



# Astrodienst Ephemeris Tables for the year 1879

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 1879  
geocentric

JANUARY 1879

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	6 41 5	10 <sup>3</sup> 15'01	14 <sup>4</sup> 47	27°R33	16 <sup>3</sup> 33	5 <sup>2</sup> 16	10 <sup>3</sup> 30	27 <sup>4</sup> 4	4°R 1	7°R 5	24°R45	4°R19	5 <sup>2</sup> 19	19 <sup>4</sup> 52	3°R55	W 1
T 2	6 45 2	11°16'10	26°40	26 <sup>2</sup> 51	17°48	5°58	10°43	27° 8	4 <sup>4</sup> 0	7 <sup>4</sup> 5	24 <sup>4</sup> 44	4 <sup>4</sup> 18	5°16	19°58	3 <sup>4</sup> 54	T 2
F 3	6 48 58	12°17'20	8 <sup>3</sup> 36	26°19	19° 4	6°40	10°57	27°11	3°58	7° 4	24°44	4°16	5°13	20° 5	3°53	F 3
S 4	6 52 55	13°18'29	20°41	25°57	20°19	7°21	11°10	27°15	3°57	7° 4	24°43	4°13	5° 9	20°12	3°53	S 4
S 5	6 56 52	14°19'37	2 <sup>11</sup> 58	25°46	21°34	8° 3	11°23	27°19	3°56	7° 3	24°42	4° 9	5° 6	20°18	3°52	S 5
M 6	7 0 48	15°20'46	15°29	25°D43	22°50	8°45	11°37	27°22	3°54	7° 3	24°42	4° 6	5° 3	20°25	3°52	M 6
T 7	7 4 45	16°21'54	28°17	25°50	24° 5	9°27	11°51	27°26	3°53	7° 2	24°41	4° 4	5° 0	20°32	3°51	T 7
W 8	7 8 41	17°23'02	11 <sup>11</sup> 32	26° 4	25°21	10° 9	12° 4	27°30	3°51	7° 2	24°40	4° 2	4°57	20°39	3°51	W 8
T 9	7 12 38	18°24'10	24°42	26°26	26°36	10°51	12°18	27°34	3°50	7° 2	24°40	4° 1	4°54	20°45	3°51	T 9
F 10	7 16 34	19°25'17	8 <sup>4</sup> 17	26°54	27°51	11°33	12°32	27°38	3°48	7° 1	24°39	4°D 0	4°50	20°52	3°50	F 10
S 11	7 20 31	20°26'24	22° 5	27°29	29° 7	12°15	12°45	27°43	3°46	7° 1	24°38	4° 1	4°47	20°59	3°50	S 11
S 12	7 24 28	21°27'31	6 <sup>11</sup> 2	28° 9	0 <sup>2</sup> 22	12°57	12°59	27°47	3°45	7° 1	24°38	4° 2	4°44	21° 6	3°50	S 12
M13	7 28 24	22°28'38	20° 7	28°54	1°37	13°39	13°13	27°51	3°43	7° 1	24°37	4° 3	4°41	21°12	3°D50	M13
T 14	7 32 21	23°29'44	4 <sup>11</sup> 16	29°43	2°53	14°21	13°27	27°56	3°41	7° 1	24°37	4° 4	4°38	21°19	3°50	T 14
W15	7 36 17	24°30'51	18°27	0 <sup>3</sup> 36	4° 8	15° 3	13°41	28° 1	3°39	7° 1	24°36	4°R 4	4°35	21°26	3°50	W15
T 16	7 40 14	25°31'57	2 <sup>11</sup> 38	1°33	5°23	15°45	13°55	28° 5	3°37	7° 0	24°36	4° 4	4°31	21°32	3°50	T 16
F 17	7 44 10	26°33'03	16°47	2°33	6°39	16°27	14° 9	28°10	3°36	7°D 0	24°35	4° 4	4°28	21°39	3°50	F 17
S 18	7 48 7	27°34'09	0 <sup>2</sup> 52	3°36	7°54	17° 9	14°23	28°15	3°34	7° 0	24°35	4° 3	4°25	21°46	3°51	S 18
S 19	7 52 3	28°35'14	14°50	4°41	9° 9	17°52	14°37	28°20	3°32	7° 1	24°35	4° 2	4°22	21°53	3°51	S 19
M20	7 56 0	29°36'19	28°38	5°49	10°25	18°34	14°51	28°25	3°30	7° 1	24°34	4° 2	4°19	21°59	3°51	M20
T 21	7 59 57	0 <sup>2</sup> 37'24	12 <sup>3</sup> 15	6°59	11°40	19°16	15° 5	28°30	3°28	7° 1	24°34	4° 1	4°15	22° 6	3°52	T 21
W22	8 3 53	1°38'28	25°38	8°11	12°55	19°59	15°19	28°35	3°26	7° 1	24°33	4° 1	4°12	22°13	3°52	W22
T 23	8 7 50	2°39'31	8 <sup>2</sup> 45	9°25	14°11	20°41	15°33	28°40	3°23	7° 1	24°33	4°D 1	4° 9	22°19	3°53	T 23
F 24	8 11 46	3°40'33	21°37	10°40	15°26	21°23	15°48	28°45	3°21	7° 1	24°33	4°R 1	4° 6	22°26	3°53	F 24
S 25	8 15 43	4°41'34	4 <sup>1</sup> 12	11°57	16°41	22° 6	16° 2	28°51	3°19	7° 1	24°32	4° 1	4° 3	22°33	3°54	S 25
S 26	8 19 39	5°42'34	16°33	13°15	17°56	22°48	16°16	28°56	3°17	7° 2	24°32	4° 1	4° 0	22°40	3°55	S 26
M27	8 23 36	6°43'34	28°42	14°34	19°11	23°31	16°30	29° 1	3°15	7° 2	24°32	4° 1	3°56	22°46	3°56	M27
T 28	8 27 32	7°44'32	10 <sup>1</sup> 41	15°55	20°27	24°13	16°45	29° 7	3°12	7° 2	24°32	4° 0	3°53	22°53	3°56	T 28
W29	8 31 29	8°45'28	22°34	17°17	21°42	24°56	16°59	29°13	3°10	7° 3	24°31	4° 0	3°50	23° 0	3°57	W29
T 30	8 35 26	9°46'24	4 <sup>2</sup> 27	18°40	22°57	25°38	17°13	29°18	3° 8	7° 3	24°31	4°D 0	3°47	23° 6	3°58	T 30
F 31	8 39 22	10 <sup>2</sup> 47'18	16 <sup>3</sup> 22	20 <sup>3</sup> 4	24 <sup>2</sup> 12	26 <sup>2</sup> 21	17 <sup>2</sup> 27	29 <sup>4</sup> 24	3 <sup>11</sup> 5	7 <sup>4</sup> 4	24 <sup>4</sup> 31	4 <sup>2</sup> 0	3 <sup>2</sup> 44	23 <sup>4</sup> 13	3 <sup>4</sup> 59	F 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
W 1	23s 4	10n23	4n56	20s14	3n12	23s21	0s56	21s 6	0n 6	18s16	0s41	3s17	2s18	10n46	0n47	12n11	1s49	5n19	14s 3	19s12	18s57	12n22	11n52	1s 1		
T 2	22 59	15 7	5 12	20 13	3 13	23 13	0 57	21 14	0 5	18 13	0 41	3 15	2 18	10 47	0 47	12 11	1 48	5 19	14 3	19 12	18 58	12 24	11 52	1 1		
F 3	22 53	19 19	5 14	20 13	3 11	23 5	0 59	21 22	0 5	18 9	0 41	3 13	2 18	10 47	0 47	12 10	1 48	5 19	14 3	19 12	18 59	12 27	11 52	1 1		
S 4	22 47	22 47	5 2	20 15	3 8	22 55	1 1	21 29	0 4	18 5	0 41	3 12	2 17	10 48	0 47	12 10	1 48	5 19	14 2	19 13	19 0	12 30	11 52	1 1		
S 5	22 41	25 16	4 36	20 19	3 4	22 46	1 3	21 37	0 3	18 2	0 41	3 10	2 17	10 48	0 47	12 10	1 48	5 19	14 2	19 14	19 0	12 33	11 51	1 1		
M 6	22 34	26 35	3 56	20 25	2 58	22 35	1 5	21 44	0 3	17 58	0 41	3 8	2 17	10 49	0 47	12 10	1 48	5 19	14 2	19 15	19 1	12 35	11 51	1 1		
T 7	22 27	26 31	3 5	20 32	2 52	22 24	1 6	21 51	0 2	17 54	0 41	3 7	2 17	10 49	0 47	12 10	1 48	5 19	14 2	19 15	19 2	12 38	11 51	1 1		
W 8	22 20	25 0	2 2	20 40	2 44	22 12	1 8	21 58	0 1	17 50	0 41	3 5	2 17	10 50	0 47	12 10	1 48	5 19	14 1	19 16	19 3	12 41	11 51	1 1		
T 9	22 11	22 2	0 51	20 48	2 36	21 59	1 9	22 4	0 1	17 47	0 41	3 3	2 16	10 51	0 47	12 10	1 48	5 19	14 1	19 16	19 3	12 44	11 51	1 1		
F 10	22 3	17 50	0s24	20 57	2 28	21 46	1 11	22 11	0 0	17 43	0 41	3 1	2 16	10 51	0 47	12 10	1 48	5 20	14 1	19 16	19 4	12 46	11 51	1 1		
S 11	21 54	12 36	1 38	21 7	2 19	21 32	1 12	22 17	0s 1	17 39	0 41	2 59	2 16	10 52	0 47	12 10	1 48	5 20	14 1	19 16	19 5	12 49	11 51	1 1		
S 12	21 45	6 42	2 48	21 17	2 10	21 17	1 14	22 23	0 1	17 35	0 41	2 58	2 16	10 53	0 47	12 10	1 48	5 20	14 0	19 16	19 6	12 52	11 50	1 1		
M13	21 35	0 25	3 48	21 27	2 0	21 2	1 15	22 29	0 2	17 31	0 41	2 56	2 16	10 53	0 47	12 10	1 48	5 20	14 0	19 15	19 6	12 55	11 50	1 1		
T 14	21 25	5s54	4 35	21 37	1 51	20 46	1 16	22 35	0 3	17 27	0 41	2 54	2 16	10 54	0 47	12 10	1 48	5 20	14 0	19 15	19 7	12 57	11 50	1 1		
W15	21 14	11 56	5 5	21 46	1 41	20 30	1 18	22 40	0 3	17 23	0 41	2 52	2 15	10 55	0 47	12 10	1 48	5 20	14 0	19 15	19 8	13 0	11 50	1 1		
T 16	21 3	17 21	5 17	21 55	1 31	20 13	1 19	22 46	0 4	17 19	0 41	2 50	2 15	10 55	0 47	12 10	1 48	5 20	13 59	19 15	19 9	13 3	11 50	1 2		
F 17	20 52	21 48	5 9	22 4	1 22	19 55	1 20	22 51	0 5	17 15	0 41	2 48	2 15	10 56	0 47	12 10	1 48	5 21	13 59	19 15	19 9	13 6	11 50	1 2		
S 18	20 40	24 57	4 43	22 12	1 12	19 37	1 21	22 56	0 6	17 11	0 41	2 46	2 15	10 57	0 47	12 10	1 47	5 21	13 59	19 15	19 10	13 8	11 51	1 2		
S 19	20 28	26 34	4 0	22 20	1 3	19 18	1 22	23 0	0 6	17 7	0 41	2 43	2 15	10 58	0 48	12 10	1 47	5 21	13 58	19 16	19 11	13 11	11 51	1 2		
M20	20 15	26 31	3 4	22 27	0 53	18 59	1 23	23 5	0 7	17 3	0 41	2 41	2 15	10 58	0 48	12 10	1 47	5 21	13 58	19 16	19 12	13 14	11 51	1 2		
T 21	20 2	24 51	1 58	22 33	0 44	18 39	1 24	23 9	0 8	16 59	0 41	2 39	2 14	10 59	0 48	12 10	1 47	5 21	13 58	19 16	19 12	13 16	11 51	1 2		
W22	19 49	21 48	0 46	22 38	0 35	18 18	1 25	23 13	0 9	16 55	0 41	2 37	2 14	11 0	0 48	12 11	1 47	5 22	13 57	19 16	19 13	13 19	11 51	1 2		
T 23	19 35	17 40	0n26	22 42	0 26	17 57	1 26	23 17	0 9	16 51	0 42	2 35	2 14	11 1	0 48	12 11	1 47	5 22	13 57	19 16	19 14	13 22	11 51	1 2		
F 24	19 21	12 48	1 36	22 45	0 17	17 36	1 26	23 21	0 10	16 46	0 42	2 33	2 14	11 1	0 48	12 11	1 47	5 22	13 57	19 16	19 15	13 25	11 51	1 2		
S 25	19 6	7 30	2 40	22 47	0 8	17 14	1 27	23 24	0 11	16 42	0 42	2 30	2 14	11 2	0 48	12 11	1 47	5 22	13 57	19 16	19 15	13 27	11 52	1 2		
S 26	18 51	2 1	3 35	22 48	0s 0	16 51	1 28	23 27	0 11	16 38	0 42	2 28	2 14	11 3	0 48	12 11	1 47	5 23	13 56	19 16	19 16	13 30	11 52	1 2		
M27	18 36	3n26	4 19	22 48	0 8	16 28	1 28	23 30	0 12	16 34	0 42	2 26	2 13	11 4	0 48	12 11	1 47	5 23	13 56	19 16	19 17	13 33	11 52	1 2		
T 28	18 21	8 42	4 51	22 47	0 17	16 5	1 29	23 33	0 13	16 30	0 42	2 23	2 13	11 5	0 48	12 11	1 47	5 23	13 56	19 16	19 18	13 35	11 52	1 2		
W29	18 5	13 35	5 11	22 44	0 24	15 41	1 29	23 35	0 14	16 25	0 42	2 21	2 13	11 6	0 48	12 12	1 47	5 23	13 55	19 16	19 18	13 38	11 53	1 2		
T 30	17 49	17 59	5 17	22 41	0 32	15 17	1 29	23 38	0 15	16 21	0 42	2 19	2 13	11 6	0 48	12 12	1 47	5 24	13 55	19 16	19 19	13 41	11 53	1 2		
F 31	17s32	21n41	5n10	22s36	0s39	14s52	1s30	23s40	0s15	16s17	0s42	2s16	2s13	11n 7	0n48	12n12	1s47	5n24	13s55	19s16	19s20	13n43	11n53	1s 2		

# ASTRODIENST EPHEMERIS for the year 1879

## geocentric

FEBRUARY 1879

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 43 19	11 <sup>48</sup> 11	28 <sup>8</sup> 26	21 <sup>3</sup> 29	25 <sup>28</sup> 27	27 <sup>27</sup> 4	17 <sup>42</sup> 42	29 <sup>30</sup> 30	3 <sup>R</sup> 3	7 <sup>8</sup> 4	24 <sup>R</sup> 31	4 <sup>0</sup> 0	3 <sup>41</sup> 41	23 <sup>20</sup> 20	4 <sup>8</sup> 1	S 1
S 2	8 47 15	12 <sup>49</sup> 03	10 <sup>II</sup> 42	22 <sup>55</sup>	26 <sup>42</sup>	27 <sup>46</sup>	17 <sup>56</sup>	29 <sup>36</sup>	3 <sup>1</sup> 1	7 <sup>5</sup> 5	24 <sup>8</sup> 31	4 <sup>1</sup> 1	3 <sup>37</sup>	23 <sup>27</sup>	4 <sup>2</sup> 2	S 2
M 3	8 51 12	13 <sup>49</sup> 53	23 <sup>15</sup>	24 <sup>21</sup>	27 <sup>57</sup>	28 <sup>29</sup>	18 <sup>10</sup>	29 <sup>42</sup>	2 <sup>58</sup>	7 <sup>5</sup> 5	24 <sup>31</sup>	4 <sup>2</sup> 2	3 <sup>34</sup>	23 <sup>33</sup>	4 <sup>3</sup> 3	M 3
T 4	8 55 8	14 <sup>50</sup> 42	6 <sup>8</sup> 8	25 <sup>49</sup>	29 <sup>12</sup>	29 <sup>12</sup>	18 <sup>25</sup>	29 <sup>48</sup>	2 <sup>56</sup>	7 <sup>6</sup> 6	24 <sup>31</sup>	4 <sup>3</sup> 3	3 <sup>31</sup>	23 <sup>40</sup>	4 <sup>4</sup> 4	T 4
W 5	8 59 5	15 <sup>51</sup> 30	19 <sup>22</sup>	27 <sup>18</sup>	0 <sup>28</sup> 12	29 <sup>54</sup>	18 <sup>39</sup>	29 <sup>54</sup>	2 <sup>53</sup>	7 <sup>7</sup> 7	24 <sup>31</sup>	4 <sup>4</sup> 4	3 <sup>28</sup>	23 <sup>47</sup>	4 <sup>6</sup> 6	W 5
T 6	9 3 1	16 <sup>52</sup> 16	2 <sup>8</sup> 29	28 <sup>47</sup>	1 <sup>43</sup>	0 <sup>37</sup> 37	18 <sup>54</sup>	29 <sup>59</sup>	2 <sup>51</sup>	7 <sup>7</sup> 7	24 <sup>30</sup>	4 <sup>R</sup> 4	3 <sup>25</sup>	23 <sup>54</sup>	4 <sup>7</sup> 7	T 6
F 7	9 6 58	17 <sup>53</sup> 01	16 <sup>57</sup>	0 <sup>18</sup> 18	2 <sup>58</sup>	1 <sup>20</sup>	19 <sup>8</sup>	0 <sup>6</sup> 6	2 <sup>48</sup>	7 <sup>8</sup> 8	24 <sup>D</sup> 30	4 <sup>4</sup> 4	3 <sup>21</sup>	24 <sup>0</sup>	4 <sup>8</sup> 8	F 7
S 8	9 10 55	18 <sup>53</sup> 45	1 <sup>13</sup> 13	1 <sup>49</sup>	4 <sup>12</sup>	2 <sup>3</sup>	19 <sup>22</sup>	0 <sup>12</sup>	2 <sup>46</sup>	7 <sup>9</sup> 9	24 <sup>30</sup>	4 <sup>3</sup> 3	3 <sup>18</sup>	24 <sup>7</sup>	4 <sup>10</sup> 10	S 8
S 9	9 14 51	19 <sup>54</sup> 27	15 <sup>40</sup>	3 <sup>21</sup>	5 <sup>27</sup>	2 <sup>46</sup>	19 <sup>37</sup>	0 <sup>18</sup>	2 <sup>43</sup>	7 <sup>9</sup> 9	24 <sup>30</sup>	4 <sup>1</sup> 1	3 <sup>15</sup>	24 <sup>14</sup>	4 <sup>11</sup> 11	S 9
M10	9 18 48	20 <sup>55</sup> 08	0 <sup>15</sup> 15	4 <sup>54</sup>	6 <sup>42</sup>	3 <sup>29</sup>	19 <sup>51</sup>	0 <sup>25</sup>	2 <sup>41</sup>	7 <sup>10</sup> 10	24 <sup>31</sup>	3 <sup>59</sup>	3 <sup>12</sup>	24 <sup>20</sup>	4 <sup>13</sup> 13	M10
T 11	9 22 44	21 <sup>55</sup> 48	14 <sup>49</sup>	6 <sup>27</sup>	7 <sup>57</sup>	4 <sup>12</sup>	20 <sup>5</sup>	0 <sup>31</sup>	2 <sup>38</sup>	7 <sup>11</sup> 11	24 <sup>31</sup>	3 <sup>56</sup>	3 <sup>9</sup>	24 <sup>27</sup>	4 <sup>15</sup> 15	T 11
W12	9 26 41	22 <sup>56</sup> 27	29 <sup>18</sup>	8 <sup>2</sup>	9 <sup>12</sup>	4 <sup>55</sup>	20 <sup>20</sup>	0 <sup>38</sup>	2 <sup>36</sup>	7 <sup>12</sup> 12	24 <sup>31</sup>	3 <sup>54</sup>	3 <sup>6</sup>	24 <sup>34</sup>	4 <sup>16</sup> 16	W12
T 13	9 30 37	23 <sup>57</sup> 04	13 <sup>37</sup> 37	9 <sup>37</sup>	10 <sup>27</sup>	5 <sup>38</sup>	20 <sup>34</sup>	0 <sup>44</sup>	2 <sup>33</sup>	7 <sup>13</sup> 13	24 <sup>31</sup>	3 <sup>53</sup>	3 <sup>2</sup>	24 <sup>41</sup>	4 <sup>18</sup> 18	T 13
F 14	9 34 34	24 <sup>57</sup> 41	27 <sup>44</sup>	11 <sup>14</sup>	11 <sup>42</sup>	6 <sup>21</sup>	20 <sup>48</sup>	0 <sup>51</sup>	2 <sup>30</sup>	7 <sup>14</sup> 14	24 <sup>31</sup>	3 <sup>D</sup> 53	2 <sup>59</sup>	24 <sup>47</sup>	4 <sup>20</sup> 20	F 14
S 15	9 38 30	25 <sup>58</sup> 16	11 <sup>36</sup> 36	12 <sup>51</sup>	12 <sup>57</sup>	7 <sup>4</sup>	21 <sup>3</sup>	0 <sup>57</sup>	2 <sup>28</sup>	7 <sup>15</sup> 15	24 <sup>31</sup>	3 <sup>54</sup>	2 <sup>56</sup>	24 <sup>54</sup>	4 <sup>22</sup> 22	S 15
S 16	9 42 27	26 <sup>58</sup> 51	25 <sup>14</sup>	14 <sup>29</sup>	14 <sup>11</sup>	7 <sup>47</sup>	21 <sup>17</sup>	1 <sup>4</sup>	2 <sup>25</sup>	7 <sup>16</sup> 16	24 <sup>31</sup>	3 <sup>55</sup>	2 <sup>53</sup>	25 <sup>1</sup>	4 <sup>24</sup> 24	S 16
M17	9 46 24	27 <sup>59</sup> 24	8 <sup>37</sup> 37	16 <sup>8</sup>	15 <sup>26</sup>	8 <sup>30</sup>	21 <sup>31</sup>	1 <sup>10</sup>	2 <sup>23</sup>	7 <sup>17</sup> 17	24 <sup>31</sup>	3 <sup>56</sup>	2 <sup>50</sup>	25 <sup>7</sup>	4 <sup>26</sup> 26	M17
T 18	9 50 20	28 <sup>59</sup> 56	21 <sup>48</sup>	17 <sup>47</sup>	16 <sup>41</sup>	9 <sup>13</sup>	21 <sup>46</sup>	1 <sup>17</sup>	2 <sup>20</sup>	7 <sup>18</sup> 18	24 <sup>32</sup>	3 <sup>58</sup>	2 <sup>47</sup>	25 <sup>14</sup>	4 <sup>28</sup> 28	T 18
W19	9 54 17	0 <sup>26</sup> 26	4 <sup>36</sup> 36	19 <sup>28</sup>	17 <sup>56</sup>	9 <sup>56</sup>	22 <sup>0</sup>	1 <sup>24</sup>	2 <sup>17</sup>	7 <sup>19</sup> 19	24 <sup>32</sup>	3 <sup>R</sup> 58	2 <sup>43</sup>	25 <sup>21</sup>	4 <sup>30</sup> 30	W19
T 20	9 58 13	1 <sup>0</sup> 55	17 <sup>31</sup>	21 <sup>10</sup>	19 <sup>10</sup>	10 <sup>39</sup>	22 <sup>14</sup>	1 <sup>31</sup>	2 <sup>15</sup>	7 <sup>20</sup> 20	24 <sup>32</sup>	3 <sup>58</sup>	2 <sup>40</sup>	25 <sup>28</sup>	4 <sup>32</sup> 32	T 20
F 21	10 2 10	2 <sup>1</sup> 22	0 <sup>5</sup> 5	22 <sup>52</sup>	20 <sup>25</sup>	11 <sup>22</sup>	22 <sup>29</sup>	1 <sup>37</sup>	2 <sup>12</sup>	7 <sup>21</sup> 21	24 <sup>32</sup>	3 <sup>55</sup>	2 <sup>37</sup>	25 <sup>34</sup>	4 <sup>34</sup> 34	F 21
S 22	10 6 6	3 <sup>1</sup> 47	12 <sup>28</sup>	24 <sup>36</sup>	21 <sup>40</sup>	12 <sup>6</sup>	22 <sup>43</sup>	1 <sup>44</sup>	2 <sup>9</sup>	7 <sup>22</sup> 22	24 <sup>33</sup>	3 <sup>52</sup>	2 <sup>34</sup>	25 <sup>41</sup>	4 <sup>37</sup> 37	S 22
S 23	10 10 3	4 <sup>2</sup> 11	24 <sup>42</sup>	26 <sup>21</sup>	22 <sup>54</sup>	12 <sup>49</sup>	22 <sup>57</sup>	1 <sup>51</sup>	2 <sup>7</sup>	7 <sup>23</sup> 23	24 <sup>33</sup>	3 <sup>47</sup>	2 <sup>31</sup>	25 <sup>48</sup>	4 <sup>39</sup> 39	S 23
M24	10 13 59	5 <sup>2</sup> 33	6 <sup>46</sup> 46	28 <sup>6</sup>	24 <sup>9</sup>	13 <sup>32</sup>	23 <sup>11</sup>	1 <sup>58</sup>	2 <sup>4</sup>	7 <sup>25</sup> 25	24 <sup>33</sup>	3 <sup>41</sup>	2 <sup>27</sup>	25 <sup>55</sup>	4 <sup>41</sup> 41	M24
T 25	10 17 56	6 <sup>2</sup> 53	18 <sup>43</sup>	29 <sup>53</sup>	25 <sup>24</sup>	14 <sup>15</sup>	23 <sup>26</sup>	2 <sup>5</sup>	2 <sup>1</sup>	7 <sup>26</sup> 26	24 <sup>34</sup>	3 <sup>35</sup>	2 <sup>24</sup>	26 <sup>1</sup>	4 <sup>44</sup> 44	T 25
W26	10 21 53	7 <sup>3</sup> 11	0 <sup>36</sup> 36	1 <sup>40</sup> 40	26 <sup>38</sup>	14 <sup>59</sup>	23 <sup>40</sup>	2 <sup>12</sup>	1 <sup>59</sup>	7 <sup>27</sup> 27	24 <sup>34</sup>	3 <sup>29</sup>	2 <sup>21</sup>	26 <sup>8</sup>	4 <sup>46</sup> 46	W26
T 27	10 25 49	8 <sup>3</sup> 27	12 <sup>28</sup>	3 <sup>29</sup>	27 <sup>53</sup>	15 <sup>42</sup>	23 <sup>54</sup>	2 <sup>19</sup>	1 <sup>56</sup>	7 <sup>29</sup> 29	24 <sup>35</sup>	3 <sup>25</sup>	2 <sup>18</sup>	26 <sup>15</sup>	4 <sup>49</sup> 49	T 27
F 28	10 29 46	9 <sup>3</sup> 42	24 <sup>8</sup> 21	5 <sup>18</sup> 18	29 <sup>7</sup> 7	16 <sup>26</sup> 26	24 <sup>8</sup> 8	2 <sup>26</sup> 26	1 <sup>1</sup> 1	7 <sup>30</sup> 30	24 <sup>35</sup>	3 <sup>22</sup>	2 <sup>15</sup>	26 <sup>21</sup> 21	4 <sup>51</sup> 51	F 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
S 1	17s16	24n31	4n49	22s30	0s46	14s27	1s30	23s42	0s16	16s12	0s42	2s14	2s13	11n 8	0n48	12n12
S 2	16 59	26 16	4 14	22 23	0 53	14 2	1 30	23 43	0 17	16 8	0 42	2 11	2 13	11 9	0 48	12 12
M 3	16 41	26 44	3 27	22 15	1 0	13 36	1 30	23 45	0 18	16 4	0 42	2 9	2 12	11 10	0 48	12 13
T 4	16 24	25 47	2 29	22 5	1 6	13 10	1 30	23 46	0 18	15 59	0 42	2 6	2 12	11 11	0 48	12 13
W 5	16 6	23 23	1 20	21 54	1 12	12 43	1 30	23 47	0 19	15 55	0 42	2 4	2 12	11 12	0 48	12 13
T 6	15 47	19 36	0 6	21 41	1 18	12 16	1 30	23 47	0 20	15 51	0 42	2 1	2 12	11 13	0 48	12 13
F 7	15 29	14 39	1s11	21 28	1 24	11 49	1 30	23 48	0 21	15 46	0 42	1 59	2 12	11 14	0 48	12 14
S 8	15 10	8 48	2 24	21 13	1 29	11 22	1 30	23 48	0 22	15 42	0 43	1 56	2 12	11 15	0 48	12 14
S 9	14 51	2 25	3 30	20 57	1 34	10 54	1 29	23 48	0 22	15 37	0 43	1 53	2 12	11 15	0 48	12 14
M10	14 32	4s 7	4 22	20 39	1 38	10 26	1 29	23 48	0 23	15 33	0 43	1 51	2 12	11 16	0 48	12 15
T 11	14 13	10 25	4 58	20 20	1 43	9 57	1 28	23 47	0 24	15 28	0 43	1 48	2 11	11 17	0 48	12 15
W12	13 53	16 7	5 14	19 59	1 47	9 29	1 28	23 47	0 25	15 24	0 43	1 46	2 11	11 18	0 48	12 15
T 13	13 33	20 52	5 11	19 38	1 50	9 0	1 27	23 46	0 26	15 19	0 43	1 43	2 11	11 19	0 48	12 16
F 14	13 13	24 21	4 48	19 15	1 54	8 31	1 27	23 45	0 27	15 15	0 43	1 40	2 11	11 20	0 48	12 16
S 15	12 52	26 19	4 10	18 50	1 57	8 1	1 26	23 43	0 27	15 10	0 43	1 37	2 11	11 21	0 48	12 16
S 16	12 32	26 39	3 17	18 24	1 59	7 32	1 25	23 42	0 28	15 6	0 43	1 35	2 11	11 22	0 48	12 17
M17	12 11	25 25	2 15	17 57	2 2	7 2	1 24	23 40	0 29	15 1	0 43	1 32	2 11	11 23	0 48	12 17
T 18	11 50	22 47	1 6	17 28	2 4	6 32	1 23	23 38	0 30	14 57	0 43	1 29	2 11	11 24	0 48	12 18
W19	11 29	19 1	0n 4	16 58	2 5	6 2	1 22	23 36	0 31	14 52	0 43	1 26	2 11	11 25	0 48	12 18
T 20	11 7	14 25	1 14	16 27	2 6	5 32	1 21	23 33	0 32	14 48	0 44	1 24	2 11	11 26	0 48	12 18
F 21	10 46	9 17	2 18	15 54	2 7	5 1	1 20	23 30	0 32	14 43	0 44	1 21	2 10	11 27	0 48	12 19
S 22	10 24	3 53	3 15	15 20	2 7	4 31	1 19	23 28	0 33	14 39	0 44	1 18	2 10	11 28	0 48	12 19
S 23	10 2	1n36	4 2	14 44	2 7	4 0	1 18	23 24	0 34	14 34	0 44	1 15	2 10	11 29	0 48	12 20
M24	9 40	6 56	4 38	14 7	2 7	3 29	1 16	23 21	0 35	14 29	0 44	1 12	2 10	11 30	0 48	12 20
T 25	9 18	11 59	5 1	13 29	2 6	2 59	1 15	23 17	0 36	14 25	0 44	1 10	2 10	11 31	0 48	12 21
W26	8 56	16 32	5 11	12 49	2 4	2 28	1 13	23 13	0 37	14 20	0 44	1 7	2 10	11 32	0 48	12 21
T 27	8 33	20 28	5 7	12 8	2 2	1 57	1 12	23 9	0 38	14 16	0 44	1 4	2 10	11 32	0 48	12 21
F 28	8s11	23n34	4n51	11s26	2s 0	1s26	1s10	23s 5	0s39	14s11	0s44	1s 1	2s10	11n33	0n48	12n22

Julian Day Number = 2407381.5, Delta T = -2.89 sec

Ecliptic obliquity = 23°27'23", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 23°03'06", Lahiri = 22°10'07"

ASTRODIENST EPHEMERIS for the year 1879  
geocentric

MARCH 1879

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 33 42	10♈ 3'54	6♊22	7♈ 9	0♈22	17♈ 9	24♈22	2♈33	1°R51	7♈31	24♈35	3°D21	2♈12	26♈28	4♈54	S 1
S 2	10 37 39	11° 4'04	18°34	9° 0	1°36	17°52	24°36	2°41	1°48	7°33	24°36	3°21	2° 8	26°35	4°56	S 2
M 3	10 41 35	12° 4'13	18° 3	10°53	2°50	18°36	24°50	2°48	1°46	7°34	24°36	3°22	2° 5	26°42	4°59	M 3
T 4	10 45 32	13° 4'19	13°53	12°46	4° 5	19°19	25° 4	2°55	1°43	7°36	24°37	3°24	2° 2	26°48	5° 2	T 4
W 5	10 49 28	14° 4'23	27° 8	14°41	5°19	20° 3	25°18	3° 2	1°41	7°37	24°38	3°R25	1°59	26°55	5° 5	W 5
T 6	10 53 25	15° 4'25	10♌49	16°36	6°33	20°46	25°32	3° 9	1°38	7°39	24°38	3°25	1°56	27° 2	5° 7	T 6
F 7	10 57 22	16° 4'24	24°58	18°32	7°47	21°30	25°46	3°17	1°36	7°40	24°39	3°23	1°53	27° 9	5°10	F 7
S 8	11 1 18	17° 4'22	9♍30	20°29	9° 2	22°13	26° 0	3°24	1°33	7°42	24°39	3°19	1°49	27°15	5°13	S 8
S 9	11 5 15	18° 4'18	24°21	22°26	10°16	22°57	26°14	3°31	1°31	7°43	24°40	3°14	1°46	27°22	5°16	S 9
M10	11 9 11	19° 4'11	9♎23	24°24	11°30	23°40	26°28	3°39	1°28	7°45	24°40	3° 7	1°43	27°29	5°19	M10
T 11	11 13 8	20° 4'03	24°25	26°22	12°44	24°24	26°42	3°46	1°26	7°46	24°41	2°59	1°40	27°35	5°22	T 11
W12	11 17 4	21° 3'54	9♏18	28°20	13°58	25° 8	26°55	3°53	1°23	7°48	24°42	2°53	1°37	27°42	5°25	W12
T 13	11 21 1	22° 3'42	23°56	0♐18	15°12	25°51	27° 9	4° 1	1°21	7°50	24°42	2°48	1°33	27°49	5°28	T 13
F 14	11 24 57	23° 3'29	8♑12	2°16	16°26	26°35	27°23	4° 8	1°18	7°52	24°43	2°45	1°30	27°56	5°31	F 14
S 15	11 28 54	24° 3'15	22° 6	4°13	17°40	27°19	27°37	4°15	1°16	7°53	24°44	2°D44	1°27	28° 2	5°34	S 15
S 16	11 32 51	25° 2'58	5♒38	6° 9	18°54	28° 3	27°50	4°23	1°14	7°55	24°45	2°44	1°24	28° 9	5°38	S 16
M17	11 36 47	26° 2'40	18°49	8° 4	20° 7	28°46	28° 4	4°30	1°11	7°57	24°45	2°45	1°21	28°16	5°41	M17
T 18	11 40 44	27° 2'20	1♉43	9°57	21°21	29°30	28°17	4°38	1° 9	7°59	24°46	2°R46	1°18	28°22	5°44	T 18
W19	11 44 40	28° 1'59	14°22	11°47	22°35	0♊14	28°31	4°45	1° 7	8° 0	24°47	2°45	1°14	28°29	5°47	W19
T 20	11 48 37	29° 1'35	26°50	13°36	23°49	0°58	28°44	4°53	1° 5	8° 2	24°48	2°42	1°11	28°36	5°51	T 20
F 21	11 52 33	0♈1	9♈7	15°21	25° 2	1°42	28°57	5° 0	1° 2	8° 4	24°49	2°37	1° 8	28°43	5°54	F 21
S 22	11 56 30	1° 0'42	21°17	17° 3	26°16	2°25	29°11	5° 8	1° 0	8° 6	24°50	2°28	1° 5	28°49	5°57	S 22
S 23	12 0 26	2° 0'13	3♈21	18°40	27°29	3° 9	29°24	5°15	0°58	8° 8	24°50	2°18	1° 2	28°56	6° 1	S 23
M24	12 4 23	2°59'42	15°19	20°14	28°43	3°53	29°37	5°23	0°56	8°10	24°51	2° 6	0°58	29° 3	6° 4	M24
T 25	12 8 19	3°59'08	27°13	21°43	29°57	4°37	29°50	5°30	0°54	8°12	24°52	1°54	0°55	29°10	6° 8	T 25
W26	12 12 16	4°58'32	9♉ 5	23° 6	1♊10	5°21	0♈ 3	5°38	0°52	8°14	24°53	1°43	0°52	29°16	6°11	W26
T 27	12 16 13	5°57'55	20°56	24°24	2°23	6° 5	0°16	5°45	0°50	8°16	24°54	1°33	0°49	29°23	6°15	T 27
F 28	12 20 9	6°57'15	2♊50	25°36	3°37	6°49	0°29	5°53	0°48	8°18	24°55	1°25	0°46	29°30	6°18	F 28
S 29	12 24 6	7°56'32	14°49	26°43	4°50	7°33	0°42	6° 0	0°46	8°20	24°56	1°20	0°43	29°36	6°22	S 29
S 30	12 28 2	8°55'48	26°59	27°42	6° 3	8°17	0°55	6° 8	0°44	8°22	24°57	1°17	0°39	29°43	6°25	S 30
M31	12 31 59	9♈55'01	9♉24	28♈35	7♈16	9♈ 1	1♈ 8	6♈15	0♈42	8♈24	24♈58	1°D17	0°36	29♈50	6♈29	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	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	7s48	25n41	4n21	10s42	1s57	0s54	1s 9	23s 0	0s39	14s 6	0s44	0s58	2s10	11n34	0n48	12n22	1s45	5n34	13s46	19s25	19s41	14n59	12n11	1s 3
S 2	7 25	26 37	3 40	9 57	1 53	0 23	1 7	22 56	0 40	14 2	0 45	0 55	2 10	11 35	0 48	12 23	1 45	5 34	13 45	19 25	19 42	15 2	12 12	1 3
M 3	7 2	26 14	2 47	9 10	1 49	0n 8	1 5	22 51	0 41	13 57	0 45	0 52	2 10	11 36	0 48	12 23	1 45	5 35	13 45	19 25	19 43	15 4	12 13	1 3
T 4	6 39	24 27	1 44	8 23	1 45	0 39	1 3	22 45	0 42	13 53	0 45	0 49	2 10	11 37	0 48	12 24	1 45	5 35	13 45	19 25	19 43	15 7	12 13	1 3
W 5	6 16	21 18	0 34	7 34	1 39	1 10	1 2	22 40	0 43	13 48	0 45	0 47	2 10	11 38	0 48	12 25	1 45	5 35	13 44	19 24	19 44	15 9	12 14	1 3
T 6	5 53	16 53	0s40	6 44	1 34	1 41	1 0	22 34	0 44	13 43	0 45	0 44	2 10	11 39	0 48	12 25	1 45	5 36	13 44	19 24	19 45	15 12	12 15	1 3
F 7	5 30	11 25	1 54	5 53	1 28	2 12	0 58	22 29	0 45	13 39	0 45	0 41	2 10	11 40	0 48	12 26	1 45	5 36	13 44	19 25	19 45	15 14	12 16	1 3
S 8	5 7	5 11	3 3	5 1	1 21	2 44	0 56	22 22	0 46	13 34	0 45	0 38	2 10	11 41	0 48	12 26	1 45	5 37	13 43	19 26	19 46	15 17	12 17	1 3
S 9	4 43	1s26	4 0	4 8	1 13	3 15	0 54	22 16	0 47	13 30	0 45	0 35	2 9	11 42	0 48	12 27	1 45	5 37	13 43	19 27	19 47	15 19	12 18	1 3
M10	4 20	8 2	4 42	3 14	1 5	3 46	0 52	22 10	0 48	13 25	0 45	0 32	2 9	11 42	0 48	12 27	1 45	5 37	13 43	19 29	19 48	15 22	12 19	1 3
T 11	3 56	14 11	5 4	2 19	0 57	4 16	0 49	22 3	0 48	13 20	0 46	0 29	2 9	11 43	0 48	12 28	1 45	5 38	13 43	19 30	19 48	15 24	12 20	1 3
W12	3 33	19 25	5 6	1 24	0 48	4 47	0 47	21 56	0 49	13 16	0 46	0 26	2 9	11 44	0 48	12 28	1 45	5 38	13 42	19 32	19 49	15 27	12 21	1 3
T 13	3 9	23 24	4 47	0 28	0 38	5 18	0 45	21 49	0 50	13 11	0 46	0 23	2 9	11 45	0 48	12 29	1 44	5 39	13 42	19 33	19 50	15 29	12 22	1 3
F 14	2 45	25 49	4 11	0n28	0 28	5 49	0 43	21 41	0 51	13 7	0 46	0 20	2 9	11 46	0 48	12 30	1 44	5 39	13 42	19 34	19 50	15 32	12 23	1 3
S 15	2 22	26 34	3 21	1 24	0 18	6 19	0 40	21 34	0 52	13 2	0 46	0 17	2 9	11 47	0 48	12 30	1 44	5 40	13 41	19 34	19 51	15 34	12 24	1 3
S 16	1 58	25 41	2 20	2 21	0 6	6 49	0 38	21 26	0 53	12 57	0 46	0 14	2 9	11 48	0 48	12 31	1 44	5 40	13 41	19 34	19 52	15 37	12 25	1 3
M17	1 34	23 21	1 14	3 17	0n 5	7 19	0 35	21 18	0 54	12 53	0 46	0 11	2 9	11 48	0 48	12 31	1 44	5 40	13 41	19 34	19 52	15 39	12 26	1 3
T 18	1 11	19 53	0 6	4 12	0 17	7 49	0 33	21 10	0 55	12 48	0 46	0 8	2 9	11 49	0 48	12 32	1 44	5 41	13 41	19 33	19 53	15 42	12 27	1 3
W19	0 47	15 33	1n 2	5 7	0 29	8 19	0 30	21 1	0 56	12 44	0 47	0 5	2 9	11 50	0 48	12 33	1 44	5 41	13 40	19 34	19 54	15 44	12 28	1 3
T 20	0 23	10 37	2 5	6 0	0 41	8 49	0 28	20 53	0 57	12 39	0 47	0 2	2 9	11 51	0 48	12 33	1 44	5 42	13 40	19 34	19 55	15 47	12 29	1 3
F 21	0n 0	5 21	3 2	6 52	0 54	9 18	0 25	20 44	0 58	12 35	0 47	0n 1	2 9	11 51	0 48	12 34	1 44	5 42	13 40	19 35	19 55	15 49	12 30	1 3
S 22	0 24	0n 3	3 49	7 43	1 6	9 48	0 23	20 35	0 59	12 30	0 47	0 4	2 9	11 52	0 48	12 35	1 44	5 43	13 40	19 37	19 56	15 52	12 31	1 3
S 23	0 48	5 24	4 26	8 32	1 18	10 17	0 20	20 26	1 0	12 26	0 47	0 7	2 9	11 53	0 48	12 35	1 44	5 43	13 39	19 40	19 57	15 54	12 32	1 3
M24	1 12	10 29	4 50	9 19	1 31	10 45	0 17	20 17	1 1	12 21	0 47	0 10	2 9	11 54	0 48	12 36	1 44	5 44	13 39	19 42	19 57	15 57	12 33	1 3
T 25	1 35	15 10	5 2	10 3	1 43	11 14	0 15	20 7	1 1	12 17	0 47	0 13	2 9	11 54	0 48	12 36	1 44	5 44	13 39	19 45	19 58	15 59	12 34	1 4
W26	1 59	19 16	5 0	10 45	1 54	11 42	0 12	19 57	1 2	12 12	0 48	0 15	2 9	11 55	0 48	12 37	1 44	5 44	13 39	19 48	19 59	16 2	12 36	1 4
T 27	2 22	22 36	4 46	11 25	2 6	12 10	0 9	19 47	1 3	12 8	0 48	0 18	2 9	11 56	0 48	12 38	1 44	5 45	13 38	19 50	19 59	16 4	12 37	1 4
F 28	2 46	24 58	4 19	12 1	2 16	12 38	0 6	19 37	1 4	12 3	0 48	0 21	2 9	11 57	0 48	12 38	1 44	5 45	13 38	19 52	20 0	16 6	12 38	1 4
S 29	3 9	26 15	3 41	12 35	2 26	13 5	0 3	19 27	1 5	11 59	0 48	0 24	2 9	11 57	0 48	12 39	1 44	5 46	13 38	19 53	20 1	16 9	12 39	1 4
S 30	3 33	26 17	2 52	13 5	2 35	13 32	0 1	19 16	1 6	11 54	0 48	0 27	2 9	11 58	0 48	12 40	1 44	5 46	13 38	19 53	20 1	16 11	12 40	1 4
M31	3n56	25n 1	1n54	13n32	2n44	13n59	0n 2	19s 6	1s 7	11s50	0s48	0n30	2s 9	11n58	0n48	12n40	1s44	5n47	13s37	19s53	20s 2	16n14	12n41	1s 4

# ASTRODIENST EPHEMERIS for the year 1879

## geocentric

APRIL 1879

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 35 55	10°54'12	22°08' 8	29°22' 22	8°30' 30	9°45' 45	1°20' 20	6°23' 23	0°40' 40	8°26' 26	24°59' 59	1°17' 17	0°33' 33	29°57' 57	6°33' 33	T 1
W 2	12 39 52	11°53'20	5°01' 16	0°08' 08	1°43' 43	10°29' 29	1°33' 33	6°30' 30	0°38' 38	8°28' 28	25° 0' 0	1°17' 17	0°30' 30	0°08' 08	6°36' 36	W 2
T 3	12 43 48	12°52'27	18°52' 0	0°34' 34	10°56' 56	11°13' 13	1°46' 46	6°38' 38	0°37' 37	8°30' 30	25° 1' 1	1°16' 16	0°27' 27	0°10' 10	6°40' 40	T 3
F 4	12 47 45	13°51'30	2°00' 58	0°59' 59	12° 9' 9	11°57' 57	1°58' 58	6°45' 45	0°35' 35	8°32' 32	25° 2' 2	1°12' 12	0°24' 24	0°17' 17	6°44' 44	F 4
S 5	12 51 42	14°50'32	17°33' 3	1°18' 18	13°22' 22	12°41' 41	2°11' 11	6°53' 53	0°33' 33	8°34' 34	25° 3' 3	1° 7' 7	0°20' 20	0°23' 23	6°48' 48	S 5
S 6	12 55 38	15°49'31	2°02' 31	1°30' 30	14°35' 35	13°25' 25	2°23' 23	7° 0' 0	0°32' 32	8°36' 36	25° 4' 4	0°58' 58	0°17' 17	0°30' 30	6°51' 51	S 6
M 7	12 59 35	16°48'28	17°45' 5	1°R34' 34	15°47' 47	14° 9' 9	2°35' 35	7° 7' 7	0°30' 30	8°38' 38	25° 5' 5	0°48' 48	0°14' 14	0°37' 37	6°55' 55	M 7
T 8	13 3 31	17°47'23	3°00' 18	1°32' 32	17° 0' 0	14°53' 53	2°47' 47	7°15' 15	0°29' 29	8°40' 40	25° 6' 6	0°37' 37	0°11' 11	0°44' 44	6°59' 59	T 8
W 9	13 7 28	18°46'17	18°17' 1	1°24' 24	18°13' 13	15°37' 37	3° 0' 0	7°22' 22	0°27' 27	8°42' 42	25° 7' 7	0°27' 27	0° 8' 8	0°50' 50	7° 3' 3	W 9
T 10	13 11 24	19°45'08	3°01' 13	1°10' 10	19°25' 25	16°21' 21	3°12' 12	7°30' 30	0°26' 26	8°45' 45	25° 9' 9	0°19' 19	0° 4' 4	0°57' 57	7° 6' 6	T 10
F 11	13 15 21	20°43'58	17°45' 5	0°50' 50	20°38' 38	17° 5' 5	3°24' 24	7°37' 37	0°24' 24	8°47' 47	25°10' 10	0°13' 13	0° 1' 1	1° 4' 4	7°10' 10	F 11
S 12	13 19 17	21°42'46	1°03' 50	0°24' 24	21°51' 51	17°49' 49	3°35' 35	7°44' 44	0°23' 23	8°49' 49	25°11' 11	0°10' 10	29°35' 35	1°11' 11	7°14' 14	S 12
S 13	13 23 14	22°41'32	15°27' 7	29°54' 54	23° 3' 3	18°33' 33	3°47' 47	7°52' 52	0°22' 22	8°51' 51	25°12' 12	0° 9' 9	29°55' 55	1°17' 17	7°18' 18	S 13
M14	13 27 11	23°40'17	28°38' 8	29°20' 20	24°15' 15	19°17' 17	3°59' 59	7°59' 59	0°20' 20	8°53' 53	25°13' 13	0° 9' 9	29°52' 52	1°24' 24	7°22' 22	M14
T 15	13 31 7	24°39'00	11°02' 27	28°43' 43	25°28' 28	20° 1' 1	4°11' 11	8° 6' 6	0°19' 19	8°56' 56	25°14' 14	0° 9' 9	29°49' 49	1°31' 31	7°26' 26	T 15
W16	13 35 4	25°37'41	23°58' 3	28° 3' 3	26°40' 40	20°45' 45	4°22' 22	8°14' 14	0°18' 18	8°58' 58	25°16' 16	0° 7' 7	29°45' 45	1°37' 37	7°30' 30	W16
T 17	13 39 0	26°36'20	6°01' 15	27°22' 22	27°52' 52	21°29' 29	4°34' 34	8°21' 21	0°17' 17	9° 0' 0	25°17' 17	0° 3' 3	29°42' 42	1°44' 44	7°34' 34	T 17
F 18	13 42 57	27°34'58	18°22' 2	26°39' 39	29° 5' 5	22°13' 13	4°45' 45	8°28' 28	0°16' 16	9° 2' 2	25°18' 18	29°35' 35	29°39' 39	1°51' 51	7°37' 37	F 18
S 19	13 46 53	28°33'34	0°01' 22	25°57' 57	0°11' 17	22°57' 57	4°56' 56	8°35' 35	0°15' 15	9° 4' 4	25°19' 19	29°46' 46	29°36' 36	1°58' 58	7°41' 41	S 19
S 20	13 50 50	29°32'08	12°18' 8	25°14' 14	1°29' 29	23°42' 42	5° 7' 7	8°43' 43	0°14' 14	9° 7' 7	25°20' 20	29°34' 34	29°33' 33	2° 4' 4	7°45' 45	S 20
M21	13 54 46	0°03'40	24°11' 1	24°34' 34	2°41' 41	24°26' 26	5°18' 18	8°50' 50	0°13' 13	9° 9' 9	25°22' 22	29°20' 20	29°29' 29	2°11' 11	7°49' 49	M21
T 22	13 58 43	1°29'11	6°08' 3	23°55' 55	3°53' 53	25°10' 10	5°29' 29	8°57' 57	0°12' 12	9°11' 11	25°23' 23	29° 6' 6	29°26' 26	2°18' 18	7°53' 53	T 22
W23	14 2 40	2°27'39	17°56' 6	23°19' 19	5° 5' 5	25°54' 54	5°40' 40	9° 4' 4	0°11' 11	9°13' 13	25°24' 24	28°52' 52	29°23' 23	2°25' 25	7°57' 57	W23
T 24	14 6 36	3°26'06	29°49' 9	22°46' 46	6°16' 16	26°38' 38	5°51' 51	9°11' 11	0°10' 10	9°16' 16	25°25' 25	28°40' 40	29°20' 20	2°31' 31	8° 1' 1	T 24
F 25	14 10 33	4°24'30	11°11' 47	22°17' 17	7°28' 28	27°22' 22	6° 2' 2	9°18' 18	0°10' 10	9°18' 18	25°27' 27	28°30' 30	29°17' 17	2°38' 38	8° 5' 5	F 25
S 26	14 14 29	5°22'53	23°50' 0	21°51' 51	8°40' 40	28° 6' 6	6°12' 12	9°25' 25	0° 9' 9	9°20' 20	25°28' 28	28°23' 23	29°14' 14	2°45' 45	8° 9' 9	S 26
S 27	14 18 26	6°21'14	6°02' 2	21°31' 31	9°51' 51	28°50' 50	6°23' 23	9°32' 32	0° 8' 8	9°22' 22	25°29' 29	28°19' 19	29°10' 10	2°51' 51	8°13' 13	S 27
M28	14 22 22	7°19'33	18°27' 7	21°14' 14	11° 3' 3	29°34' 34	6°33' 33	9°39' 39	0° 8' 8	9°25' 25	25°31' 31	28°18' 18	29° 7' 7	2°58' 58	8°17' 17	M28
T 29	14 26 19	8°17'49	1°01' 9	21° 3' 3	12°14' 14	0°01' 18	6°43' 43	9°46' 46	0° 7' 7	9°27' 27	25°32' 32	28°17' 17	29° 4' 4	3° 5' 5	8°21' 21	T 29
W30	14 30 15	9°01'04	14°01' 13	20°56' 56	13°11' 26	1°01' 2	6°01' 54	9°01' 53	0°01' 7	9°01' 29	25°01' 33	28°01' 17	29°01' 1	3°01' 12	8°01' 25	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	4n19	22n26	0n48	13n55	2n51	14n26	0n 5	18s55	1s 8	11s46	0s48	0n33	2s 9	11n59	0n48	12n41
W 2	4 42	18 37	0s21	14 16	2 58	14 52	0 8	18 44	1 9	11 41	0 49	0 36	2 10	12 0	0 48	12 42
T 3	5 5	13 43	1 32	14 32	3 3	15 17	0 11	18 33	1 10	11 37	0 49	0 39	2 10	12 0	0 47	12 42
F 4	5 28	7 56	2 39	14 45	3 7	15 43	0 14	18 21	1 11	11 33	0 49	0 42	2 10	12 1	0 47	12 43
S 5	5 51	1 34	3 39	14 54	3 10	16 8	0 17	18 10	1 12	11 28	0 49	0 45	2 10	12 1	0 47	12 44
S 6	6 14	5s 3	4 25	15 0	3 12	16 32	0 20	17 58	1 13	11 24	0 49	0 48	2 10	12 2	0 47	12 45
M 7	6 37	11 29	4 53	15 2	3 12	16 56	0 23	17 47	1 14	11 20	0 49	0 51	2 10	12 3	0 47	12 45
T 8	6 59	17 15	5 1	15 0	3 11	17 20	0 26	17 35	1 15	11 15	0 50	0 53	2 10	12 3	0 47	12 46
W 9	7 22	21 52	4 47	14 54	3 8	17 43	0 29	17 22	1 16	11 11	0 50	0 56	2 10	12 4	0 47	12 47
T 10	7 44	24 57	4 13	14 45	3 4	18 6	0 32	17 10	1 17	11 7	0 50	0 59	2 10	12 4	0 47	12 47
F 11	8 6	26 17	3 24	14 33	2 58	18 29	0 35	16 58	1 18	11 3	0 50	1 2	2 10	12 4	0 47	12 48
S 12	8 28	25 50	3 24	14 17	2 51	18 51	0 37	16 45	1 19	10 59	0 50	1 5	2 10	12 5	0 47	12 49
S 13	8 50	23 50	1 17	13 58	2 42	19 12	0 40	16 32	1 20	10 55	0 50	1 8	2 10	12 5	0 47	12 49
M14	9 12	20 35	0 8	13 37	2 32	19 33	0 43	16 19	1 21	10 51	0 51	1 11	2 10	12 6	0 47	12 50
T 15	9 33	16 25	0n59	13 12	2 20	19 53	0 46	16 6	1 22	10 46	0 51	1 13	2 10	12 6	0 47	12 51
W16	9 55	11 37	2 2	12 46	2 7	20 13	0 49	15 53	1 22	10 42	0 51	1 16	2 10	12 7	0 47	12 52
T 17	10 16	6 28	2 58	12 18	1 53	20 33	0 52	15 40	1 23	10 38	0 51	1 19	2 10	12 7	0 47	12 52
F 18	10 37	1 9	3 45	11 49	1 38	20 52	0 55	15 27	1 24	10 34	0 51	1 22	2 11	12 7	0 47	12 53
S 19	10 58	4n 9	4 21	11 19	1 23	21 10	0 58	15 13	1 25	10 30	0 52	1 24	2 11	12 8	0 47	12 54
S 20	11 19	9 15	4 46	10 48	1 7	21 28	1 1	14 59	1 26	10 27	0 52	1 27	2 11	12 8	0 47	12 54
M21	11 40	14 0	4 58	10 18	0 50	21 45	1 4	14 46	1 27	10 23	0 52	1 30	2 11	12 8	0 47	12 55
T 22	12 0	18 13	4 57	9 48	0 33	22 2	1 6	14 32	1 28	10 19	0 52	1 33	2 11	12 8	0 47	12 56
W23	12 20	21 43	4 43	9 19	0 16	22 18	1 9	14 18	1 29	10 15	0 52	1 35	2 11	12 9	0 47	12 57
T 24	12 40	24 18	4 17	8 51	0s 1	22 33	1 12	14 3	1 30	10 11	0 53	1 38	2 11	12 9	0 47	12 57
F 25	13 0	25 50	3 39	8 24	0 18	22 48	1 15	13 49	1 31	10 7	0 53	1 41	2 11	12 9	0 47	12 58
S 26	13 20	26 10	2 51	8 0	0 34	23 2	1 17	13 35	1 32	10 4	0 53	1 43	2 11	12 9	0 47	12 59
S 27	13 39	25 14	1 55	7 37	0 50	23 16	1 20	13 20	1 33	10 0	0 53	1 46	2 11	12 10	0 47	12 59
M28	13 58	23 2	0 52	7 17	1 5	23 29	1 23	13 6	1 34	9 56	0 53	1 49	2 12	12 10	0 47	13 0
T 29	14 17	19 40	0s15	6 59	1 20	23 41	1 25	12 51	1 35	9 53	0 54	1 51	2 12	12 10	0 47	13 1
W30	14n36	15n15	1s23	6n44	1s33	23n53	1n28	12s36	1s36	9s49	0s54	1n54	2s12	12n10	0n47	13n 2

Julian Day Number = 2407440.5, Delta T = -2.95 sec

Ecliptic obliquity = 23°27'23, Nutation = 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 23°03'14, Lahiri = 22°10'15

ASTRODIENST EPHEMERIS for the year 1879  
geocentric

MAY 1879

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 34 12	10♈14'16	27♎42	20°D54	14♊37	1♈46	7♈ 4	10♏0	0°R 6	9♈31	25♈34	28°R16	28♈58	3♈18	8♈29	T 1
F 2	14 38 9	11°12'26	11♏38	20°Y56	15°48	2°30	7°13	10° 7	0♏ 6	9°34	25°36	28♈13	28°55	3°25	8°33	F 2
S 3	14 42 5	12°10'34	26° 3	21° 4	16°59	3°14	7°23	10°13	0° 6	9°36	25°37	28° 8	28°51	3°32	8°37	S 3
S 4	14 46 2	13° 8'41	10♎53	21°16	18°10	3°58	7°33	10°20	0° 6	9°38	25°38	28° 0	28°48	3°38	8°41	S 4
M 5	14 49 58	14° 6'45	26° 3	21°33	19°21	4°42	7°43	10°27	0° 5	9°40	25°40	27°51	28°45	3°45	8°45	M 5
T 6	14 53 55	15° 4'48	11♏22	21°54	20°32	5°26	7°52	10°33	0° 5	9°43	25°41	27°41	28°42	3°52	8°49	T 6
W 7	14 57 51	16° 2'49	26°39	22°20	21°43	6°10	8° 1	10°40	0° 5	9°45	25°42	27°31	28°39	3°59	8°53	W 7
T 8	15 1 148	17° 0'49	11♎43	22°50	22°54	6°54	8°11	10°47	0°D 5	9°47	25°44	27°23	28°35	4° 5	8°57	T 8
F 9	15 5 44	17°58'47	26°25	23°24	24° 5	7°37	8°20	10°53	0° 5	9°49	25°45	27°17	28°32	4°12	9° 1	F 9
S 10	15 9 41	18°56'44	10♈39	24° 2	25°15	8°21	8°29	11° 0	0° 5	9°52	25°46	27°14	28°29	4°19	9° 5	S 10
S 11	15 13 38	19°54'39	24°25	24°44	26°26	9° 5	8°37	11° 6	0° 5	9°54	25°48	27°D13	28°26	4°26	9° 9	S 11
M12	15 17 34	20°52'33	7♎42	25°29	27°36	9°49	8°46	11°12	0° 6	9°56	25°49	27°13	28°23	4°32	9°12	M12
T 13	15 21 31	21°50'26	20°34	26°18	28°46	10°33	8°55	11°19	0° 6	9°58	25°51	27°R13	28°20	4°39	9°16	T 13
W14	15 25 27	22°48'18	3♈ 6	27°10	29°57	11°17	9° 3	11°25	0° 6	10° 1	25°52	27°13	28°16	4°46	9°20	W14
T 15	15 29 24	23°46'08	15°21	28° 6	1♎ 7	12° 0	9°12	11°31	0° 6	10° 3	25°53	27°11	28°13	4°52	9°24	T 15
F 16	15 33 20	24°43'57	27°25	29° 5	2°17	12°44	9°20	11°37	0° 7	10° 5	25°55	27° 6	28°10	4°59	9°28	F 16
S 17	15 37 17	25°41'45	9°Y21	0♈ 7	3°27	13°28	9°28	11°44	0° 7	10° 7	25°56	26°59	28° 7	5° 6	9°32	S 17
S 18	15 41 13	26°39'32	21°13	1°12	4°36	14°11	9°36	11°50	0° 8	10° 9	25°57	26°50	28° 4	5°13	9°36	S 18
M19	15 45 10	27°37'18	3♈ 5	2°19	5°46	14°55	9°43	11°56	0° 8	10°12	25°59	26°39	28° 1	5°19	9°40	M19
T 20	15 49 7	28°35'02	14°57	3°30	6°56	15°39	9°51	12° 2	0° 9	10°14	26° 0	26°28	27°57	5°26	9°43	T 20
W21	15 53 3	29°32'45	26°52	4°43	8° 5	16°22	9°59	12° 7	0°10	10°16	26° 1	26°17	27°54	5°33	9°47	W21
T 22	15 57 0	0♊30'27	8♊52	5°59	9°15	17° 6	10° 6	12°13	0°10	10°18	26° 3	26° 8	27°51	5°39	9°51	T 22
F 23	16 0 56	1°28'07	20°57	7°18	10°24	17°49	10°13	12°19	0°11	10°20	26° 4	26° 1	27°48	5°46	9°55	F 23
S 24	16 4 53	2°25'47	3♎ 9	8°39	11°34	18°33	10°20	12°25	0°12	10°22	26° 5	25°56	27°45	5°53	9°59	S 24
S 25	16 8 49	3°23'25	15°31	10° 3	12°43	19°16	10°27	12°30	0°13	10°24	26° 7	25°53	27°41	6° 0	10° 2	S 25
M26	16 12 46	4°21'01	28° 5	11°29	13°52	19°59	10°34	12°36	0°14	10°27	26° 8	25°D53	27°38	6° 6	10° 6	M26
T 27	16 16 42	5°18'36	10♎53	12°58	15° 1	20°43	10°40	12°42	0°15	10°29	26° 9	25°53	27°35	6°13	10°10	T 27
W28	16 20 39	6°16'10	23°59	14°30	16° 9	21°26	10°47	12°47	0°16	10°31	26°11	25°54	27°32	6°20	10°13	W28
T 29	16 24 36	7°13'42	7♏26	16° 3	17°18	22° 9	10°53	12°53	0°17	10°33	26°12	25°R55	27°29	6°27	10°17	T 29
F 30	16 28 32	8°11'12	21°15	17°40	18°27	22°52	10°59	12°58	0°18	10°35	26°13	25°54	27°26	6°33	10°21	F 30
S 31	16 32 29	9♊ 8'42	5♎28	19♈19	19♎35	23♈35	11♈ 5	13°Y 3	0♏19	10♈37	26♈15	25♈52	27♈22	6♈40	10♈24	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14n54	9n57	2s29	6n31	1s46	24n 4	1n30	12s21	1s37	9s46	0s54	1n56	2s12	12n10	0n47	13n 2	1s43	6n 0	13s32	20s31	20s23	17n26	13n18	1s 6	
F 2	15 12	4 0	3 28	6 21	1 59	24 14	1 33	12 7	1 38	9 42	0 54	1 59	2 12	12 10	0 46	13 3	1 43	6 0	13 32	20 32	20 24	17 29	13 19	1 6	
S 3	15 30	2s21	4 16	6 13	2 10	24 24	1 35	11 51	1 39	9 39	0 54	2 1	2 12	12 10	0 46	13 4	1 43	6 1	13 32	20 33	20 24	17 31	13 20	1 6	
S 4	15 48	8 44	4 48	6 8	2 20	24 33	1 37	11 36	1 39	9 35	0 55	2 4	2 12	12 10	0 46	13 4	1 43	6 1	13 32	20 35	20 25	17 33	13 22	1 6	
M 5	16 5	14 44	5 1	6 5	2 30	24 41	1 40	11 21	1 40	9 32	0 55	2 6	2 12	12 10	0 46	13 5	1 43	6 1	13 32	20 36	20 25	17 36	13 23	1 6	
T 6	16 22	19 53	4 53	6 5	2 39	24 49	1 42	11 6	1 41	9 29	0 55	2 9	2 13	12 10	0 46	13 6	1 43	6 2	13 32	20 38	20 26	17 38	13 24	1 6	
W 7	16 39	23 42	4 24	6 8	2 46	24 56	1 44	10 50	1 42	9 25	0 55	2 11	2 13	12 10	0 46	13 7	1 43	6 2	13 32	20 40	20 27	17 40	13 25	1 6	
T 8	16 56	25 47	3 36	6 12	2 53	25 2	1 46	10 35	1 43	9 22	0 56	2 14	2 13	12 10	0 46	13 7	1 43	6 3	13 32	20 42	20 27	17 42	13 26	1 7	
F 9	17 12	26 0	2 36	6 19	2 59	25 8	1 48	10 19	1 44	9 19	0 56	2 16	2 13	12 10	0 46	13 8	1 43	6 3	13 31	20 43	20 28	17 45	13 28	1 7	
S 10	17 28	24 28	1 27	6 28	3 4	25 13	1 50	10 4	1 45	9 16	0 56	2 19	2 13	12 10	0 46	13 9	1 43	6 3	13 31	20 44	20 29	17 47	13 29	1 7	
S 11	17 44	21 30	0 15	6 39	3 9	25 17	1 52	9 48	1 46	9 13	0 56	2 21	2 13	12 10	0 46	13 9	1 43	6 4	13 31	20 44	20 29	17 49	13 30	1 7	
M12	17 59	17 28	0n56	6 53	3 12	25 20	1 54	9 32	1 47	9 10	0 56	2 23	2 13	12 10	0 46	13 10	1 43	6 4	13 31	20 44	20 30	17 51	13 31	1 7	
T 13	18 14	12 44	2 1	7 8	3 15	25 23	1 56	9 17	1 48	9 7	0 57	2 26	2 14	12 10	0 46	13 11	1 43	6 4	13 31	20 44	20 31	17 53	13 32	1 7	
W14	18 29	7 36	2 59	7 24	3 17	25 25	1 58	9 1	1 49	9 4	0 57	2 28	2 14	12 10	0 46	13 11	1 43	6 5	13 31	20 44	20 31	17 56	13 33	1 7	
T 15	18 44	2 17	3 47	7 43	3 18	25 27	2 0	8 45	1 49	9 1	0 57	2 30	2 14	12 10	0 46	13 12	1 43	6 5	13 31	20 44	20 32	17 58	13 34	1 7	
F 16	18 58	3n 1	4 24	8 3	3 19	25 27	2 1	8 29	1 50	8 58	0 57	2 33	2 14	12 9	0 46	13 13	1 43	6 5	13 31	20 45	20 33	18 0	13 36	1 7	
S 17	19 12	8 8	4 49	8 25	3 19	25 27	2 3	8 13	1 51	8 55	0 58	2 35	2 14	12 9	0 46	13 13	1 43	6 6	13 31	20 47	20 33	18 2	13 37	1 7	
S 18	19 25	12 57	5 2	8 48	3 18	25 27	2 4	7 57	1 52	8 52	0 58	2 37	2 14	12 9	0 46	13 14	1 44	6 6	13 31	20 48	20 34	18 4	13 38	1 7	
M19	19 39	17 16	5 2	9 13	3 16	25 25	2 6	7 41	1 53	8 50	0 58	2 39	2 15	12 9	0 46	13 15	1 44	6 6	13 31	20 50	20 34	18 7	13 39	1 8	
T 20	19 52	20 55	4 48	9 39	3 14	25 23	2 7	7 25	1 54	8 47	0 58	2 41	2 15	12 8	0 46	13 15	1 44	6 7	13 31	20 53	20 35	18 9	13 40	1 8	
W21	20 4	23 43	4 22	10 6	3 11	25 21	2 8	7 9	1 55	8 44	0 59	2 43	2 15	12 8	0 46	13 16	1 44	6 7	13 31	20 55	20 36	18 11	13 41	1 8	
T 22	20 16	25 29	3 44	10 35	3 7	25 17	2 9	6 52	1 55	8 42	0 59	2 46	2 15	12 8	0 46	13 17	1 44	6 7	13 31	20 56	20 36	18 13	13 42	1 8	
F 23	20 28	26 4	2 56	11 4	3 3	25 13	2 10	6 36	1 56	8 39	0 59	2 48	2 15	12 8	0 46	13 17	1 44	6 8	13 31	20 58	20 37	18 15	13 43	1 8	
S 24	20 40	25 24	1 59	11 35	2 58	25 8	2 11	6 20	1 57	8 37	0 59	2 50	2 16	12 7	0 46	13 18	1 44	6 8	13 31	20 59	20 38	18 17	13 44	1 8	
S 25	20 51	23 28	0 55	12 6	2 53	25 3	2 12	6 4	1 58	8 35	1 0	2 52	2 16	12 7	0 46	13 19	1 44	6 8	13 31	20 59	20 38	18 20	13 46	1 8	
M26	21 2	20 22	0s12	12 39	2 47	24 56	2 13	5 47	1 59	8 32	1 0	2 54	2 16	12 7	0 46	13 19	1 44	6 8	13 31	20 59	20 39	18 22	13 47	1 8	
T 27	21 12	16 14	1 20	13 12	2 40	24 50	2 14	5 31	2 0	8 30	1 0	2 56	2 16	12 6	0 45	13 20	1 44	6 9	13 31	20 59	20 40	18 24	13 48	1 8	
W28	21 22	11 15	2 25	13 45	2 34	24 42	2 14	5 15	2 0	8 28	1 0	2 58	2 16	12 6	0 45	13 21	1 44	6 9	13 31	20 59	20 40	18 26	13 49	1 8	
T 29	21 32	5 37	3 25	14 19	2 26	24 34	2 15	4 58	2 1	8 26	1 1	3 0	2 16	12 5	0 45	13 21	1 44	6 9	13 31	20 59	20 41	18 28	13 50	1 9	
F 30	21 41	0s25	4 14	14 54	2 18	24 25	2 15	4 42	2 2	8 24	1 1	3 1	2 17	12 5	0 45	13 22	1 44	6 9	13 31	20 59	20 41	18 30	13 51	1 9	
S 31	21n50	6s36	4s49	15n29	2s10	24n16	2n16	4s26	2s 3	8s22	1s 1	3n 3	2s17	12n 4	0n45	13n22	1s44	6n10	13s31	20s59	20s42	18n32	13n52	1s 9	



# ASTRODIENST EPHEMERIS for the year 1879

## geocentric

JUNE 1879

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 36 25	10 <sup>II</sup> 6'10	20 <sup>II</sup> 3	21 <sup>II</sup> 0	20 <sup>II</sup> 43	24 <sup>II</sup> 18	11 <sup>II</sup> 11	13 <sup>II</sup> 8	0 <sup>II</sup> 20	10 <sup>II</sup> 39	26 <sup>II</sup> 16	25 <sup>II</sup> R47	27 <sup>II</sup> 19	6 <sup>II</sup> 47	10 <sup>II</sup> 28	S 1
M 2	16 40 22	11° 3'37	4 <sup>II</sup> 55	22° 43	21° 51	25° 1	11° 16	13° 13	0° 22	10° 41	26° 17	25 <sup>II</sup> 41	27° 16	6° 53	10° 32	M 2
T 3	16 44 18	12° 1'02	19° 58	24° 29	22° 59	25° 44	11° 22	13° 19	0° 23	10° 43	26° 19	25° 35	27° 13	7° 0	10° 35	T 3
W 4	16 48 15	12° 58'27	5 <sup>II</sup> 2	26° 18	24° 7	26° 27	11° 27	13° 24	0° 25	10° 45	26° 20	25° 29	27° 10	7° 7	10° 39	W 4
T 5	16 52 11	13° 55'51	19° 58	28° 9	25° 15	27° 10	11° 32	13° 28	0° 26	10° 47	26° 21	25° 24	27° 7	7° 14	10° 42	T 5
F 6	16 56 8	14° 53'14	4 <sup>II</sup> 36	0 <sup>II</sup> 2	26° 23	27° 52	11° 37	13° 33	0° 27	10° 49	26° 23	25° 20	27° 3	7° 20	10° 46	F 6
S 7	17 0 5	15° 50'36	18° 52	1° 58	27° 30	28° 35	11° 42	13° 38	0° 29	10° 51	26° 24	25° D19	27° 0	7° 27	10° 49	S 7
S 8	17 4 1	16° 47'57	2 <sup>II</sup> 42	3° 55	28° 37	29° 18	11° 47	13° 43	0° 31	10° 53	26° 25	25° 19	26° 57	7° 34	10° 52	S 8
M 9	17 7 58	17° 45'18	16° 5	5° 55	29° 44	0 <sup>II</sup> 0	11° 51	13° 47	0° 32	10° 55	26° 27	25° 20	26° 54	7° 41	10° 56	M 9
T 10	17 11 54	18° 42'39	29° 2	7° 57	0 <sup>II</sup> 51	0° 43	11° 55	13° 52	0° 34	10° 56	26° 28	25° 21	26° 51	7° 47	10° 59	T 10
W11	17 15 51	19° 39'58	11 <sup>II</sup> 38	10° 1	1° 58	1° 25	12° 0	13° 57	0° 36	10° 58	26° 29	25° 23	26° 47	7° 54	11° 2	W11
T 12	17 19 47	20° 37'18	23° 56	12° 7	3° 5	2° 8	12° 3	14° 1	0° 37	11° 0	26° 30	25° R23	26° 44	8° 1	11° 6	T 12
F 13	17 23 44	21° 34'36	6 <sup>II</sup> 1	14° 14	4° 11	2° 50	12° 7	14° 5	0° 39	11° 2	26° 32	25° 22	26° 41	8° 7	11° 9	F 13
S 14	17 27 40	22° 31'55	17° 57	16° 23	5° 18	3° 32	12° 11	14° 10	0° 41	11° 4	26° 33	25° 19	26° 38	8° 14	11° 12	S 14
S 15	17 31 37	23° 29'13	29° 50	18° 32	6° 24	4° 14	12° 14	14° 14	0° 43	11° 6	26° 34	25° 15	26° 35	8° 21	11° 15	S 15
M16	17 35 34	24° 26'31	11 <sup>II</sup> 41	20° 43	7° 30	4° 56	12° 17	14° 18	0° 45	11° 7	26° 35	25° 11	26° 32	8° 28	11° 19	M16
T 17	17 39 30	25° 23'48	23° 36	22° 54	8° 36	5° 38	12° 20	14° 22	0° 47	11° 9	26° 36	25° 6	26° 28	8° 34	11° 22	T 17
W18	17 43 27	26° 21'06	5 <sup>II</sup> 36	25° 6	9° 41	6° 20	12° 23	14° 26	0° 49	11° 11	26° 38	25° 1	26° 25	8° 41	11° 25	W18
T 19	17 47 23	27° 18'22	17° 44	27° 18	10° 47	7° 2	12° 26	14° 30	0° 51	11° 13	26° 39	24° 56	26° 22	8° 48	11° 28	T 19
F 20	17 51 20	28° 15'39	0 <sup>II</sup> 0	29° 29	11° 52	7° 44	12° 28	14° 33	0° 53	11° 14	26° 40	24° 53	26° 19	8° 54	11° 31	F 20
S 21	17 55 16	29° 12'55	12° 27	1 <sup>II</sup> 41	12° 57	8° 25	12° 31	14° 37	0° 56	11° 16	26° 41	24° 51	26° 16	9° 1	11° 34	S 21
S 22	17 59 13	0 <sup>II</sup> 10'10	25° 5	3° 51	14° 2	9° 7	12° 33	14° 41	0° 58	11° 18	26° 42	24° D51	26° 13	9° 8	11° 37	S 22
M23	18 3 10	1° 7'25	7 <sup>II</sup> 56	6° 0	15° 6	9° 48	12° 35	14° 44	1° 0	11° 19	26° 44	24° 51	26° 9	9° 15	11° 40	M23
T 24	18 7 6	2° 4'39	21° 0	8° 9	16° 11	10° 30	12° 36	14° 47	1° 2	11° 21	26° 45	24° 52	26° 6	9° 21	11° 43	T 24
W25	18 11 3	3° 1'53	4 <sup>II</sup> 18	10° 16	17° 15	11° 11	12° 38	14° 51	1° 5	11° 22	26° 46	24° 54	26° 3	9° 28	11° 45	W25
T 26	18 14 59	3° 59'06	17° 52	12° 21	18° 19	11° 52	12° 39	14° 54	1° 7	11° 24	26° 47	24° 55	26° 0	9° 35	11° 48	T 26
F 27	18 18 56	4° 56'19	1 <sup>II</sup> 43	14° 25	19° 23	12° 33	12° 40	14° 57	1° 10	11° 25	26° 48	24° R56	25° 57	9° 41	11° 51	F 27
S 28	18 22 52	5° 53'31	15° 49	16° 27	20° 26	13° 14	12° 41	15° 0	1° 12	11° 27	26° 49	24° 55	25° 53	9° 48	11° 54	S 28
S 29	18 26 49	6° 50'43	0 <sup>II</sup> 9	18° 27	21° 29	13° 55	12° 42	15° 3	1° 15	11° 28	26° 50	24° 54	25° 50	9° 55	11° 56	S 29
M30	18 30 45	7° 47'54	14 <sup>II</sup> 41	20° 26	22° 32	14° 35	12° 44	15° 6	1° 17	11° 30	26° 51	24° 53	25° 47	10° 2	11° 59	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
S 1	21n59	12s34	5s 7	16n 4	2s 1	24n 6	2n16	4s 9	2s 4	8s20	1s 2	3n 5	2s17	12n 4	0n45	13n23	1s44	6n10	13s31	21s 0	20s43	18n35	13n53	1s 9
M 2	22 7	17 56	5 4	16 40	1 52	23 55	2 16	3 53	2 4	8 18	1 2	3 7	2 17	12 3	0 45	13 24	1 44	6 10	13 31	21 1	20 43	18 37	13 54	1 9
T 3	22 15	22 15	4 41	17 15	1 42	23 44	2 16	3 37	2 5	8 16	1 2	3 9	2 18	12 3	0 45	13 24	1 44	6 10	13 31	21 2	20 44	18 39	13 55	1 9
W 4	22 22	25 3	3 58	17 51	1 32	23 32	2 16	3 20	2 6	8 14	1 2	3 10	2 18	12 2	0 45	13 25	1 44	6 11	13 31	21 4	20 44	18 41	13 56	1 9
T 5	22 29	26 4	3 0	18 26	1 22	23 20	2 16	3 4	2 7	8 12	1 3	3 12	2 18	12 2	0 45	13 25	1 44	6 11	13 31	21 4	20 45	18 43	13 57	1 9
F 6	22 36	25 12	1 50	19 0	1 11	23 7	2 16	2 48	2 7	8 11	1 3	3 14	2 18	12 1	0 45	13 26	1 44	6 11	13 31	21 5	20 46	18 45	13 58	1 10
S 7	22 42	22 42	0 35	19 35	1 1	22 53	2 15	2 31	2 8	8 9	1 3	3 16	2 18	12 1	0 45	13 27	1 44	6 11	13 31	21 5	20 46	18 47	13 59	1 10
S 8	22 48	18 55	0n40	20 8	0 50	22 39	2 15	2 15	2 9	8 8	1 4	3 17	2 19	12 0	0 45	13 27	1 44	6 12	13 31	21 5	20 47	18 49	14 0	1 10
M 9	22 54	14 16	1 51	20 40	0 39	22 24	2 14	1 59	2 10	8 6	1 4	3 19	2 19	12 0	0 45	13 28	1 44	6 12	13 32	21 5	20 48	18 51	14 1	1 10
T 10	22 59	9 7	2 53	21 12	0 28	22 9	2 13	1 42	2 10	8 5	1 4	3 20	2 19	11 59	0 45	13 28	1 44	6 12	13 32	21 5	20 48	18 53	14 1	1 10
W11	23 3	3 44	3 45	21 41	0 17	21 53	2 12	1 26	2 11	8 4	1 4	3 22	2 19	11 58	0 45	13 29	1 44	6 12	13 32	21 5	20 49	18 55	14 2	1 10
T 12	23 7	1n40	4 26	22 10	0 6	21 37	2 12	1 10	2 12	8 2	1 5	3 23	2 20	11 58	0 45	13 29	1 44	6 12	13 32	21 5	20 49	18 57	14 3	1 10
F 13	23 11	6 53	4 54	22 36	0n 5	21 20	2 10	0 54	2 12	8 1	1 5	3 25	2 20	11 57	0 45	13 30	1 44	6 13	13 32	21 5	20 50	19 0	14 4	1 10
S 14	23 15	11 48	5 9	23 1	0 16	21 3	2 9	0 38	2 13	8 0	1 5	3 26	2 20	11 56	0 45	13 30	1 44	6 13	13 32	21 5	20 51	19 2	14 5	1 10
S 15	23 18	16 15	5 11	23 24	0 26	20 45	2 8	0 22	2 14	7 59	1 6	3 28	2 20	11 55	0 45	13 31	1 44	6 13	13 32	21 6	20 51	19 4	14 6	1 11
M16	23 20	20 5	4 59	23 44	0 36	20 27	2 6	0 5	2 14	7 58	1 6	3 29	2 20	11 55	0 45	13 31	1 44	6 13	13 32	21 7	20 52	19 6	14 7	1 11
T 17	23 23	23 7	4 34	24 2	0 46	20 8	2 5	0n11	2 15	7 57	1 6	3 30	2 21	11 54	0 45	13 32	1 44	6 13	13 32	21 8	20 52	19 8	14 8	1 11
W18	23 24	25 9	3 57	24 17	0 55	19 49	2 3	0 27	2 16	7 56	1 6	3 32	2 21	11 53	0 45	13 32	1 44	6 13	13 32	21 9	20 53	19 10	14 8	1 11
T 19	23 26	26 2	3 9	24 29	1 4	19 29	2 1	0 42	2 16	7 56	1 7	3 33	2 21	11 52	0 45	13 33	1 44	6 14	13 32	21 9	20 54	19 12	14 9	1 11
F 20	23 27	25 39	2 12	24 39	1 12	19 9	1 59	0 58	2 17	7 55	1 7	3 34	2 21	11 52	0 45	13 33	1 44	6 14	13 33	21 10	20 54	19 14	14 10	1 11
S 21	23 27	24 0	1 8	24 46	1 19	18 49	1 57	1 14	2 17	7 54	1 7	3 35	2 22	11 51	0 45	13 34	1 45	6 14	13 33	21 10	20 55	19 16	14 11	1 11
S 22	23 27	21 7	0s 1	24 50	1 26	18 28	1 55	1 30	2 18	7 54	1 8	3 36	2 22	11 50	0 45	13 34	1 45	6 14	13 33	21 10	20 55	19 18	14 12	1 12
M23	23 27	17 9	1 11	24 51	1 32	18 7	1 53	1 46	2 19	7 53	1 8	3 37	2 22	11 49	0 45	13 35	1 45	6 14	13 33	21 10	20 56	19 20	14 12	1 12
T 24	23 26	12 19	2 19	24 49	1 37	17 45	1 50	2 1	2 19	7 53	1 8	3 39	2 22	11 48	0 44	13 35	1 45	6 14	13 33	21 10	20 57	19 22	14 13	1 12
W25	23 25	6 50	3 20	24 45	1 42	17 23	1 48	2 17	2 20	7 53	1 8	3 40	2 23	11 47	0 44	13 36	1 45	6 14	13 33	21 10	20 57	19 24	14 14	1 12
T 26	23 24	0 56	4 12	24 38	1 46	17 1	1 45	2 32	2 20	7 53	1 9	3 41	2 23	11 47	0 44	13 36	1 45	6 14	13 33	21 10	20 58	19 26	14 15	1 12
F 27	23 22	5s 7	4 50	24 29	1 49	16 38	1 42	2 48	2 21	7 52	1 9	3 42	2 23	11 46	0 44	13 36	1 45	6 15	13 33	21 10	20 58	19 28	14 15	1 12
S 28	23 19	11 0	5 11	24 17	1 51	16 15	1 39	3 3	2 21	7 52	1 9	3 42	2 24	11 45	0 44	13 37	1 45	6 15	13 34	21 10	20 59	19 30	14 16	1 12
S 29	23 17	16 25	5 14	24 3	1 53	15 52	1 36	3 19	2 22	7 52	1 10	3 43	2 24	11 44	0 44	13 37	1 45	6 15	13 34	21 10	21 0	19 32	14 17	1 12
M30	23n14	20s58	4s57	23n47	1n54	15n29	1n33	3n34	2s22	7s52	1s10	3n44	2s24	11n43	0n44	13n38	1s45	6n15	13s34	21s10	21s 0	19n34	14n17	1s13

## ASTRODIENST EPHEMERIS for the year 1879

geocentric

JULY 1879

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 34 42	8°45'06	29°12'20	22°22'22	23°12'35	15°16'16	12°43'43	15°16'16	1°12'20	11°31'31	26°52'52	24°R51	25°34'44	10°8'8	12°8'2	T 1
W 2	18 38 39	9°42'16	13°17'59	24°17'24	24°37'24	15°56'15	12°R43	15°11'15	1°22'22	11°33'33	26°53'53	24°34'49	25°41'41	10°15'15	12°4'4	W 2
T 3	18 42 35	10°39'27	28°33'33	26°9'26	25°39'25	16°36'16	12°43'43	15°14'15	1°25'25	11°34'34	26°54'54	24°47'47	25°38'38	10°22'22	12°7'7	T 3
F 4	18 46 32	11°36'38	12°35'35	28°0'28	26°41'26	17°17'17	12°43'43	15°17'15	1°28'28	11°35'35	26°56'56	24°46'46	25°34'34	10°29'29	12°9'9	F 4
S 5	18 50 28	12°33'48	27°0'27	29°48'29	27°43'27	17°57'17	12°42'42	15°19'15	1°30'30	11°37'37	26°57'57	24°D46	25°31'31	10°35'35	12°12'12	S 5
S 6	18 54 25	13°30'59	10°44'44	1°12'35	28°44'28	18°37'18	12°42'42	15°21'15	1°33'33	11°38'38	26°58'58	24°47'47	25°28'28	10°42'42	12°14'14	S 6
M 7	18 58 21	14°28'10	24°5'24	3°19'19	29°45'29	19°16'19	12°41'41	15°23'15	1°36'36	11°39'39	26°58'58	24°47'47	25°25'25	10°49'49	12°16'16	M 7
T 8	19 2 18	15°25'21	7°14'4	5°1'5	0°11'45	19°56'19	12°40'40	15°26'15	1°39'39	11°40'40	26°59'59	24°48'48	25°22'22	10°55'55	12°18'18	T 8
W 9	19 6 14	16°22'33	19°43'43	6°42'42	1°45'14	20°36'20	12°39'39	15°28'15	1°42'42	11°42'42	27°0'0	24°49'49	25°19'19	11°2'2	12°21'21	W 9
T 10	19 10 11	17°19'45	2°14'4	8°20'28	2°45'21	21°15'21	12°37'37	15°29'15	1°45'45	11°43'43	27°1'1	24°50'50	25°15'15	11°9'9	12°23'23	T 10
F 11	19 14 8	18°16'57	14°11'14	9°56'9	3°45'21	21°54'21	12°36'36	15°31'15	1°48'48	11°44'44	27°2'2	24°R50	25°12'12	11°16'16	12°25'25	F 11
S 12	19 18 4	19°14'10	26°9'26	11°31'11	4°44'22	22°33'22	12°34'34	15°33'15	1°51'51	11°45'45	27°3'3	24°50'50	25°9'9	11°22'22	12°27'27	S 12
S 13	19 22 1	20°11'23	8°2'8	13°3'13	5°43'23	23°12'23	12°32'32	15°35'15	1°54'54	11°46'46	27°4'4	24°50'50	25°6'6	11°29'29	12°29'29	S 13
M14	19 25 57	21°8'37	19°55'55	14°33'14	6°41'23	23°51'23	12°30'30	15°36'15	1°57'57	11°47'47	27°5'5	24°49'49	25°3'3	11°36'36	12°31'31	M14
T 15	19 29 54	22°5'52	1°11'52	16°1'16	7°39'24	24°30'24	12°27'27	15°38'15	2°0'0	11°48'48	27°6'6	24°49'49	24°59'59	11°42'42	12°33'33	T 15
W16	19 33 50	23°3'07	13°57'57	17°27'17	8°37'25	25°8'25	12°25'25	15°39'15	2°3'3	11°49'49	27°7'7	24°49'49	24°56'56	11°49'49	12°35'35	W16
T 17	19 37 47	24°0'23	26°12'12	18°51'18	9°34'25	25°46'25	12°22'22	15°40'15	2°6'6	11°50'50	27°7'7	24°48'48	24°53'53	11°56'56	12°37'37	T 17
F 18	19 41 43	24°57'40	8°54'8	20°12'20	10°30'30	26°25'26	12°19'19	15°41'15	2°9'9	11°51'51	27°8'8	24°D48	24°50'50	12°3'3	12°39'39	F 18
S 19	19 45 40	25°54'57	21°23'21	21°32'21	11°27'27	27°2'27	12°16'16	15°42'15	2°12'12	11°52'52	27°9'9	24°R48	24°47'47	12°9'9	12°40'40	S 19
S 20	19 49 37	26°52'14	4°12'21	22°49'22	12°23'22	27°40'27	12°13'12	15°43'15	2°15'15	11°53'53	27°10'10	24°48'48	24°44'44	12°16'16	12°42'42	S 20
M21	19 53 33	27°49'32	17°35'35	24°4'24	13°18'18	28°18'28	12°9'12	15°44'15	2°19'19	11°54'54	27°11'11	24°48'48	24°40'40	12°23'23	12°44'44	M21
T 22	19 57 30	28°46'51	1°11'2	25°17'25	14°13'14	28°55'28	12°6'12	15°45'15	2°22'22	11°55'55	27°11'11	24°48'48	24°37'37	12°29'29	12°45'45	T 22
W23	20 1 26	29°44'10	14°43'43	26°27'26	15°7'15	29°32'29	12°2'12	15°45'15	2°25'25	11°55'55	27°12'12	24°47'47	24°34'34	12°36'36	12°47'47	W23
T 24	20 5 23	0°14'29	28°35'28	27°35'27	16°1'16	0°8'9	11°58'11	15°46'15	2°29'29	11°56'56	27°13'13	24°47'47	24°31'31	12°43'43	12°48'48	T 24
F 25	20 9 19	1°38'48	12°36'36	28°40'28	16°54'16	0°46'46	11°54'11	15°46'15	2°32'32	11°57'57	27°13'13	24°46'46	24°28'28	12°50'50	12°50'50	F 25
S 26	20 13 16	2°36'08	26°45'26	29°42'29	17°46'17	1°23'23	11°49'11	15°46'15	2°35'35	11°57'57	27°14'14	24°D46	24°25'25	12°56'56	12°51'51	S 26
S 27	20 17 12	3°33'29	10°11'59	0°11'42	18°38'18	1°59'19	11°45'11	15°47'15	2°39'39	11°58'58	27°15'15	24°46'46	24°21'21	13°3'3	12°52'52	S 27
M28	20 21 9	4°30'50	25°15'25	1°39'19	19°30'19	2°35'23	11°40'11	15°R47	2°42'42	11°59'59	27°15'15	24°46'46	24°18'18	13°10'10	12°53'53	M28
T 29	20 25 6	5°28'11	9°11'4	2°32'20	20°20'20	3°11'31	11°35'11	15°47'15	2°46'46	11°59'59	27°16'16	24°47'47	24°15'15	13°16'16	12°55'55	T 29
W30	20 29 2	6°25'34	23°44'23	3°23'23	21°10'21	3°47'47	11°30'11	15°47'15	2°49'49	12°0'0	27°17'17	24°48'48	24°12'12	13°23'23	12°56'56	W30
T 31	20 32 59	7°12'56	7°35'35	4°11'10	22°10'22	4°22'48	11°25'11	15°46'15	2°11'52	12°0'0	27°18'18	24°34'34	24°9'9	13°30'30	12°57'57	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	23n10	24s15	4s20	23n28	1n54	15n 5	1n30	3n49	2s23	7s52	1s10	3n45	2s24	11n42	0n44	13n38
W 2	23 6	25 55	3 27	23 8	1 53	14 41	1 26	4 4	2 23	7 53	1 11	3 46	2 25	11 41	0 44	13 38
T 3	23 2	25 47	2 20	22 46	1 52	14 16	1 22	4 19	2 24	7 53	1 11	3 47	2 25	11 40	0 44	13 39
F 4	22 57	23 54	1 5	22 23	1 50	13 52	1 19	4 34	2 24	7 53	1 11	3 47	2 25	11 39	0 44	13 39
S 5	22 52	20 34	0n12	21 58	1 48	13 27	1 15	4 49	2 25	7 54	1 11	3 48	2 25	11 38	0 44	13 40
S 6	22 46	16 9	1 27	21 32	1 45	13 2	1 11	5 3	2 25	7 54	1 12	3 49	2 26	11 37	0 44	13 40
M 7	22 40	11 4	2 35	21 4	1 41	12 36	1 6	5 18	2 26	7 55	1 12	3 49	2 26	11 36	0 44	13 40
T 8	22 34	5 37	3 33	20 36	1 37	12 11	1 2	5 33	2 26	7 56	1 12	3 50	2 26	11 35	0 44	13 41
W 9	22 27	0 6	4 19	20 6	1 32	11 45	0 57	5 47	2 26	7 56	1 13	3 50	2 26	11 34	0 44	13 41
T 10	22 20	5n17	4 52	19 36	1 27	11 19	0 53	6 1	2 27	7 57	1 13	3 51	2 27	11 33	0 44	13 41
F 11	22 12	10 22	5 11	19 4	1 21	10 53	0 48	6 16	2 27	7 58	1 13	3 51	2 27	11 32	0 44	13 41
S 12	22 5	15 1	5 17	18 33	1 15	10 27	0 43	6 30	2 28	7 59	1 14	3 52	2 27	11 31	0 44	13 42
S 13	21 56	19 3	5 8	18 0	1 8	10 1	0 38	6 44	2 28	8 0	1 14	3 52	2 28	11 30	0 44	13 42
M14	21 48	22 20	4 47	17 27	1 1	9 34	0 33	6 58	2 28	8 1	1 14	3 52	2 28	11 28	0 44	13 42
T 15	21 39	24 41	4 13	16 54	0 53	9 8	0 27	7 12	2 29	8 2	1 14	3 53	2 28	11 27	0 44	13 43
W16	21 29	25 55	3 28	16 20	0 45	8 41	0 22	7 25	2 29	8 3	1 15	3 53	2 28	11 26	0 44	13 43
T 17	21 19	25 56	2 32	15 46	0 37	8 14	0 16	7 39	2 29	8 5	1 15	3 53	2 29	11 25	0 44	13 43
F 18	21 9	24 38	1 28	15 12	0 28	7 48	0 11	7 52	2 29	8 6	1 15	3 53	2 29	11 24	0 44	13 43
S 19	20 59	22 4	0 19	14 38	0 19	7 21	0 5	8 6	2 30	8 8	1 16	3 53	2 29	11 23	0 44	13 44
S 20	20 48	18 20	0s53	14 4	0 9	6 54	0s 2	8 19	2 30	8 9	1 16	3 53	2 30	11 22	0 44	13 44
M21	20 37	13 37	2 3	13 30	0s 1	6 27	0 8	8 32	2 30	8 11	1 16	3 53	2 30	11 20	0 44	13 44
T 22	20 25	8 11	3 8	12 56	0 11	6 0	0 14	8 45	2 30	8 12	1 16	3 53	2 30	11 19	0 44	13 44
W23	20 13	2 18	4 3	12 22	0 22	5 33	0 21	8 58	2 31	8 14	1 17	3 53	2 30	11 18	0 44	13 44
T 24	20 1	3s47	4 44	11 49	0 32	5 6	0 27	9 11	2 31	8 16	1 17	3 53	2 31	11 17	0 44	13 44
F 25	19 48	9 44	5 9	11 16	0 43	4 39	0 34	9 23	2 31	8 18	1 17	3 53	2 31	11 16	0 44	13 44
S 26	19 36	15 14	5 16	10 44	0 55	4 12	0 41	9 36	2 31	8 20	1 17	3 53	2 31	11 14	0 44	13 45
S 27	19 22	19 56	5 4	10 12	1 6	3 45	0 48	9 48	2 31	8 22	1 18	3 53	2 31	11 13	0 44	13 45
M28	19 9	23 30	4 33	9 41	1 18	3 18	0 56	10 0	2 31	8 24	1 18	3 53	2 32	11 12	0 44	13 45
T 29	18 55	25 36	3 45	9 11	1 30	2 52	1 3	10 13	2 31	8 26	1 18	3 52	2 32	11 11	0 44	13 45
W30	18 41	26 2	2 44	8 42	1 42	2 25	1 11	10 25	2 32	8 28	1 18	3 52	2 32	11 9	0 44	13 45
T 31	18n26	24s46	1s33	8n13	1s54	1n59	1s18	10n36	2s32	8s30	1s19	3n52	2s33	11n 8	0n44	13n45

Julian Day Number = 2407531.5, Delta T = -3.04 sec

Ecliptic obliquity = 23°27'21", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 23°03'27", Lahiri = 22°10'27"



# ASTRODIENST EPHEMERIS for the year 1879

## geocentric

AUGUST 1879

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 36 55	8♂20'20	21♂47	4♂54	22♂48	4♂57	11♂R20	15♂R46	2♂56	12♂ 1	27♂18	24♂R49	24♂ 5	13♂37	12♂58	F 1
S 2	20 40 52	9°17'44	5♂31	5°34	23°36	5°32	11♂14	15♂46	2°59	12° 1	27°18	24♂49	24° 2	13°43	12°59	S 2
S 3	20 44 48	10°15'09	18°59	6°11	24°23	6° 7	11° 9	15°45	3° 3	12° 2	27°19	24°48	23°59	13°50	13° 0	S 3
M 4	20 48 45	11°12'35	2♂10	6°43	25° 9	6°42	11° 3	15°44	3° 7	12° 2	27°19	24°46	23°56	13°57	13° 1	M 4
T 5	20 52 41	12°10'02	15° 3	7°11	25°55	7°16	10°57	15°44	3°10	12° 3	27°20	24°44	23°53	14° 3	13° 1	T 5
W 6	20 56 38	13° 7'30	27°39	7°35	26°39	7°50	10°51	15°43	3°14	12° 3	27°20	24°42	23°50	14°10	13° 2	W 6
T 7	21 0 35	14° 5'00	9♂59	7°54	27°23	8°24	10°45	15°42	3°17	12° 3	27°21	24°39	23°46	14°17	13° 3	T 7
F 8	21 4 31	15° 2'30	22° 7	8° 9	28° 5	8°57	10°39	15°41	3°21	12° 4	27°21	24°37	23°43	14°24	13° 3	F 8
S 9	21 8 28	16° 0'03	4♂ 6	8°18	28°47	9°31	10°32	15°40	3°24	12° 4	27°21	24°35	23°40	14°30	13° 4	S 9
S 10	21 12 24	16°57'36	15°59	8°R22	29°28	10° 3	10°26	15°39	3°28	12° 4	27°22	24°D35	23°37	14°37	13° 4	S 10
M 11	21 16 21	17°55'11	27°52	8°21	0♂ 7	10°36	10°19	15°37	3°32	12° 4	27°22	24°35	23°34	14°44	13° 5	M 11
T 12	21 20 17	18°52'48	9♂49	8°15	0°46	11° 9	10°12	15°36	3°35	12° 4	27°23	24°36	23°31	14°50	13° 5	T 12
W 13	21 24 14	19°50'26	21°56	8° 3	1°23	11°41	10° 5	15°34	3°39	12° 4	27°23	24°38	23°27	14°57	13° 6	W 13
T 14	21 28 10	20°48'05	4♂61	7°46	1°59	12°12	9°58	15°33	3°43	12° 4	27°23	24°39	23°24	15° 4	13° 6	T 14
F 15	21 32 7	21°45'46	16°52	7°23	2°34	12°44	9°51	15°31	3°46	12° 5	27°23	24°40	23°21	15°11	13° 6	F 15
S 16	21 36 4	22°43'28	29°48	6°54	3° 8	13°15	9°44	15°29	3°50	12°R 5	27°24	24°R41	23°18	15°17	13° 6	S 16
S 17	21 40 0	23°41'12	13♂ 5	6°21	3°40	13°46	9°37	15°27	3°54	12° 5	27°24	24°39	23°15	15°24	13° 6	S 17
M 18	21 43 57	24°38'57	26°41	5°42	4°11	14°16	9°29	15°25	3°58	12° 4	27°24	24°37	23°11	15°31	13°R 6	M 18
T 19	21 47 53	25°36'43	10♂35	4°59	4°41	14°46	9°22	15°23	4° 1	12° 4	27°24	24°33	23° 8	15°37	13° 6	T 19
W 20	21 51 50	26°34'31	24°43	4°13	5° 9	15°16	9°14	15°21	4° 5	12° 4	27°25	24°28	23° 5	15°44	13° 6	W 20
T 21	21 55 46	27°32'20	9♂ 1	3°23	5°35	15°45	9° 7	15°19	4° 9	12° 4	27°25	24°23	23° 2	15°51	13° 6	T 21
F 22	21 59 43	28°30'10	23°24	2°31	6° 0	16°14	8°59	15°16	4°13	12° 4	27°25	24°19	22°59	15°58	13° 6	F 22
S 23	22 3 39	29°28'01	7♂45	1°37	6°23	16°43	8°51	15°14	4°16	12° 4	27°25	24°16	22°56	16° 4	13° 6	S 23
S 24	22 7 36	0♂25'54	22° 3	0°43	6°45	17°11	8°44	15°11	4°20	12° 3	27°25	24°14	22°52	16°11	13° 5	S 24
M 25	22 11 33	1°23'48	6♂13	29♂50	7° 5	17°39	8°36	15° 8	4°24	12° 3	27°25	24°D14	22°49	16°18	13° 5	M 25
T 26	22 15 29	2°21'43	20°15	28°58	7°23	18° 6	8°28	15° 6	4°28	12° 3	27°25	24°15	22°46	16°24	13° 4	T 26
W 27	22 19 26	3°19'39	4♂ 7	28°10	7°39	18°33	8°20	15° 3	4°31	12° 2	27°25	24°17	22°43	16°31	13° 4	W 27
T 28	22 23 22	4°17'37	17°48	27°26	7°53	19° 0	8°12	15° 0	4°35	12° 2	27°R25	24°R18	22°40	16°38	13° 3	T 28
F 29	22 27 19	5°15'36	1♂18	26°46	8° 5	19°26	8° 4	14°57	4°39	12° 2	27°25	24°18	22°37	16°45	13° 3	F 29
S 30	22 31 15	6°13'36	14°38	26°13	8°14	19°51	7°57	14°54	4°43	12° 1	27°25	24°16	22°33	16°51	13° 2	S 30
S 31	22 35 12	7♂11'38	27♂45	25♂47	8♂22	20♂17	7♂49	14♂51	4♂46	12♂ 1	27♂25	24♂12	22♂30	16♂58	13♂ 1	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	18n12	21s58	0s17	7n46	2s 6	1n32	1s26	10n48	2s32	8s32	1s19	3n51	2s33	11n 7	0n44	13n46
S 2	17 56	17 57	0n59	7 20	2 18	1 6	1 34	11 0	2 32	8 35	1 19	3 51	2 33	11 5	0 44	13 46
S 3	17 41	13 6	2 9	6 55	2 30	0 40	1 43	11 11	2 32	8 37	1 19	3 51	2 33	11 4	0 44	13 46
M 4	17 25	7 44	3 12	6 32	2 42	0 14	1 51	11 22	2 32	8 39	1 20	3 50	2 34	11 3	0 44	13 46
T 5	17 10	2 10	4 3	6 11	2 54	0s12	1 59	11 33	2 32	8 42	1 20	3 50	2 34	11 2	0 44	13 46
W 6	16 53	3n21	4 41	5 51	3 6	0 37	2 8	11 44	2 32	8 44	1 20	3 49	2 34	11 0	0 44	13 46
T 7	16 37	8 37	5 5	5 33	3 18	1 3	2 17	11 55	2 32	8 47	1 20	3 48	2 35	10 59	0 43	13 46
F 8	16 20	13 28	5 14	5 17	3 29	1 28	2 26	12 6	2 31	8 49	1 21	3 48	2 35	10 58	0 43	13 46
S 9	16 3	17 45	5 10	5 4	3 40	1 53	2 35	12 16	2 31	8 52	1 21	3 47	2 35	10 56	0 43	13 46
S 10	15 46	21 18	4 53	4 52	3 50	2 17	2 44	12 27	2 31	8 55	1 21	3 46	2 35	10 55	0 43	13 46
M 11	15 28	23 58	4 23	4 43	4 0	2 42	2 53	12 37	2 31	8 57	1 21	3 46	2 36	10 54	0 43	13 46
T 12	15 11	25 36	3 42	4 37	4 9	3 6	3 3	12 47	2 31	9 0	1 21	3 45	2 36	10 52	0 43	13 46
W 13	14 52	26 2	2 50	4 34	4 18	3 29	3 12	12 57	2 31	9 3	1 22	3 44	2 36	10 51	0 43	13 46
T 14	14 34	25 13	1 50	4 34	4 25	3 53	3 22	13 7	2 31	9 6	1 22	3 43	2 36	10 50	0 43	13 46
F 15	14 16	23 6	0 43	4 36	4 31	4 16	3 32	13 17	2 30	9 9	1 22	3 42	2 37	10 48	0 43	13 46
S 16	13 57	19 45	0s28	4 42	4 36	4 38	3 42	13 26	2 30	9 12	1 22	3 41	2 37	10 47	0 43	13 46
S 17	13 38	15 19	1 39	4 51	4 40	5 0	3 52	13 36	2 30	9 14	1 22	3 40	2 37	10 46	0 43	13 46
M 18	13 19	10 1	2 46	5 3	4 42	5 22	4 2	13 45	2 30	9 17	1 22	3 39	2 37	10 44	0 43	13 46
T 19	13 0	4 8	3 45	5 18	4 43	5 43	4 12	13 54	2 29	9 20	1 23	3 38	2 38	10 43	0 43	13 46
W 20	12 40	2s 3	4 31	5 36	4 42	6 4	4 23	14 3	2 29	9 23	1 23	3 37	2 38	10 42	0 43	13 45
T 21	12 20	8 10	5 0	5 57	4 38	6 24	4 33	14 11	2 29	9 26	1 23	3 36	2 38	10 40	0 43	13 45
F 22	12 0	13 54	5 11	6 20	4 33	6 43	4 44	14 20	2 28	9 29	1 23	3 35	2 38	10 39	0 43	13 45
S 23	11 40	18 52	5 3	6 45	4 27	7 2	4 54	14 29	2 28	9 32	1 23	3 34	2 39	10 37	0 43	13 45
S 24	11 20	22 43	4 36	7 12	4 18	7 21	5 5	14 37	2 28	9 35	1 23	3 33	2 39	10 36	0 43	13 45
M 25	10 59	25 10	3 52	7 41	4 7	7 38	5 16	14 45	2 27	9 38	1 23	3 31	2 39	10 35	0 43	13 45
T 26	10 38	26 0	2 54	8 10	3 55	7 55	5 26	14 53	2 27	9 41	1 24	3 30	2 39	10 33	0 43	13 45
W 27	10 18	25 11	1 47	8 40	3 41	8 11	5 37	15 1	2 26	9 45	1 24	3 29	2 39	10 32	0 43	13 44
T 28	9 57	22 51	0 35	9 9	3 25	8 27	5 48	15 9	2 26	9 48	1 24	3 27	2 40	10 31	0 43	13 44
F 29	9 35	19 16	0n38	9 38	3 9	8 41	5 58	15 16	2 25	9 51	1 24	3 26	2 40	10 29	0 43	13 44
S 30	9 14	14 44	1 48	10 6	2 51	8 55	6 9	15 23	2 25	9 54	1 24	3 25	2 40	10 28	0 43	13 44
S 31	8n53	9s35	2n51	10n32	2s33	9s 8	6s20	15n31	2s24	9s57	1s24	3n23	2s40	10n26	0n43	13n44

Julian Day Number = 2407562.5, Delta T = -3.08 sec  
 Ecliptic obliquity = 23°27'21, Nutation = 0°00'17, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 23°03'31, Lahiri = 22°10'32

ASTRODIENST EPHEMERIS for the year 1879  
geocentric

SEPTEMBER 1879

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 39 8	8 <sup>h</sup> 9'42"	10 <sup>h</sup> 39'	25°R28	8 <sup>h</sup> 28'	20 <sup>h</sup> 42'	7°R41	14°R48	4 <sup>h</sup> 50'	12°R 0	27°R25	24°R 6	22 <sup>h</sup> 27'	17 <sup>h</sup> 5'	13°R 0	M 1
T 2	22 43 5	9° 7'47"	23°20'	25 <sup>h</sup> 17'	8°31'	21° 6'	7 <sup>h</sup> 33'	14°Y44	4°54'	12 <sup>h</sup> 8 0	27 <sup>h</sup> 25'	23 <sup>h</sup> 59'	22°24'	17°11'	13 <sup>h</sup> 0	T 2
W 3	22 47 2	10° 5'54"	5 <sup>h</sup> 48'	25°D14	8°R32	21°30'	7°25'	14°41'	4°58'	11°59'	27°25'	23°50'	22°21'	17°18'	12°59'	W 3
T 4	22 50 58	11° 4'02"	18° 3'	25°20'	8°30'	21°53'	7°17'	14°37'	5° 1'	11°58'	27°25'	23°42'	22°17'	17°25'	12°58'	T 4
F 5	22 54 55	12° 2'13"	0 <sup>h</sup> 8 8	25°35'	8°27'	22°16'	7° 9'	14°34'	5° 5'	11°58'	27°24'	23°34'	22°14'	17°32'	12°57'	F 5
S 6	22 58 51	13° 0'26"	12° 5'	25°59'	8°21'	22°38'	7° 1'	14°30'	5° 9'	11°57'	27°24'	23°28'	22°11'	17°38'	12°56'	S 6
S 7	23 2 48	13°58'40"	23°56'	26°31'	8°12'	23° 0'	6°53'	14°27'	5°13'	11°56'	27°24'	23°24'	22° 8'	17°45'	12°54'	S 7
M 8	23 6 44	14°56'57"	5 <sup>h</sup> 48'	27°12'	8° 2'	23°22'	6°46'	14°23'	5°16'	11°56'	27°24'	23°22'	22° 5'	17°52'	12°53'	M 8
T 9	23 10 41	15°55'16"	17°43'	28° 1'	7°48'	23°42'	6°38'	14°19'	5°20'	11°55'	27°24'	23°D21	22° 2'	17°58'	12°52'	T 9
W10	23 14 37	16°53'37"	29°48'	28°57'	7°33'	24° 2'	6°30'	14°15'	5°24'	11°54'	27°23'	23°22'	21°58'	18° 5'	12°51'	W10
T 11	23 18 34	17°51'59"	12 <sup>h</sup> 8 8	0 <sup>h</sup> 1 1	7°15'	24°22'	6°23'	14°11'	5°28'	11°53'	27°23'	23°23'	21°55'	18°12'	12°49'	T 11
F 12	23 22 31	18°50'24"	24°46'	1°11'	6°55'	24°41'	6°15'	14° 7'	5°31'	11°53'	27°23'	23°R23	21°52'	18°19'	12°48'	F 12
S 13	23 26 27	19°48'52"	7 <sup>h</sup> 48'	2°28'	6°33'	25° 0'	6° 7'	14° 3'	5°35'	11°52'	27°22'	23°22'	21°49'	18°25'	12°47'	S 13
S 14	23 30 24	20°47'21"	21°15'	3°51'	6° 8'	25°17'	6° 0'	13°59'	5°39'	11°51'	27°22'	23°19'	21°46'	18°32'	12°45'	S 14
M15	23 34 20	21°45'52"	5 <sup>h</sup> 48'	5°18'	5°42'	25°35'	5°53'	13°55'	5°42'	11°50'	27°22'	23°13'	21°42'	18°39'	12°43'	M15
T 16	23 38 17	22°44'25"	19°24'	6°50'	5°14'	25°51'	5°45'	13°51'	5°46'	11°49'	27°21'	23° 6'	21°39'	18°45'	12°42'	T 16
W17	23 42 13	23°43'00"	3 <sup>h</sup> 48'	8°26'	4°44'	26° 7'	5°38'	13°47'	5°50'	11°48'	27°21'	22°57'	21°36'	18°52'	12°40'	W17
T 18	23 46 10	24°41'37"	18°43'	10° 5'	4°12'	26°22'	5°31'	13°42'	5°53'	11°47'	27°21'	22°47'	21°33'	18°59'	12°38'	T 18
F 19	23 50 6	25°40'15"	3 <sup>h</sup> 48'	11°46'	3°39'	26°37'	5°24'	13°38'	5°57'	11°46'	27°20'	22°38'	21°30'	19° 5'	12°37'	F 19
S 20	23 54 3	26°38'56"	18°15'	13°30'	3° 5'	26°50'	5°17'	13°34'	6° 0'	11°45'	27°20'	22°31'	21°27'	19°12'	12°35'	S 20
S 21	23 58 0	27°37'38"	2 <sup>h</sup> 46'	15°16'	2°30'	27° 4'	5°10'	13°29'	6° 4'	11°44'	27°19'	22°26'	21°23'	19°19'	12°33'	S 21
M22	0 1 56	28°36'22"	17° 2'	17° 4'	1°54'	27°16'	5° 4'	13°25'	6° 8'	11°43'	27°19'	22°24'	21°20'	19°26'	12°31'	M22
T 23	0 5 53	29°35'08"	1 <sup>h</sup> 3 1	18°52'	1°17'	27°28'	4°57'	13°20'	6°11'	11°41'	27°18'	22°D23	21°17'	19°32'	12°29'	T 23
W24	0 9 49	0 <sup>h</sup> 33'55"	14°42'	20°41'	0°40'	27°39'	4°51'	13°16'	6°15'	11°40'	27°18'	22°24'	21°14'	19°39'	12°27'	W24
T 25	0 13 46	1°32'44"	28° 7'	22°30'	0° 3'	27°49'	4°44'	13°11'	6°18'	11°39'	27°17'	22°R24	21°11'	19°46'	12°25'	T 25
F 26	0 17 42	2°31'35"	11 <sup>h</sup> 18'	24°20'	29 <sup>h</sup> 27'	27°58'	4°38'	13° 7'	6°22'	11°38'	27°16'	22°22'	21° 8'	19°52'	12°23'	F 26
S 27	0 21 39	3°30'27"	24°16'	26°10'	28°50'	28° 7'	4°32'	13° 2'	6°25'	11°37'	27°16'	22°19'	21° 4'	19°59'	12°21'	S 27
S 28	0 25 35	4°29'21"	7 <sup>h</sup> 4 2	27°59'	28°14'	28°15'	4°26'	12°57'	6°29'	11°35'	27°15'	22°12'	21° 1'	20° 6'	12°18'	S 28
M29	0 29 32	5°28'18"	19°38'	29°48'	27°40'	28°22'	4°21'	12°53'	6°32'	11°34'	27°15'	22° 2'	20°58'	20°13'	12°16'	M29
T 30	0 33 29	6 <sup>h</sup> 27'15"	2 <sup>h</sup> 4 4	1 <sup>h</sup> 37'	27 <sup>h</sup> 6'	28 <sup>h</sup> 28'	4 <sup>h</sup> 15'	12°Y48	6 <sup>h</sup> 35'	11 <sup>h</sup> 33'	27 <sup>h</sup> 14'	21 <sup>h</sup> 51'	20 <sup>h</sup> 55'	20 <sup>h</sup> 19'	12 <sup>h</sup> 14'	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	8n31	4s 7	3n44	10n56	2s15	9s19	6s30	15n38	2s24	10s 0	1s24	3n22	2s40	10n25	0n43	13n44	1s49	6n 8	13s48	21s18	21s35	21n26	14n26	1s23	
T 2	8 9	1n24	4 25	11 17	1 56	9 30	6 40	15 45	2 23	10 3	1 24	3 20	2 41	10 24	0 43	13 43	1 49	6 8	13 48	21 20	21 36	21 27	14 26	1 23	
W 3	7 47	6 46	4 52	11 36	1 37	9 40	6 50	15 52	2 22	10 6	1 24	3 19	2 41	10 22	0 43	13 43	1 49	6 8	13 49	21 21	21 36	21 29	14 25	1 23	
T 4	7 25	11 47	5 6	11 52	1 18	9 48	7 0	15 58	2 22	10 9	1 24	3 18	2 41	10 21	0 43	13 43	1 49	6 7	13 49	21 23	21 37	21 31	14 25	1 23	
F 5	7 3	16 17	5 5	12 4	0 59	9 56	7 10	16 5	2 21	10 12	1 24	3 16	2 41	10 20	0 43	13 43	1 49	6 7	13 49	21 24	21 37	21 32	14 25	1 23	
S 6	6 41	20 5	4 51	12 13	0 42	10 2	7 19	16 11	2 20	10 15	1 24	3 14	2 41	10 18	0 43	13 42	1 49	6 7	13 49	21 25	21 38	21 34	14 24	1 24	
S 7	6 18	23 3	4 25	12 18	0 24	10 7	7 29	16 17	2 19	10 18	1 24	3 13	2 42	10 17	0 43	13 42	1 49	6 6	13 50	21 26	21 38	21 35	14 24	1 24	
M 8	5 56	25 1	3 47	12 20	0 8	10 11	7 37	16 23	2 18	10 21	1 24	3 11	2 42	10 15	0 43	13 42	1 49	6 6	13 50	21 26	21 39	21 37	14 23	1 24	
T 9	5 33	25 52	2 59	12 18	0n 8	10 13	7 46	16 29	2 18	10 24	1 24	3 10	2 42	10 14	0 43	13 42	1 49	6 6	13 50	21 26	21 39	21 38	14 23	1 24	
W10	5 11	25 31	2 3	12 12	0 22	10 14	7 54	16 35	2 17	10 26	1 25	3 8	2 42	10 13	0 43	13 41	1 49	6 6	13 50	21 26	21 40	21 40	14 22	1 24	
T 11	4 48	23 54	1 0	12 2	0 36	10 14	8 1	16 41	2 16	10 29	1 25	3 6	2 42	10 11	0 43	13 41	1 49	6 5	13 51	21 26	21 40	21 41	14 21	1 24	
F 12	4 25	21 4	0s 7	11 48	0 48	10 12	8 8	16 46	2 15	10 32	1 25	3 5	2 42	10 10	0 43	13 41	1 49	6 5	13 51	21 26	21 41	21 43	14 21	1 25	
S 13	4 2	17 6	1 16	11 31	0 59	10 9	8 14	16 52	2 14	10 35	1 25	3 3	2 43	10 9	0 44	13 40	1 49	6 5	13 51	21 26	21 41	21 44	14 20	1 25	
S 14	3 39	12 10	2 23	11 11	1 9	10 5	8 20	16 57	2 13	10 38	1 25	3 1	2 43	10 7	0 44	13 40	1 49	6 4	13 51	21 26	21 42	21 46	14 20	1 25	
M15	3 16	6 29	3 24	10 47	1 18	9 59	8 24	17 2	2 12	10 40	1 25	3 0	2 43	10 6	0 44	13 40	1 49	6 4	13 51	21 27	21 42	21 47	14 19	1 25	
T 16	2 53	0 19	4 13	10 20	1 26	9 51	8 29	17 7	2 11	10 43	1 24	2 58	2 43	10 5	0 44	13 39	1 49	6 4	13 52	21 29	21 43	21 49	14 18	1 25	
W17	2 30	5s58	4 47	9 51	1 33	9 42	8 32	17 12	2 10	10 46	1 24	2 56	2 43	10 3	0 44	13 39	1 49	6 3	13 52	21 30	21 43	21 50	14 18	1 25	
T 18	2 7	12 0	5 3	9 19	1 38	9 32	8 35	17 16	2 9	10 48	1 24	2 54	2 43	10 2	0 44	13 39	1 49	6 3	13 52	21 32	21 44	21 52	14 17	1 26	
F 19	1 43	17 22	4 58	8 44	1 43	9 21	8 36	17 21	2 7	10 51	1 24	2 52	2 43	10 1	0 44	13 38	1 49	6 3	13 52	21 33	21 44	21 53	14 16	1 26	
S 20	1 20	21 39	4 34	8 7	1 46	9 8	8 37	17 25	2 6	10 53	1 24	2 51	2 43	9 59	0 44	13 38	1 50	6 3	13 53	21 34	21 45	21 55	14 16	1 26	
S 21	0 57	24 31	3 52	7 29	1 49	8 54	8 37	17 29	2 5	10 56	1 24	2 49	2 44	9 58	0 44	13 38	1 50	6 2	13 53	21 35	21 45	21 56	14 15	1 26	
M22	0 33	25 45	2 56	6 49	1 51	8 38	8 36	17 33	2 4	10 58	1 24	2 47	2 44	9 57	0 44	13 37	1 50	6 2	13 53	21 36	21 46	21 58	14 14	1 26	
T 23	0 10	25 18	1 51	6 7	1 51	8 22	8 34	17 37	2 2	11 0	1 24	2 45	2 44	9 56	0 44	13 37	1 50	6 2	13 53	21 36	21 46	21 59	14 13	1 26	
W24	0s13	23 19	0 41	5 24	1 51	8 5	8 31	17 41	2 1	11 3	1 24	2 43	2 44	9 54	0 44	13 36	1 50	6 1	13 54	21 36	21 47	22 1	14 13	1 26	
T 25	0 37	20 3	0n30	4 40	1 51	7 46	8 27	17 45	1 59	11 5	1 24	2 42	2 44	9 53	0 44	13 36	1 50	6 1	13 54	21 36	21 47	22 2	14 12	1 27	
F 26	1 0	15 49	1 39	3 56	1 49	7 27	8 22	17 48	1 58	11 7	1 24	2 40	2 44	9 52	0 44	13 36	1 50	6 1	13 54	21 36	21 48	22 4	14 11	1 27	
S 27	1 24	10 55	2 40	3 10	1 47	7 8	8 17	17 52	1 56	11 9	1 24	2 38	2 44	9 50	0 44	13 35	1 50	6 0	13 54	21 36	21 48	22 5	14 10	1 27	
S 28	1 47	5 38	3 33	2 24	1 45	6 47	8 10	17 55	1 55	11 11	1 24	2 36	2 44	9 49	0 44	13 35	1 50	6 0	13 54	21 38	21 49	22 7	14 10	1 27	
M29	2 10	0 12	4 14	1 38	1 42	6 27	8 3	17 58	1 53	11 13	1 24	2 34	2 44	9 48	0 44	13 34	1 50	6 0	13 55	21 39	21 49	22 8	14 9	1 27	
T 30	2s34	5n 9	4n43	0n52	1n38	6s 6	7s55	18n 1	1s51	11s15	1s24	2n32	2s44	9n47	0n44	13n34	1s50	5n59	13s55	21s41	21s50	22n 9	14n 8	1s27	

ASTRODIENST EPHEMERIS for the year 1879  
geocentric

OCTOBER 1879

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 37 25	7 <sup>h</sup> 26'16"	14 <sup>h</sup> 20'	3 <sup>h</sup> 25'	26°R33	28°R34	4°R10	12°R43	6 <sup>h</sup> 39'	11°R32	27°R13	21°R37	20°R52	20°R26	12°R12	W 1
T 2	0 41 22	8°25'18"	26°28'	5°13'	26°R2	28°R38	4 <sup>h</sup> 4'	12°R39	6°42'	11°R30	27°R13	21°R34	20°48'	20°33'	12°R9	T 2
F 3	0 45 18	9°24'22"	8°R28	7°0'	25°33'	28°42'	3°59'	12°34'	6°45'	11°29'	27°12'	21°11'	20°45'	20°39'	12°7'	F 3
S 4	0 49 15	10°23'28"	20°21'	8°46'	25°6'	28°45'	3°54'	12°29'	6°49'	11°27'	27°11'	21°0'	20°42'	20°46'	12°4'	S 4
S 5	0 53 11	11°22'37"	2 <sup>h</sup> 11'	10°32'	24°40'	28°47'	3°50'	12°25'	6°52'	11°26'	27°11'	20°52'	20°39'	20°53'	12°2'	S 5
M 6	0 57 8	12°21'48"	14°0'	12°17'	24°17'	28°48'	3°45'	12°20'	6°55'	11°25'	27°10'	20°46'	20°36'	20°59'	11°59'	M 6
T 7	1 1 4	13°21'01"	25°54'	14°1'	23°56'	28°R49	3°40'	12°15'	6°58'	11°23'	27°9'	20°43'	20°33'	21°6'	11°57'	T 7
W 8	1 5 1	14°20'17"	7°R55	15°44'	23°37'	28°48'	3°36'	12°10'	7°2'	11°22'	27°8'	20°42'	20°29'	21°13'	11°54'	W 8
T 9	1 8 57	15°19'35"	20°11'	17°27'	23°21'	28°46'	3°32'	12°6'	7°5'	11°20'	27°7'	20°42'	20°26'	21°20'	11°52'	T 9
F 10	1 12 54	16°18'55"	2°R46	19°9'	23°6'	28°44'	3°28'	12°1'	7°8'	11°19'	27°7'	20°42'	20°23'	21°26'	11°49'	F 10
S 11	1 16 51	17°18'18"	15°46'	20°50'	22°55'	28°41'	3°24'	11°56'	7°11'	11°17'	27°6'	20°40'	20°20'	21°33'	11°46'	S 11
S 12	1 20 47	18°17'42"	29°13'	22°30'	22°46'	28°37'	3°21'	11°52'	7°14'	11°16'	27°5'	20°36'	20°17'	21°40'	11°44'	S 12
M13	1 24 44	19°17'09"	13°R9	24°10'	22°39'	28°32'	3°18'	11°47'	7°17'	11°14'	27°4'	20°30'	20°14'	21°46'	11°41'	M13
T 14	1 28 40	20°16'39"	27°35'	25°49'	22°35'	28°26'	3°14'	11°42'	7°20'	11°13'	27°3'	20°21'	20°10'	21°53'	11°38'	T 14
W15	1 32 37	21°16'10"	12°R24	27°27'	22°D33	28°19'	3°11'	11°38'	7°23'	11°11'	27°2'	20°10'	20°7'	22°0'	11°35'	W15
T 16	1 36 33	22°15'43"	27°28'	29°5'	22°34'	28°11'	3°9'	11°33'	7°26'	11°10'	27°2'	19°58'	20°4'	22°6'	11°33'	T 16
F 17	1 40 30	23°15'19"	12°R39	0°R42	22°37'	28°2'	3°6'	11°28'	7°29'	11°8'	27°1'	19°47'	20°1'	22°13'	11°30'	F 17
S 18	1 44 26	24°14'57"	27°45'	2°18'	22°42'	27°53'	3°4'	11°24'	7°32'	11°6'	27°0'	19°38'	19°58'	22°20'	11°27'	S 18
S 19	1 48 23	25°14'36"	12°R7	3°54'	22°49'	27°42'	3°1'	11°19'	7°35'	11°5'	26°59'	19°32'	19°54'	22°27'	11°24'	S 19
M20	1 52 20	26°14'17"	27°36'	5°29'	22°59'	27°31'	2°59'	11°15'	7°38'	11°3'	26°58'	19°28'	19°51'	22°33'	11°21'	M20
T 21	1 56 16	27°14'00"	11°R14	7°3'	23°11'	27°19'	2°58'	11°10'	7°40'	11°2'	26°57'	19°27'	19°48'	22°40'	11°18'	T 21
W22	2 0 13	28°13'45"	24°57'	8°37'	23°25'	27°6'	2°56'	11°6'	7°43'	11°0'	26°56'	19°27'	19°45'	22°47'	11°15'	W22
T 23	2 4 9	29°13'31"	8°R18	10°11'	23°41'	26°52'	2°55'	11°2'	7°46'	10°58'	26°55'	19°26'	19°42'	22°53'	11°12'	T 23
F 24	2 8 6	0°R13'19"	21°19'	11°43'	23°59'	26°38'	2°53'	10°57'	7°48'	10°57'	26°54'	19°25'	19°39'	23°0'	11°9'	F 24
S 25	2 12 2	1°13'08"	4°R4	13°16'	24°19'	26°23'	2°52'	10°53'	7°51'	10°55'	26°53'	19°21'	19°35'	23°7'	11°6'	S 25
S 26	2 15 59	2°12'59"	16°36'	14°47'	24°41'	26°7'	2°52'	10°49'	7°54'	10°53'	26°52'	19°14'	19°32'	23°13'	11°3'	S 26
M27	2 19 55	3°12'52"	28°57'	16°19'	25°5'	25°50'	2°51'	10°45'	7°56'	10°52'	26°51'	19°5'	19°29'	23°20'	11°0'	M27
T 28	2 23 52	4°12'47"	11°R9	17°49'	25°31'	25°33'	2°51'	10°40'	7°59'	10°50'	26°50'	18°53'	19°26'	23°27'	10°57'	T 28
W29	2 27 49	5°12'43"	23°14'	19°20'	25°58'	25°15'	2°D51	10°36'	8°1'	10°48'	26°49'	18°39'	19°23'	23°34'	10°54'	W29
T 30	2 31 45	6°12'42"	5°R14	20°49'	26°27'	24°57'	2°51'	10°32'	8°3'	10°47'	26°48'	18°26'	19°19'	23°40'	10°51'	T 30
F 31	2 35 42	7°12'42"	17°R8	22°R18	26°R57	24°R38	2°R51	10°R28	8°R6	10°R45	26°R47	18°R13	19°R16	23°R47	10°R48	F 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
W 1	2s57	10n14	4n58	0n 5	1n35	5s45	7s46	18n 4	1s50	11s17	1s23	2n30	2s44	9n45	0n44	13n33
T 2	3 21	14 52	4 59	0s42	1 30	5 24	7 36	18 7	1 48	11 19	1 23	2 29	2 44	9 44	0 44	13 33
F 3	3 44	18 51	4 47	1 28	1 26	5 3	7 26	18 10	1 46	11 21	1 23	2 27	2 44	9 43	0 44	13 33
S 4	4 7	22 4	4 22	2 15	1 21	4 42	7 15	18 12	1 44	11 22	1 23	2 25	2 44	9 42	0 44	13 32
S 5	4 30	24 19	3 47	3 1	1 15	4 22	7 4	18 14	1 42	11 24	1 23	2 23	2 44	9 41	0 44	13 32
M 6	4 53	25 30	3 1	3 47	1 10	4 2	6 52	18 17	1 40	11 26	1 23	2 21	2 44	9 39	0 44	13 31
T 7	5 16	25 31	2 7	4 33	1 4	3 42	6 40	18 19	1 38	11 27	1 23	2 19	2 44	9 38	0 44	13 31
W 8	5 39	24 20	1 7	5 18	0 58	3 23	6 27	18 21	1 36	11 29	1 23	2 17	2 44	9 37	0 44	13 30
T 9	6 2	21 59	0 3	6 3	0 52	3 5	6 14	18 22	1 34	11 30	1 23	2 16	2 44	9 36	0 44	13 30
F 10	6 25	18 31	1s 3	6 48	0 46	2 47	6 1	18 24	1 32	11 31	1 22	2 14	2 44	9 35	0 44	13 29
S 11	6 48	14 5	2 8	7 32	0 39	2 31	5 48	18 25	1 29	11 32	1 22	2 12	2 44	9 34	0 44	13 29
S 12	7 11	8 49	3 8	8 15	0 33	2 15	5 34	18 27	1 27	11 34	1 22	2 10	2 44	9 33	0 44	13 28
M13	7 33	2 56	3 59	8 58	0 26	2 0	5 21	18 28	1 25	11 35	1 22	2 8	2 44	9 31	0 44	13 28
T 14	7 56	3s16	4 37	9 41	0 20	1 46	5 7	18 29	1 22	11 36	1 22	2 7	2 44	9 30	0 44	13 27
W15	8 18	9 28	4 57	10 22	0 13	1 32	4 54	18 30	1 20	11 37	1 22	2 5	2 44	9 29	0 44	13 27
T 16	8 40	15 12	4 58	11 4	0 6	1 20	4 40	18 31	1 17	11 38	1 21	2 3	2 44	9 28	0 44	13 26
F 17	9 3	20 2	4 37	11 44	0s 1	1 9	4 27	18 31	1 15	11 38	1 21	2 1	2 44	9 27	0 44	13 26
S 18	9 25	23 31	3 57	12 24	0 8	0 59	4 13	18 32	1 12	11 39	1 21	2 0	2 44	9 26	0 44	13 25
S 19	9 46	25 19	3 1	13 3	0 14	0 49	4 0	18 32	1 9	11 40	1 21	1 58	2 44	9 25	0 44	13 25
M20	10 8	25 21	1 55	13 42	0 21	0 41	3 47	18 32	1 7	11 40	1 21	1 56	2 44	9 24	0 44	13 24
T 21	10 30	23 42	0 43	14 19	0 28	0 34	3 34	18 32	1 4	11 41	1 21	1 55	2 44	9 23	0 44	13 24
W22	10 51	20 41	0n29	14 56	0 35	0 28	3 21	18 32	1 1	11 41	1 20	1 53	2 44	9 22	0 44	13 23
T 23	11 12	16 38	1 38	15 32	0 42	0 22	3 8	18 32	0 58	11 41	1 20	1 51	2 44	9 21	0 44	13 23
F 24	11 33	11 53	2 40	16 8	0 48	0 18	2 56	18 31	0 55	11 42	1 20	1 50	2 44	9 20	0 44	13 22
S 25	11 54	6 43	3 33	16 42	0 55	0 15	2 43	18 31	0 52	11 42	1 20	1 48	2 44	9 19	0 44	13 22
S 26	12 15	1 24	4 14	17 16	1 1	0 12	2 31	18 30	0 49	11 42	1 20	1 47	2 43	9 18	0 45	13 21
M27	12 36	3n54	4 43	17 49	1 8	0 11	2 20	18 29	0 46	11 42	1 20	1 45	2 43	9 17	0 45	13 21
T 28	12 56	8 59	4 58	18 20	1 14	0 10	2 8	18 28	0 43	11 42	1 19	1 43	2 43	9 16	0 45	13 20
W29	13 16	13 40	5 0	18 52	1 20	0 11	1 57	18 27	0 40	11 42	1 19	1 42	2 43	9 16	0 45	13 20
T 30	13 36	17 48	4 48	19 22	1 26	0 12	1 45	18 25	0 37	11 42	1 19	1 41	2 43	9 15	0 45	13 19
F 31	13s56	21n11	4n24	19s51	1s32	0s14	1s34	18n24	0s33	11s41	1s19	1n39	2s43	9n14	0n45	13n19

Julian Day Number = 2407623.5, Delta T = -3.14 sec  
Ecliptic obliquity = 23°27'22", Nutation = 0°00'15", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 23°03'40", Lahiri = 22°10'40"

## ASTRODIENST EPHEMERIS for the year 1879

geocentric

NOVEMBER 1879

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 39 38	8♈12'44	28♈59	23♈47	27♈29	24°R18	2♈51	10°R25	8♈8	10°R43	26°R46	18°R 1	19♈13	23♈54	10°R45	S 1
S 2	2 43 35	9°12'49	10♈48	25°15	28° 3	23♈59	2°52	10°Y21	8°10	10♈42	26♈45	17♈53	19°10	24° 0	10♈42	S 2
M 3	2 47 31	10°12'55	22°39	26°43	28°38	23°38	2°53	10°17	8°13	10°40	26°44	17°47	19° 7	24° 7	10°39	M 3
T 4	2 51 28	11°13'03	4♈33	28°10	29°14	23°18	2°54	10°13	8°15	10°38	26°43	17°44	19° 4	24°14	10°36	T 4
W 5	2 55 24	12°13'13	16°34	29°36	29°52	22°57	2°55	10°10	8°17	10°37	26°41	17°D43	19° 0	24°20	10°33	W 5
T 6	2 59 21	13°13'26	28°48	1♈2	0♈30	22°35	2°57	10° 6	8°19	10°35	26°40	17°43	18°57	24°27	10°30	T 6
F 7	3 3 18	14°13'40	11♈20	2°27	1°11	22°14	2°58	10° 3	8°21	10°33	26°39	17°R44	18°54	24°34	10°27	F 7
S 8	3 7 14	15°13'56	24°13	3°52	1°52	21°52	3° 0	9°59	8°23	10°32	26°38	17°44	18°51	24°41	10°24	S 8
S 9	3 11 11	16°14'15	7♈33	5°15	2°34	21°30	3° 2	9°56	8°25	10°30	26°37	17°41	18°48	24°47	10°21	S 9
M10	3 15 7	17°14'35	21°22	6°38	3°18	21° 8	3° 4	9°53	8°27	10°28	26°36	17°37	18°45	24°54	10°18	M10
T 11	3 19 4	18°14'57	5♈42	8° 0	4° 3	20°46	3° 7	9°49	8°29	10°26	26°35	17°30	18°41	25° 1	10°15	T 11
W12	3 23 0	19°15'22	20°28	9°21	4°48	20°25	3°10	9°46	8°31	10°25	26°34	17°22	18°38	25° 7	10°12	W12
T 13	3 26 57	20°15'48	5♈35	10°40	5°35	20° 3	3°12	9°43	8°32	10°23	26°33	17°13	18°35	25°14	10° 9	T 13
F 14	3 30 53	21°16'15	20°53	11°59	6°22	19°41	3°15	9°40	8°34	10°21	26°32	17° 4	18°32	25°21	10° 6	F 14
S 15	3 34 50	22°16'45	6♈11	13°16	7°11	19°20	3°19	9°37	8°36	10°20	26°30	16°57	18°29	25°27	10° 3	S 15
S 16	3 38 47	23°17'16	21°18	14°31	8° 0	18°58	3°22	9°35	8°37	10°18	26°29	16°52	18°25	25°34	10° 0	S 16
M17	3 42 43	24°17'49	6♈5	15°45	8°50	18°37	3°26	9°32	8°39	10°17	26°28	16°49	18°22	25°41	9°57	M17
T 18	3 46 40	25°18'22	20°27	16°57	9°41	18°17	3°30	9°29	8°41	10°15	26°27	16°D49	18°19	25°48	9°54	T 18
W19	3 50 36	26°18'57	4♈21	18° 6	10°33	17°57	3°34	9°27	8°42	10°13	26°26	16°50	18°16	25°54	9°51	W19
T 20	3 54 33	27°19'34	17°48	19°13	11°25	17°37	3°38	9°25	8°43	10°12	26°25	16°51	18°13	26° 1	9°48	T 20
F 21	3 58 29	28°20'11	0♈51	20°16	12°18	17°17	3°42	9°22	8°45	10°10	26°24	16°R51	18°10	26° 8	9°45	F 21
S 22	4 2 26	29°20'49	13°34	21°17	13°12	16°59	3°47	9°20	8°46	10° 9	26°23	16°50	18° 6	26°14	9°42	S 22
S 23	4 6 22	0♈21'29	25°59	22°13	14° 6	16°40	3°52	9°18	8°47	10° 7	26°21	16°47	18° 3	26°21	9°40	S 23
M24	4 10 19	1°22'09	8°Y12	23° 5	15° 1	16°23	3°57	9°16	8°48	10° 5	26°20	16°41	18° 0	26°28	9°37	M24
T25	4 14 16	2°22'51	20°16	23°52	15°57	16° 6	4° 2	9°14	8°50	10° 4	26°19	16°34	17°57	26°34	9°34	T25
W26	4 18 12	3°23'34	2♈13	24°33	16°53	15°49	4° 7	9°12	8°51	10° 2	26°18	16°26	17°54	26°41	9°31	W26
T27	4 22 9	4°24'18	14° 6	25° 9	17°50	15°34	4°13	9°11	8°52	10° 1	26°17	16°17	17°51	26°48	9°29	T27
F 28	4 26 5	5°25'04	25°57	25°37	18°48	15°19	4°18	9° 9	8°53	9°59	26°16	16° 9	17°47	26°54	9°26	F 28
S 29	4 30 2	6°25'50	7♈48	25°57	19°46	15° 4	4°24	9° 8	8°54	9°58	26°15	16° 2	17°44	27° 1	9°23	S 29
S 30	4 33 58	7♈26'38	19♈40	26♈8	20♈44	14♈51	4♈30	9°Y 6	8♈54	9♈56	26♈14	15♈57	17♈41	27♈8	9♈21	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
S 1	14s15	23n39	3n48	20s19	1s38	0s17	1s24	18n22	0s30	11s41	1s19	1n38	2s43	9n13	0n45	13n18	1s51	5n49	13s59	22s14	22s 5	22n52	13n37	1s31			
S 2	14 34	25 6	3 3	20 46	1 44	0 21	1 13	18 21	0 27	11 41	1 18	1 36	2 43	9 12	0 45	13 17	1 51	5 49	13 59	22 16	22 5	22 53	13 36	1 31			
M 3	14 54	25 24	2 9	21 12	1 49	0 25	1 3	18 19	0 24	11 40	1 18	1 35	2 42	9 11	0 45	13 17	1 51	5 48	13 59	22 16	22 6	22 54	13 35	1 31			
T 4	15 12	24 32	1 10	21 37	1 54	0 31	0 53	18 17	0 20	11 40	1 18	1 34	2 42	9 11	0 45	13 16	1 51	5 48	13 59	22 17	22 6	22 55	13 34	1 32			
W 5	15 31	22 32	0 6	22 1	1 59	0 37	0 44	18 15	0 17	11 39	1 18	1 32	2 42	9 10	0 45	13 16	1 51	5 48	13 59	22 17	22 6	22 56	13 33	1 32			
T 6	15 49	19 27	0s59	22 24	2 4	0 44	0 34	18 13	0 14	11 38	1 18	1 31	2 42	9 9	0 45	13 15	1 51	5 48	13 59	22 17	22 7	22 58	13 32	1 32			
F 7	16 7	15 26	2 3	22 46	2 9	0 51	0 25	18 10	0 11	11 37	1 17	1 30	2 42	9 8	0 45	13 15	1 51	5 47	13 59	22 17	22 7	22 59	13 31	1 32			
S 8	16 25	10 36	3 2	23 7	2 13	0 59	0 16	18 8	0 7	11 37	1 17	1 29	2 42	9 8	0 45	13 14	1 51	5 47	13 59	22 17	22 8	23 0	13 30	1 32			
S 9	16 42	5 7	3 54	23 26	2 17	1 8	0 8	18 5	0 4	11 36	1 17	1 28	2 42	9 7	0 45	13 14	1 51	5 47	13 59	22 17	22 8	23 1	13 29	1 32			
M10	17 0	0s46	4 34	23 44	2 20	1 18	0n 1	18 3	0 1	11 35	1 17	1 26	2 41	9 6	0 45	13 13	1 51	5 47	13 59	22 18	22 9	23 2	13 28	1 32			
T 11	17 16	6 50	4 58	24 1	2 24	1 28	0 9	18 0	0n 3	11 34	1 17	1 25	2 41	9 6	0 45	13 13	1 51	5 46	13 59	22 19	22 9	23 3	13 27	1 32			
W12	17 33	12 42	5 4	24 17	2 27	1 39	0 17	17 57	0 6	11 32	1 16	1 24	2 41	9 5	0 45	13 12	1 50	5 46	13 59	22 20	22 10	23 4	13 26	1 32			
T 13	17 49	17 56	4 50	24 31	2 29	1 50	0 25	17 55	0 9	11 31	1 16	1 23	2 41	9 4	0 45	13 12	1 50	5 46	14 0	22 21	22 10	23 6	13 25	1 32			
F 14	18 5	22 4	4 14	24 45	2 31	2 2	0 32	17 52	0 12	11 30	1 16	1 22	2 41	9 4	0 45	13 11	1 50	5 46	14 0	22 22	22 10	23 7	13 24	1 32			
S 15	18 21	24 38	3 20	24 56	2 33	2 15	0 40	17 49	0 16	11 29	1 16	1 21	2 40	9 3	0 45	13 11	1 50	5 45	13 59	22 23	22 11	23 8	13 23	1 32			
S 16	18 36	25 22	2 13	25 7	2 34	2 28	0 47	17 46	0 19	11 27	1 16	1 21	2 40	9 3	0 45	13 10	1 50	5 45	13 59	22 23	22 11	23 9	13 22	1 33			
M17	18 51	24 16	0 57	25 16	2 35	2 41	0 53	17 44	0 22	11 26	1 15	1 20	2 40	9 2	0 45	13 10	1 50	5 45	13 59	22 24	22 12	23 10	13 21	1 33			
T 18	19 6	21 35	0n20	25 23	2 35	2 55	1 0	17 41	0 25	11 24	1 15	1 19	2 40	9 1	0 45	13 9	1 50	5 45	13 59	22 24	22 12	23 11	13 20	1 33			
W19	19 21	17 41	1 33	25 29	2 35	3 10	1 6	17 38	0 28	11 22	1 15	1 18	2 40	9 1	0 45	13 9	1 50	5 44	13 59	22 24	22 13	23 12	13 19	1 33			
T 20	19 35	12 59	2 39	25 34	2 33	3 24	1 12	17 36	0 31	11 21	1 15	1 17	2 39	9 0	0 45	13 8	1 50	5 44	13 59	22 24	22 13	23 13	13 18	1 33			
F 21	19 48	7 50	3 35	25 37	2 31	3 40	1 18	17 33	0 34	11 19	1 15	1 17	2 39	9 0	0 46	13 8	1 50	5 44	13 59	22 24	22 13	23 15	13 17	1 33			
S 22	20 1	2 30	4 18	25 38	2 29	3 55	1 24	17 30	0 37	11 17	1 14	1 16	2 39	9 0	0 46	13 7	1 50	5 44	13 59	22 24	22 14	23 16	13 16	1 33			
S 23	20 14	2n49	4 48	25 38	2 25	4 11	1 30	17 28	0 40	11 15	1 14	1 15	2 39	8 59	0 46	13 7	1 50	5 44	13 59	22 24	22 14	23 17	13 15	1 33			
M24	20 27	7 55	5 5	25 37	2 20	4 28	1 35	17 26	0 42	11 13	1 14	1 15	2 38	8 59	0 46	13 6	1 50	5 43	13 59	22 25	22 15	23 18	13 14	1 33			
T25	20 39	12 40	5 8	25 34	2 15	4 44	1 40	17 23	0 45	11 11	1 14	1 14	2 38	8 58	0 46	13 6	1 50	5 43	13 59	22 26	22 15	23 19	13 13	1 33			
W26	20 51	16 53	4 57	25 29	2 8	5 2	1 45	17 21	0 48	11 9	1 14	1 14	2 38	8 58	0 46	13 6	1 50	5 43	13 59	22 27	22 15	23 20	13 12	1 33			
T27	21 2	20 25	4 33	25 22	2 0	5 19	1 50	17 19	0 50	11 7	1 14	1 13	2 38	8 58	0 46	13 5	1 50	5 43	13 59	22 28	22 16	23 21	13 11	1 33			
F 28	21 13	23 6	3 58	25 14	1 51	5 37	1 54	17 17	0 53	11 5	1 13	1 13	2 38	8 57	0 46	13 5	1 50	5 43	13 59	22 29	22 16	23 22	13 10	1 33			
S 29	21 24	24 47	3 12	25 4	1 41	5 55	1 58	17 15	0 56	11 2	1 13	1 13	2 37	8 57	0 46	13 4	1 50	5 43	13 59	22 29	22 17	23 23	13 9	1 33			
S 30	21s34	25n21	2n18	24s53	1s29	6s13	2n 2	17n14	0n58	11s 0	1s13	1n12	2s37	8n57	0n46	13n 4	1s50	5n42	13s59	22s30	22s17	23n24	13n 9	1s33			

# ASTRODIENST EPHEMERIS for the year 1879

## geocentric

DECEMBER 1879

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 37 55	8°27'27"	1°36'36"	26°R10	21°43'	14°R38	4°36'	9°R 5	8°55'	9°R55	26°R12	15°R54	17°38'	27°15'	9°R18	M 1
T 2	4 41 51	9°28'18"	13°36'	26°R 1	22°43'	14°R26	4°43'	9°R 4	8°56'	9°R54	26°R11	15°D53	17°35'	27°21'	9°R16	T 2
W 3	4 45 48	10°29'09"	25°45'	25°42'	23°43'	14°15'	4°49'	9° 3	8°57'	9°52	26°10'	15°R54	17°31'	27°28'	9°13	W 3
T 4	4 49 45	11°30'02"	8°45'	25°12'	24°43'	14° 4	4°56'	9° 2	8°57'	9°51	26° 9	15°55'	17°28'	27°35'	9°11	T 4
F 5	4 53 41	12°30'56"	20°39'	24°30'	25°44'	13°54'	5° 3	9° 1	8°58'	9°49	26° 8	15°57'	17°25'	27°41'	9° 8	F 5
S 6	4 57 38	13°31'52"	3°31'	23°37'	26°45'	13°46'	5°10'	9° 0	8°58'	9°48	26° 7	15°58'	17°22'	27°48'	9° 6	S 6
S 7	5 1 34	14°32'48"	16°45'	22°35'	27°47'	13°37'	5°17'	9° 0	8°59'	9°47	26° 6	15°R59	17°19'	27°55'	9° 3	S 7
M 8	5 5 31	15°33'46"	0°24'	21°24'	28°49'	13°30'	5°24'	8°59'	8°59'	9°45	26° 5	15°58'	17°16'	28° 1	9° 1	M 8
T 9	5 9 27	16°34'45"	14°29'	20° 6	29°52'	13°24'	5°32'	8°59'	9° 0	9°44	26° 4	15°55'	17°12'	28° 8	8°59	T 9
W10	5 13 24	17°35'45"	28°59'	18°45'	0°55'	13°18'	5°39'	8°58'	9° 0	9°43	26° 3	15°52'	17° 9	28°15'	8°57	W10
T11	5 17 20	18°36'47"	13°51'	17°22'	1°58'	13°13'	5°47'	8°58'	9° 0	9°42	26° 2	15°48'	17° 6	28°21'	8°54	T11
F12	5 21 17	19°37'49"	28°56'	16° 0	3° 1	13° 9	5°55'	8°D58	9° 0	9°40	26° 1	15°44'	17° 3	28°28'	8°52	F12
S13	5 25 14	20°38'53"	14°R 8	14°43'	4° 5	13° 6	6° 3	8°58'	9° 1	9°39	26° 0	15°41'	17° 0	28°35'	8°50	S13
S14	5 29 10	21°39'57"	29°14'	13°32'	5° 9	13° 4	6°11'	8°58'	9° 1	9°38	25°59'	15°39'	16°57'	28°42'	8°48	S14
M15	5 33 7	22°41'02"	14°R 7	12°29'	6°14'	13° 2	6°20'	8°58'	9°R 1	9°37	25°58'	15°D38	16°53'	28°48'	8°46	M15
T16	5 37 3	23°42'08"	28°38'	11°36'	7°19'	13°D 2	6°28'	8°59'	9° 1	9°36	25°57'	15°38'	16°50'	28°55'	8°44	T16
W17	5 41 0	24°43'14"	12°44'	10°54'	8°24'	13° 2	6°37'	8°59'	9° 1	9°35	25°56'	15°40'	16°47'	29° 2	8°42	W17
T18	5 44 56	25°44'20"	26°22'	10°23'	9°29'	13° 3	6°46'	9° 0	9° 0	9°34	25°55'	15°41'	16°44'	29° 8	8°40	T18
F19	5 48 53	26°45'26"	9°34'	10° 3	10°35'	13° 4	6°55'	9° 0	9° 0	9°33	25°54'	15°42'	16°41'	29°15'	8°39	F19
S20	5 52 50	27°46'33"	22°22'	9°D54	11°41'	13° 7	7° 4	9° 1	9° 0	9°32	25°53'	15°R43	16°37'	29°22'	8°37	S20
S21	5 56 46	28°47'40"	4°R50	9°54'	12°47'	13°10'	7°13'	9° 2	9° 0	9°31	25°52'	15°43'	16°34'	29°28'	8°35	S21
M22	6 0 43	29°48'47"	17° 2	10° 4	13°53'	13°14'	7°23'	9° 3	8°59'	9°30	25°51'	15°42'	16°31'	29°35'	8°34	M22
T23	6 4 39	0°39'54"	29° 2	10°22'	15° 0	13°19'	7°32'	9° 4	8°59'	9°29	25°50'	15°41'	16°28'	29°42'	8°32	T23
W24	6 8 36	1°51'01"	10°R56	10°48'	16° 7	13°24'	7°42'	9° 5	8°58'	9°28	25°49'	15°39'	16°25'	29°48'	8°30	W24
T25	6 12 32	2°52'09"	22°46'	11°22'	17°14'	13°30'	7°52'	9° 7	8°58'	9°27	25°48'	15°37'	16°22'	29°55'	8°29	T25
F26	6 16 29	3°53'17"	4°R36	12° 1	18°21'	13°37'	8° 1	9° 8	8°57'	9°26	25°48'	15°35'	16°18'	0°II 2	8°28	F26
S27	6 20 25	4°54'25"	16°29'	12°46'	19°28'	13°45'	8°11'	9°10	8°56'	9°25	25°47'	15°33'	16°15'	0° 8	8°26	S27
S28	6 24 22	5°55'33"	28°27'	13°36'	20°36'	13°53'	8°22'	9°11	8°56'	9°25	25°46'	15°32'	16°12'	0°15	8°25	S28
M29	6 28 19	6°56'41"	10°R31	14°30'	21°44'	14° 2	8°32'	9°13	8°55'	9°24	25°45'	15°D32	16° 9	0°22	8°24	M29
T30	6 32 15	7°57'49"	22°44'	15°28'	22°52'	14°11'	8°42'	9°15	8°54'	9°23	25°44'	15°32'	16° 6	0°29	8°22	T30
W31	6 36 12	8°58'58"	5°R 8	16°R30	24°R 0	14°R21	8°R53	9°R17	8°R53	9°R22	25°R43	15°R32	16°R 3	0°II35	8°R21	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	21s44	24n44	1n17	24s40	1s16	6s31	2n 6	17n12	1n 0	10s57	1s13	1n12	2s37	8n56	0n46	13n 3
T 2	21 53	22 58	0 12	24 25	1 1	6 50	2 10	17 11	1 3	10 55	1 13	1 12	2 37	8 56	0 46	13 3
W 3	22 2	20 8	0s54	24 8	0 45	7 9	2 13	17 9	1 5	10 52	1 12	1 12	2 36	8 56	0 46	13 3
T 4	22 11	16 21	1 58	23 50	0 28	7 28	2 17	17 8	1 7	10 50	1 12	1 11	2 36	8 56	0 46	13 2
F 5	22 19	11 48	2 59	23 30	0 9	7 47	2 20	17 7	1 9	10 47	1 12	1 11	2 36	8 56	0 46	13 2
S 6	22 26	6 37	3 52	23 8	0n10	8 6	2 23	17 7	1 11	10 44	1 12	1 11	2 36	8 55	0 46	13 1
S 7	22 34	1 2	4 34	22 44	0 31	8 26	2 26	17 6	1 13	10 42	1 12	1 11	2 35	8 55	0 46	13 1
M 8	22 40	4s47	5 2	22 20	0 51	8 45	2 28	17 6	1 15	10 39	1 12	1 11	2 35	8 55	0 46	13 1
T 9	22 47	10 31	5 13	21 54	1 11	9 5	2 31	17 6	1 17	10 36	1 11	1 11	2 35	8 55	0 46	13 0
W10	22 53	15 52	5 5	21 29	1 30	9 24	2 33	17 6	1 19	10 33	1 11	1 11	2 35	8 55	0 46	13 0
T11	22 58	20 24	4 37	21 4	1 48	9 44	2 35	17 6	1 21	10 30	1 11	1 12	2 34	8 55	0 46	13 0
F12	23 3	23 40	3 49	20 39	2 5	10 4	2 37	17 6	1 22	10 27	1 11	1 12	2 34	8 55	0 46	12 59
S13	23 8	25 14	2 45	20 17	2 19	10 24	2 39	17 7	1 24	10 24	1 11	1 12	2 34	8 55	0 47	12 59
S14	23 12	24 56	1 29	19 56	2 31	10 44	2 40	17 8	1 25	10 20	1 11	1 12	2 34	8 55	0 47	12 59
M15	23 15	22 51	0 8	19 39	2 41	11 4	2 42	17 9	1 27	10 17	1 10	1 13	2 33	8 55	0 47	12 58
T16	23 18	19 17	1n11	19 25	2 48	11 23	2 43	17 10	1 28	10 14	1 10	1 13	2 33	8 55	0 47	12 58
W17	23 21	14 42	2 24	19 14	2 53	11 43	2 44	17 11	1 30	10 10	1 10	1 13	2 33	8 55	0 47	12 58
T18	23 23	9 30	3 26	19 7	2 56	12 3	2 45	17 13	1 31	10 7	1 10	1 14	2 32	8 55	0 47	12 57
F19	23 25	4 2	4 15	19 3	2 57	12 22	2 46	17 14	1 32	10 3	1 10	1 14	2 32	8 55	0 47	12 57
S20	23 26	1n25	4 50	19 2	2 57	12 42	2 47	17 16	1 34	10 0	1 10	1 15	2 32	8 56	0 47	12 57
S21	23 27	6 40	5 10	19 4	2 54	13 1	2 48	17 19	1 35	9 56	1 9	1 16	2 32	8 56	0 47	12 57
M22	23 27	11 33	5 16	19 9	2 51	13 21	2 48	17 21	1 36	9 53	1 9	1 16	2 31	8 56	0 47	12 56
T23	23 27	15 56	5 8	19 16	2 46	13 40	2 48	17 23	1 37	9 49	1 9	1 17	2 31	8 56	0 47	12 56
W24	23 27	19 38	4 46	19 25	2 41	13 59	2 48	17 26	1 38	9 45	1 9	1 18	2 31	8 56	0 47	12 56
T25	23 25	22 32	4 12	19 36	2 35	14 18	2 48	17 29	1 39	9 41	1 9	1 18	2 31	8 57	0 47	12 56
F26	23 24	24 29	3 28	19 48	2 28	14 36	2 48	17 32	1 40	9 38	1 9	1 19	2 30	8 57	0 47	12 55
S27	23 22	25 20	2 34	20 1	2 21	14 55	2 48	17 35	1 41	9 34	1 9	1 20	2 30	8 57	0 47	12 55
S28	23 19	25 0	1 33	20 15	2 13	15 13	2 48	17 38	1 42	9 30	1 8	1 21	2 30	8 57	0 47	12 55
M29	23 16	23 30	0 28	20 29	2 5	15 31	2 47	17 42	1 43	9 26	1 8	1 22	2 30	8 58	0 47	12 55
T30	23 13	20 53	0s40	20 44	1 57	15 49	2 47	17 45	1 44	9 22	1 8	1 23	2 29	8 58	0 47	12 55
W31	23s 9	17n16	1s47	20s58	1n49	16s 6	2n46	17n49	1n44	9s18	1s 8	1n24	2s29	8n58	0n47	12n54

Julian Day Number = 2407684.5, Delta T = -3.20 sec  
 Ecliptic obliquity = 23°27'20", Nutation = 0°00'15", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 23°03'48", Lahiri = 22°10'48"