	2°17	3°21	26°22	T 16
F 17	21 43 23	24°38'53	12♂21	19°35	9°4	25°48	1°22	28°2	14°33	13°54	27°14	1°14	2°14	3°27	26°23	F 17
S 18	21 47 20	25°36'32	26°8	19°57	10°9	26°26	1°35	28°9	14°31	13°52	27°16	1°R14	2°11	3°34	26°24	S 18
S 19	21 51 16	26°34'12	10♂12	20°14	11°14	27°4	1°48	28°16	14°30	13°51	27°17	1°13	2°8	3°41	26°25	S 19
M20	21 55 9	27°31'53	24°32	20°27	12°19	27°42	2°1	28°23	14°29	13°49	27°19	1°11	2°4	3°47	26°25	M20
T 21	21 59 9	28°29'36	9♂6	20°34	13°23	28°20	2°14	28°30	14°27	13°48	27°20	1°6	2°1	3°54	26°26	T 21
W22	22 3 6	29°27'19	23°49	20°R35	14°28	28°58	2°27	28°37	14°26	13°46	27°21	0°58	1°58	4°1	26°27	W22
T 23	22 7 2	0♂25'03	8♂35	20°31	15°32	29°36	2°40	28°44	14°24	13°45	27°23	0°50	1°55	4°8	26°27	T 23
F 24	22 10 59	1°22'48	23°16	20°21	16°36	0♂14	2°53	28°51	14°23	13°43	27°24	0°41	1°52	4°14	26°28	F 24
S 25	22 14 56	2°20'35	7♂44	20°6	17°39	0°52	3°7	28°58	14°21	13°41	27°26	0°32	1°49	4°21	26°28	S 25
S 26	22 18 52	3°18'23	21°52	19°44	18°43	1°31	3°20	29°5	14°19	13°40	27°27	0°25	1°45	4°28	26°29	S 26
M27	22 22 49	4°16'13	5♂37	19°17	19°46	2°9	3°33	29°12	14°18	13°38	27°28	0°20	1°42	4°34	26°29	M27
T 28	22 26 45	5°14'04	18°56	18°45	20°49	2°47	3°46	29°19	14°16	13°36	27°30	0°18	1°39	4°41	26°29	T 28
W29	22 30 42	6°11'57	1♂51	18°6	21°52	3°26	3°59	29°26	14°14	13°35	27°31	0°D17	1°36	4°48	26°29	W29
T 30	22 34 38	7°9'52	14°24	17°23	22°54	4°4	4°12	29°33	14°13	13°33	27°32	0°18	1°33	4°55	26°29	T 30
F 31	22 38 35	8♂7'49	26♂39	16♂36	23♂56	4♂42	4♂25	29♂39	14°Y11	13°X32	27♂33	0♂19	1♂30	5♂1	26°R29	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	17n54	9n58	0n48	9n9	0s19	4n7	0n44	6n26	0n54	12n58	0n50	20n54	0s1	5n10	0s42	7s0
T 2	17 39	13 19	0s18	8 33	0 29	3 37	0 40	6 11	0 53	12 53	0 50	20 52	0 1	5 10	0 42	7 0
F 3	17 23	16 0	1 22	7 57	0 39	3 7	0 36	5 56	0 53	12 49	0 50	20 51	0 1	5 10	0 42	7 1
S 4	17 7	17 56	2 21	7 21	0 50	2 36	0 33	5 40	0 52	12 44	0 50	20 50	0 1	5 10	0 42	7 2
S 5	16 51	19 4	3 13	6 46	1 1	2 6	0 29	5 25	0 51	12 40	0 50	20 48	0 1	5 9	0 42	7 2
M 6	16 35	19 21	3 57	6 12	1 12	1 36	0 25	5 10	0 51	12 35	0 50	20 47	0 1	5 9	0 42	7 3
T 7	16 18	18 47	4 30	5 38	1 23	1 6	0 21	4 55	0 50	12 31	0 50	20 46	0 1	5 9	0 42	7 3
W 8	16 1	17 23	4 52	5 6	1 34	0 35	0 17	4 40	0 50	12 27	0 50	20 44	0 1	5 8	0 42	7 4
T 9	15 44	15 14	5 1	4 34	1 46	0 5	0 13	4 25	0 49	12 22	0 50	20 43	0 1	5 8	0 42	7 4
F 10	15 26	12 23	4 56	4 3	1 57	0s25	0 8	4 9	0 49	12 17	0 50	20 41	0 1	5 8	0 42	7 5
S 11	15 9	8 58	4 38	3 34	2 8	0 56	0 4	3 54	0 48	12 13	0 50	20 40	0 1	5 7	0 43	7 5
S 12	14 51	5 7	4 6	3 6	2 20	1 26	0s0	3 38	0 47	12 8	0 50	20 39	0 1	5 7	0 43	7 6
M13	14 33	1 0	3 22	2 39	2 31	1 56	0 5	3 23	0 47	12 4	0 50	20 37	0 0	5 6	0 43	7 7
T 14	14 14	3s14	2 26	2 13	2 43	2 27	0 9	3 8	0 46	11 59	0 50	20 36	0 0	5 6	0 43	7 7
W15	13 55	7 23	1 22	1 49	2 54	2 57	0 14	2 52	0 46	11 55	0 50	20 35	0 0	5 5	0 43	7 8
T 16	13 37	11 15	0 13	1 27	3 5	3 27	0 19	2 37	0 45	11 50	0 50	20 33	0 0	5 5	0 43	7 8
F 17	13 18	14 36	0n59	1 7	3 16	3 57	0 24	2 21	0 45	11 46	0 50	20 32	0 0	5 4	0 43	7 9
S 18	12 58	17 11	2 9	0 49	3 26	4 27	0 28	2 6	0 44	11 41	0 50	20 31	0n0	5 4	0 43	7 10
S 19	12 39	18 47	3 12	0 33	3 37	4 57	0 33	1 50	0 44	11 36	0 50	20 29	0 0	5 3	0 43	7 10
M20	12 19	19 14	4 5	0 19	3 46	5 27	0 38	1 34	0 43	11 32	0 50	20 28	0 0	5 3	0 43	7 11
T 21	11 59	18 25	4 42	0 8	3 55	5 57	0 43	1 19	0 42	11 27	0 50	20 27	0 0	5 2	0 43	7 11
W22	11 39	16 22	5 2	0s1	4 4	6 26	0 48	1 3	0 42	11 22	0 50	20 25	0 0	5 1	0 43	7 12
T 23	11 19	13 15	5 1	0 6	4 12	6 56	0 54	0 47	0 41	11 18	0 51	20 24	0 0	5 1	0 43	7 13
F 24	10 58	9 19	4 41	0 9	4 19	7 25	0 59	0 32	0 41	11 13	0 51	20 23	0 1	5 0	0 43	7 13
S 25	10 38	4 54	4 3	0 8	4 25	7 55	1 4	0 16	0 40	11 8	0 51	20 21	0 1	5 0	0 43	7 14
S 26	10 17	0 18	3 11	0 5	4 30	8 24	1 9	0 0	0 40	11 4	0 51	20 20	0 1	4 59	0 43	7 15
M27	9 56	4n12	2 8	0n3	4 33	8 53	1 15	0s15	0 39	10 59	0 51	20 19	0 1	4 58	0 43	7 15
T 28	9 35	8 21	1 1	0 13	4 35	9 21	1 20	0 31	0 38	10 54	0 51	20 17	0 1	4 58	0 43	7 16
W29	9 14	11 58	0s8	0 28	4 36	9 50	1 26	0 47	0 38	10 50	0 51	20 16	0 1	4 57	0 43	7 17
T 30	8 52	14 57	1 15	0 45	4 35	10 18	1 31	1 3	0 37	10 45	0 51	20 15	0 1	4 56	0 43	7 17
F 31	8n31	17n10	2s17	1n6	4s32	10s47	1s37	1s18	0n37	10n40	0n51	20n13	0n1	4n56	0s43	7s18

Julian Day Number = 2517866.5, Delta T = 146.06 sec  
 Ecliptic obliquity = 23°24'49, Nutation = 0°00'11, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°16'40, Lahiri = 26°23'40

# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

SEPTEMBER 2181

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 42 31	9 <sup>h</sup> 5'47	8 <sup>h</sup> 41	15°R45	24 <sup>h</sup> 58	5 <sup>h</sup> 21	4 <sup>h</sup> 38	29 <sup>h</sup> 46	14°R 9	13°R30	27 <sup>h</sup> 35	0°R19	1 <sup>h</sup> 26	5 <sup>h</sup> 8	26°R29	S 1
S 2	22 46 28	10° 3'48	20°35	14 <sup>h</sup> 50	26° 0	6° 0	4°51	29°52	14 <sup>h</sup> 7	13 <sup>h</sup> 28	27°36	0 <sup>h</sup> 19	1°23	5°15	26°R29	S 2
M 3	22 50 25	11° 1'50	2 <sup>h</sup> 26	13°54	27° 1	6°38	5° 4	29°59	14° 5	13°27	27°37	0°16	1°20	5°21	26°29	M 3
T 4	22 54 21	11°59'54	14°19	12°57	28° 2	7°17	5°17	0 <sup>h</sup> 6	14° 3	13°25	27°38	0°12	1°17	5°28	26°29	T 4
W 5	22 58 18	12°58'00	26°18	12° 1	29° 3	7°55	5°30	0°12	14° 1	13°23	27°40	0° 5	1°14	5°35	26°29	W 5
T 6	23 2 14	13°56'07	8 <sup>h</sup> 26	11° 6	0 <sup>h</sup> 3	8°34	5°43	0°18	13°59	13°22	27°41	29 <sup>h</sup> 58	1°10	5°41	26°28	T 6
F 7	23 6 11	14°54'17	20°46	10°14	1° 4	9°13	5°56	0°25	13°57	13°20	27°42	29°49	1° 7	5°48	26°28	F 7
S 8	23 10 7	15°52'28	3 <sup>h</sup> 18	9°26	2° 3	9°52	6° 9	0°31	13°55	13°18	27°43	29°41	1° 4	5°55	26°28	S 8
S 9	23 14 4	16°50'41	26° 5	8°43	3° 3	10°31	6°22	0°37	13°53	13°17	27°44	29°34	1° 1	6° 2	26°27	S 9
M10	23 18 0	17°48'56	29° 4	8° 6	4° 2	11°10	6°35	0°43	13°51	13°15	27°45	29°29	0°58	6° 8	26°26	M10
T 11	23 21 57	18°47'12	12 <sup>h</sup> 17	7°37	5° 0	11°49	6°48	0°49	13°49	13°13	27°47	29°26	0°55	6°15	26°26	T 11
W12	23 25 53	19°45'30	25°41	7°15	5°59	12°28	7° 1	0°55	13°47	13°12	27°48	29°D24	0°51	6°22	26°25	W12
T 13	23 29 50	20°43'50	9 <sup>h</sup> 16	7° 2	6°57	13° 7	7°14	1° 1	13°45	13°10	27°49	29°25	0°48	6°28	26°24	T 13
F 14	23 33 47	21°42'11	23° 2	6°D58	7°54	13°46	7°27	1° 7	13°43	13° 9	27°50	29°26	0°45	6°35	26°24	F 14
S 15	23 37 43	22°40'34	6 <sup>h</sup> 57	7° 3	8°51	14°25	7°40	1°13	13°40	13° 7	27°51	29°27	0°42	6°42	26°23	S 15
S 16	23 41 40	23°38'59	21° 1	7°17	9°48	15° 4	7°52	1°19	13°38	13° 5	27°52	29°R28	0°39	6°49	26°22	S 16
M17	23 45 36	24°37'25	5 <sup>h</sup> 13	7°40	10°44	15°44	8° 5	1°25	13°36	13° 4	27°53	29°28	0°36	6°55	26°21	M17
T 18	23 49 33	25°35'52	19°31	8°13	11°40	16°23	8°18	1°30	13°34	13° 2	27°54	29°26	0°32	7° 2	26°20	T 18
W19	23 53 29	26°34'21	3 <sup>h</sup> 51	8°54	12°35	17° 2	8°31	1°36	13°31	13° 0	27°55	29°22	0°29	7° 9	26°19	W19
T 20	23 57 26	27°32'52	18°11	9°43	13°29	17°42	8°43	1°41	13°29	12°59	27°56	29°18	0°26	7°15	26°17	T 20
F 21	0 1 22	28°31'24	2 <sup>h</sup> 24	10°40	14°23	18°21	8°56	1°47	13°27	12°57	27°57	29°13	0°23	7°22	26°16	F 21
S 22	0 5 19	29°29'58	16°27	11°44	15°17	19° 1	9° 9	1°52	13°24	12°56	27°57	29° 9	0°20	7°29	26°15	S 22
S 23	0 9 16	0 <sup>h</sup> 28'34	0 <sup>h</sup> 15	12°56	16°10	19°40	9°21	1°57	13°22	12°54	27°58	29° 6	0°16	7°36	26°14	S 23
M24	0 13 12	1°27'12	13°44	14°13	17° 2	20°20	9°34	2° 3	13°20	12°53	27°59	29° 3	0°13	7°42	26°12	M24
T25	0 17 9	2°25'52	26°54	15°35	17°54	20°59	9°47	2° 8	13°17	12°51	28° 0	29°D 2	0°10	7°49	26°11	T25
W26	0 21 5	3°24'33	9 <sup>h</sup> 44	17° 3	18°45	21°39	9°59	2°13	13°15	12°50	28° 1	29° 3	0° 7	7°56	26° 9	W26
T 27	0 25 2	4°23'17	22°15	18°35	19°35	22°19	10°12	2°18	13°13	12°48	28° 2	29° 4	0° 4	8° 2	26° 8	T 27
F 28	0 28 58	5°22'04	4 <sup>h</sup> 31	20°10	20°25	22°58	10°24	2°23	13°10	12°47	28° 2	29° 6	0° 1	8° 9	26° 6	F 28
S 29	0 32 55	6°20'52	16°34	21°48	21°14	23°38	10°36	2°27	13° 8	12°45	28° 3	29° 7	29 <sup>h</sup> 57	8°16	26° 4	S 29
S 30	0 36 51	7 <sup>h</sup> 19'43	28 <sup>h</sup> 29	23 <sup>h</sup> 29	22 <sup>h</sup> 2	24 <sup>h</sup> 18	10 <sup>h</sup> 49	2 <sup>h</sup> 32	13 <sup>h</sup> 5	12 <sup>h</sup> 44	28 <sup>h</sup> 4	29 <sup>h</sup> 8	29 <sup>h</sup> 54	8 <sup>h</sup> 23	26 <sup>h</sup> 3	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
S 1	8n 9	18n34 3s12	1n31 4s27	11s15 1s42	1s34 0n36	10n36 0n51	20n12 0n 1	4n55 0s43	7s18 0s54	21n46 1n10	11s34 11s58	18n42 16n48	2s37			
S 2	7 47 19 8	3 57 1 57	4 21 11 42	1 48 1 50	0 36 10 31	0 51 20 11	0 1 4 54	0 43 7 19	0 54 21 46	1 10 11 34	11 57 18 42	16 48 2 38				
M 3	7 25 18 51	4 32 2 27	4 12 12 10	1 54 2 6	0 35 10 26	0 51 20 9	0 1 4 53	0 43 7 20	0 54 21 46	1 10 11 33	11 56 18 41	16 47 2 38				
T 4	7 3 17 44	4 56 2 58	4 1 12 37	1 59 2 22	0 34 10 22	0 51 20 8	0 2 4 53	0 43 7 20	0 54 21 46	1 10 11 32	11 54 18 40	16 47 2 38				
W 5	6 41 15 50	5 7 3 31	3 49 13 4	2 5 2 37	0 34 10 17	0 51 20 7	0 2 4 52	0 43 7 21	0 54 21 45	1 10 11 29	11 53 18 40	16 47 2 38				
T 6	6 19 13 14	5 4 4 5	3 35 13 31	2 11 2 53	0 33 10 12	0 51 20 5	0 2 4 51	0 43 7 22	0 54 21 45	1 11 11 27	11 52 18 39	16 46 2 39				
F 7	5 56 10 0	4 48 4 38	3 20 13 58	2 17 3 9	0 33 10 7	0 52 20 4	0 2 4 50	0 43 7 22	0 54 21 45	1 11 11 24	11 51 18 38	16 46 2 39				
S 8	5 34 6 17	4 17 5 12	3 3 14 24	2 22 3 25	0 32 10 3	0 52 20 3	0 2 4 49	0 43 7 23	0 54 21 45	1 11 11 21	11 50 18 38	16 46 2 39				
S 9	5 11 2 13	3 33 5 44	2 45 14 50	2 28 3 40	0 32 9 58	0 52 20 2	0 2 4 49	0 43 7 24	0 54 21 45	1 11 11 19	11 49 18 37	16 45 2 39				
M10	4 49 2s 2	2 37 6 15	2 26 15 16	2 34 3 56	0 31 9 53	0 52 20 0	0 2 4 48	0 43 7 24	0 54 21 45	1 11 11 17	11 48 18 36	16 45 2 40				
T 11	4 26 6 15	1 32 6 44	2 7 15 41	2 40 4 12	0 30 9 48	0 52 19 59	0 2 4 47	0 43 7 25	0 54 21 45	1 11 11 16	11 47 18 36	16 45 2 40				
W12	4 3 10 14	0 20 7 10	1 48 16 6	2 46 4 28	0 30 9 44	0 52 19 58	0 2 4 46	0 43 7 25	0 54 21 44	1 11 11 15	11 46 18 35	16 44 2 40				
T 13	3 40 13 43	0n53 7 33	1 28 16 31	2 52 4 43	0 29 9 39	0 52 19 57	0 2 4 45	0 43 7 26	0 54 21 44	1 11 11 15	11 44 18 34	16 44 2 40				
F 14	3 17 16 30	2 5 7 52	1 9 16 56	2 58 4 59	0 29 9 34	0 52 19 56	0 2 4 44	0 43 7 27	0 54 21 44	1 11 11 16	11 43 18 34	16 43 2 41				
S 15	2 54 18 19	3 10 8 8	0 50 17 20	3 4 5 15	0 28 9 30	0 52 19 54	0 3 4 44	0 43 7 27	0 54 21 44	1 11 11 16	11 42 18 33	16 43 2 41				
S 16	2 31 19 3	4 5 8 20	0 32 17 44	3 9 5 30	0 28 9 25	0 52 19 53	0 3 4 43	0 43 7 28	0 54 21 44	1 11 11 16	11 41 18 32	16 42 2 41				
M17	2 8 18 34	4 45 8 27	0 15 18 7	3 15 5 46	0 27 9 20	0 52 19 52	0 3 4 42	0 43 7 29	0 54 21 44	1 12 11 16	11 40 18 31	16 42 2 41				
T 18	1 45 16 56	5 7 8 31	0n 2 18 30	3 21 6 2	0 26 9 16	0 52 19 51	0 3 4 41	0 43 7 29	0 54 21 44	1 12 11 16	11 39 18 31	16 41 2 42				
W19	1 22 14 14	5 11 8 30	0 17 18 53	3 27 6 17	0 26 9 11	0 53 19 50	0 3 4 40	0 43 7 30	0 54 21 44	1 12 11 14	11 38 18 30	16 41 2 42				
T 20	0 58 10 41	4 55 8 25	0 32 19 15	3 33 6 33	0 25 9 6	0 53 19 49	0 3 4 39	0 43 7 30	0 54 21 44	1 12 11 13	11 37 18 29	16 41 2 42				
F 21	0 35 6 32	4 21 8 15	0 45 19 37	3 39 6 48	0 25 9 2	0 53 19 48	0 3 4 38	0 43 7 31	0 54 21 43	1 12 11 11	11 36 18 29	16 40 2 42				
S 22	0 12 2 5	3 32 8 2	0 57 19 59	3 44 7 4	0 24 8 57	0 53 19 47	0 3 4 37	0 43 7 32	0 54 21 43	1 12 11 10	11 34 18 28	16 39 2 43				
S 23	0s11 2n25	2 31 7 45	1 8 20 20	3 50 7 19	0 23 8 52	0 53 19 45	0 3 4 36	0 43 7 32	0 54 21 43	1 12 11 8	11 33 18 27	16 39 2 43				
M24	0 35 6 41	1 23 7 24	1 17 20 40	3 56 7 35	0 23 8 48	0 53 19 44	0 3 4 36	0 43 7 33	0 54 21 43	1 12 11 8	11 32 18 27	16 38 2 43				
T25	0 58 10 32	0 12 7 0	1 26 21 1	4 2 7 50	0 22 8 43	0 53 19 43	0 4 4 35	0 43 7 33	0 54 21 43	1 12 11 7	11 31 18 26	16 38 2 43				
W26	1 21 13 47	0s58 6 32	1 33 21 21	4 7 8 6	0 22 8 38	0 53 19 42	0 4 4 34	0 43 7 34	0 54 21 43	1 12 11 7	11 30 18 25	16 37 2 43				
T 27	1 45 16 19	2 4 6 2	1 39 21 40	4 13 8 21	0 21 8 34	0 53 19 41	0 4 4 33	0 43 7 35	0 54 21 43	1 12 11 8	11 29 18 24	16 37 2 44				
F 28	2 8 18 1	3 3 5 29	1 44 21 59	4 19 8 36	0 21 8 29	0 54 19 40	0 4 4 32	0 43 7 35	0 54 21 43	1 13 11 8	11 28 18 24	16 36 2 44				
S 29	2 31 18 53	3 52 4 54	1 48 22 17	4 24 8 51	0 20 8 25	0 54 19 39	0 4 4 31	0 43 7 36	0 54 21 43	1 13 11 9	11 27 18 23	16 35 2 44				
S 30	2s54 18n53	4s31 4n17	1n50 22s36	4s29 9s 7	0n19 8n20	0n54 19n38	0n 4 4n30	0s43 7s36	0s54 21n43	1n13 11s 9	11s26 18n22	16n35 2s44				

Julian Day Number = 2517897.5, Delta T = 146.13 sec  
 Ecliptic obliquity = 23°24'49, Nutation = 0°00'10, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°16'44, Lahiri = 26°23'45

# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

OCTOBER 2181

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 40 48	8♌18'36	10♍22	25♎12	22♏50	24♐58	11♑1	2♒37	13°R 3	12°R42	28♓5	29°R 9	29♊51	8♋29	26°R 1	M 1
T 2	0 44 45	9°17'31	22°16	26°56	23°36	25°38	11°13	2°41	13°Y 1	12°K41	28°5	29♌8	29°48	8°36	25♌59	T 2
W 3	0 48 41	10°16'28	4♌16	28°42	24°22	26°18	11°26	2°46	12°58	12°39	28°6	29°7	29°45	8°43	25°57	W 3
T 4	0 52 38	11°15'28	16°27	0♌28	25°7	26°58	11°38	2°50	12°56	12°38	28°7	29°4	29°41	8°49	25°55	T 4
F 5	0 56 34	12°14'30	28°51	2°15	25°51	27°38	11°50	2°55	12°53	12°36	28°7	29°2	29°38	8°56	25°53	F 5
S 6	1 0 31	13°13'34	11♎33	4°2	26°34	28°18	12°2	2°59	12°51	12°35	28°8	28°59	29°35	9°3	25°51	S 6
S 7	1 4 27	14°12'40	24°33	5°50	27°16	28°59	12°14	3°3	12°48	12°34	28°8	28°57	29°32	9°10	25°49	S 7
M 8	1 8 24	15°11'48	7♌51	7°37	27°57	29°39	12°26	3°7	12°46	12°32	28°9	28°56	29°29	9°16	25°47	M 8
T 9	1 12 20	16°10'59	21°26	9°25	28°37	0♌19	12°38	3°11	12°44	12°31	28°9	28°55	29°26	9°23	25°45	T 9
W10	1 16 17	17°10'11	5♏16	11°12	29°16	1°0	12°50	3°15	12°41	12°30	28°10	28°D55	29°22	9°30	25°43	W10
T 11	1 20 13	18°9'26	19°19	12°58	29°54	1°40	13°1	3°19	12°39	12°29	28°10	28°56	29°19	9°36	25°40	T 11
F 12	1 24 10	19°8'42	3♌29	14°44	0♌30	2°20	13°13	3°22	12°36	12°27	28°11	28°56	29°16	9°43	25°38	F 12
S 13	1 28 7	20°8'00	17°45	16°30	1°6	3°1	13°25	3°26	12°34	12°26	28°11	28°57	29°13	9°50	25°36	S 13
S 14	1 32 3	21°7'20	2♌2	18°15	1°40	3°42	13°36	3°29	12°32	12°25	28°11	28°58	29°10	9°57	25°33	S 14
M15	1 36 0	22°6'42	16°17	19°59	2°12	4°22	13°48	3°33	12°29	12°24	28°12	28°R58	29°7	10°3	25°31	M15
T 16	1 39 56	23°6'05	0♌28	21°43	2°43	5°3	13°59	3°36	12°27	12°22	28°12	28°58	29°3	10°10	25°28	T 16
W17	1 43 53	24°5'30	14°33	23°26	3°13	5°44	14°11	3°39	12°24	12°21	28°12	28°58	29°0	10°17	25°26	W17
T 18	1 47 49	25°4'57	28°29	25°8	3°41	6°24	14°22	3°42	12°22	12°20	28°13	28°58	28°57	10°23	25°23	T 18
F 19	1 51 46	26°4'25	12♌15	26°50	4°8	7°5	14°33	3°45	12°20	12°19	28°13	28°57	28°54	10°30	25°21	F 19
S 20	1 55 42	27°3'55	25°49	28°31	4°33	7°46	14°45	3°48	12°17	12°18	28°13	28°57	28°51	10°37	25°18	S 20
S 21	1 59 39	28°3'27	9♏11	0♌11	4°56	8°27	14°56	3°51	12°15	12°17	28°13	28°57	28°47	10°44	25°15	S 21
M22	2 3 36	29°3'01	22°18	1°51	5°17	9°8	15°7	3°54	12°13	12°16	28°14	28°57	28°44	10°50	25°13	M22
T 23	2 7 32	0♌237	5♌1	3°30	5°36	9°49	15°18	3°56	12°11	12°15	28°14	28°57	28°41	10°57	25°10	T 23
W24	2 11 29	1°2'15	17°49	5°9	5°54	10°30	15°29	3°59	12°8	12°14	28°14	28°57	28°38	11°4	25°7	W24
T 25	2 15 25	2°1'55	0♌13	6°46	6°10	11°11	15°40	4°1	12°6	12°13	28°14	28°56	28°35	11°10	25°4	T 25
F 26	2 19 22	3°1'37	12°25	8°24	6°23	11°52	15°50	4°4	12°4	12°12	28°14	28°56	28°32	11°17	25°2	F 26
S 27	2 23 18	4°1'22	24°28	10°0	6°35	12°33	16°1	4°6	12°2	12°11	28°14	28°55	28°28	11°24	24°59	S 27
S 28	2 27 15	5°1'08	6♌23	11°36	6°44	13°15	16°12	4°8	11°59	12°11	28°14	28°55	28°25	11°31	24°56	S 28
M29	2 31 11	6°0'57	18°15	13°12	6°51	13°56	16°22	4°10	11°57	12°10	28°R14	28°54	28°22	11°37	24°53	M29
T 30	2 35 8	7°0'48	0♌8	14°47	6°56	14°37	16°32	4°12	11°55	12°9	28°14	28°54	28°19	11°44	24°50	T 30
W31	2 39 5	8♏0'41	12♌7	16♏22	6♌59	15♏19	16♏43	4♌13	11°Y53	12°K 8	28♓14	28°D54	28♊16	11♋51	24♌47	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	3s18	18n 3	4s59	3n37	1n52	22s53	4s35	9s22	0n19	8n15	0n54	19n37	0n 4	4n29	0s43	7s37
T 2	3 41	16 26	5 13	2 57	1 53	23 10	4 40	9 37	0 18	8 11	0 54	19 36	0 4	4 28	0 43	7 37
W 3	4 4	14 5	5 14	2 15	1 53	23 27	4 45	9 52	0 18	8 6	0 54	19 35	0 4	4 27	0 43	7 38
T 4	4 27	11 6	5 1	1 32	1 53	23 43	4 50	10 7	0 17	8 2	0 54	19 34	0 4	4 26	0 43	7 38
F 5	4 50	7 35	4 34	0 49	1 51	23 59	4 55	10 22	0 16	7 57	0 54	19 34	0 4	4 25	0 43	7 39
S 6	5 13	3 38	3 53	0 4	1 49	24 14	5 0	10 37	0 16	7 53	0 54	19 33	0 5	4 24	0 43	7 40
S 7	5 36	0s34	2 59	0s41	1 47	24 29	5 5	10 52	0 15	7 48	0 55	19 32	0 5	4 23	0 43	7 40
M 8	5 59	4 51	1 54	1 26	1 44	24 43	5 10	11 6	0 15	7 44	0 55	19 31	0 5	4 22	0 43	7 41
T 9	6 22	8 59	0 41	2 11	1 40	24 56	5 14	11 21	0 14	7 39	0 55	19 30	0 5	4 21	0 43	7 41
W10	6 44	12 43	0n35	2 57	1 36	25 9	5 19	11 36	0 14	7 35	0 55	19 29	0 5	4 21	0 43	7 42
T 11	7 7	15 46	1 51	3 42	1 32	25 22	5 23	11 50	0 13	7 31	0 55	19 29	0 5	4 20	0 43	7 42
F 12	7 29	17 53	3 0	4 28	1 27	25 34	5 27	12 5	0 12	7 26	0 55	19 28	0 5	4 19	0 43	7 42
S 13	7 52	18 53	3 59	5 13	1 22	25 45	5 31	12 19	0 12	7 22	0 55	19 27	0 5	4 18	0 43	7 43
S 14	8 14	18 41	4 43	5 58	1 17	25 56	5 35	12 34	0 11	7 18	0 56	19 26	0 5	4 17	0 43	7 43
M15	8 36	17 18	5 9	6 42	1 11	26 6	5 39	12 48	0 11	7 13	0 56	19 26	0 6	4 16	0 43	7 44
T 16	8 58	14 52	5 17	7 27	1 5	26 16	5 42	13 2	0 10	7 9	0 56	19 25	0 6	4 15	0 43	7 44
W17	9 20	11 55	5 5	8 10	0 59	26 25	5 45	13 16	0 9	7 5	0 56	19 24	0 6	4 14	0 43	7 45
T 18	9 42	7 40	4 36	8 53	0 53	26 34	5 48	13 30	0 9	7 1	0 56	19 24	0 6	4 13	0 43	7 45
F 19	10 3	3 24	3 51	9 36	0 47	26 41	5 51	13 44	0 8	6 56	0 56	19 23	0 6	4 12	0 43	7 45
S 20	10 25	1n 0	2 54	10 18	0 41	26 49	5 53	13 58	0 8	6 52	0 56	19 23	0 6	4 11	0 43	7 46
S 21	10 46	5 17	1 48	11 0	0 34	26 55	5 56	14 12	0 7	6 48	0 57	19 22	0 6	4 11	0 43	7 46
M22	11 8	9 15	0 37	11 41	0 27	27 1	5 57	14 25	0 7	6 44	0 57	19 22	0 6	4 10	0 43	7 47
T 23	11 29	12 42	0s35	12 21	0 21	27 6	5 59	14 39	0 6	6 40	0 57	19 21	0 6	4 9	0 43	7 47
W24	11 49	15 29	1 43	13 0	0 14	27 11	6 0	14 52	0 5	6 36	0 57	19 21	0 6	4 8	0 43	7 47
T 25	12 10	17 29	2 45	13 39	0 7	27 14	6 1	15 6	0 5	6 32	0 57	19 20	0 7	4 7	0 43	7 48
F 26	12 30	18 39	3 39	14 17	0 0	27 17	6 2	15 19	0 4	6 28	0 57	19 20	0 7	4 6	0 43	7 48
S 27	12 51	18 57	4 22	14 54	0s 6	27 20	6 2	15 32	0 4	6 24	0 58	19 19	0 7	4 5	0 43	7 48
S 28	13 11	18 23	4 53	15 30	0 13	27 21	6 2	15 45	0 3	6 20	0 58	19 19	0 7	4 5	0 43	7 49
M29	13 31	17 2	5 11	16 6	0 20	27 21	6 1	15 58	0 2	6 16	0 58	19 19	0 7	4 4	0 43	7 49
T 30	13 50	14 56	5 17	16 41	0 27	27 21	6 0	16 11	0 2	6 12	0 58	19 18	0 7	4 3	0 43	7 49
W31	14s10	12n12	5s 9	17s15	0s33	27s20	5s58	16s23	0n 1	6n 8	0n58	19n18	0n 7	4n 2	0s43	7s50

Julian Day Number = 2517927.5, Delta T = 146.20 sec  
 Ecliptic obliquity = 23°24'49, Nutation = 0°00'08, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°16'48, Lahiri = 26°23'49

# ASTRODIENST EPHEMERIS for the year 2181

## geocentric

NOVEMBER 2181

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 43 1	9♉ 0'36	24♏16	17♉56	6°R59	16♉ 0	16♉53	4♏15	11°R51	12°R 7	28°R14	28♏54	28♏12	11♏57	24°R44	T 1
F 2	2 46 58	10° 0'33	6♏40	19°29	6♏57	16°42	17° 3	4°17	11°Y49	12°K 7	28♏14	28°55	28° 9	12° 4	24♏41	F 2
S 3	2 50 54	11° 0'33	19°22	21° 2	6°52	17°23	17°13	4°18	11°47	12° 6	28°14	28°56	28° 6	12°11	24°38	S 3
S 4	2 54 51	12° 0'34	2♏27	22°35	6°45	18° 5	17°23	4°19	11°45	12° 5	28°14	28°57	28° 3	12°18	24°35	S 4
M 5	2 58 47	13° 0'38	15°55	24° 7	6°36	18°47	17°33	4°21	11°43	12° 5	28°14	28°58	28° 0	12°24	24°32	M 5
T 6	3 2 44	14° 0'43	29°47	25°39	6°24	19°28	17°43	4°22	11°41	12° 4	28°13	28°R58	27°57	12°31	24°29	T 6
W 7	3 6 40	15° 0'51	13♉59	27°10	6°10	20°10	17°52	4°23	11°39	12° 4	28°13	28°58	27°53	12°38	24°26	W 7
T 8	3 10 37	16° 1'00	28°29	28°41	5°54	20°52	18° 2	4°24	11°37	12° 3	28°13	28°56	27°50	12°44	24°23	T 8
F 9	3 14 34	17° 1'12	13♏9	0♏12	5°35	21°34	18°11	4°24	11°35	12° 3	28°13	28°54	27°47	12°51	24°20	F 9
S 10	3 18 30	18° 1'25	27°52	1°42	5°14	22°16	18°20	4°25	11°33	12° 2	28°12	28°52	27°44	12°58	24°16	S 10
S 11	3 22 27	19° 1'39	12♏33	3°12	4°50	22°58	18°30	4°26	11°32	12° 2	28°12	28°49	27°41	13° 5	24°13	S 11
M12	3 26 23	20° 1'55	27° 4	4°41	4°25	23°40	18°39	4°26	11°30	12° 1	28°12	28°47	27°38	13°11	24°10	M12
T 13	3 30 20	21° 2'12	11♏21	6°10	3°58	24°22	18°48	4°26	11°28	12° 1	28°11	28°46	27°34	13°18	24° 7	T 13
W14	3 34 16	22° 2'31	25°22	7°38	3°28	25° 4	18°57	4°26	11°27	12° 1	28°11	28°D45	27°31	13°25	24° 4	W14
T 15	3 38 13	23° 2'51	9♏ 6	9° 6	2°58	25°46	19° 5	4°R27	11°25	12° 0	28°11	28°46	27°28	13°31	24° 1	T 15
F 16	3 42 9	24° 3'12	22°33	10°33	2°25	26°28	19°14	4°27	11°23	12° 0	28°10	28°48	27°25	13°38	23°58	F 16
S 17	3 46 6	25° 3'35	5°Y44	12° 0	1°52	27°11	19°23	4°26	11°22	12° 0	28°10	28°49	27°22	13°45	23°54	S 17
S 18	3 50 3	26° 3'59	18°42	13°26	1°17	27°53	19°31	4°26	11°20	12° 0	28° 9	28°51	27°18	13°52	23°51	S 18
M19	3 53 59	27° 4'24	1♏26	14°52	0°41	28°35	19°39	4°26	11°19	12° 0	28° 9	28°R51	27°15	13°58	23°48	M19
T 20	3 57 56	28° 4'51	13°59	16°17	0° 5	29°18	19°47	4°25	11°17	12° 0	28° 8	28°50	27°12	14° 5	23°45	T 20
W21	4 1 52	29° 5'20	26°22	17°41	29♉29	0♏ 0	19°55	4°25	11°16	11°59	28° 8	28°47	27° 9	14°12	23°42	W21
T 22	4 5 49	0♏5'50	8♏36	19° 4	28°52	0°43	20° 3	4°24	11°15	11°59	28° 7	28°43	27° 6	14°19	23°39	T 22
F 23	4 9 45	1° 6'22	20°41	20°26	28°16	1°26	20°11	4°23	11°13	11°D59	28° 6	28°38	27° 3	14°25	23°36	F 23
S 24	4 13 42	2° 6'55	2♏40	21°48	27°40	2° 8	20°19	4°22	11°12	11°59	28° 6	28°31	26°59	14°32	23°32	S 24
S 25	4 17 38	3° 7'30	14°33	23° 8	27° 4	2°51	20°26	4°21	11°11	11°59	28° 5	28°25	26°56	14°39	23°29	S 25
M26	4 21 35	4° 8'06	26°25	24°26	26°30	3°34	20°33	4°20	11°10	12° 0	28° 5	28°19	26°53	14°45	23°26	M26
T 27	4 25 32	5° 8'44	8♏17	25°43	25°57	4°16	20°41	4°19	11° 8	12° 0	28° 4	28°14	26°50	14°52	23°23	T 27
W28	4 29 28	6° 9'24	20°13	26°59	25°25	4°59	20°48	4°17	11° 7	12° 0	28° 3	28°11	26°47	14°59	23°20	W28
T 29	4 33 25	7°10'05	2♏19	28°12	24°55	5°42	20°55	4°16	11° 6	12° 0	28° 2	28°D 9	26°44	15° 6	23°17	T 29
F 30	4 37 21	8♏10'48	14♏38	29♏23	24♉26	6♏25	21♏ 2	4♏14	11°Y 5	12°K 0	28♏ 2	28♏ 9	26♏40	15♏12	23♏14	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	14s29	8n55	4s46	17s48	0s40	27s18	5s56	16s36	0n 1	6n 4	0n58	19n18	0n 7	4n 1	0s43	T 1
F 2	14 48	5 10	4 11	18 20	0 47	27 15	5 53	16 48	0s 0	6 1	0 59	19 17	0 7	4 1	0 43	F 2
S 3	15 7	1 6	3 22	18 51	0 53	27 11	5 50	17 1	0 1	5 57	0 59	19 17	0 8	4 0	0 43	S 3
S 4	15 25	3s 8	2 22	19 21	0 59	27 6	5 46	17 13	0 1	5 53	0 59	19 17	0 8	3 59	0 43	S 4
M 5	15 44	7 21	1 12	19 51	1 6	27 0	5 42	17 25	0 2	5 49	0 59	19 17	0 8	3 58	0 43	M 5
T 6	16 2	11 19	0n 4	20 19	1 12	26 53	5 37	17 37	0 2	5 46	0 59	19 17	0 8	3 57	0 43	T 6
W 7	16 19	14 43	1 22	20 46	1 18	26 45	5 31	17 49	0 3	5 42	1 0	19 16	0 8	3 57	0 43	W 7
T 8	16 37	17 16	2 36	21 13	1 24	26 35	5 25	18 1	0 4	5 39	1 0	19 16	0 8	3 56	0 43	T 8
F 9	16 54	18 43	3 40	21 38	1 30	26 25	5 18	18 12	0 4	5 35	1 0	19 16	0 8	3 55	0 43	F 9
S 10	17 11	18 54	4 30	22 2	1 35	26 14	5 10	18 24	0 5	5 32	1 0	19 16	0 8	3 55	0 43	S 10
S 11	17 28	17 48	5 2	22 25	1 41	26 1	5 2	18 35	0 5	5 28	1 0	19 16	0 8	3 54	0 43	S 11
M12	17 44	15 34	5 15	22 47	1 46	25 47	4 53	18 46	0 6	5 25	1 1	19 16	0 9	3 53	0 43	M12
T 13	18 0	12 26	5 7	23 8	1 51	25 33	4 43	18 57	0 7	5 22	1 1	19 16	0 9	3 53	0 43	T 13
W14	18 15	8 38	4 42	23 28	1 56	25 17	4 32	19 8	0 7	5 18	1 1	19 16	0 9	3 52	0 42	W14
T 15	18 31	4 26	4 0	23 47	2 1	25 0	4 21	19 18	0 8	5 15	1 1	19 16	0 9	3 52	0 42	T 15
F 16	18 46	0 6	3 6	24 4	2 5	24 42	4 10	19 29	0 8	5 12	1 1	19 17	0 9	3 51	0 42	F 16
S 17	19 1	4n10	2 4	24 20	2 9	24 23	3 57	19 39	0 9	5 9	1 2	19 17	0 9	3 50	0 42	S 17
S 18	19 15	8 10	0 55	24 35	2 13	24 3	3 45	19 49	0 10	5 6	1 2	19 17	0 9	3 50	0 42	S 18
M19	19 29	11 44	0s14	24 49	2 16	23 43	3 31	19 59	0 10	5 3	1 2	19 17	0 9	3 49	0 42	M19
T 20	19 43	14 43	1 22	25 1	2 20	23 22	3 17	20 9	0 11	5 0	1 2	19 17	0 10	3 49	0 42	T 20
W21	19 56	16 58	2 25	25 12	2 22	23 0	3 3	20 19	0 11	4 57	1 2	19 18	0 10	3 48	0 42	W21
T 22	20 9	18 25	3 20	25 22	2 25	22 37	2 48	20 28	0 12	4 54	1 3	19 18	0 10	3 48	0 42	T 22
F 23	20 22	19 0	4 6	25 31	2 27	22 15	2 34	20 38	0 13	4 51	1 3	19 18	0 10	3 47	0 42	F 23
S 24	20 34	18 43	4 40	25 38	2 28	21 52	2 18	20 47	0 13	4 48	1 3	19 18	0 10	3 47	0 42	S 24
S 25	20 46	17 37	5 2	25 43	2 30	21 29	2 3	20 56	0 14	4 45	1 3	19 19	0 10	3 46	0 42	S 25
M26	20 57	15 46	5 11	25 48	2 30	21 6	1 47	21 5	0 14	4 43	1 4	19 19	0 10	3 46	0 42	M26
T 27	21 8	13 15	5 6	25 51	2 30	20 43	1 32	21 13	0 15	4 40	1 4	19 20	0 10	3 45	0 42	T 27
W28	21 19	10 10	4 48	25 52	2 30	20 20	1 16	21 22	0 15	4 37	1 4	19 20	0 10	3 45	0 42	W28
T 29	21 29	6 38	4 17	25 53	2 29	19 57	1 1	21 30	0 16	4 35	1 4	19 21	0 11	3 45	0 42	T 29
F 30	21s39	2n45	3s34	25s52	2s27	19s36	0s45	21s38	0s17	4n32	1n 4	19n21	0n11	3n44	0s42	F 30

Julian Day Number = 2517958.5, Delta T = 146.28 sec

Ecliptic obliquity = 23°24'48", Nutation = 0°00'07", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°16'53", Lahiri = 26°23'53"

ASTRODIENST EPHEMERIS for the year 2181  
geocentric

DECEMBER 2181

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 41 18	9♂11'32	27♏15	0♂31	23°R59	7♂ 8	21♏ 8	4°R13	11°R 4	12♏ 1	28°R 1	28♏11	26♏37	15♏19	23°R11	S 1
S 2	4 45 14	10°12'18	10♏15	1°36	23♏35	7°51	21°15	4♏11	11°Y 3	12° 1	28♏ 0	28°12	26°34	15°26	23♏ 8	S 2
M 3	4 49 11	11°13'06	23°41	2°38	23°12	8°34	21°21	4° 9	11° 2	12° 1	27°59	28°R13	26°31	15°32	23° 5	M 3
T 4	4 53 7	12°13'55	7♏36	3°36	22°52	9°17	21°27	4° 7	11° 2	12° 2	27°58	28°13	26°28	15°39	23° 2	T 4
W 5	4 57 4	13°14'45	21°58	4°29	22°34	10° 1	21°33	4° 5	11° 1	12° 2	27°58	28°11	26°24	15°46	22°59	W 5
T 6	5 1 1	14°15'37	6♏43	5°17	22°19	10°44	21°39	4° 3	11° 0	12° 2	27°57	28° 6	26°21	15°53	22°56	T 6
F 7	5 4 57	15°16'29	21°45	5°59	22° 5	11°27	21°45	4° 0	10°59	12° 3	27°56	28° 0	26°18	15°59	22°53	F 7
S 8	5 8 54	16°17'23	6♏55	6°34	21°55	12°11	21°50	3°58	10°59	12° 3	27°55	27°52	26°15	16° 6	22°51	S 8
S 9	5 12 50	17°18'18	22° 1	7° 2	21°47	12°54	21°56	3°55	10°58	12° 4	27°54	27°44	26°12	16°13	22°48	S 9
M10	5 16 47	18°19'14	6♏55	7°22	21°41	13°37	22° 1	3°53	10°58	12° 4	27°53	27°37	26° 9	16°19	22°45	M10
T 11	5 20 43	19°20'10	21°29	7°32	21°38	14°21	22° 6	3°50	10°57	12° 5	27°52	27°32	26° 5	16°26	22°42	T 11
W12	5 24 40	20°21'07	5♏39	7°R32	21°D37	15° 5	22°11	3°47	10°57	12° 6	27°51	27°29	26° 2	16°33	22°40	W12
T 13	5 28 36	21°22'04	19°23	7°22	21°39	15°48	22°16	3°44	10°56	12° 6	27°50	27°D28	25°59	16°40	22°37	T 13
F 14	5 32 33	22°23'02	2°Y44	7° 0	21°43	16°32	22°21	3°41	10°56	12° 7	27°49	27°28	25°56	16°46	22°34	F 14
S 15	5 36 30	23°24'01	15°44	6°27	21°49	17°15	22°25	3°38	10°56	12° 8	27°48	27°29	25°53	16°53	22°32	S 15
S 16	5 40 26	24°25'00	28°27	5°43	21°58	17°59	22°29	3°35	10°56	12° 9	27°47	27°R30	25°50	17° 0	22°29	S 16
M17	5 44 23	25°26'00	10♏55	4°48	22° 9	18°43	22°33	3°32	10°55	12° 9	27°46	27°29	25°46	17° 7	22°27	M17
T 18	5 48 19	26°27'00	23°12	3°43	22°22	19°27	22°37	3°29	10°55	12°10	27°45	27°25	25°43	17°13	22°24	T 18
W19	5 52 16	27°28'01	5♏21	2°30	22°37	20°11	22°41	3°25	10°55	12°11	27°44	27°19	25°40	17°20	22°22	W19
T 20	5 56 12	28°29'03	17°24	1°11	22°54	20°55	22°45	3°22	10°D55	12°12	27°43	27°10	25°37	17°27	22°19	T 20
F 21	6 0 9	29°30'05	29°22	29♏48	23°14	21°39	22°48	3°18	10°55	12°13	27°42	26°59	25°34	17°33	22°17	F 21
S 22	6 4 5	0♂31'08	11♏16	28°25	23°35	22°23	22°51	3°14	10°55	12°14	27°41	26°47	25°30	17°40	22°15	S 22
S 23	6 8 2	1°32'11	23° 9	27° 5	23°58	23° 7	22°54	3°11	10°56	12°15	27°39	26°34	25°27	17°47	22°12	S 23
M24	6 11 59	2°33'15	5♏ 1	25°49	24°23	23°51	22°57	3° 7	10°56	12°16	27°38	26°21	25°24	17°54	22°10	M24
T 25	6 15 55	3°34'20	16°54	24°40	24°50	24°35	23° 0	3° 3	10°56	12°17	27°37	26°10	25°21	18° 0	22° 8	T 25
W26	6 19 52	4°35'25	28°51	23°40	25°18	25°19	23° 2	2°59	10°56	12°18	27°36	26° 2	25°18	18° 7	22° 6	W26
T 27	6 23 48	5°36'31	10♏56	22°50	25°48	26° 4	23° 4	2°55	10°57	12°19	27°35	25°57	25°15	18°14	22° 4	T 27
F 28	6 27 45	6°37'37	23°12	22°10	26°20	26°48	23° 7	2°51	10°57	12°20	27°34	25°54	25°11	18°21	22° 2	F 28
S 29	6 31 41	7°38'44	5♏43	21°41	26°53	27°32	23° 8	2°47	10°57	12°22	27°32	25°D53	25° 8	18°27	22° 0	S 29
S 30	6 35 38	8°39'52	18°36	21°23	27°28	28°17	23°10	2°42	10°58	12°23	27°31	25°R53	25° 5	18°34	21°58	S 30
M31	6 39 34	9♂41'00	1♏53	21°D15	28♏ 4	29♏ 1	23♏12	2♏38	10°Y58	12°Y24	27♏30	25♏53	25♏ 2	18♏41	21♏56	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
S 1	21s48	1s21	2s40	25s49	2s24	19s14	0s30	21s46	0s17	4n30	1n 5	19n22	0n11	3n44	0s42	7s52	0s53	21n49	1n19	10s49	10s15	17n31	15n45	2s53	
S 2	21 57	5 32	1 36	25 45	2 21	18 54	0 15	21 53	0 18	4 28	1 5	19 22	0 11	3 44	0 42	7 52	0 53	21 49	1 19	10 49	10 14	17 30	15 44	2 53	
M 3	22 6	9 34	0 25	25 40	2 17	18 34	0 1	22 1	0 18	4 25	1 5	19 23	0 11	3 43	0 42	7 52	0 53	21 50	1 19	10 50	10 13	17 29	15 44	2 53	
T 4	22 14	13 14	0n51	25 34	2 12	18 15	0n14	22 8	0 19	4 23	1 5	19 23	0 11	3 43	0 42	7 51	0 53	21 50	1 19	10 50	10 12	17 28	15 43	2 53	
W 5	22 22	16 14	2 5	25 26	2 6	17 57	0 28	22 15	0 20	4 21	1 6	19 24	0 11	3 43	0 42	7 51	0 53	21 50	1 19	10 49	10 11	17 28	15 42	2 53	
T 6	22 29	18 15	3 13	25 17	1 58	17 40	0 41	22 22	0 20	4 19	1 6	19 25	0 11	3 43	0 42	7 51	0 53	21 50	1 19	10 47	10 10	17 27	15 41	2 53	
F 7	22 36	19 2	4 8	25 7	1 50	17 24	0 55	22 28	0 21	4 17	1 6	19 25	0 12	3 42	0 42	7 51	0 53	21 51	1 19	10 45	10 8	17 26	15 41	2 53	
S 8	22 42	18 27	4 47	24 55	1 41	17 8	1 7	22 35	0 21	4 15	1 6	19 26	0 12	3 42	0 42	7 51	0 53	21 51	1 19	10 42	10 7	17 25	15 40	2 53	
S 9	22 48	16 35	5 5	24 43	1 30	16 54	1 20	22 41	0 22	4 13	1 7	19 27	0 12	3 42	0 42	7 50	0 53	21 51	1 19	10 39	10 6	17 24	15 39	2 53	
M10	22 54	13 38	5 5	24 30	1 18	16 42	1 32	22 47	0 23	4 11	1 7	19 27	0 12	3 42	0 42	7 50	0 53	21 52	1 19	10 37	10 5	17 23	15 39	2 53	
T 11	22 59	9 53	4 41	24 16	1 4	16 30	1 43	22 53	0 23	4 9	1 7	19 28	0 12	3 42	0 42	7 50	0 53	21 52	1 20	10 35	10 4	17 22	15 38	2 53	
W12	23 4	5 41	4 2	24 1	0 49	16 19	1 54	22 58	0 24	4 8	1 7	19 29	0 12	3 41	0 42	7 50	0 53	21 52	1 20	10 34	10 3	17 21	15 37	2 53	
T 13	23 8	1 17	3 10	23 46	0 33	16 9	2 4	23 4	0 24	4 6	1 8	19 30	0 12	3 41	0 41	7 49	0 53	21 52	1 20	10 34	10 2	17 20	15 36	2 53	
F 14	23 12	3n 4	2 9	23 29	0 16	16 1	2 14	23 9	0 25	4 5	1 8	19 30	0 12	3 41	0 41	7 49	0 53	21 53	1 20	10 34	10 0	17 19	15 36	2 53	
S 15	23 15	7 9	1 3	23 13	0n 3	15 53	2 24	23 14	0 26	4 3	1 8	19 31	0 13	3 41	0 41	7 49	0 53	21 53	1 20	10 34	9 59	17 18	15 35	2 53	
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M31	23s 4	11s37	0n32	20s 8	3n 0	15s51	3n57	23s59	0s35	3n49	1n13	19n47	0n14	3n43	0s41	7s42	0s52	21n58	1n21	9s59	9s41	17n 3	15n27	2s53	