



# Astrodienst Ephemeris Tables for the year 1819

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 1819  
geocentric

JANUARY 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 39 13	9°38'16	10°30	23°R53	1°R12	27°30	21°32	13°20	21°31	26°43	24°27	26°R32	25°48	8°25	21°19	F 1
S 2	6 43 10	10°49'26	24°15	23°323	0°39	28°15	21°35	13°25	21°34	26°45	24°28	26°V29	25°45	8°32	21°21	S 2
S 3	6 47 7	11°50'37	7°30	22°41	0° 9	29° 0	21°49	13°30	21°38	26°47	24°29	26°D28	25°41	8°39	21°23	S 3
M 4	6 51 3	12°51'47	20°21	21°48	29°40	29°45	22° 3	13°34	21°41	26°49	24°29	26°R28	25°38	8°45	21°24	M 4
T 5	6 55 0	13°52'56	2°51	20°46	29°12	0°30	22°17	13°39	21°44	26°52	24°30	26°28	25°35	8°52	21°26	T 5
W 6	6 58 56	14°54'06	15° 5	19°36	28°47	1°15	22°31	13°44	21°48	26°54	24°30	26°27	25°32	8°59	21°28	W 6
T 7	7 2 53	15°55'14	27° 8	18°20	28°24	2° 0	22°45	13°49	21°51	26°56	24°31	26°23	25°29	9° 6	21°30	T 7
F 8	7 6 49	16°56'23	9°II 4	17° 0	28° 3	2°45	22°59	13°54	21°55	26°58	24°32	26°16	25°26	9°12	21°32	F 8
S 9	7 10 46	17°57'31	20°57	15°40	27°45	3°30	23°13	13°59	21°58	27° 0	24°33	26° 7	25°22	9°19	21°34	S 9
S 10	7 14 42	18°58'39	2°48	14°22	27°28	4°15	23°27	14° 5	22° 1	27° 2	24°33	25°54	25°19	9°26	21°36	S 10
M 11	7 18 39	19°59'46	14°41	13° 8	27°15	5° 0	23°42	14°10	22° 5	27° 5	24°34	25°40	25°16	9°32	21°38	M 11
T 12	7 22 36	21° 0'53	26°35	11°59	27° 3	5°45	23°56	14°15	22° 8	27° 7	24°35	25°25	25°13	9°39	21°40	T 12
W 13	7 26 32	22° 1'59	8°33	10°59	26°55	6°31	24°10	14°21	22°11	27° 9	24°36	25°10	25°10	9°46	21°42	W 13
T 14	7 30 29	23° 3'05	20°35	10° 7	26°49	7°16	24°24	14°26	22°15	27°11	24°36	24°57	25° 6	9°53	21°45	T 14
F 15	7 34 25	24° 4'11	2°43	9°24	26°45	8° 1	24°38	14°32	22°18	27°13	24°37	24°46	25° 3	9°59	21°47	F 15
S 16	7 38 22	25° 5'16	14°59	8°51	26°D44	8°47	24°52	14°37	22°21	27°15	24°38	24°38	25° 0	10° 6	21°49	S 16
S 17	7 42 18	26° 6'21	27°26	8°27	26°45	9°32	25° 6	14°43	22°24	27°17	24°39	24°34	24°57	10°13	21°52	S 17
M 18	7 46 15	27° 7'25	10°41	8°12	26°48	10°18	25°20	14°49	22°28	27°19	24°40	24°32	24°54	10°19	21°54	M 18
T 19	7 50 11	28° 8'29	23° 6	8°D 6	26°54	11° 3	25°34	14°54	22°31	27°21	24°41	24°31	24°51	10°26	21°56	T 19
W 20	7 54 8	29° 9'33	6°12	8° 9	27° 3	11°49	25°48	15° 0	22°34	27°23	24°42	24°31	24°47	10°33	21°59	W 20
T 21	7 58 5	0°10'36	20°12	8°19	27°13	12°34	26° 3	15° 6	22°37	27°25	24°43	24°30	24°44	10°40	22° 1	T 21
F 22	8 2 1	1°11'39	4°24	8°37	27°26	13°20	26°17	15°12	22°40	27°27	24°44	24°27	24°41	10°46	22° 4	F 22
S 23	8 5 58	2°12'42	19° 1	9° 1	27°41	14° 5	26°31	15°18	22°43	27°29	24°45	24°21	24°38	10°53	22° 7	S 23
S 24	8 9 54	3°13'44	3°59	9°31	27°58	14°51	26°45	15°24	22°46	27°31	24°46	24°12	24°35	11° 0	22° 9	S 24
M 25	8 13 51	4°14'45	19°11	10° 6	28°17	15°37	26°59	15°30	22°49	27°33	24°47	24° 2	24°32	11° 7	22°12	M 25
T 26	8 17 47	5°15'46	4°27	10°46	28°38	16°23	27°13	15°37	22°52	27°35	24°48	23°50	24°28	11°13	22°15	T 26
W 27	8 21 44	6°16'45	19°34	11°31	29° 1	17° 8	27°27	15°43	22°55	27°37	24°49	23°39	24°25	11°20	22°17	W 27
T 28	8 25 40	7°17'44	4°23	12°20	29°25	17°54	27°41	15°49	22°58	27°39	24°50	23°29	24°22	11°27	22°20	T 28
F 29	8 29 37	8°18'41	18°47	13°12	29°52	18°40	27°55	15°55	23° 1	27°40	24°51	23°23	24°19	11°33	22°23	F 29
S 30	8 33 34	9°19'37	2°41	14° 8	0°30	19°26	28° 9	16° 2	23° 3	27°42	24°52	23°19	24°16	11°40	22°26	S 30
S 31	8 37 30	10°20'32	16°41	15°31	0°39	20°32	28°32	16°31	23°31	27°44	24°53	23°17	24°12	11°47	22°29	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	decl	lat	decl	lat
F 1	23s 6	11s 0	3s38	20s32	0n50	19s13	4n15	24s 1	0s35	22s 3	0s17	8s24	2s 0	23s17	0s 6	22s14	1n12	16s43	15s52	10n15	9n59	28n 6	0n 5	3n51					
S 2	23 1	4 46	2 42	20 18	1 9	19 1	4 27	24 3	0 36	22 1	0 17	8 22	2 0	23 18	0 6	22 14	1 12	16 43	15 52	10 14	9 58	28 6	0 6	3 51					
S 3	22 56	1n28	1 39	20 6	1 28	18 50	4 38	24 4	0 36	21 59	0 17	8 20	2 0	23 18	0 6	22 14	1 12	16 42	15 51	10 13	9 56	28 6	0 6	3 50					
M 4	22 51	7 27	0 32	19 56	1 48	18 40	4 48	24 5	0 37	21 57	0 17	8 18	1 59	23 18	0 6	22 14	1 12	16 42	15 51	10 13	9 55	28 5	0 7	3 50					
T 5	22 44	13 0	0n34	19 47	2 6	18 30	4 58	24 5	0 37	21 54	0 18	8 16	1 59	23 18	0 6	22 14	1 12	16 41	15 51	10 13	9 54	28 5	0 7	3 50					
W 6	22 38	17 55	1 37	19 40	2 23	18 21	5 7	24 5	0 38	21 52	0 18	8 14	1 59	23 18	0 6	22 14	1 12	16 41	15 50	10 13	9 53	28 5	0 8	3 50					
T 7	22 31	22 3	2 34	19 35	2 39	18 12	5 15	24 5	0 38	21 50	0 18	8 12	1 59	23 19	0 6	22 14	1 12	16 40	15 50	10 11	9 52	28 5	0 8	3 49					
F 8	22 23	25 12	3 25	19 32	2 53	18 5	5 22	24 5	0 39	21 48	0 18	8 10	1 59	23 19	0 6	22 14	1 12	16 40	15 50	10 9	9 51	28 4	0 9	3 49					
S 9	22 16	27 14	4 5	19 30	3 4	17 57	5 29	24 5	0 40	21 46	0 18	8 8	1 59	23 19	0 6	22 14	1 12	16 39	15 49	10 6	9 49	28 4	0 9	3 49					
S 10	22 7	28 2	4 36	19 30	3 13	17 51	5 35	24 4	0 40	21 43	0 18	8 6	1 59	23 19	0 6	22 14	1 12	16 38	15 49	10 1	9 48	28 4	0 10	3 49					
M 11	21 58	27 31	4 54	19 31	3 19	17 45	5 41	24 3	0 41	21 41	0 18	8 4	1 59	23 20	0 6	22 14	1 12	16 38	15 49	9 56	9 47	28 4	0 11	3 48					
T 12	21 49	25 45	4 59	19 33	3 23	17 40	5 46	24 2	0 41	21 39	0 18	8 1	1 58	23 20	0 6	22 14	1 12	16 37	15 48	9 50	9 46	28 3	0 11	3 48					
W 13	21 40	22 49	4 51	19 37	3 25	17 36	5 50	24 0	0 42	21 36	0 18	7 59	1 58	23 20	0 6	22 14	1 12	16 37	15 48	9 45	9 45	28 3	0 12	3 48					
T 14	21 30	18 55	4 30	19 42	3 24	17 32	5 54	23 58	0 42	21 34	0 18	7 57	1 58	23 20	0 6	22 15	1 12	16 36	15 48	9 40	9 44	28 3	0 12	3 48					
F 15	21 19	14 12	3 57	19 47	3 21	17 29	5 57	23 56	0 43	21 31	0 18	7 55	1 58	23 20	0 6	22 15	1 12	16 35	15 47	9 36	9 42	28 3	0 13	3 47					
S 16	21 8	8 52	3 12	19 54	3 17	17 26	5 59	23 54	0 43	21 29	0 19	7 53	1 58	23 21	0 6	22 15	1 12	16 35	15 47	9 33	9 41	28 2	0 14	3 47					
S 17	20 57	3 7	2 18	20 1	3 11	17 25	6 1	23 51	0 44	21 26	0 19	7 50	1 58	23 21	0 6	22 15	1 12	16 34	15 47	9 32	9 40	28 2	0 15	3 47					
M 18	20 45	2s52	1 15	20 9	3 4	17 23	6 2	23 48	0 45	21 24	0 19	7 48	1 58	23 21	0 6	22 15	1 12	16 34	15 47	9 31	9 39	28 2	0 15	3 47					
T 19	20 33	8 52	0 7	20 17	2 56	17 22	6 3	23 45	0 45	21 21	0 19	7 46	1 58	23 21	0 6	22 15	1 12	16 33	15 46	9 31	9 38	28 1	0 16	3 46					
W 20	20 21	14 40	1s 3	20 26	2 47	17 22	6 4	23 42	0 46	21 19	0 19	7 43	1 58	23 21	0 6	22 15	1 12	16 32	15 46	9 31	9 37	28 1	0 17	3 46					
T 21	20 8	19 55	2 11	20 35	2 38	17 22	6 4	23 38	0 46	21 16	0 19	7 41	1 58	23 22	0 6	22 15	1 12	16 32	15 46	9 30	9 36	28 1	0 18	3 46					
F 22	19 55	24 13	3 14	20 43	2 28	17 23	6 3	23 34	0 47	21 14	0 19	7 38	1 57	23 22	0 6	22 15	1 12	16 31	15 46	9 29	9 34	28 0	0 18	3 46					
S 23	19 41	27 5	4 6	20 52	2 18	17 24	6 3	23 30	0 47	21 11	0 19	7 36	1 57	23 22	0 6	22 15	1 12	16 30	15 45	9 27	9 33	28 0	0 19	3 45					
S 24	19 27	28 6	4 42	21 0	2 8	17 26	6 1	23 26	0 48	21 9	0 19	7 34	1 57	23 22	0 6	22 15	1 12	16 30	15 45	9 24	9 32	28 0	0 20	3 45					
M 25	19 13	27 1	4 59	21 8	1 57	17 27	6 0	23 21	0 48	21 6	0 19	7 31	1 57	23 22	0 6	22 15	1 12	16 29	15 45	9 20	9 31	27 59	0 21	3 45					
T 26	18 58	23 57	4 55	21 15	1 47	17 29	5 58	23 16	0 49	21 3	0 20	7 29	1 57	23 22	0 6	22 15	1 12	16 29	15 44	9 16	9 30	27 59	0 22	3 45					
W 27	18 43	19 14	4 31	21 22	1 36	17 32	5 56	23 11	0 49	21 1	0 20	7 26	1 57	23 23	0 6	22 15	1 12	16 28	15 44	9 11	9 29	27 58	0 23	3 45					
T 28	18 28	13 27	3 48	21 29	1 25	17 34	5 54	23 5	0 50	20 58	0 20	7 24	1 57	23 23	0 6	22 15	1 12	16 27	15 44	9 8	9 27	27 58	0 24	3 44					
F 29	18 12	7 4	2 52	21 34	1 15	17 37	5 51	23 0	0 50	20 55	0 20	7 21	1 57	23 23	0 6	22 15	1 12	16 27	15 44	9 5	9 26	27 58	0 25	3 44					
S 30	17 56	0 34	1 47	21 39	1 5	17 40	5 48	22 54	0 51	20 53	0 20	7 19	1 57	23 23	0 6	22 15	1 12	16 26	15 43	9 4	9 25	27 57	0 25	3 44					
S 31	17s40	5n45	0s38	21s42	0n54	17s43	5n45	22s47	0s51	20s50	0s20	7s16	1s57	23s23	0s 6	22s15	1n12	16s25	15s43	9n 3	9n24	27n57	0n26	3n44					

# ASTRODIENST EPHEMERIS for the year 1819

## geocentric

FEBRUARY 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 41 27	11 <sup>21</sup> 25	29 <sup>19</sup> 2	16 <sup>28</sup> 9	1 <sup>20</sup> 20	20 <sup>28</sup> 58	28 <sup>28</sup> 37	16 <sup>16</sup> 15	23 <sup>23</sup> 9	27 <sup>27</sup> 46	24 <sup>24</sup> 55	23 <sup>23</sup> D17	24 <sup>24</sup> 9	11 <sup>11</sup> 54	22 <sup>22</sup> 32	M 1
T 2	8 45 23	12 <sup>22</sup> 17	11 <sup>11</sup> 36	17 <sup>17</sup> 13	1 <sup>1</sup> 53	21 <sup>21</sup> 44	28 <sup>28</sup> 51	16 <sup>16</sup> 21	23 <sup>23</sup> 12	27 <sup>27</sup> 48	24 <sup>24</sup> 56	23 <sup>23</sup> R17	24 <sup>24</sup> 6	12 <sup>12</sup> 0	22 <sup>22</sup> 35	T 2
W 3	8 49 20	13 <sup>23</sup> 07	23 <sup>23</sup> 51	18 <sup>18</sup> 20	2 <sup>2</sup> 27	22 <sup>22</sup> 30	29 <sup>29</sup> 5	16 <sup>16</sup> 28	23 <sup>23</sup> 14	27 <sup>27</sup> 49	24 <sup>24</sup> 57	23 <sup>23</sup> Y17	24 <sup>24</sup> 3	12 <sup>12</sup> 7	22 <sup>22</sup> 38	W 3
T 4	8 53 16	14 <sup>23</sup> 57	5 <sup>5</sup> II54	19 <sup>19</sup> 28	3 <sup>3</sup> 2	23 <sup>23</sup> 16	29 <sup>29</sup> 19	16 <sup>16</sup> 35	23 <sup>23</sup> 17	27 <sup>27</sup> 51	24 <sup>24</sup> 58	23 <sup>23</sup> 14	24 <sup>24</sup> 0	12 <sup>12</sup> 14	22 <sup>22</sup> 41	T 4
F 5	8 57 13	15 <sup>24</sup> 44	17 <sup>17</sup> 48	20 <sup>20</sup> 39	3 <sup>3</sup> 39	24 <sup>24</sup> 2	29 <sup>29</sup> 33	16 <sup>16</sup> 41	23 <sup>23</sup> 19	27 <sup>27</sup> 53	24 <sup>24</sup> 59	23 <sup>23</sup> 9	23 <sup>23</sup> 57	12 <sup>12</sup> 20	22 <sup>22</sup> 44	F 5
S 6	9 1 9	16 <sup>25</sup> 31	29 <sup>29</sup> 39	21 <sup>21</sup> 52	4 <sup>4</sup> 17	24 <sup>24</sup> 48	29 <sup>29</sup> 47	16 <sup>16</sup> 48	23 <sup>23</sup> 22	27 <sup>27</sup> 54	25 <sup>25</sup> 1	23 <sup>23</sup> 2	23 <sup>23</sup> 53	12 <sup>12</sup> 27	22 <sup>22</sup> 47	S 6
S 7	9 5 6	17 <sup>26</sup> 15	11 <sup>11</sup> 30	23 <sup>23</sup> 6	4 <sup>4</sup> 56	25 <sup>25</sup> 34	0 <sup>0</sup> 00	16 <sup>16</sup> 55	23 <sup>23</sup> 25	27 <sup>27</sup> 56	25 <sup>25</sup> 2	22 <sup>22</sup> 52	23 <sup>23</sup> 50	12 <sup>12</sup> 34	22 <sup>22</sup> 50	S 7
M 8	9 9 3	18 <sup>26</sup> 59	23 <sup>23</sup> 23	24 <sup>24</sup> 22	5 <sup>5</sup> 37	26 <sup>26</sup> 20	0 <sup>0</sup> 14	17 <sup>17</sup> 1	23 <sup>23</sup> 27	27 <sup>27</sup> 58	25 <sup>25</sup> 3	22 <sup>22</sup> 40	23 <sup>23</sup> 47	12 <sup>12</sup> 41	22 <sup>22</sup> 53	M 8
T 9	9 12 59	19 <sup>27</sup> 41	5 <sup>5</sup> II22	25 <sup>25</sup> 39	6 <sup>6</sup> 18	27 <sup>27</sup> 7	0 <sup>0</sup> 28	17 <sup>17</sup> 8	23 <sup>23</sup> 29	27 <sup>27</sup> 59	25 <sup>25</sup> 4	22 <sup>22</sup> 27	23 <sup>23</sup> 44	12 <sup>12</sup> 47	22 <sup>22</sup> 56	T 9
W10	9 16 56	20 <sup>28</sup> 21	17 <sup>17</sup> 27	26 <sup>26</sup> 58	7 <sup>7</sup> 1	27 <sup>27</sup> 53	0 <sup>0</sup> 42	17 <sup>17</sup> 15	23 <sup>23</sup> 32	28 <sup>28</sup> 1	25 <sup>25</sup> 6	22 <sup>22</sup> 15	23 <sup>23</sup> 41	12 <sup>12</sup> 54	23 <sup>23</sup> 0	W10
T 11	9 20 52	21 <sup>29</sup> 00	29 <sup>29</sup> 40	28 <sup>28</sup> 18	7 <sup>7</sup> 45	28 <sup>28</sup> 39	0 <sup>0</sup> 55	17 <sup>17</sup> 22	23 <sup>23</sup> 34	28 <sup>28</sup> 2	25 <sup>25</sup> 7	22 <sup>22</sup> 4	23 <sup>23</sup> 38	13 <sup>13</sup> 1	23 <sup>23</sup> 3	T 11
F 12	9 24 49	22 <sup>29</sup> 38	12 <sup>12</sup> II1	29 <sup>29</sup> 39	8 <sup>8</sup> 29	29 <sup>29</sup> 25	1 <sup>1</sup> 9	17 <sup>17</sup> 29	23 <sup>23</sup> 36	28 <sup>28</sup> 4	25 <sup>25</sup> 8	21 <sup>21</sup> 55	23 <sup>23</sup> 34	13 <sup>13</sup> 7	23 <sup>23</sup> 6	F 12
S 13	9 28 45	23 <sup>30</sup> 14	24 <sup>24</sup> 31	1 <sup>1</sup> 00	9 <sup>9</sup> 15	0 <sup>0</sup> 00	1 <sup>1</sup> 23	17 <sup>17</sup> 36	23 <sup>23</sup> 39	28 <sup>28</sup> 5	25 <sup>25</sup> 10	21 <sup>21</sup> 49	23 <sup>23</sup> 31	13 <sup>13</sup> 14	23 <sup>23</sup> 9	S 13
S 14	9 32 42	24 <sup>30</sup> 49	7 <sup>7</sup> II1	2 <sup>2</sup> 26	10 <sup>10</sup> 2	0 <sup>0</sup> 58	1 <sup>1</sup> 36	17 <sup>17</sup> 43	23 <sup>23</sup> 41	28 <sup>28</sup> 7	25 <sup>25</sup> 11	21 <sup>21</sup> 46	23 <sup>23</sup> 28	13 <sup>13</sup> 21	23 <sup>23</sup> 13	S 14
M15	9 36 38	25 <sup>31</sup> 22	20 <sup>20</sup> 3	3 <sup>3</sup> 51	10 <sup>10</sup> 49	1 <sup>1</sup> 44	1 <sup>1</sup> 50	17 <sup>17</sup> 50	23 <sup>23</sup> 43	28 <sup>28</sup> 8	25 <sup>25</sup> 12	21 <sup>21</sup> D44	23 <sup>23</sup> 25	13 <sup>13</sup> 28	23 <sup>23</sup> 16	M15
T 16	9 40 35	26 <sup>31</sup> 54	3 <sup>3</sup> II10	5 <sup>5</sup> 17	11 <sup>11</sup> 37	2 <sup>2</sup> 31	2 <sup>2</sup> 3	17 <sup>17</sup> 57	23 <sup>23</sup> 45	28 <sup>28</sup> 10	25 <sup>25</sup> 14	21 <sup>21</sup> 45	23 <sup>23</sup> 22	13 <sup>13</sup> 34	23 <sup>23</sup> 19	T 16
W17	9 44 32	27 <sup>32</sup> 25	16 <sup>16</sup> 32	6 <sup>6</sup> 44	12 <sup>12</sup> 26	3 <sup>3</sup> 17	2 <sup>2</sup> 17	18 <sup>18</sup> 4	23 <sup>23</sup> 47	28 <sup>28</sup> 11	25 <sup>25</sup> 15	21 <sup>21</sup> 46	23 <sup>23</sup> 18	13 <sup>13</sup> 41	23 <sup>23</sup> 23	W17
T 18	9 48 28	28 <sup>32</sup> 55	0 <sup>0</sup> II13	8 <sup>8</sup> 12	13 <sup>13</sup> 16	4 <sup>4</sup> 3	2 <sup>2</sup> 30	18 <sup>18</sup> 11	23 <sup>23</sup> 49	28 <sup>28</sup> 12	25 <sup>25</sup> 16	21 <sup>21</sup> R46	23 <sup>23</sup> 15	13 <sup>13</sup> 48	23 <sup>23</sup> 26	T 18
F 19	9 52 25	29 <sup>33</sup> 24	14 <sup>14</sup> 13	9 <sup>9</sup> 41	14 <sup>14</sup> 7	4 <sup>4</sup> 50	2 <sup>2</sup> 44	18 <sup>18</sup> 18	23 <sup>23</sup> 51	28 <sup>28</sup> 14	25 <sup>25</sup> 18	21 <sup>21</sup> 45	23 <sup>23</sup> 12	13 <sup>13</sup> 55	23 <sup>23</sup> 30	F 19
S 20	9 56 21	0 <sup>0</sup> II33'51	28 <sup>28</sup> 32	11 <sup>11</sup> 12	14 <sup>14</sup> 59	5 <sup>5</sup> 36	2 <sup>2</sup> 57	18 <sup>18</sup> 25	23 <sup>23</sup> 53	28 <sup>28</sup> 15	25 <sup>25</sup> 19	21 <sup>21</sup> 42	23 <sup>23</sup> 9	14 <sup>14</sup> 1	23 <sup>23</sup> 33	S 20
S 21	10 0 18	1 <sup>1</sup> 34'17	13 <sup>13</sup> II9	12 <sup>12</sup> 43	15 <sup>15</sup> 51	6 <sup>6</sup> 23	3 <sup>3</sup> 10	18 <sup>18</sup> 33	23 <sup>23</sup> 55	28 <sup>28</sup> 16	25 <sup>25</sup> 21	21 <sup>21</sup> 37	23 <sup>23</sup> 6	14 <sup>14</sup> 8	23 <sup>23</sup> 37	S 21
M22	10 4 14	2 <sup>2</sup> 34'42	27 <sup>27</sup> 57	14 <sup>14</sup> 15	16 <sup>16</sup> 44	7 <sup>7</sup> 9	3 <sup>3</sup> 24	18 <sup>18</sup> 40	23 <sup>23</sup> 57	28 <sup>28</sup> 18	25 <sup>25</sup> 22	21 <sup>21</sup> 30	23 <sup>23</sup> 3	14 <sup>14</sup> 15	23 <sup>23</sup> 40	M22
T 23	10 8 11	3 <sup>3</sup> 35'05	12 <sup>12</sup> II51	15 <sup>15</sup> 49	17 <sup>17</sup> 37	7 <sup>7</sup> 56	3 <sup>3</sup> 37	18 <sup>18</sup> 47	23 <sup>23</sup> 59	28 <sup>28</sup> 19	25 <sup>25</sup> 23	21 <sup>21</sup> 22	22 <sup>22</sup> 59	14 <sup>14</sup> 21	23 <sup>23</sup> 44	T 23
W24	10 12 7	4 <sup>4</sup> 35'26	27 <sup>27</sup> 41	17 <sup>17</sup> 23	18 <sup>18</sup> 31	8 <sup>8</sup> 42	3 <sup>3</sup> 50	18 <sup>18</sup> 54	24 <sup>24</sup> 1	28 <sup>28</sup> 20	25 <sup>25</sup> 25	21 <sup>21</sup> 15	22 <sup>22</sup> 56	14 <sup>14</sup> 28	23 <sup>23</sup> 47	W24
T 25	10 16 4	5 <sup>5</sup> 35'46	12 <sup>12</sup> II19	18 <sup>18</sup> 58	19 <sup>19</sup> 26	9 <sup>9</sup> 29	4 <sup>4</sup> 3	19 <sup>19</sup> 2	24 <sup>24</sup> 3	28 <sup>28</sup> 21	25 <sup>25</sup> 26	21 <sup>21</sup> 8	22 <sup>22</sup> 53	14 <sup>14</sup> 35	23 <sup>23</sup> 51	T 25
F 26	10 20 1	6 <sup>6</sup> 36'04	26 <sup>26</sup> 37	20 <sup>20</sup> 35	20 <sup>20</sup> 21	10 <sup>10</sup> 15	4 <sup>4</sup> 16	19 <sup>19</sup> 9	24 <sup>24</sup> 4	28 <sup>28</sup> 22	25 <sup>25</sup> 28	21 <sup>21</sup> 4	22 <sup>22</sup> 50	14 <sup>14</sup> 42	23 <sup>23</sup> 54	F 26
S 27	10 23 57	7 <sup>7</sup> 36'20	10 <sup>10</sup> Y31	22 <sup>22</sup> 12	21 <sup>21</sup> 17	11 <sup>11</sup> 2	4 <sup>4</sup> 29	19 <sup>19</sup> 16	24 <sup>24</sup> 6	28 <sup>28</sup> 23	25 <sup>25</sup> 29	21 <sup>21</sup> 1	22 <sup>22</sup> 47	14 <sup>14</sup> 48	23 <sup>23</sup> 58	S 27
S 28	10 27 54	8 <sup>8</sup> II36'34	23 <sup>23</sup> Y59	23 <sup>23</sup> II50	22 <sup>22</sup> II13	11 <sup>11</sup> II49	4 <sup>4</sup> II42	19 <sup>19</sup> II23	24 <sup>24</sup> II7	28 <sup>28</sup> II24	25 <sup>25</sup> II31	21 <sup>21</sup> D 1	22 <sup>22</sup> Y44	14 <sup>14</sup> II55	24 <sup>24</sup> II1	S 28

Day	☉	☾	♀		♀		♂		♂		♄	♅		♅		♅		♁	♁	♂	♂			
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat		
M 1	17s23	11n37	0n31	21s45	0n44	17s46	5n41	22s41	0s52	20s47	0s20	7s13	1s57	23s23	0s6	22s15	1n12	16s25	15s43	9n3	9n23	27n56	0n27	3n44
T 2	17 7	16 51	1 36	21 47	0 34	17 49	5 38	22 34	0 52	20 45	0 20	7 11	1 57	23 24	0 6	22 15	1 12	16 24	15 43	9 3	9 21	27 56	0 28	3 43
W 3	16 49	21 15	2 35	21 48	0 25	17 53	5 34	22 27	0 53	20 42	0 20	7 8	1 56	23 24	0 6	22 15	1 12	16 23	15 43	9 3	9 20	27 56	0 29	3 43
T 4	16 32	24 41	3 26	21 48	0 15	17 56	5 30	22 20	0 53	20 39	0 20	7 5	1 56	23 24	0 6	22 15	1 12	16 23	15 42	9 2	9 19	27 55	0 30	3 43
F 5	16 14	27 0	4 7	21 47	0 6	17 59	5 26	22 13	0 54	20 36	0 21	7 3	1 56	23 24	0 6	22 15	1 12	16 22	15 42	9 1	9 18	27 55	0 31	3 43
S 6	15 56	28 6	4 38	21 44	0s3	18 3	5 21	22 5	0 54	20 33	0 21	7 0	1 56	23 24	0 6	22 15	1 12	16 21	15 42	8 58	9 17	27 54	0 33	3 43
S 7	15 37	27 53	4 56	21 41	0 12	18 6	5 17	21 57	0 55	20 31	0 21	6 57	1 56	23 24	0 6	22 15	1 12	16 21	15 42	8 54	9 16	27 54	0 34	3 42
M 8	15 19	26 24	5 2	21 36	0 20	18 9	5 12	21 49	0 55	20 28	0 21	6 55	1 56	23 24	0 6	22 15	1 12	16 20	15 42	8 50	9 14	27 53	0 35	3 42
T 9	15 0	23 42	4 55	21 30	0 28	18 12	5 7	21 40	0 56	20 25	0 21	6 52	1 56	23 25	0 6	22 15	1 12	16 19	15 41	8 45	9 13	27 53	0 36	3 42
W10	14 41	19 58	4 34	21 23	0 36	18 15	5 2	21 32	0 56	20 22	0 21	6 49	1 56	23 25	0 6	22 15	1 12	16 18	15 41	8 40	9 12	27 52	0 37	3 42
T 11	14 21	15 21	4 0	21 14	0 44	18 18	4 57	21 23	0 57	20 19	0 21	6 47	1 56	23 25	0 6	22 15	1 12	16 18	15 41	8 36	9 11	27 52	0 38	3 42
F 12	14 2	10 4	3 15	21 5	0 51	18 20	4 52	21 14	0 57	20 16	0 21	6 44	1 56	23 25	0 6	22 15	1 12	16 17	15 41	8 33	9 10	27 51	0 39	3 42
S 13	13 42	4 19	2 20	20 54	0 58	18 22	4 47	21 4	0 58	20 13	0 21	6 41	1 56	23 25	0 6	22 15	1 12	16 16	15 41	8 31	9 9	27 51	0 40	3 41
S 14	13 22	1s41	1 17	20 42	1 5	18 24	4 42	20 55	0 58	20 10	0 22	6 38	1 56	23 25	0 6	22 15	1 12	16 16	15 40	8 29	9 7	27 50	0 41	3 41
M15	13 2	7 43	0 9	20 28	1 12	18 26	4 36	20 45	0 59	20 8	0 22	6 36	1 56	23 25	0 6	22 15	1 12	16 15	15 40	8 29	9 6	27 50	0 43	3 41
T 16	12 41	13 32	1s1	20 14	1 18	18 28	4 31	20 35	0 59	20 5	0 22	6 33	1 56	23 25	0 6	22 15	1 12	16 14	15 40	8 29	9 5	27 49	0 44	3 41
W17	12 20	18 51	2 9	19 58	1 24	18 29	4 25	20 24	0 59	20 2	0 22	6 30	1 56	23 25	0 6	22 15	1 12	16 14	15 40	8 29	9 4	27 48	0 45	3 41
T 18	11 59	23 20	3 11	19 40	1 29	18 30	4 19	20 14	1 0	19 59	0 22	6 27	1 56	23 26	0 6	22 15	1 12	16 13	15 40	8 30	9 3	27 48	0 46	3 41
F 19	11 38	26 34	4 4	19 22	1 34	18 31	4 14	20 3	1 0	19 56	0 22	6 24	1 56	23 26	0 6	22 15	1 12	16 12	15 40	8 29	9 2	27 47	0 47	3 41
S 20	11 17	28 10	4 42	19 2	1 39	18 31	4 8	19 52	1 1	19 53	0 22	6 22	1 56	23 26	0 6	22 15	1 12	16 12	15 40	8 28	9 0	27 47	0 49	3 40
S 21	10 56	27 51	5 3	18 40	1 44	18 31	4 2	19 41	1 1	19 50	0 22	6 19	1 56	23 26	0 6	22 15	1 12	16 11	15 39	8 26	8 59	27 46	0 50	3 40
M22	10 34	25 34	5 5	18 18	1 48	18 30	3 56	19 30	1 2	19 47	0 23	6 16	1 56	23 26	0 6	22 15	1 12	16 10	15 39	8 23	8 58	27 45	0 51	3 40
T 23	10 12	21 32	4 46	17 54	1 52	18 30	3 51	19 18	1 2	19 44	0 23	6 13	1 56	23 26	0 6	22 15	1 12	16 10	15 39	8 21	8 57	27 45	0 52	3 40
W24	9 50	16 9	4 7	17 29	1 56	18 28	3 45	19 6	1 2	19 41	0 23	6 10	1 56	23 26	0 6	22 15	1 12	16 9	15 39	8 18	8 56	27 44	0 54	3 40
T25	9 28	9 55	3 13	17 2	1 59	18 27	3 39	18 54	1 3	19 38	0 23	6 7	1 56	23 26	0 6	22 15	1 12	16 8	15 39	8 15	8 54	27 44	0 55	3 40
F 26	9 6	3 18	2 8	16 34	2 2	18 25	3 33	18 42	1 3	19 35	0 23	6 4	1 56	23 26	0 6	22 15	1 12	16 8	15 39	8 14	8 53	27 43	0 56	3 40
S 27	8 44	3n18	0 56	16 5	2 4	18 23	3 27	18 30	1 4	19 32	0 23	6 2	1 56	23 26	0 6	22 15	1 13	16 7	15 39	8 13	8 52	27 42	0 58	3 40
S 28	8s21	9n34	0n16	15s34	2s6	18s20	3n21	18s17	1s4	19s29	0s23	5s59	1s56	23s27	0s6	22s15	1n13	16s6	15s39	8n13	8n51	27n42	0n59	3n39

# ASTRODIENST EPHEMERIS for the year 1819

## geocentric

MARCH 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 31 50	9♂36'46	7♂ 2	25♂30	23♂10	12♂35	4♂55	19♂31	24♂ 9	28♂25	25♂32	21♂ 2	22♂40	15♂ 2	24♂ 5	M 1
T 2	10 35 47	10°36'56	19°41	27°10	24° 7	13°22	5° 8	19°38	24°10	28°26	25°34	21° 3	22°37	15° 8	24° 8	T 2
W 3	10 39 43	11°37'04	2II 2	28°52	25° 5	14° 8	5°20	19°45	24°12	28°27	25°35	21° 5	22°34	15°15	24°12	W 3
T 4	10 43 40	12°37'09	14° 8	0♂34	26° 3	14°55	5°33	19°53	24°13	28°28	25°37	21°R 5	22°31	15°22	24°16	T 4
F 5	10 47 36	13°37'13	26° 4	2°18	27° 1	15°42	5°46	20° 0	24°15	28°29	25°38	21° 4	22°28	15°29	24°19	F 5
S 6	10 51 33	14°37'15	7♂56	4° 3	28° 0	16°28	5°58	20° 8	24°16	28°30	25°40	21° 1	22°24	15°35	24°23	S 6
S 7	10 55 30	15°37'14	19°48	5°49	29° 0	17°15	6°11	20°15	24°17	28°31	25°41	20°57	22°21	15°42	24°27	S 7
M 8	10 59 26	16°37'11	1♂44	7°36	29°59	18° 2	6°23	20°22	24°18	28°32	25°43	20°52	22°18	15°49	24°30	M 8
T 9	11 3 23	17°37'07	13°47	9°24	1♂ 0	18°49	6°36	20°30	24°20	28°32	25°44	20°46	22°15	15°56	24°34	T 9
W10	11 7 19	18°37'00	26° 0	11°13	2° 0	19°35	6°48	20°37	24°21	28°33	25°46	20°40	22°12	16° 2	24°37	W10
T 11	11 11 16	19°36'50	8♂24	13° 4	3° 1	20°22	7° 0	20°45	24°22	28°34	25°47	20°35	22° 9	16° 9	24°41	T 11
F 12	11 15 12	20°36'39	21° 0	14°55	4° 3	21° 9	7°12	20°52	24°23	28°35	25°49	20°30	22° 5	16°16	24°45	F 12
S 13	11 19 9	21°36'26	3♂48	16°48	5° 4	21°55	7°24	20°59	24°24	28°35	25°50	20°28	22° 2	16°22	24°48	S 13
S 14	11 23 5	22°36'11	16°49	18°42	6° 6	22°42	7°36	21° 7	24°24	28°36	25°52	20°D27	21°59	16°29	24°52	S 14
M15	11 27 2	23°35'54	0♂ 3	20°37	7° 8	23°29	7°48	21°14	24°25	28°36	25°53	20°27	21°56	16°36	24°56	M15
T 16	11 30 59	24°35'36	13°29	22°33	8°11	24°16	8° 0	21°22	24°26	28°37	25°55	20°28	21°53	16°43	24°59	T 16
W17	11 34 55	25°35'15	27° 6	24°30	9°14	25° 2	8°12	21°29	24°27	28°37	25°56	20°30	21°50	16°49	25° 3	W17
T 18	11 38 52	26°34'53	10♂56	26°28	10°17	25°49	8°24	21°36	24°27	28°38	25°58	20°31	21°46	16°56	25° 7	T 18
F 19	11 42 48	27°34'29	24°56	28°28	11°20	26°36	8°35	21°44	24°28	28°38	25°59	20°R32	21°43	17° 3	25°11	F 19
S 20	11 46 45	28°34'04	9♂ 7	0♂27	12°24	27°23	8°47	21°51	24°29	28°39	26° 1	20°31	21°40	17°10	25°14	S 20
S 21	11 50 41	29°33'37	23°26	2°28	13°28	28°10	8°58	21°58	24°29	28°39	26° 2	20°30	21°37	17°16	25°18	S 21
M22	11 54 38	0♂33'08	7♂51	4°29	14°32	28°56	9° 9	22° 6	24°30	28°40	26° 4	20°28	21°34	17°23	25°22	M22
T 23	11 58 34	1°32'37	22°16	6°31	15°36	29°43	9°21	22°13	24°30	28°40	26° 5	20°25	21°30	17°30	25°25	T 23
W24	12 2 31	2°32'04	6♂37	8°33	16°41	0♂30	9°32	22°21	24°30	28°40	26° 7	20°23	21°27	17°36	25°29	W24
T 25	12 6 28	3°31'30	20°49	10°34	17°45	1°17	9°43	22°28	24°31	28°40	26° 8	20°21	21°24	17°43	25°32	T 25
F 26	12 10 24	4°30'53	4♂47	12°36	18°50	2° 3	9°54	22°35	24°31	28°41	26°10	20°19	21°21	17°50	25°36	F 26
S 27	12 14 21	5°30'14	18°28	14°37	19°56	2°50	10° 5	22°42	24°31	28°41	26°11	20°D19	21°18	17°57	25°40	S 27
S 28	12 18 17	6°29'33	1♂48	16°37	21° 1	3°37	10°15	22°50	24°31	28°41	26°13	20°19	21°15	18° 3	25°43	S 28
M29	12 22 14	7°28'50	14°48	18°35	22° 7	4°24	10°26	22°57	24°31	28°41	26°14	20°20	21°11	18°10	25°47	M29
T 30	12 26 10	8°28'05	27°28	20°33	23°12	5°11	10°37	23° 4	24°R31	28°41	26°16	20°21	21° 8	18°17	25°51	T 30
W31	12 30 7	9♂27'18	9II51	22♂28	24♂18	5♂57	10♂47	23♂11	24♂31	28♂41	26♂17	20♂22	21♂ 5	18♂23	25♂54	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	7s58	15n13	1n26	15s 2	2s 8	18s16	3n15	18s 5	1 s 4	19s26	0s23	5s56	1s56	23s27	0s 7	22s15	1n13	16s 6	15s39	8n13	8n50	27n41	1n 0	3n39			
T 2	7 36	20 4	2 29	14 29	2 9	18 13	3 9	17 52	1 5	19 23	0 24	5 53	1 56	23 27	0 7	22 15	1 13	16 5	15 38	8 13	8 49	27 40	1 1	3 39			
W 3	7 13	23 55	3 24	13 54	2 10	18 9	3 3	17 38	1 5	19 20	0 24	5 50	1 56	23 27	0 7	22 15	1 13	16 4	15 38	8 14	8 47	27 40	1 3	3 39			
T 4	6 50	26 38	4 9	13 18	2 10	18 4	2 57	17 25	1 5	19 17	0 24	5 47	1 56	23 27	0 7	22 15	1 13	16 4	15 38	8 14	8 46	27 39	1 4	3 39			
F 5	6 27	28 6	4 42	12 41	2 10	17 59	2 51	17 12	1 6	19 14	0 24	5 44	1 56	23 27	0 7	22 15	1 13	16 3	15 38	8 14	8 45	27 38	1 5	3 39			
S 6	6 4	28 16	5 3	12 3	2 9	17 54	2 45	16 58	1 6	19 11	0 24	5 41	1 56	23 27	0 7	22 15	1 13	16 2	15 38	8 13	8 44	27 38	1 7	3 39			
S 7	5 40	27 7	5 11	11 23	2 8	17 48	2 39	16 44	1 6	19 8	0 24	5 38	1 56	23 27	0 7	22 15	1 13	16 2	15 38	8 11	8 43	27 37	1 8	3 39			
M 8	5 17	24 45	5 5	10 42	2 7	17 41	2 33	16 30	1 7	19 5	0 24	5 36	1 56	23 27	0 7	22 15	1 13	16 1	15 38	8 9	8 41	27 36	1 10	3 39			
T 9	4 54	21 16	4 46	9 59	2 5	17 34	2 27	16 16	1 7	19 2	0 24	5 33	1 56	23 27	0 7	22 15	1 13	16 0	15 38	8 7	8 40	27 35	1 11	3 39			
W10	4 30	16 51	4 14	9 15	2 3	17 27	2 21	16 2	1 7	18 59	0 25	5 30	1 56	23 27	0 7	22 15	1 13	16 0	15 38	8 5	8 39	27 35	1 12	3 38			
T 11	4 7	11 40	3 30	8 30	2 0	17 19	2 15	15 47	1 8	18 56	0 25	5 27	1 56	23 27	0 7	22 15	1 13	15 59	15 38	8 3	8 38	27 34	1 14	3 38			
F 12	3 43	5 56	2 34	7 44	1 56	17 11	2 9	15 32	1 8	18 54	0 25	5 24	1 56	23 27	0 7	22 15	1 13	15 59	15 38	8 1	8 37	27 33	1 15	3 38			
S 13	3 20	0s 8	1 30	6 57	1 53	17 2	2 3	15 18	1 8	18 51	0 25	5 21	1 56	23 27	0 7	22 15	1 13	15 58	15 38	8 0	8 36	27 32	1 16	3 38			
S 14	2 56	6 19	0 20	6 8	1 48	16 52	1 57	15 3	1 9	18 48	0 25	5 18	1 56	23 28	0 7	22 15	1 13	15 57	15 38	8 0	8 34	27 32	1 18	3 38			
M15	2 33	12 19	0s52	5 18	1 43	16 43	1 51	14 48	1 9	18 45	0 25	5 15	1 56	23 28	0 7	22 14	1 13	15 57	15 38	8 0	8 33	27 31	1 19	3 38			
T 16	2 9	17 51	2 3	4 27	1 38	16 32	1 46	14 32	1 9	18 42	0 25	5 12	1 56	23 28	0 7	22 14	1 13	15 56	15 38	8 0	8 32	27 30	1 21	3 38			
W17	1 45	22 35	3 8	3 35	1 32	16 22	1 40	14 17	1 10	18 39	0 26	5 10	1 56	23 28	0 7	22 14	1 13	15 55	15 38	8 1	8 31	27 29	1 22	3 38			
T 18	1 22	26 6	4 3	2 42	1 25	16 10	1 34	14 1	1 10	18 36	0 26	5 7	1 56	23 28	0 7	22 14	1 13	15 55	15 38	8 1	8 30	27 29	1 23	3 38			
F 19	0 58	28 6	4 44	1 48	1 18	15 59	1 29	13 46	1 10	18 33	0 26	5 4	1 56	23 28	0 7	22 14	1 13	15 54	15 38	8 2	8 28	27 28	1 25	3 38			
S 20	0 34	28 17	5 8	0 53	1 10	15 46	1 23	13 30	1 10	18 30	0 26	5 1	1 56	23 28	0 7	22 14	1 13	15 54	15 38	8 1	8 27	27 27	1 26	3 38			
S 21	0 11	26 35	5 14	0n 2	1 2	15 34	1 17	13 14	1 11	18 27	0 26	4 58	1 56	23 28	0 7	22 14	1 13	15 53	15 38	8 1	8 26	27 26	1 28	3 38			
M22	0n13	23 9	5 0	0 58	0 53	15 21	1 12	12 58	1 11	18 25	0 26	4 55	1 56	23 28	0 7	22 14	1 13	15 53	15 38	8 0	8 25	27 25	1 29	3 38			
T 23	0 37	18 19	4 27	1 55	0 44	15 7	1 6	12 42	1 11	18 22	0 27	4 52	1 57	23 28	0 7	22 14	1 13	15 52	15 38	7 59	8 24	27 24	1 30	3 38			
W24	1 1	12 28	3 38	2 52	0 34	14 53	1 1	12 25	1 11	18 19	0 27	4 50	1 57	23 28	0 7	22 14	1 13	15 51	15 38	7 58	8 22	27 24	1 32	3 38			
T 25	1 24	6 1	2 36	3 49	0 24	14 39	0 56	12 9	1 12	18 16	0 27	4 47	1 57	23 28	0 7	22 14	1 13	15 51	15 38	7 58	8 21	27 23	1 33	3 38			
F 26	1 48	0n37	1 25	4 46	0 14	14 24	0 50	11 52	1 12	18 13	0 27	4 44	1 57	23 28	0 7	22 14	1 13	15 50	15 38	7 57	8 20	27 22	1 35	3 38			
S 27	2 11	7 5	0 10	5 43	0 3	14 8	0 45	11 36	1 12	18 11	0 27	4 41	1 57	23 28	0 7	22 14	1 13	15 50	15 38	7 57	8 19	27 21	1 36	3 37			
S 28	2 35	13 6	1n 3	6 40	0n 9	13 52	0 40	11 19	1 12	18 8	0 27	4 38	1 57	23 28	0 7	22 14	1 13	15 49	15 38	7 57	8 18	27 20	1 37	3 37			
M29	2 58	18 23	2 11	7 36	0 20	13 36	0 35	11 2	1 12	18 5	0 28	4 35	1 57	23 28	0 7	22 14	1 13	15 49	15 39	7 57	8 17	27 19	1 39	3 37			
T 30	3 22	22 43	3 11	8 31	0 32	13 20	0 30	10 45	1 13	18 2	0 28	4 33	1 57	23 28	0 7	22 14	1 14	15 48	15 39	7 58	8 15	27 18	1 40	3 37			
W31	3n45	25n55	4n 1	9n25	0n43	13s 3	0n25	10s28	1s13	18s 0	0s28	4s30	1s57	23s28	0s 7	22s14	1n14	15s48	15s39	7n58	8n14	27n17	1n42	3n37			

# ASTRODIENST EPHEMERIS for the year 1819

## geocentric

APRIL 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 34 3	10°26'28	22°11'0	24°21'2	25°22'24	6°44'4	10°55'7	23°19'19	24°R31	28°R41	26°19'19	20°Y23	21°Y 2	18°30'30	25°58'58	T 1
F 2	12 38 0	11°25'36	3°59'59	26°11'1	26°31'1	7°31'1	11° 8'	23°26'6	24°R31	28°R41	26°20'20	20°24'24	20°59'59	18°37'37	26° 1'1	F 2
S 3	12 41 57	12°24'42	15°53'53	27°57'57	27°37'37	8°18'18	11°18'18	23°33'33	24°31'31	28°41'41	26°22'22	20°R24	20°55'55	18°44'44	26° 5'5	S 3
S 4	12 45 53	13°23'45	27°46'46	29°41'41	28°44'44	9° 4'4	11°28'28	23°40'40	24°31'31	28°41'41	26°23'23	20°23'23	20°52'52	18°50'50	26° 8'8	S 4
M 5	12 49 50	14°22'46	9°43'43	18°20'20	29°50'50	9°51'51	11°38'38	23°47'47	24°31'31	28°41'41	26°25'25	20°23'23	20°49'49	18°57'57	26°12'12	M 5
T 6	12 53 46	15°21'45	21°48'48	2°55'55	0°57'57	10°38'38	11°48'48	23°54'54	24°30'30	28°41'41	26°26'26	20°22'22	20°46'46	19° 4'4	26°16'16	T 6
W 7	12 57 43	16°20'42	4°19'19	4°26'26	2° 4'4	11°24'24	11°57'57	24° 1'1	24°30'30	28°41'41	26°28'28	20°22'22	20°43'43	19°11'11	26°19'19	W 7
T 8	13 1 39	17°19'36	16°37'37	5°52'52	3°11'11	12°11'11	12° 7'7	24° 8'8	24°29'29	28°40'40	26°29'29	20°21'21	20°40'40	19°17'17	26°23'23	T 8
F 9	13 5 36	18°18'28	29°26'26	7°13'13	4°19'19	12°58'58	12°16'16	24°15'15	24°29'29	28°40'40	26°31'31	20°21'21	20°36'36	19°24'24	26°26'26	F 9
S 10	13 9 32	19°17'18	12°32'32	8°29'29	5°26'26	13°44'44	12°26'26	24°22'22	24°28'28	28°40'40	26°32'32	20°21'21	20°33'33	19°31'31	26°29'29	S 10
S 11	13 13 29	20°16'06	25°56'56	9°39'39	6°34'34	14°31'31	12°35'35	24°29'29	24°28'28	28°40'40	26°33'33	20°21'21	20°30'30	19°37'37	26°33'33	S 11
M12	13 17 25	21°14'52	9°13'13	10°44'44	7°41'41	15°18'18	12°44'44	24°36'36	24°27'27	28°39'39	26°35'35	20°21'21	20°27'27	19°44'44	26°36'36	M12
T 13	13 21 22	22°13'36	23°28'28	11°43'43	8°49'49	16° 4'4	12°53'53	24°43'43	24°27'27	28°39'39	26°36'36	20°21'21	20°24'24	19°51'51	26°40'40	T 13
W14	13 25 19	23°12'18	7°13'13	12°36'36	9°57'57	16°51'51	13° 2'2	24°50'50	24°26'26	28°38'38	26°38'38	20°20'20	20°21'21	19°58'58	26°43'43	W14
T 15	13 29 15	24°10'59	21°42'42	13°23'23	11° 5'5	17°37'37	13°11'11	24°57'57	24°25'25	28°38'38	26°39'39	20°20'20	20°17'17	20° 4'4	26°46'46	T 15
F 16	13 33 12	25° 9'38	5°35'35	14° 5'5	12°13'13	18°24'24	13°19'19	25° 4'4	24°24'24	28°37'37	26°40'40	20°20'20	20°14'14	20°11'11	26°50'50	F 16
S 17	13 37 8	26° 8'15	20°11'11	14°40'40	13°22'22	19°10'10	13°28'28	25°10'10	24°23'23	28°37'37	26°42'42	20°D19	20°11'11	20°18'18	26°53'53	S 17
S 18	13 41 5	27° 6'51	4°22'22	15° 9'9	14°30'30	19°57'57	13°36'36	25°17'17	24°22'22	28°36'36	26°43'43	20°19'19	20° 8'8	20°24'24	26°56'56	S 18
M19	13 45 1	28° 5'25	18°33'33	15°33'33	15°39'39	20°43'43	13°44'44	25°24'24	24°22'22	28°36'36	26°44'44	20°20'20	20° 5'5	20°31'31	27° 0'0	M19
T 20	13 48 58	29° 3'58	2°13'13	15°50'50	16°47'47	21°30'30	13°52'52	25°30'30	24°21'21	28°35'35	26°46'46	20°20'20	20° 1'1	20°38'38	27° 3'3	T 20
W21	13 52 55	0° 3'27	16°29'29	16° 1'1	17°56'56	22°16'16	14° 0'0	25°37'37	24°19'19	28°35'35	26°47'47	20°21'21	19°58'58	20°45'45	27° 6'6	W21
T 22	13 56 51	1° 0'56	0°12'12	16°R 6	19° 5'5	23° 3'3	14° 8'8	25°43'43	24°18'18	28°34'34	26°48'48	20°22'22	19°55'55	20°51'51	27° 9'9	T 22
F 23	14 0 48	1°59'24	13°43'43	16° 6'6	20°14'14	23°49'49	14°16'16	25°50'50	24°17'17	28°33'33	26°50'50	20°R23	19°52'52	20°58'58	27°12'12	F 23
S 24	14 4 44	2°57'49	27° 1'1	16° 0'0	21°23'23	24°36'36	14°23'23	25°56'56	24°16'16	28°33'33	26°51'51	20°23'23	19°49'49	21° 5'5	27°16'16	S 24
S 25	14 8 41	3°56'13	10° 4'4	15°49'49	22°32'32	25°22'22	14°31'31	26° 3'3	24°15'15	28°32'32	26°52'52	20°22'22	19°46'46	21°12'12	27°19'19	S 25
M26	14 12 37	4°54'34	22°52'52	15°33'33	23°41'41	26° 8'8	14°38'38	26° 9'9	24°14'14	28°31'31	26°53'53	20°20'20	19°42'42	21°18'18	27°22'22	M26
T 27	14 16 34	5°52'54	5°12'12	15°12'12	24°50'50	26°55'55	14°45'45	26°15'15	24°12'12	28°30'30	26°55'55	20°18'18	19°39'39	21°25'25	27°25'25	T 27
W28	14 20 30	6°51'12	17°45'45	14°47'47	25°59'59	27°41'41	14°52'52	26°22'22	24°11'11	28°30'30	26°56'56	20°16'16	19°36'36	21°32'32	27°28'28	W28
T 29	14 24 27	7°49'29	29°53'53	14°19'19	27° 9'9	28°27'27	14°59'59	26°28'28	24° 9'9	28°29'29	26°57'57	20°13'13	19°33'33	21°38'38	27°31'31	T 29
F 30	14 28 23	8°47'43	11°52'52	13°47'47	28°18'18	29°13'13	15°55'55	26°13'13	24° 8'8	28°28'28	26°58'58	20°Y11	19°Y30	21°34'34	27°34'34	F 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
T 1	4n 8	27n51	4n39	10n18	0n55	12s45	0n20	10s11	1s13	17s57	0s28	4s27	1s57	23s28	0s 7	22s14	1n14	15s47	15s39	7n58	8n13	27n17	1n43	3n37	
F 2	4 31	28 28	5 4	11 9	1 7	12 27	0 15	9 53	1 13	17 54	0 28	4 24	1 57	23 28	0 7	22 14	1 14	15 47	15 39	7 59	8 12	27 16	1 45	3 37	
S 3	4 55	27 44	5 16	11 59	1 18	12 9	0 10	9 36	1 13	17 52	0 28	4 22	1 57	23 28	0 7	22 14	1 14	15 46	15 39	7 59	8 11	27 15	1 46	3 37	
S 4	5 18	25 45	5 14	12 46	1 30	11 50	0 6	9 19	1 13	17 49	0 29	4 19	1 58	23 28	0 7	22 14	1 14	15 46	15 39	7 58	8 9	27 14	1 47	3 37	
M 5	5 41	22 38	4 59	13 31	1 41	11 31	0 1	9 1	1 14	17 46	0 29	4 16	1 58	23 28	0 7	22 14	1 14	15 45	15 39	7 58	8 8	27 13	1 49	3 37	
T 6	6 3	18 31	4 30	14 14	1 51	11 12	0s 3	8 44	1 14	17 44	0 29	4 13	1 58	23 28	0 7	22 14	1 14	15 45	15 39	7 58	8 7	27 12	1 50	3 37	
W 7	6 26	13 34	3 49	14 55	2 1	10 52	0 8	8 26	1 14	17 41	0 29	4 11	1 58	23 28	0 7	22 14	1 14	15 44	15 39	7 58	8 6	27 11	1 52	3 37	
T 8	6 49	7 59	2 56	15 33	2 11	10 32	0 12	8 8	1 14	17 39	0 29	4 8	1 58	23 28	0 7	22 14	1 14	15 44	15 40	7 58	8 5	27 10	1 53	3 37	
F 9	7 11	1 57	1 53	16 8	2 19	10 12	0 16	7 50	1 14	17 36	0 29	4 5	1 58	23 28	0 7	22 14	1 14	15 43	15 40	7 58	8 3	27 9	1 54	3 37	
S 10	7 33	4s18	0 43	16 40	2 27	9 51	0 21	7 33	1 14	17 34	0 30	4 3	1 58	23 28	0 7	22 14	1 14	15 43	15 40	7 58	8 2	27 8	1 56	3 37	
S 11	7 56	10 30	0s31	17 10	2 35	9 30	0 25	7 15	1 14	17 32	0 30	4 0	1 58	23 28	0 7	22 14	1 14	15 43	15 40	7 58	8 1	27 7	1 57	3 37	
M12	8 18	16 21	1 45	17 36	2 41	9 8	0 29	6 57	1 14	17 29	0 30	3 57	1 58	23 28	0 7	22 14	1 14	15 42	15 40	7 57	8 0	27 6	1 58	3 37	
T 13	8 40	21 27	2 53	18 0	2 47	8 47	0 33	6 39	1 14	17 27	0 30	3 55	1 59	23 28	0 7	22 14	1 14	15 42	15 40	7 57	7 59	27 5	2 0	3 37	
W14	9 2	25 25	3 53	18 21	2 51	8 25	0 37	6 21	1 15	17 24	0 30	3 52	1 59	23 28	0 7	22 14	1 14	15 41	15 41	7 57	7 57	27 4	2 1	3 37	
T 15	9 23	27 50	4 38	18 39	2 54	8 2	0 40	6 3	1 15	17 22	0 31	3 50	1 59	23 28	0 7	22 13	1 14	15 41	15 41	7 57	7 56	27 3	2 2	3 37	
F 16	9 45	28 26	5 7	18 53	2 57	7 40	0 44	5 44	1 15	17 20	0 31	3 47	1 59	23 28	0 7	22 13	1 14	15 41	15 41	7 57	7 55	27 2	2 4	3 37	
S 17	10 6	27 10	5 17	19 5	2 58	7 17	0 48	5 26	1 15	17 18	0 31	3 44	1 59	23 28	0 7	22 13	1 14	15 40	15 41	7 57	7 54	27 1	2 5	3 38	
S 18	10 27	24 9	5 7	19 14	2 58	6 54	0 51	5 8	1 15	17 15	0 31	3 42	1 59	23 28	0 7	22 13	1 14	15 40	15 41	7 57	7 53	27 0	2 7	3 38	
M19	10 48	19 42	4 39	19 19	2 56	6 30	0 55	4 50	1 15	17 13	0 31	3 39	1 59	23 28	0 7	22 13	1 14	15 39	15 41	7 57	7 51	26 59	2 8	3 38	
T 20	11 9	14 13	3 55	19 22	2 54	6 7	0 58	4 31	1 15	17 11	0 31	3 37	1 59	23 28	0 7	22 13	1 14	15 39	15 42	7 57	7 50	26 58	2 9	3 38	
W21	11 30	8 3	2 57	19 22	2 50	5 43	1 1	4 13	1 15	17 9	0 32	3 34	2 0	23 28	0 7	22 13	1 14	15 39	15 42	7 58	7 49	26 57	2 10	3 38	
T 22	11 50	1 36	1 49	19 18	2 45	5 19	1 4	3 55	1 15	17 7	0 32	3 32	2 0	23 28	0 7	22 13	1 14	15 38	15 42	7 58	7 48	26 56	2 12	3 38	
F 23	12 11	4n51	0 37	19 12	2 38	4 55	1 8	3 36	1 15	17 5	0 32	3 30	2 0	23 28	0 7	22 13	1 14	15 38	15 42	7 58	7 47	26 55	2 13	3 38	
S 24	12 31	10 59	0n37	19 2	2 30	4 30	1 10	3 18	1 15	17 3	0 32	3 27	2 0	23 28	0 7	22 13	1 14	15 38	15 42	7 58	7 45	26 53	2 14	3 38	
S 25	12 51	16 32	1 47	18 50	2 21	4 5	1 13	2 59	1 15	17 1	0 32	3 25	2 0	23 28	0 7	22 13	1 14	15 37	15 43	7 58	7 44	26 52	2 16	3 38	
M26	13 10	21 15	2 50	18 36	2 11	3 41	1 16	2 41	1 15	16 59	0 33	3 22	2 0	23 28	0 7	22 13	1 14	15 37	15 43	7 57	7 43	26 51	2 17	3 38	
T 27	13 30	24 54	3 44	18 18	1 59	3 16	1 19	2 22	1 15	16 57	0 33	3 20	2 1	23 28	0 7	22 13	1 14	15 37	15 43	7 57	7 42	26 50	2 18	3 38	
W28	13 49	27 19	4 26	17 59	1 46	2 51	1 21	2 4	1 15	16 55	0 33	3 18	2 1	23 28	0 7	22 13	1 14	15 37	15 43	7 56	7 41	26 49	2 19	3 38	
T 29	14 8	28 23	4 55	17 37	1 32	2 25	1 24	1 45	1 15	16 53	0 33	3 15	2 1	23 28	0 7	22 13	1 14	15 36	15 44	7 55	7 39	26 48	2 21	3 38	
F 30	14n27	28n 6	5n11	17n13	1n17	2s 0	1s26	1s27	1s15	16s52	0s33	3s13	2s 1	23s28	0s 7	22s13	1n14	15s36	15s44	7n54	7n38	26n47	2n22	3n38	

ASTRODIENST EPHEMERIS for the year 1819  
geocentric

MAY 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 32 20	9♂45'55	23♂46	13°R13	29♂27	29♂59	15♂12	26♂40	24°R 7	28°R27	27♂ 0	20°R 9	19♂27	21♂52	27♂37	S 1
S 2	14 36 17	10°44'05	5♂39	12♂37	0♂37	0♂46	15°18	26°46	24♂ 5	28♂26	27° 1	20°D 9	19°23	21°59	27°40	S 2
M 3	14 40 13	11°42'13	17°35	12° 0	1°47	1°32	15°24	26°52	24° 3	28°25	27° 2	20°Y 9	19°20	22° 5	27°42	M 3
T 4	14 44 10	12°40'19	29°40	11°22	2°56	2°18	15°30	26°58	24° 2	28°24	27° 3	20° 9	19°17	22°12	27°45	T 4
W 5	14 48 6	13°38'23	11♂58	10°44	4° 6	3° 4	15°36	27° 4	24° 0	28°23	27° 4	20°11	19°14	22°19	27°48	W 5
T 6	14 52 3	14°36'25	24°32	10° 7	5°16	3°50	15°42	27°10	23°59	28°22	27° 5	20°13	19°11	22°26	27°51	T 6
F 7	14 55 59	15°34'26	7♂27	9°32	6°26	4°36	15°47	27°15	23°57	28°21	27° 6	20°14	19° 7	22°32	27°54	F 7
S 8	14 59 56	16°32'24	20°45	8°59	7°36	5°22	15°53	27°21	23°55	28°20	27° 7	20°R14	19° 4	22°39	27°56	S 8
S 9	15 3 52	17°30'21	4♂25	8°28	8°46	6° 8	15°58	27°27	23°53	28°19	27° 8	20°14	19° 1	22°46	27°59	S 9
M10	15 7 49	18°28'16	18°27	8° 0	9°56	6°54	16° 3	27°32	23°51	28°18	27° 9	20°12	18°58	22°52	28° 2	M10
T 11	15 11 46	19°26'10	2♂46	7°36	11° 6	7°40	16° 8	27°38	23°50	28°16	27°11	20° 8	18°55	22°59	28° 4	T 11
W12	15 15 42	20°24'02	17°18	7°15	12°16	8°25	16°12	27°43	23°48	28°15	27°12	20° 4	18°52	23° 6	28° 7	W12
T 13	15 19 39	21°21'53	1♂56	6°59	13°26	9°11	16°17	27°49	23°46	28°14	27°13	20° 0	18°48	23°13	28° 9	T 13
F 14	15 23 35	22°19'43	16°33	6°46	14°37	9°57	16°21	27°54	23°44	28°13	27°14	19°56	18°45	23°19	28°12	F 14
S 15	15 27 32	23°17'32	1♂ 3	6°38	15°47	10°43	16°25	27°59	23°42	28°12	27°14	19°53	18°42	23°26	28°14	S 15
S 16	15 31 28	24°15'19	15°22	6°D35	16°57	11°28	16°29	28° 5	23°40	28°10	27°15	19°51	18°39	23°33	28°16	S 16
M17	15 35 25	25°13'05	29°27	6°36	18° 8	12°14	16°33	28°10	23°38	28° 9	27°16	19°D51	18°36	23°39	28°19	M17
T 18	15 39 22	26°10'50	13♂17	6°42	19°18	12°59	16°37	28°15	23°36	28° 8	27°17	19°52	18°33	23°46	28°21	T 18
W19	15 43 18	27° 8'34	26°52	6°52	20°29	13°45	16°40	28°20	23°34	28° 7	27°18	19°53	18°29	23°53	28°23	W19
T 20	15 47 15	28° 6'17	10♂12	7° 7	21°40	14°30	16°44	28°25	23°32	28° 5	27°19	19°54	18°26	24° 0	28°26	T 20
F 21	15 51 11	29° 3'58	23°20	7°27	22°50	15°16	16°47	28°30	23°30	28° 4	27°20	19°R55	18°23	24° 6	28°28	F 21
S 22	15 55 8	0♂ 1'39	6♂14	7°50	24° 1	16° 1	16°50	28°34	23°27	28° 2	27°21	19°53	18°20	24°13	28°30	S 22
S 23	15 59 4	0°59'19	18°57	8°18	25°12	16°47	16°52	28°39	23°25	28° 1	27°21	19°50	18°17	24°20	28°32	S 23
M24	16 3 1	1°56'57	1♂29	8°50	26°22	17°32	16°55	28°44	23°23	28° 0	27°22	19°45	18°13	24°27	28°34	M24
T 25	16 6 57	2°54'34	13°51	9°26	27°33	18°17	16°57	28°48	23°21	27°58	27°23	19°38	18°10	24°33	28°36	T 25
W26	16 10 54	3°52'10	26° 2	10° 6	28°44	19° 2	17° 0	28°53	23°18	27°57	27°24	19°30	18° 7	24°40	28°38	W26
T 27	16 14 51	4°49'45	8♂ 5	10°50	29°55	19°48	17° 2	28°57	23°16	27°55	27°24	19°22	18° 4	24°47	28°40	T 27
F 28	16 18 47	5°47'18	20° 2	11°37	1♂ 6	20°33	17° 3	29° 2	23°14	27°54	27°25	19°14	18° 1	24°53	28°42	F 28
S 29	16 22 44	6°44'51	1♂54	12°28	2°17	21°18	17° 5	29° 6	23°12	27°52	27°26	19° 8	17°58	25° 0	28°44	S 29
S 30	16 26 40	7°42'21	13°46	13°23	3°28	22° 3	17° 6	29°10	23° 9	27°51	27°27	19° 3	17°54	25° 7	28°45	S 30
M31	16 30 37	8♂39'51	25♂41	14♂21	4♂39	22♂48	17♂ 8	29♂14	23♂ 7	27♂49	27♂27	19♂ 0	17♂51	25♂14	28♂47	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	14n45	26n32	5n14	16n48	1n 2	1s34	1s29	1s 9	1s15	16s50	0s34	3s11	2s 1	23s27	0s 7	22s13
S 2	15 4	23 47	5 3	16 22	0 45	1 9	1 31	0 50	1 14	16 48	0 34	3 9	2 1	23 27	0 7	22 13
M 3	15 22	20 1	4 40	15 54	0 28	0 43	1 33	0 32	1 14	16 47	0 34	3 6	2 2	23 27	0 7	22 13
T 4	15 39	15 23	4 3	15 26	0 11	0 17	1 35	0 13	1 14	16 45	0 34	3 4	2 2	23 27	0 7	22 13
W 5	15 57	10 5	3 15	14 58	0s 6	0n 9	1 37	0n 5	1 14	16 44	0 35	3 2	2 2	23 27	0 8	22 13
T 6	16 14	4 16	2 16	14 30	0 24	0 35	1 39	0 24	1 14	16 42	0 35	3 0	2 2	23 27	0 8	22 13
F 7	16 31	1s54	1 10	14 2	0 41	1 1	1 40	0 42	1 14	16 41	0 35	2 58	2 2	23 27	0 8	22 13
S 8	16 48	8 9	0s 3	13 36	0 58	1 27	1 42	1 0	1 14	16 39	0 35	2 56	2 2	23 27	0 8	22 13
S 9	17 4	14 13	1 17	13 10	1 14	1 53	1 44	1 19	1 14	16 38	0 35	2 53	2 3	23 27	0 8	22 13
M10	17 21	19 43	2 28	12 46	1 30	2 20	1 45	1 37	1 14	16 37	0 36	2 51	2 3	23 27	0 8	22 13
T 11	17 36	24 12	3 32	12 24	1 45	2 46	1 46	1 55	1 13	16 35	0 36	2 49	2 3	23 27	0 8	22 13
W12	17 52	27 13	4 23	12 4	2 0	3 12	1 48	2 13	1 13	16 34	0 36	2 47	2 3	23 27	0 8	22 13
T 13	18 7	28 23	4 56	11 46	2 13	3 38	1 49	2 31	1 13	16 33	0 36	2 45	2 3	23 27	0 8	22 12
F 14	18 22	27 35	5 11	11 30	2 26	4 5	1 50	2 50	1 13	16 32	0 37	2 43	2 4	23 27	0 8	22 12
S 15	18 37	24 55	5 6	11 16	2 37	4 31	1 51	3 8	1 13	16 31	0 37	2 42	2 4	23 27	0 8	22 12
S 16	18 51	20 43	4 41	11 5	2 48	4 57	1 52	3 26	1 13	16 30	0 37	2 40	2 4	23 26	0 8	22 12
M17	19 5	15 26	4 0	10 56	2 58	5 23	1 53	3 44	1 12	16 29	0 37	2 38	2 4	23 26	0 8	22 12
T 18	19 19	9 26	3 6	10 50	3 6	5 49	1 53	4 2	1 12	16 28	0 37	2 36	2 4	23 26	0 8	22 12
W19	19 32	3 7	2 2	10 46	3 14	6 15	1 54	4 20	1 12	16 27	0 38	2 34	2 5	23 26	0 8	22 12
T 20	19 46	3n14	0 53	10 45	3 20	6 41	1 54	4 37	1 12	16 27	0 38	2 32	2 5	23 26	0 8	22 12
F 21	19 58	9 22	0n19	10 46	3 25	7 7	1 55	4 55	1 11	16 26	0 38	2 31	2 5	23 26	0 8	22 12
S 22	20 11	14 59	1 27	10 49	3 30	7 33	1 55	5 13	1 11	16 25	0 38	2 29	2 5	23 26	0 8	22 12
S 23	20 23	19 53	2 31	10 55	3 33	7 58	1 55	5 31	1 11	16 25	0 39	2 27	2 5	23 26	0 8	22 12
M24	20 34	23 50	3 26	11 3	3 36	8 24	1 56	5 48	1 11	16 24	0 39	2 26	2 6	23 26	0 8	22 12
T 25	20 46	26 37	4 10	11 12	3 38	8 49	1 56	6 6	1 10	16 23	0 39	2 24	2 6	23 26	0 8	22 12
W26	20 57	28 6	4 42	11 24	3 39	9 14	1 56	6 23	1 10	16 23	0 39	2 22	2 6	23 26	0 8	22 12
T 27	21 7	28 14	5 1	11 38	3 38	9 39	1 55	6 40	1 10	16 23	0 40	2 21	2 6	23 25	0 8	22 12
F 28	21 18	27 2	5 7	11 53	3 38	10 4	1 55	6 58	1 9	16 22	0 40	2 19	2 7	23 25	0 8	22 12
S 29	21 28	24 37	5 0	12 10	3 36	10 29	1 55	7 15	1 9	16 22	0 40	2 18	2 7	23 25	0 8	22 12
S 30	21 37	21 10	4 39	12 29	3 33	10 53	1 55	7 32	1 9	16 22	0 40	2 16	2 7	23 25	0 8	22 12
M31	21n46	16n51	4n 7	12n49	3s30	11n17	1s54	7n49	1s 8	16s22	0s41	2s15	2s 7	23s25	0s 8	22s12

Julian Day Number = 2385555.5, Delta T = 16.68 sec  
Ecliptic obliquity = 23°27'55, Nutation = - 0°00'07, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 22°13'03, Lahiri = 21°20'04



ASTRODIENST EPHEMERIS for the year 1819  
geocentric

JUNE 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 34 33	9Ⅱ37'19	7Ⅲ43	15♂22	5♂50	23Ⅳ33	17≈ 9	29Ⅴ18	23°R 5	27°R48	27Ⅵ28	18°D59	17Ⅶ48	25♂20	28Ⅷ49	T 1
W 2	16 38 30	10°34'46	19°58	16°27	7° 1	24°17	17°10	29°22	23°R 2	27°R46	27°28	18°Ⅴ59	17°45	25°27	28°50	W 2
T 3	16 42 26	11°32'12	2♂31	17°35	8°13	25° 2	17°10	29°26	23° 0	27°45	27°29	19° 0	17°42	25°34	28°52	T 3
F 4	16 46 23	12°29'36	15°25	18°46	9°24	25°47	17°11	29°30	22°57	27°43	27°30	19°R 1	17°39	25°41	28°54	F 4
S 5	16 50 20	13°27'00	28°45	20° 0	10°35	26°32	17°11	29°33	22°55	27°42	27°30	19° 1	17°35	25°47	28°55	S 5
S 6	16 54 16	14°24'22	12Ⅲ33	21°17	11°46	27°16	17°R11	29°37	22°53	27°40	27°31	18°58	17°32	25°54	28°57	S 6
M 7	16 58 13	15°21'43	26°47	22°37	12°58	28° 1	17°11	29°40	22°50	27°39	27°31	18°54	17°29	26° 1	28°58	M 7
T 8	17 2 9	16°19'04	11♂25	24° 0	14° 9	28°45	17°11	29°44	22°48	27°37	27°32	18°47	17°26	26° 7	28°59	T 8
W 9	17 6 6	17°16'24	26°19	25°26	15°20	29°30	17°10	29°47	22°45	27°36	27°32	18°39	17°23	26°14	29° 1	W 9
T 10	17 10 2	18°13'43	11♂22	26°55	16°32	0♂14	17°10	29°50	22°43	27°34	27°32	18°30	17°19	26°21	29° 2	T 10
F 11	17 13 59	19°11'01	26°23	28°26	17°43	0°59	17° 9	29°54	22°41	27°32	27°33	18°22	17°16	26°28	29° 3	F 11
S 12	17 17 55	20° 8'19	11≈13	0Ⅱ 1	18°55	1°43	17° 8	29°57	22°38	27°31	27°33	18°15	17°13	26°34	29° 4	S 12
S 13	17 21 52	21° 5'37	25°46	1°38	20° 6	2°27	17° 7	29°59	22°36	27°29	27°34	18°11	17°10	26°41	29° 5	S 13
M14	17 25 49	22° 2'54	9Ⅴ57	3°19	21°18	3°11	17° 5	0Ⅳ 3	22°33	27°28	27°34	18° 8	17° 7	26°48	29° 6	M14
T 15	17 29 45	23° 0'10	23°46	5° 2	22°29	3°55	17° 4	0° 5	22°31	27°26	27°34	18°D 8	17° 4	26°54	29° 7	T 15
W16	17 33 42	23°57'27	7Ⅳ14	6°47	23°41	4°39	17° 2	0° 8	22°28	27°24	27°35	18° 8	17° 0	27° 1	29° 8	W16
T 17	17 37 38	24°54'43	20°22	8°36	24°53	5°23	17° 0	0°11	22°26	27°23	27°35	18°R 8	16°57	27° 8	29° 9	T 17
F 18	17 41 35	25°51'59	3♂13	10°27	26° 4	6° 7	16°58	0°13	22°23	27°21	27°35	18° 7	16°54	27°15	29°10	F 18
S 19	17 45 31	26°49'15	15°51	12°21	27°16	6°51	16°55	0°16	22°21	27°19	27°35	18° 4	16°51	27°21	29°11	S 19
S 20	17 49 28	27°46'30	28°17	14°17	28°28	7°35	16°53	0°18	22°18	27°18	27°35	17°58	16°48	27°28	29°11	S 20
M21	17 53 24	28°43'46	10Ⅱ34	16°16	29°40	8°19	16°50	0°20	22°16	27°16	27°36	17°50	16°45	27°35	29°12	M21
T 22	17 57 21	29°41'01	22°43	18°16	0Ⅱ52	9° 2	16°47	0°22	22°14	27°15	27°36	17°39	16°41	27°42	29°13	T 22
W23	18 1 18	0♂38'16	4♂46	20°19	2° 4	9°46	16°44	0°24	22°11	27°13	27°36	17°27	16°38	27°48	29°13	W23
T 24	18 5 14	1°35'30	16°43	22°24	3°16	10°29	16°41	0°26	22° 9	27°11	27°36	17°13	16°35	27°55	29°14	T 24
F 25	18 9 11	2°32'44	28°36	24°30	4°28	11°13	16°37	0°28	22° 6	27°10	27°36	17° 1	16°32	28° 2	29°14	F 25
S 26	18 13 7	3°29'58	10♂27	26°38	5°39	11°56	16°34	0°30	22° 4	27° 8	27°36	16°50	16°29	28° 8	29°15	S 26
S 27	18 17 4	4°27'11	22°18	28°47	6°52	12°40	16°30	0°32	22° 2	27° 7	27°36	16°41	16°25	28°15	29°15	S 27
M28	18 21 0	5°24'24	4Ⅲ12	0♂57	8° 4	13°23	16°26	0°33	21°59	27° 5	27°R36	16°35	16°22	28°22	29°15	M28
T 29	18 24 57	6°21'36	16°14	3° 7	9°16	14° 6	16°22	0°35	21°57	27° 3	27°36	16°31	16°19	28°29	29°16	T 29
W30	18 28 54	7♂18'48	28Ⅲ27	5♂18	10Ⅱ28	14♂49	16≈17	0Ⅳ36	21♂55	27♂ 2	27Ⅵ36	16Ⅳ30	16Ⅴ16	28♂35	29Ⅷ16	W30

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	21n55	11n49	3n23	13n10	3s26	11n42	1s54	8n 6	1 s 8	16s22	0s41	2s14	2s 8	23s25	0s 8	22s12	1n15	15s33	15s54	7n26	7n 0	26n 6	2n55	3n41	
W 2	22 3	6 16	2 30	13 33	3 22	12 5	1 53	8 23	1 8	16 22	0 41	2 12	2 8	23 25	0 8	22 12	1 15	15 33	15 54	7 27	6 58	26 5	2 55	3 41	
T 3	22 11	0 20	1 27	13 57	3 17	12 29	1 52	8 39	1 7	16 22	0 41	2 11	2 8	23 25	0 8	22 12	1 15	15 33	15 54	7 27	6 57	26 4	2 56	3 42	
F 4	22 19	5s47	0 19	14 22	3 11	12 52	1 52	8 56	1 7	16 22	0 41	2 10	2 8	23 25	0 8	22 12	1 15	15 34	15 55	7 27	6 56	26 2	2 57	3 42	
S 5	22 26	11 51	0s52	14 48	3 4	13 15	1 51	9 12	1 7	16 22	0 42	2 9	2 8	23 24	0 8	22 12	1 15	15 34	15 55	7 27	6 55	26 1	2 58	3 42	
S 6	22 33	17 34	2 3	15 15	2 57	13 38	1 50	9 29	1 6	16 22	0 42	2 7	2 9	23 24	0 8	22 12	1 15	15 34	15 55	7 26	6 53	25 59	2 58	3 42	
M 7	22 40	22 30	3 8	15 43	2 50	14 1	1 49	9 45	1 6	16 22	0 42	2 6	2 9	23 24	0 8	22 12	1 15	15 34	15 56	7 25	6 52	25 58	2 59	3 42	
T 8	22 46	26 10	4 2	16 11	2 42	14 23	1 48	10 1	1 6	16 23	0 42	2 5	2 9	23 24	0 8	22 12	1 15	15 34	15 56	7 22	6 51	25 56	3 0	3 42	
W 9	22 51	28 6	4 41	16 40	2 33	14 45	1 47	10 17	1 5	16 23	0 43	2 4	2 9	23 24	0 8	22 12	1 15	15 34	15 56	7 19	6 50	25 55	3 0	3 42	
T 10	22 57	27 59	5 2	17 9	2 24	15 6	1 46	10 33	1 5	16 23	0 43	2 3	2 10	23 24	0 8	22 12	1 15	15 34	15 57	7 16	6 49	25 54	3 1	3 43	
F 11	23 1	25 49	5 1	17 39	2 15	15 28	1 45	10 49	1 4	16 24	0 43	2 2	2 10	23 24	0 8	22 12	1 15	15 35	15 57	7 12	6 47	25 52	3 2	3 43	
S 12	23 6	21 55	4 40	18 9	2 5	15 49	1 43	11 5	1 4	16 24	0 43	2 1	2 10	23 24	0 8	22 12	1 15	15 35	15 58	7 10	6 46	25 51	3 2	3 43	
S 13	23 10	16 44	4 1	18 39	1 54	16 9	1 42	11 21	1 3	16 25	0 44	2 0	2 11	23 23	0 8	22 12	1 15	15 35	15 58	7 8	6 45	25 49	3 3	3 43	
M14	23 14	10 45	3 9	19 8	1 44	16 29	1 40	11 36	1 3	16 26	0 44	1 59	2 11	23 23	0 8	22 11	1 15	15 35	15 58	7 7	6 44	25 48	3 3	3 43	
T 15	23 17	4 24	2 6	19 38	1 33	16 49	1 39	11 52	1 3	16 26	0 44	1 58	2 11	23 23	0 8	22 11	1 15	15 35	15 59	7 7	6 42	25 46	3 4	3 43	
W16	23 20	1n59	0 58	20 7	1 22	17 9	1 37	12 7	1 2	16 27	0 44	1 57	2 11	23 23	0 8	22 11	1 15	15 36	15 59	7 7	6 41	25 45	3 4	3 43	
T 17	23 22	8 9	0n12	20 36	1 11	17 28	1 36	12 22	1 2	16 28	0 45	1 56	2 12	23 23	0 8	22 11	1 15	15 36	15 59	7 7	6 40	25 43	3 5	3 44	
F 18	23 24	13 50	1 19	21 4	0 59	17 46	1 34	12 37	1 1	16 29	0 45	1 56	2 12	23 23	0 8	22 11	1 15	15 36	16 0	7 7	6 39	25 42	3 5	3 44	
S 19	23 26	18 51	2 21	21 30	0 48	18 4	1 32	12 52	1 1	16 30	0 45	1 55	2 12	23 23	0 8	22 11	1 15	15 36	16 0	7 6	6 38	25 40	3 6	3 44	
S 20	23 27	22 59	3 16	21 56	0 36	18 22	1 30	13 6	1 0	16 31	0 45	1 54	2 12	23 23	0 8	22 11	1 15	15 37	16 1	7 3	6 36	25 39	3 6	3 44	
M21	23 28	26 1	4 0	22 21	0 25	18 39	1 29	13 21	1 0	16 32	0 46	1 54	2 13	23 22	0 8	22 11	1 15	15 37	16 1	7 0	6 35	25 37	3 6	3 44	
T 22	23 28	27 48	4 33	22 43	0 14	18 56	1 27	13 35	0 59	16 33	0 46	1 53	2 13	23 22	0 8	22 11	1 15	15 37	16 1	6 56	6 34	25 36	3 7	3 44	
W23	23 28	28 16	4 53	23 4	0 2	19 13	1 25	13 50	0 59	16 34	0 46	1 52	2 13	23 22	0 8	22 11	1 15	15 37	16 2	6 51	6 33	25 34	3 7	3 44	
T 24	23 27	27 23	5 0	23 24	0n 9	19 29	1 23	14 4	0 58	16 36	0 46	1 52	2 13	23 22	0 8	22 11	1 15	15 38	16 2	6 46	6 32	25 32	3 8	3 45	
F 25	23 26	25 16	4 54	23 41	0 19	19 44	1 21	14 18	0 58	16 37	0 47	1 51	2 14	23 22	0 8	22 11	1 15	15 38	16 2	6 41	6 30	25 31	3 8	3 45	
S 26	23 25	22 3	4 36	23 55	0 30	19 59	1 19	14 32	0 57	16 38	0 47	1 51	2 14	23 22	0 8	22 11	1 15	15 38	16 3	6 37	6 29	25 29	3 8	3 45	
S 27	23 23	17 57	4 5	24 7	0 40	20 13	1 16	14 45	0 56	16 39	0 47	1 51	2 14	23 22	0 8	22 11	1 15	15 39	16 3	6 34	6 28	25 28	3 8	3 45	
M28	23 21	13 8	3 24	24 17	0 49	20 27	1 14	14 59	0 56	16 41	0 47	1 50	2 15	23 21	0 8	22 11	1 15	15 39	16 4	6 31	6 27	25 26	3 9	3 45	
T 29	23 19	7 47	2 33	24 24	0 58	20 41	1 12	15 12	0 55	16 42	0 48	1 50	2 15	23 21	0 8	22 11	1 15	15 39	16 4	6 30	6 25	25 25	3 9	3 45	
W30	23n16	2n 3	1n34	24n28	1n 6	20n53	1s10	15n26	0s55	16s44	0s48	1s50	2s15	23s21	0s 8	22s11	1n15	15s40	16s 4	6n30	6n24	25n23	3n 9	3n45	

ASTRODIENST EPHEMERIS for the year 1819  
geocentric

JULY 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 32 50	8°16'00	10°56	7°29	11°40	15°32	16°R13	0°Y37	21°R52	27°R 0	27°R36	16°R30	16°Y13	28°42	29°16	T 1
F 2	18 36 47	9°13'11	23°46	9°39	12°52	16°15	16°8	0°39	21°50	26°59	27°36	16°Y30	16°10	28°49	29°16	F 2
S 3	18 40 43	10°10'22	7°3	11°49	14° 4	16°58	16° 3	0°40	21°48	26°57	27°36	16°28	16° 6	28°55	29°16	S 3
S 4	18 44 40	11° 7'33	20°48	13°58	15°17	17°41	15°58	0°41	21°45	26°55	27°36	16°25	16° 3	29° 2	29°16	S 4
M 5	18 48 36	12° 4'44	5°7	16° 7	16°29	18°23	15°53	0°41	21°43	26°54	27°36	16°20	16° 0	29° 9	29°16	M 5
T 6	18 52 33	13° 1'55	19°45	18°14	17°41	19° 6	15°48	0°42	21°41	26°52	27°36	16°12	15°57	29°16	29°16	T 6
W 7	18 56 29	13°59'05	4°349	20°19	18°53	19°48	15°43	0°43	21°39	26°51	27°35	16° 2	15°54	29°22	29°16	W 7
T 8	19 0 26	14°56'16	20° 5	22°24	20° 6	20°31	15°37	0°43	21°36	26°49	27°35	15°51	15°51	29°29	29°15	T 8
F 9	19 4 23	15°53'27	5°22	24°27	21°18	21°13	15°31	0°44	21°34	26°48	27°35	15°41	15°47	29°36	29°15	F 9
S 10	19 8 19	16°50'38	20°29	26°28	22°31	21°56	15°25	0°44	21°32	26°46	27°35	15°32	15°44	29°43	29°15	S 10
S 11	19 12 16	17°47'50	5°17	28°27	23°43	22°38	15°20	0°45	21°30	26°45	27°35	15°26	15°41	29°49	29°14	S 11
M12	19 16 12	18°45'02	19°40	0°25	24°56	23°20	15°13	0°45	21°28	26°43	27°34	15°22	15°38	29°56	29°14	M12
T 13	19 20 9	19°42'14	3°Y36	2°21	26° 8	24° 2	15° 7	0°R45	21°26	26°42	27°34	15°21	15°35	0°2	29°13	T 13
W14	19 24 5	20°39'27	17° 5	4°15	27°21	24°44	15° 1	0°45	21°24	26°40	27°34	15°21	15°31	0° 9	29°13	W14
T 15	19 28 2	21°36'41	0°11	6° 8	28°33	25°26	14°54	0°45	21°22	26°39	27°33	15°20	15°28	0°16	29°12	T 15
F 16	19 31 58	22°33'56	12°56	7°58	29°46	26° 8	14°48	0°44	21°20	26°38	27°33	15°19	15°25	0°23	29°11	F 16
S 17	19 35 55	23°31'11	25°25	9°47	0°59	26°50	14°41	0°44	21°18	26°36	27°32	15°16	15°22	0°30	29°11	S 17
S 18	19 39 52	24°28'27	7°141	11°34	2°12	27°31	14°34	0°44	21°16	26°35	27°32	15°10	15°19	0°36	29°10	S 18
M19	19 43 48	25°25'44	19°48	13°19	3°24	28°13	14°27	0°43	21°14	26°33	27°32	15° 1	15°16	0°43	29° 9	M19
T 20	19 47 45	26°23'01	1°48	15° 2	4°37	28°54	14°20	0°42	21°12	26°32	27°31	14°50	15°12	0°50	29° 8	T 20
W21	19 51 41	27°20'19	13°44	16°44	5°50	29°36	14°13	0°42	21°10	26°31	27°31	14°37	15° 9	0°56	29° 7	W21
T 22	19 55 38	28°17'38	25°37	18°23	7° 3	0°17	14° 6	0°41	21° 9	26°29	27°30	14°24	15° 6	1° 3	29° 6	T 22
F 23	19 59 34	29°14'57	7°29	20° 1	8°16	0°58	13°59	0°40	21° 7	26°28	27°30	14°11	15° 3	1°10	29° 5	F 23
S 24	20 3 31	0°12'17	19°20	21°37	9°29	1°39	13°52	0°39	21° 5	26°27	27°29	13°59	15° 0	1°17	29° 4	S 24
S 25	20 7 27	1° 9'38	1°13	23°11	10°42	2°20	13°44	0°38	21° 3	26°26	27°29	13°50	14°57	1°23	29° 3	S 25
M26	20 11 24	2° 6'59	13°11	24°43	11°55	3° 1	13°37	0°36	21° 2	26°24	27°28	13°44	14°53	1°30	29° 2	M26
T 27	20 15 21	3° 4'20	25°15	26°14	13° 8	3°42	13°29	0°35	21° 0	26°23	27°27	13°40	14°50	1°37	29° 1	T 27
W28	20 19 17	4° 1'42	7°30	27°42	14°21	4°23	13°22	0°34	20°59	26°22	27°27	13°38	14°47	1°43	29° 0	W28
T 29	20 23 14	4°59'05	19°59	29° 9	15°34	5° 4	13°14	0°32	20°57	26°21	27°26	13°D38	14°44	1°50	28°58	T 29
F 30	20 27 10	5°56'28	2°48	0°34	16°47	5°44	13° 6	0°30	20°56	26°20	27°25	13°R39	14°41	1°57	28°57	F 30
S 31	20 31 7	6°53'52	16°10	1°57	18°50	6°25	12°58	0°Y29	20°54	26°18	27°25	13°Y38	14°Y37	2°4	28°55	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23n12	3s53	0n29	24n29	1n14	21n 6	1s 8	15n39	0s54	16s45	0s48	1s49	2s15	23s21	0s 8	22s11
F 2	23 9	9 50	0s38	24 28	1 21	21 17	1 5	15 52	0 54	16 47	0 48	1 49	2 16	23 21	0 8	22 11
S 3	23 4	15 33	1 46	24 23	1 27	21 28	1 3	16 4	0 53	16 49	0 48	1 49	2 16	23 21	0 8	22 11
S 4	23 0	20 43	2 51	24 16	1 33	21 39	1 0	16 17	0 52	16 50	0 49	1 49	2 16	23 21	0 8	22 11
M 5	22 55	24 52	3 46	24 6	1 38	21 49	0 58	16 29	0 52	16 52	0 49	1 49	2 16	23 21	0 8	22 11
T 6	22 50	27 32	4 29	23 54	1 42	21 58	0 56	16 42	0 51	16 54	0 49	1 49	2 17	23 20	0 8	22 11
W 7	22 44	28 17	4 54	23 39	1 45	22 7	0 53	16 54	0 50	16 56	0 49	1 49	2 17	23 20	0 8	22 11
T 8	22 38	26 54	4 59	23 22	1 47	22 15	0 51	17 6	0 50	16 58	0 50	1 49	2 17	23 20	0 8	22 11
F 9	22 31	23 31	4 43	23 3	1 49	22 23	0 48	17 18	0 49	17 0	0 50	1 49	2 18	23 20	0 8	22 11
S 10	22 24	18 34	4 7	22 41	1 50	22 30	0 46	17 29	0 49	17 2	0 50	1 49	2 18	23 20	0 8	22 11
S 11	22 17	12 36	3 15	22 18	1 51	22 36	0 43	17 41	0 48	17 3	0 50	1 49	2 18	23 20	0 8	22 11
M12	22 9	6 6	2 11	21 53	1 50	22 42	0 40	17 52	0 47	17 5	0 50	1 49	2 18	23 20	0 8	22 11
T 13	22 1	0n29	1 2	21 26	1 49	22 47	0 38	18 3	0 47	17 8	0 51	1 49	2 19	23 19	0 8	22 11
W14	21 53	6 52	0n 9	20 58	1 48	22 51	0 35	18 14	0 46	17 10	0 51	1 50	2 19	23 19	0 8	22 11
T 15	21 44	12 45	1 18	20 28	1 46	22 55	0 33	18 25	0 45	17 12	0 51	1 50	2 19	23 19	0 8	22 11
F 16	21 34	17 58	2 20	19 57	1 43	22 58	0 30	18 35	0 44	17 14	0 51	1 50	2 19	23 19	0 8	22 11
S 17	21 25	22 17	3 15	19 25	1 39	23 0	0 27	18 46	0 44	17 16	0 51	1 51	2 20	23 19	0 8	22 11
S 18	21 15	25 33	3 59	18 52	1 35	23 2	0 25	18 56	0 43	17 18	0 52	1 51	2 20	23 19	0 8	22 11
M19	21 5	27 36	4 32	18 18	1 31	23 3	0 22	19 6	0 42	17 20	0 52	1 52	2 20	23 19	0 8	22 11
T 20	20 54	28 20	4 53	17 43	1 26	23 4	0 19	19 16	0 42	17 23	0 52	1 52	2 21	23 19	0 8	22 11
W21	20 43	27 44	5 0	17 7	1 21	23 3	0 17	19 25	0 41	17 25	0 52	1 53	2 21	23 19	0 8	22 11
T 22	20 32	25 52	4 54	16 31	1 15	23 2	0 14	19 35	0 40	17 27	0 52	1 53	2 21	23 18	0 8	22 11
F 23	20 20	22 52	4 36	15 55	1 9	23 1	0 12	19 44	0 39	17 29	0 53	1 54	2 21	23 18	0 8	22 11
S 24	20 8	18 56	4 6	15 18	1 2	22 59	0 9	19 53	0 39	17 32	0 53	1 54	2 22	23 18	0 8	22 11
S 25	19 55	14 14	3 25	14 40	0 55	22 56	0 6	20 2	0 38	17 34	0 53	1 55	2 22	23 18	0 8	22 11
M26	19 43	8 59	2 34	14 3	0 48	22 52	0 4	20 11	0 37	17 36	0 53	1 56	2 22	23 18	0 8	22 11
T 27	19 30	3 21	1 36	13 25	0 40	22 48	0 1	20 19	0 36	17 39	0 53	1 57	2 22	23 18	0 8	22 11
W28	19 16	2s29	0 33	12 47	0 32	22 43	0n 2	20 28	0 35	17 41	0 53	1 57	2 23	23 18	0 8	22 11
T 29	19 2	8 21	0s34	12 9	0 23	22 37	0 4	20 36	0 35	17 43	0 54	1 58	2 23	23 18	0 8	22 11
F 30	18 48	14 1	1 40	11 31	0 15	22 31	0 7	20 44	0 34	17 46	0 54	1 59	2 23	23 18	0 8	22 11
S 31	18n34	19s15	2s43	10n53	0n 6	22n24	0n 9	20n52	0s33	17s48	0s54	2s 0	2s23	23s17	0s 8	22s11

Julian Day Number = 2385616.5, Delta T = 16.67 sec  
Ecliptic obliquity = 23°27'54, Nutation = - 0°00'05, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 22°13'12, Lahiri = 21°20'12



# ASTRODIENST EPHEMERIS for the year 1819

## geocentric

AUGUST 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 35 3	7♏51°16	29♍38	3♍18	19♊14	7♏5	12°R51	0°R27	20°R53	26°R17	27°R24	13°R36	14°Y34	2♏10	28°R54	S 1
M 2	20 39 0	8°48'42	13♌45	4°37	20°27	7°45	12°R43	0°Y25	20°R51	26°R16	27°R23	13°Y32	14°31	2°17	28°R53	M 2
T 3	20 42 56	9°46'07	28°19	5°54	21°40	8°25	12°35	0°23	20°50	26°15	27°23	13°26	14°28	2°24	28°51	T 3
W 4	20 46 53	10°43'34	13♌17	7° 9	22°54	9° 5	12°27	0°21	20°49	26°14	27°22	13°18	14°25	2°30	28°49	W 4
T 5	20 50 50	11°41'02	28°30	8°22	24° 7	9°45	12°20	0°19	20°47	26°13	27°21	13° 9	14°22	2°37	28°48	T 5
F 6	20 54 46	12°38'30	13♌48	9°32	25°20	10°25	12°12	0°17	20°46	26°12	27°20	13° 0	14°18	2°44	28°46	F 6
S 7	20 58 43	13°35'59	29° 1	10°40	26°34	11° 5	12° 4	0°14	20°45	26°11	27°20	12°53	14°15	2°51	28°44	S 7
S 8	21 2 39	14°33'30	13♌57	11°46	27°47	11°45	11°56	0°12	20°44	26°10	27°19	12°48	14°12	2°57	28°43	S 8
M 9	21 6 36	15°31'02	28°29	12°50	29° 1	12°24	11°48	0° 9	20°43	26° 9	27°18	12°45	14° 9	3° 4	28°41	M 9
T 10	21 10 32	16°28'35	12°Y35	13°50	0♏14	13° 4	11°41	0° 7	20°42	26° 8	27°17	12°D44	14° 6	3°11	28°39	T 10
W11	21 14 29	17°26'09	26°11	14°49	1°28	13°43	11°33	0° 4	20°41	26° 7	27°16	12°45	14° 3	3°17	28°37	W11
T 12	21 18 25	18°23'45	9♌21	15°44	2°41	14°22	11°25	0° 1	20°40	26° 7	27°15	12°46	13°59	3°24	28°35	T 12
F 13	21 22 22	19°21'23	22° 8	16°36	3°55	15° 1	11°17	29°R58	20°39	26° 6	27°14	12°R46	13°56	3°31	28°33	F 13
S 14	21 26 19	20°19'02	4♏35	17°25	5° 9	15°40	11°10	29°55	20°38	26° 5	27°14	12°45	13°53	3°38	28°31	S 14
S 15	21 30 15	21°16'43	16°48	18°11	6°22	16°19	11° 2	29°52	20°37	26° 4	27°13	12°42	13°50	3°44	28°29	S 15
M16	21 34 12	22°14'25	28°51	18°53	7°36	16°58	10°55	29°49	20°37	26° 3	27°12	12°36	13°47	3°51	28°27	M16
T 17	21 38 8	23°12'09	10♌47	19°32	8°50	17°37	10°47	29°46	20°36	26° 3	27°11	12°29	13°43	3°58	28°25	T 17
W18	21 42 5	24° 9'55	22°39	20° 7	10° 4	18°15	10°40	29°43	20°35	26° 2	27°10	12°21	13°40	4° 4	28°23	W18
T 19	21 46 1	25° 7'41	4♏30	20°37	11°18	18°54	10°32	29°39	20°35	26° 1	27° 9	12°11	13°37	4°11	28°21	T 19
F 20	21 49 58	26° 5'30	16°23	21° 4	12°32	19°32	10°25	29°36	20°34	26° 1	27° 8	12° 3	13°34	4°18	28°18	F 20
S 21	21 53 54	27° 3'20	28°18	21°25	13°45	20°10	10°18	29°32	20°33	26° 0	27° 7	11°55	13°31	4°25	28°16	S 21
S 22	21 57 51	28° 1'11	10♏18	21°42	14°59	20°48	10°11	29°29	20°33	26° 0	27° 6	11°49	13°28	4°31	28°14	S 22
M23	22 1 48	28°59'03	22°23	21°54	16°13	21°26	10° 4	29°25	20°33	25°59	27° 5	11°45	13°24	4°38	28°12	M23
T 24	22 5 44	29°56'57	4♏37	22° 0	17°27	22° 4	9°57	29°22	20°32	25°59	27° 4	11°43	13°21	4°45	28° 9	T 24
W25	22 9 41	0♏54'52	17° 1	22°R 1	18°41	22°42	9°50	29°18	20°32	25°58	27° 3	11°D43	13°18	4°51	28° 7	W25
T 26	22 13 37	1°52'49	29°38	21°56	19°55	23°19	9°43	29°14	20°32	25°58	27° 2	11°44	13°15	4°58	28° 4	T 26
F 27	22 17 34	2°50'47	12♏32	21°45	21°10	23°57	9°37	29°10	20°31	25°57	27° 1	11°46	13°12	5° 5	28° 2	F 27
S 28	22 21 30	3°48'46	25°44	21°27	22°24	24°34	9°30	29° 6	20°31	25°57	26°59	11°47	13° 8	5°12	27°59	S 28
S 29	22 25 27	4°46'47	9♌18	21° 4	23°38	25°11	9°24	29° 2	20°31	25°57	26°58	11°R47	13° 5	5°18	27°57	S 29
M30	22 29 23	5°44'49	23°15	20°35	24°52	25°48	9°17	28°58	20°31	25°56	26°57	11°46	13° 2	5°25	27°54	M30
T 31	22 33 20	6♏42'53	7♌36	20♏0	26♏6	26♏25	9°11	28°R54	20°D31	25°R56	26°R56	11°Y43	12°Y59	5♏32	27°R52	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	18n19	23s40	3s39	10n15	0s 4	22n17	0n12	20n59	0s32	17s50	0s54	2s 1	2s24	23s17	0s 8	22s11	1n14
M 2	18 5	26 50	4 24	9 38	0 13	22 9	0 14	21 7	0 31	17 53	0 54	2 2	2 24	23 17	0 8	22 11	1 14
T 3	17 49	28 20	4 53	9 0	0 23	22 0	0 17	21 14	0 31	17 55	0 54	2 3	2 24	23 17	0 8	22 11	1 14
W 4	17 34	27 50	5 4	8 23	0 33	21 50	0 19	21 21	0 30	17 57	0 54	2 4	2 24	23 17	0 8	22 11	1 14
T 5	17 18	25 16	4 53	7 47	0 43	21 40	0 22	21 28	0 29	18 0	0 55	2 5	2 25	23 17	0 8	22 11	1 14
F 6	17 2	20 52	4 21	7 11	0 53	21 29	0 24	21 34	0 28	18 2	0 55	2 6	2 25	23 17	0 8	22 11	1 14
S 7	16 46	15 8	3 31	6 36	1 3	21 18	0 27	21 41	0 27	18 4	0 55	2 7	2 25	23 17	0 8	22 11	1 14
S 8	16 29	8 35	2 28	6 1	1 14	21 6	0 29	21 47	0 26	18 7	0 55	2 9	2 25	23 17	0 8	22 11	1 14
M 9	16 12	1 45	1 15	5 27	1 25	20 53	0 31	21 53	0 25	18 9	0 55	2 10	2 26	23 17	0 8	22 11	1 14
T 10	15 55	4n58	0 1	4 54	1 35	20 40	0 34	21 59	0 24	18 11	0 55	2 11	2 26	23 17	0 8	22 11	1 14
W11	15 38	11 14	1n11	4 21	1 46	20 26	0 36	22 5	0 24	18 13	0 55	2 12	2 26	23 17	0 8	22 11	1 14
T 12	15 20	16 48	2 18	3 50	1 57	20 12	0 38	22 10	0 23	18 16	0 55	2 14	2 26	23 17	0 8	22 11	1 13
F 13	15 2	21 28	3 15	3 20	2 8	19 57	0 40	22 16	0 22	18 18	0 55	2 15	2 26	23 16	0 8	22 11	1 13
S 14	14 44	25 2	4 2	2 51	2 19	19 41	0 42	22 21	0 21	18 20	0 56	2 16	2 27	23 16	0 8	22 11	1 13
S 15	14 25	27 23	4 36	2 23	2 30	19 25	0 45	22 26	0 20	18 22	0 56	2 18	2 27	23 16	0 8	22 11	1 13
M16	14 7	28 25	4 58	1 56	2 41	19 8	0 47	22 31	0 19	18 24	0 56	2 19	2 27	23 16	0 8	22 11	1 13
T 17	13 48	28 7	5 6	1 31	2 51	18 51	0 49	22 35	0 18	18 27	0 56	2 21	2 27	23 16	0 8	22 11	1 13
W18	13 29	26 31	5 2	1 8	3 2	18 33	0 51	22 40	0 17	18 29	0 56	2 22	2 28	23 16	0 8	22 11	1 13
T 19	13 10	23 45	4 44	0 47	3 12	18 15	0 53	22 44	0 16	18 31	0 56	2 24	2 28	23 16	0 8	22 11	1 13
F 20	12 50	19 59	4 14	0 27	3 22	17 56	0 54	22 48	0 15	18 33	0 56	2 25	2 28	23 16	0 8	22 11	1 13
S 21	12 30	15 24	3 33	0 10	3 32	17 37	0 56	22 52	0 14	18 35	0 56	2 27	2 28	23 16	0 8	22 11	1 13
S 22	12 10	10 12	2 42	0s 5	3 41	17 17	0 58	22 56	0 13	18 37	0 56	2 28	2 28	23 16	0 8	22 11	1 13
M23	11 50	4 36	1 43	0 18	3 49	16 57	1 0	22 59	0 12	18 39	0 56	2 30	2 28	23 16	0 8	22 11	1 13
T 24	11 30	1s15	0 38	0 28	3 57	16 36	1 2	23 3	0 11	18 41	0 56	2 32	2 29	23 16	0 8	22 11	1 13
W25	11 10	7 8	0s29	0 35	4 5	16 14	1 3	23 6	0 10	18 43	0 56	2 33	2 29	23 16	0 8	22 11	1 13
T 26	10 49	12 51	1 36	0 39	4 11	15 53	1 5	23 9	0 9	18 44	0 56	2 35	2 29	23 16	0 8	22 11	1 13
F 27	10 28	18 9	2 40	0 39	4 17	15 31	1 6	23 12	0 8	18 46	0 56	2 37	2 29	23 16	0 8	22 11	1 13
S 28	10 7	22 43	3 37	0 37	4 21	15 8	1 8	23 14	0 7	18 48	0 56	2 38	2 29	23 16	0 8	22 11	1 13
S 29	9 46	26 12	4 23	0 31	4 25	14 45	1 9	23 17	0 6	18 50	0 56	2 40	2 29	23 16	0 8	22 11	1 13
M30	9 25	28 13	4 55	0 21	4 27	14 21	1 11	23 19	0 5	18 51	0 56	2 42	2 30	23 16	0 8	22 12	1 13
T 31	9n 3	28s25	5s11	0s 8	4s27	13n58	1n12	23n21	0s 4	18s53	0s56	2s44	2s30	23s16	0s 8	22s12	1n13

Julian Day Number = 2385647.5, Delta T = 16.66 sec  
 Ecliptic obliquity = 23°27'55", Nutation = - 0°00'03", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 22°13'16", Lahiri = 21°20'16"

# ASTRODIENST EPHEMERIS for the year 1819

## geocentric

SEPTEMBER 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 37 17	7 <sup>h</sup> 40'58"	22 <sup>h</sup> 31'17"	19°R19	27°L20	27°II 2	9°R 5	28°R50	20°A31	25°R56	26°R55	11°R39	12°Y56	5°L38	27°R49	W 1
T 2	22 41 13	8°39'04"	7 <sup>h</sup> 31'13"	18°33'	28°35'	27°38'	8°59'	28°H46	20°31'	25°A56	26°H54	11°Y34	12°53'	5°45'	27°H47	T 2
F 3	22 45 10	9°37'12"	22°16'	17°42'	29°49'	28°15'	8°54'	28°42'	20°31'	25°55'	26°53'	11°30'	12°49'	5°52'	27°44'	F 3
S 4	22 49 6	10°35'21"	7°H18	16°47'	1°17' 3	28°51'	8°48'	28°37'	20°32'	25°55'	26°52'	11°26'	12°46'	5°59'	27°42'	S 4
S 5	22 53 3	11°33'32"	22° 9'	15°50'	2°18'	29°27'	8°43'	28°33'	20°32'	25°55'	26°51'	11°23'	12°43'	6° 5'	27°39'	S 5
M 6	22 56 59	12°31'45"	6°Y41	14°51'	3°32'	0°33'	8°37'	28°29'	20°32'	25°55'	26°49'	11°D22	12°40'	6°12'	27°36'	M 6
T 7	23 0 56	13°29'59"	20°50'	13°51'	4°46'	0°39'	8°32'	28°24'	20°32'	25°55'	26°48'	11°22'	12°37'	6°19'	27°34'	T 7
W 8	23 4 52	14°28'16"	4°B32	12°52'	6° 1'	1°15'	8°27'	28°20'	20°33'	25°D55	26°47'	11°24'	12°34'	6°25'	27°31'	W 8
T 9	23 8 49	15°26'35"	17°48'	11°55'	7°15'	1°51'	8°22'	28°15'	20°33'	25°55'	26°46'	11°25'	12°30'	6°32'	27°28'	T 9
F 10	23 12 46	16°24'56"	0°II40	11° 2'	8°30'	2°26'	8°18'	28°11'	20°34'	25°55'	26°45'	11°27'	12°27'	6°39'	27°26'	F 10
S 11	23 16 42	17°23'19"	13°11'	10°13'	9°44'	3° 1'	8°13'	28° 6'	20°34'	25°55'	26°44'	11°R27	12°24'	6°46'	27°23'	S 11
S 12	23 20 39	18°21'44"	25°25'	9°31'	10°59'	3°36'	8° 9'	28° 2'	20°35'	25°55'	26°42'	11°27'	12°21'	6°52'	27°20'	S 12
M13	23 24 35	19°20'11"	7°28'	8°55'	12°13'	4°11'	8° 5'	27°57'	20°36'	25°55'	26°41'	11°26'	12°18'	6°59'	27°17'	M13
T 14	23 28 32	20°18'41"	19°23'	8°28'	13°28'	4°46'	8° 1'	27°53'	20°36'	25°56'	26°40'	11°24'	12°14'	7° 6'	27°15'	T 14
W15	23 32 28	21°17'12"	1°L14	8° 9'	14°43'	5°21'	7°57'	27°48'	20°37'	25°56'	26°39'	11°21'	12°11'	7°12'	27°12'	W15
T 16	23 36 25	22°15'46"	13° 6'	8°D 0	15°57'	5°55'	7°53'	27°43'	20°38'	25°56'	26°38'	11°18'	12° 8'	7°19'	27° 9'	T 16
F 17	23 40 21	23°14'22"	25° 1'	8° 0'	17°12'	6°29'	7°50'	27°39'	20°39'	25°56'	26°36'	11°15'	12° 5'	7°26'	27° 6'	F 17
S 18	23 44 18	24°12'59"	7°17' 2	8° 9'	18°27'	7° 4'	7°47'	27°34'	20°40'	25°57'	26°35'	11°12'	12° 2'	7°33'	27° 4'	S 18
S 19	23 48 15	25°11'39"	19°11'	8°29'	19°41'	7°37'	7°44'	27°30'	20°41'	25°57'	26°34'	11°11'	11°59'	7°39'	27° 1'	S 19
M20	23 52 11	26°10'21"	1°B30	8°58'	20°56'	8°11'	7°41'	27°25'	20°42'	25°57'	26°33'	11°10'	11°55'	7°46'	26°58'	M20
T 21	23 56 8	27° 9'04"	13°59'	9°35'	22°11'	8°45'	7°38'	27°20'	20°43'	25°58'	26°32'	11°D 9	11°52'	7°53'	26°55'	T 21
W22	0 0 4	28° 7'50"	26°40'	10°22'	23°25'	9°18'	7°35'	27°16'	20°44'	25°58'	26°30'	11°10'	11°49'	7°59'	26°52'	W22
T 23	0 4 1	29° 6'37"	9°14'	11°16'	24°40'	9°51'	7°33'	27°11'	20°45'	25°59'	26°29'	11°11'	11°46'	8° 6'	26°50'	T 23
F 24	0 7 57	0° 5'27"	22°42'	12°18'	25°55'	10°24'	7°31'	27° 6'	20°46'	25°59'	26°28'	11°12'	11°43'	8°13'	26°47'	F 24
S 25	0 11 54	1° 4'18"	6°A 5	13°27'	27°10'	10°57'	7°29'	27° 2'	20°47'	26° 0'	26°27'	11°13'	11°40'	8°20'	26°44'	S 25
S 26	0 15 50	2° 3'11"	19°43'	14°42'	28°25'	11°29'	7°27'	26°57'	20°49'	26° 0'	26°26'	11°13'	11°36'	8°26'	26°41'	S 26
M27	0 19 47	3° 2'05"	3°B37	16° 3'	29°40'	12° 2'	7°26'	26°52'	20°50'	26° 1'	26°24'	11°R13	11°33'	8°33'	26°39'	M27
T 28	0 23 44	4° 1'02"	17°47'	17°28'	0°B54	12°34'	7°24'	26°48'	20°51'	26° 1'	26°23'	11°13'	11°30'	8°40'	26°36'	T 28
W29	0 27 40	5° 0'00"	2° 9'	18°58'	2° 9'	13° 6'	7°23'	26°43'	20°53'	26° 2'	26°22'	11°13'	11°27'	8°46'	26°33'	W29
T 30	0 31 37	5°58'59"	16°42'	20°31'	3°B24	13°38'	7°22'	26°H39	20°A54	26°A 3	26°H21	11°Y12	11°Y24	8°L53	26°H30	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	decl	lat
W 1	8n42	26s39	5s 6	0n 9	4s26	13n33	1n13	23n23	0s 3	18s55	0s56	2s45	2s30	23s16	0s 8	22s12	1n13	16s12	16s22	4n37	5n 7	23n29	2n40	3n51			
T 2	8 20	23 1	4 41	0 30	4 23	13 9	1 14	23 25	0 2	18 56	0 56	2 47	2 30	23 16	0 8	22 12	1 13	16 13	16 22	4 35	5 5	23 27	2 39	3 51			
F 3	7 58	17 50	3 56	0 54	4 18	12 44	1 16	23 27	0 1	18 58	0 57	2 49	2 30	23 16	0 8	22 12	1 13	16 13	16 22	4 33	5 4	23 25	2 38	3 51			
S 4	7 36	11 33	2 56	1 22	4 11	12 18	1 17	23 28	0n 1	18 59	0 57	2 51	2 30	23 16	0 8	22 12	1 12	16 14	16 23	4 32	5 3	23 23	2 37	3 51			
S 5	7 14	4 42	1 43	1 52	4 3	11 53	1 18	23 30	0 2	19 1	0 57	2 53	2 30	23 16	0 8	22 12	1 12	16 15	16 23	4 31	5 2	23 21	2 36	3 51			
M 6	6 52	2n16	0 26	2 24	3 52	11 27	1 19	23 31	0 3	19 2	0 57	2 55	2 31	23 16	0 8	22 12	1 12	16 15	16 23	4 30	5 1	23 19	2 35	3 51			
T 7	6 30	8 56	0n52	2 59	3 40	11 0	1 20	23 32	0 4	19 3	0 57	2 56	2 31	23 16	0 8	22 12	1 12	16 16	16 23	4 30	4 59	23 17	2 34	3 51			
W 8	6 7	14 59	2 4	3 34	3 25	10 34	1 20	23 33	0 5	19 5	0 57	2 58	2 31	23 16	0 8	22 12	1 12	16 16	16 23	4 31	4 58	23 14	2 33	3 51			
T 9	5 45	20 8	3 7	4 11	3 10	10 7	1 21	23 33	0 6	19 6	0 56	3 0	2 31	23 16	0 8	22 12	1 12	16 17	16 23	4 31	4 57	23 12	2 32	3 51			
F 10	5 22	24 12	3 58	4 47	2 53	9 39	1 22	23 34	0 7	19 7	0 56	3 2	2 31	23 16	0 8	22 12	1 12	16 17	16 23	4 32	4 56	23 10	2 31	3 51			
S 11	4 59	26 59	4 37	5 22	2 34	9 12	1 23	23 34	0 9	19 8	0 56	3 4	2 31	23 16	0 8	22 12	1 12	16 18	16 23	4 32	4 54	23 8	2 30	3 51			
S 12	4 36	28 25	5 2	5 55	2 15	8 44	1 23	23 35	0 10	19 9	0 56	3 6	2 31	23 16	0 8	22 12	1 12	16 18	16 23	4 32	4 53	23 6	2 28	3 51			
M13	4 14	28 28	5 14	6 27	1 56	8 16	1 24	23 35	0 11	19 10	0 56	3 8	2 31	23 16	0 8	22 12	1 12	16 19	16 23	4 32	4 52	23 4	2 27	3 51			
T 14	3 51	27 12	5 11	6 55	1 36	7 48	1 24	23 35	0 12	19 12	0 56	3 10	2 31	23 16	0 8	22 12	1 12	16 19	16 23	4 31	4 51	23 2	2 26	3 51			
W15	3 28	24 43	4 56	7 20	1 17	7 20	1 24	23 35	0 13	19 12	0 56	3 11	2 31	23 16	0 8	22 12	1 12	16 20	16 24	4 30	4 49	23 0	2 25	3 51			
T 16	3 4	21 10	4 28	7 42	0 57	6 51	1 25	23 34	0 15	19 13	0 56	3 13	2 31	23 16	0 8	22 12	1 12	16 20	16 24	4 29	4 48	22 58	2 24	3 51			
F 17	2 41	16 46	3 48	7 59	0 38	6 22	1 25	23 34	0 16	19 14	0 56	3 15	2 32	23 17	0 8	22 12	1 12	16 21	16 24	4 27	4 47	22 56	2 23	3 51			
S 18	2 18	11 41	2 57	8 13	0 20	5 53	1 25	23 34	0 17	19 15	0 56	3 17	2 32	23 17	0 8	22 12	1 12	16 22	16 24	4 26	4 46	22 54	2 22	3 51			
S 19	1 55	6 6	1 58	8 21	0 3	5 24	1 25	23 33	0 18	19 16	0 56	3 19	2 32	23 17	0 8	22 13	1 12	16 22	16 24	4 26	4 44	22 51	2 21	3 51			
M20	1 31	0 13	0 53	8 26	0n13	4 54	1 25	23 32	0 20	19 17	0 56	3 21	2 32	23 17	0 8	22 13	1 12	16 23	16 24	4 25	4 43	22 49	2 19	3 51			
T 21	1 8	5s46	0s16	8 25	0 29	4 25	1 25	23 31	0 21	19 17	0 56	3 23	2 32	23 17	0 8	22 13	1 12	16 23	16 24	4 25	4 42	22 47	2 18	3 51			
W22	0 45	11 37	1 25	8 21	0 42	3 55	1 25	23 30	0 22	19 18	0 56	3 25	2 32	23 17	0 8	22 13	1 12	16 23	16 24	4 25	4 41	22 45	2 17	3 51			
T 23	0 21	17 5	2 31	8 12	0 55	3 25	1 25	23 29	0 23	19 18	0 56	3 27	2 32	23 17	0 8	22 13	1 12	16 24	16 24	4 26	4 39	22 43	2 16	3 51			
F 24	0s 2	21 51	3 30	7 59	1 6	2 55	1 25	23 28	0 25	19 19	0 56	3 28	2 32	23 17	0 8	22 13	1 11	16 24	16 24	4 26	4 38	22 41	2 15	3 51			
S 25	0 26	25 36	4 19	7 41	1 17	2 25	1 25	23 27	0 26	19 19	0 56	3 30	2 32	23 17	0 8	22 13	1 11	16 25	16 24	4 26	4 37	22 38	2 13	3 50			
S 26	0 49	27 58	4 55	7 21	1 25	1 55	1 24	23 25	0 27	19 20	0 56	3 32	2 32	23 17	0 8	22 13	1 11	16 25	16 24	4 27	4 36	22 36	2 12	3 50			
M27	1 12	28 39	5 14	6 56	1 33	1 25	1 24	23 24	0 29	19 20	0 56	3 34	2 32	23 17	0 8	22 13	1 11	16 26	16 24	4 27	4 34	22 34	2 11	3 50			
T 28	1 36	27 29	5 15	6 29	1 39	0 55	1 24	23 22	0 30	19 20	0 56	3 36	2 32	23 17	0 8	22 13	1 11	16 26	16 24	4 27	4 33	22 32	2 10	3 50			
W29	1 59	24 30	4 56	5 58	1 45	0 25	1 23	23 20	0 31	19 21	0 56	3 38	2 32	23 18	0 8	22 13	1 11	16 27	16 24	4 26	4 32	22 30	2 9	3 50			
T 30	2s23	19s57	4s18	5n26	1n49	0s 6	1n22	23n19	0n33	19s21	0s56	3s39	2s32	23s18	0s 8	22s13	1n11	16s27	16s24	4n26	4n31	22n28	2n 8	3n50			

ASTRODIENST EPHEMERIS for the year 1819  
geocentric

OCTOBER 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 35 33	6♂58'01	1♂20	22♂ 7	4♂39	14♂ 9	7°R22	26°R34	20♂56	26♂ 4	26°R20	11°R12	11°Y20	9♂ 0	26°R28	F 1
S 2	0 39 30	7°57'04	15°57	23°46	5°54	14°40	7♂21	26♂30	20°58	26° 4	26♂18	11°Y11	11°17	9° 6	26♂25	S 2
S 3	0 43 26	8°56'09	0°Y28	25°26	7° 9	15°11	7°21	26°25	20°59	26° 5	26°17	11°11	11°14	9°13	26°22	S 3
M 4	0 47 23	9°55'16	14°47	27° 9	8°24	15°42	7°D21	26°21	21° 1	26° 6	26°16	11°D11	11°11	9°20	26°20	M 4
T 5	0 51 19	10°54'25	28°47	28°52	9°39	16°13	7°21	26°16	21° 3	26° 7	26°15	11°R11	11° 8	9°27	26°17	T 5
W 6	0 55 16	11°53'37	12♂27	0♂36	10°54	16°43	7°21	26°12	21° 4	26° 8	26°14	11°11	11° 5	9°33	26°14	W 6
T 7	0 59 13	12°52'50	25°44	2°21	12° 9	17°13	7°21	26° 7	21° 6	26° 9	26°13	11°11	11° 1	9°40	26°12	T 7
F 8	1 3 9	13°52'06	8♂39	4° 6	13°24	17°43	7°22	26° 3	21° 8	26°10	26°12	11°11	10°58	9°47	26° 9	F 8
S 9	1 7 6	14°51'25	21°14	5°52	14°39	18°13	7°23	25°59	21°10	26°11	26°10	11°10	10°55	9°53	26° 6	S 9
S 10	1 11 2	15°50'45	3♂31	7°37	15°54	18°42	7°24	25°55	21°12	26°12	26° 9	11°10	10°52	10° 0	26° 4	S 10
M11	1 14 59	16°50'08	15°35	9°23	17° 9	19°11	7°25	25°50	21°14	26°13	26° 8	11°D10	10°49	10° 7	26° 1	M11
T 12	1 18 55	17°49'33	27°31	11° 8	18°24	19°40	7°26	25°46	21°16	26°14	26° 7	11°10	10°46	10°14	25°59	T 12
W13	1 22 52	18°49'01	9♂23	12°52	19°39	20° 9	7°28	25°42	21°18	26°15	26° 6	11°10	10°42	10°20	25°56	W13
T 14	1 26 48	19°48'30	21°15	14°37	20°54	20°37	7°30	25°38	21°20	26°16	26° 5	11°11	10°39	10°27	25°54	T 14
F 15	1 30 45	20°48'02	3♂13	16°21	22° 9	21° 5	7°32	25°34	21°22	26°17	26° 4	11°12	10°36	10°34	25°51	F 15
S 16	1 34 42	21°47'36	15°19	18° 4	23°24	21°33	7°34	25°30	21°25	26°18	26° 3	11°13	10°33	10°40	25°49	S 16
S 17	1 38 38	22°47'13	27°37	19°47	24°39	22° 0	7°36	25°26	21°27	26°20	26° 2	11°14	10°30	10°47	25°46	S 17
M18	1 42 35	23°46'51	10♂ 9	21°29	25°54	22°27	7°39	25°22	21°29	26°21	26° 1	11°R14	10°26	10°54	25°44	M18
T 19	1 46 31	24°46'32	22°56	23°11	27° 9	22°54	7°42	25°19	21°32	26°22	26° 0	11°14	10°23	11° 0	25°42	T 19
W20	1 50 28	25°46'14	6♂ 0	24°52	28°25	23°21	7°45	25°15	21°34	26°23	25°59	11°13	10°20	11° 7	25°39	W20
T 21	1 54 24	26°45'59	19°18	26°33	29°40	23°47	7°48	25°11	21°36	26°25	25°58	11°11	10°17	11°14	25°37	T 21
F 22	1 58 21	27°45'45	2♂51	28°13	0♂55	24°13	7°51	25° 8	21°39	26°26	25°57	11° 9	10°14	11°21	25°35	F 22
S 23	2 2 17	28°45'34	16°35	29°52	2°10	24°38	7°55	25° 4	21°41	26°27	25°56	11° 7	10°11	11°27	25°33	S 23
S 24	2 6 14	29°45'24	0♂30	1♂31	3°25	25° 4	7°59	25° 1	21°44	26°29	25°55	11° 4	10° 7	11°34	25°30	S 24
M25	2 10 11	0♂45'16	14°32	3° 9	4°40	25°28	8° 3	24°58	21°47	26°30	25°54	11° 3	10° 4	11°41	25°28	M25
T 26	2 14 7	1°45'09	28°40	4°47	5°56	25°53	8° 7	24°54	21°49	26°32	25°53	11°D 2	10° 1	11°47	25°26	T 26
W27	2 18 4	2°45'04	12♂51	6°24	7°11	26°17	8°11	24°51	21°52	26°33	25°52	11° 2	9°58	11°54	25°24	W27
T 28	2 22 0	3°45'01	27° 4	8° 1	8°26	26°41	8°16	24°48	21°54	26°35	25°51	11° 3	9°55	12° 1	25°22	T 28
F 29	2 25 57	4°44'59	11♂16	9°37	9°41	27° 4	8°20	24°45	21°57	26°36	25°50	11° 5	9°51	12° 7	25°20	F 29
S 30	2 29 53	5°44'59	25°25	11°13	10°56	27°27	8°25	24°42	22° 0	26°38	25°49	11° 6	9°48	12°14	25°18	S 30
S 31	2 33 50	6♂45'00	9°Y28	12♂48	12♂11	27♂50	8♂30	24♂39	22♂ 3	26♂40	25♂48	11°R 7	9°Y45	12♂21	25♂16	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	2s46	14s11	3s23	4n50	1n52	0s36	1n22	23n17	0n34	19s21	0s56	3s41	2s32	23s18	0s 8	22s13
S 2	3 9	7 37	2 15	4 13	1 54	1 6	1 21	23 15	0 36	19 21	0 56	3 43	2 32	23 18	0 8	22 13
S 3	3 33	0 43	0 59	3 34	1 55	1 37	1 20	23 13	0 37	19 21	0 55	3 45	2 32	23 18	0 8	22 13
M 4	3 56	6n 8	0n20	2 54	1 55	2 7	1 20	23 11	0 38	19 21	0 55	3 47	2 32	23 18	0 8	22 13
T 5	4 19	12 33	1 36	2 12	1 55	2 37	1 19	23 8	0 40	19 21	0 55	3 48	2 32	23 18	0 8	22 14
W 6	4 42	18 12	2 45	1 30	1 54	3 8	1 18	23 6	0 41	19 21	0 55	3 50	2 32	23 18	0 8	22 14
T 7	5 6	22 49	3 43	0 46	1 52	3 38	1 17	23 4	0 43	19 21	0 55	3 52	2 32	23 18	0 8	22 14
F 8	5 29	26 10	4 27	0 2	1 49	4 8	1 16	23 1	0 44	19 20	0 55	3 53	2 32	23 19	0 8	22 14
S 9	5 52	28 8	4 58	0s42	1 46	4 38	1 14	22 59	0 46	19 20	0 55	3 55	2 32	23 19	0 8	22 14
S 10	6 15	28 39	5 14	1 27	1 43	5 8	1 13	22 56	0 47	19 20	0 55	3 57	2 31	23 19	0 9	22 14
M11	6 37	27 47	5 16	2 12	1 39	5 38	1 12	22 54	0 49	19 19	0 55	3 58	2 31	23 19	0 9	22 14
T 12	7 0	25 39	5 4	2 57	1 35	6 8	1 11	22 51	0 50	19 19	0 55	4 0	2 31	23 19	0 9	22 14
W13	7 23	22 25	4 39	3 43	1 30	6 37	1 9	22 49	0 52	19 18	0 55	4 1	2 31	23 19	0 9	22 14
T 14	7 45	18 16	4 3	4 28	1 25	7 7	1 8	22 46	0 54	19 18	0 55	4 3	2 31	23 19	0 9	22 14
F 15	8 8	13 22	3 15	5 12	1 20	7 36	1 7	22 43	0 55	19 17	0 55	4 4	2 31	23 20	0 9	22 14
S 16	8 30	7 55	2 19	5 57	1 14	8 6	1 5	22 40	0 57	19 17	0 55	4 6	2 31	23 20	0 9	22 14
S 17	8 52	2 6	1 15	6 41	1 8	8 35	1 3	22 38	0 58	19 16	0 54	4 7	2 31	23 20	0 9	22 14
M18	9 14	3s56	0 6	7 25	1 3	9 3	1 2	22 35	1 0	19 15	0 54	4 9	2 31	23 20	0 9	22 15
T 19	9 36	9 55	1s 4	8 9	0 56	9 32	1 0	22 32	1 2	19 14	0 54	4 10	2 31	23 20	0 9	22 15
W20	9 58	15 37	2 13	8 52	0 50	10 1	0 59	22 29	1 3	19 14	0 54	4 12	2 31	23 20	0 9	22 15
T 21	10 20	20 42	3 15	9 34	0 44	10 29	0 57	22 26	1 5	19 13	0 54	4 13	2 30	23 20	0 9	22 15
F 22	10 41	24 48	4 8	10 16	0 37	10 57	0 55	22 24	1 7	19 12	0 54	4 14	2 30	23 21	0 9	22 15
S 23	11 3	27 33	4 47	10 57	0 31	11 24	0 53	22 21	1 9	19 11	0 54	4 15	2 30	23 21	0 9	22 15
S 24	11 24	28 37	5 10	11 38	0 24	11 52	0 51	22 18	1 10	19 10	0 54	4 17	2 30	23 21	0 9	22 15
M25	11 45	27 53	5 14	12 18	0 17	12 19	0 49	22 15	1 12	19 9	0 54	4 18	2 30	23 21	0 9	22 15
T 26	12 6	25 21	5 0	12 58	0 11	12 46	0 47	22 12	1 14	19 7	0 54	4 19	2 30	23 21	0 9	22 15
W27	12 26	21 15	4 28	13 36	0 4	13 12	0 45	22 10	1 16	19 6	0 54	4 20	2 30	23 21	0 9	22 15
T 28	12 47	15 56	3 39	14 14	0s 3	13 39	0 43	22 7	1 18	19 5	0 54	4 21	2 30	23 22	0 9	22 15
F 29	13 7	9 46	2 37	14 52	0 10	14 5	0 41	22 4	1 20	19 4	0 54	4 22	2 29	23 22	0 9	22 15
S 30	13 27	3 8	1 25	15 28	0 16	14 30	0 39	22 1	1 21	19 2	0 53	4 23	2 29	23 22	0 9	22 15
S 31	13s47	3n37	0s 9	16s 4	0s23	14s55	0n37	21n59	1n23	19s 1	0s53	4s24	2s29	23s22	0s 9	22s16

Julian Day Number = 2385708.5, Delta T = 16.64 sec  
Ecliptic obliquity = 23°27'55, Nutation = - 0°00'04, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 22°13'24, Lahiri = 21°20'25

ASTRODIENST EPHEMERIS for the year 1819  
geocentric

NOVEMBER 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 37 46	7♂45'03	23°V22	14♂23	13♂27	28♂12	8♂35	24°R37	22♂ 6	26♂41	25°R47	11°R 6	9°V42	12♂28	25°R14	M 1
T 2	2 41 43	8°45'08	7♂ 3	15°57	14°42	28°34	8°41	24°H34	22° 8	26°43	25°H47	11°V 4	9°39	12°34	25°H12	T 2
W 3	2 45 39	9°45'15	20°29	17°31	15°57	28°55	8°46	24°31	22°11	26°44	25°46	11° 1	9°36	12°41	25°11	W 3
T 4	2 49 36	10°45'24	3III38	19° 5	17°12	29°16	8°52	24°29	22°14	26°46	25°45	10°56	9°32	12°48	25° 9	T 4
F 5	2 53 33	11°45'35	16°29	20°38	18°27	29°37	8°58	24°26	22°17	26°48	25°44	10°51	9°29	12°54	25° 7	F 5
S 6	2 57 29	12°45'48	29° 3	22°11	19°42	29°57	9° 4	24°24	22°20	26°50	25°43	10°46	9°26	13° 1	25° 6	S 6
S 7	3 1 26	13°46'02	11♂21	23°43	20°58	0♂17	9°10	24°22	22°23	26°51	25°43	10°41	9°23	13° 8	25° 4	S 7
M 8	3 5 22	14°46'19	23°26	25°15	22°13	0°36	9°16	24°20	22°26	26°53	25°42	10°37	9°20	13°14	25° 2	M 8
T 9	3 9 19	15°46'38	5♂22	26°47	23°28	0°55	9°23	24°18	22°29	26°55	25°41	10°35	9°17	13°21	25° 1	T 9
W10	3 13 15	16°46'58	17°13	28°18	24°43	1°13	9°30	24°16	22°32	26°57	25°41	10°D34	9°13	13°28	24°59	W10
T 11	3 17 12	17°47'21	29° 5	29°49	25°59	1°31	9°37	24°14	22°36	26°59	25°40	10°35	9°10	13°35	24°58	T 11
F 12	3 21 9	18°47'45	11♂ 2	1♂20	27°14	1°48	9°44	24°12	22°39	27° 1	25°39	10°37	9° 7	13°41	24°57	F 12
S 13	3 25 5	19°48'11	23° 9	2°51	28°29	2° 5	9°51	24°11	22°42	27° 2	25°39	10°38	9° 4	13°48	24°55	S 13
S 14	3 29 2	20°48'39	5♂32	4°21	29°44	2°21	9°58	24° 9	22°45	27° 4	25°38	10°R39	9° 1	13°55	24°54	S 14
M15	3 32 58	21°49'09	18°13	5°51	0♂59	2°37	10° 6	24° 8	22°48	27° 6	25°37	10°39	8°57	14° 1	24°53	M15
T 16	3 36 55	22°49'41	1♂14	7°20	2°15	2°52	10°13	24° 6	22°52	27° 8	25°37	10°37	8°54	14° 8	24°52	T 16
W17	3 40 51	23°50'14	14°38	8°49	3°30	3° 6	10°21	24° 5	22°55	27°10	25°36	10°33	8°51	14°15	24°51	W17
T 18	3 44 48	24°50'49	28°21	10°18	4°45	3°20	10°29	24° 4	22°58	27°12	25°36	10°27	8°48	14°21	24°50	T 18
F 19	3 48 44	25°51'26	12♂22	11°46	6° 0	3°34	10°37	24° 3	23° 1	27°14	25°35	10°20	8°45	14°28	24°48	F 19
S 20	3 52 41	26°52'04	26°36	13°13	7°16	3°47	10°45	24° 2	23° 5	27°16	25°35	10°12	8°42	14°35	24°48	S 20
S 21	3 56 38	27°52'43	10♂57	14°41	8°31	3°59	10°54	24° 1	23° 8	27°18	25°34	10° 5	8°38	14°42	24°47	S 21
M22	4 0 34	28°53'24	25°20	16° 7	9°46	4°10	11° 2	24° 1	23°12	27°20	25°34	9°59	8°35	14°48	24°46	M22
T 23	4 4 31	29°54'06	9♂40	17°33	11° 1	4°21	11°11	24° 0	23°15	27°22	25°33	9°55	8°32	14°55	24°45	T 23
W24	4 8 27	0♂54'48	23°53	18°58	12°17	4°32	11°20	23°59	23°18	27°24	25°33	9°53	8°29	15° 2	24°44	W24
T 25	4 12 24	1°55'32	7♂58	20°22	13°32	4°42	11°29	23°59	23°22	27°26	25°33	9°D53	8°26	15° 8	24°44	T 25
F 26	4 16 20	2°56'16	21°54	21°46	14°47	4°51	11°38	23°59	23°25	27°28	25°32	9°53	8°23	15°15	24°43	F 26
S 27	4 20 17	3°57'02	5°V40	23° 8	16° 2	4°59	11°47	23°59	23°29	27°31	25°32	9°R54	8°19	15°22	24°42	S 27
S 28	4 24 13	4°57'48	19°17	24°29	17°18	5° 7	11°56	23°D59	23°32	27°33	25°32	9°54	8°16	15°28	24°42	S 28
M29	4 28 10	5°58'36	2♂44	25°48	18°33	5°14	12° 6	23°59	23°36	27°35	25°31	9°52	8°13	15°35	24°41	M29
T 30	4 32 7	6♂59'25	16♂ 0	27♂ 6	19♂48	5♂20	12♂15	23♂59	23♂39	27♂37	25♂31	9°V47	8°V10	15♂42	24♂41	T 30

Day	☉			☽			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀</		
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# ASTRODIENST EPHEMERIS for the year 1819

## geocentric

DECEMBER 1819

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 36 3	8♂ 0'14	29♂ 5	28♂ 22	21♂ 3	5♂ 25	12♂ 25	23♂ 59	23♂ 43	27♂ 39	25♂ 31	9♂ 39	8♂ 7	15♂ 49	24♂ 41	W 1
T 2	4 40 0	9° 1'05	11♂ 58	29° 36	22° 18	5° 30	12° 35	23° 59	23° 46	27° 41	25° 31	9° 29	8° 3	15° 55	24° 40	T 2
F 3	4 43 56	10° 1'57	24° 38	0♂ 47	23° 34	5° 34	12° 45	24° 0	23° 50	27° 43	25° 30	9° 17	8° 0	16° 2	24° 40	F 3
S 4	4 47 53	11° 2'51	7♂ 4	1° 55	24° 49	5° 38	12° 55	24° 1	23° 53	27° 46	25° 30	9° 6	7° 57	16° 9	24° 40	S 4
S 5	4 51 49	12° 3'45	19° 18	3° 0	26° 4	5° 40	13° 5	24° 1	23° 57	27° 48	25° 30	8° 54	7° 54	16° 15	24° 40	S 5
M 6	4 55 46	13° 4'41	1♂ 20	4° 0	27° 19	5° 42	13° 15	24° 2	24° 1	27° 50	25° 30	8° 45	7° 51	16° 22	24° 40	M 6
T 7	4 59 42	14° 5'37	13° 15	4° 57	28° 34	5° 43	13° 26	24° 3	24° 4	27° 52	25° 30	8° 38	7° 48	16° 29	24° 40	T 7
W 8	5 3 39	15° 6'35	25° 4	5° 48	29° 50	5° 44	13° 36	24° 4	24° 8	27° 55	25° 30	8° 33	7° 44	16° 35	24° 40	W 8
T 9	5 7 36	16° 7'34	6♂ 54	6° 33	1♂ 5	5° 43	13° 47	24° 5	24° 11	27° 57	25° 30	8° 31	7° 41	16° 42	24° 40	T 9
F 10	5 11 32	17° 8'34	18° 58	7° 12	2° 20	5° 42	13° 58	24° 6	24° 15	27° 59	25° 30	8° 30	7° 38	16° 49	24° 40	F 10
S 11	5 15 29	18° 9'35	0♂ 53	7° 43	3° 35	5° 39	14° 9	24° 8	24° 19	28° 1	25° 30	8° 31	7° 35	16° 55	24° 40	S 11
S 12	5 19 25	19° 10'37	13° 14	8° 6	4° 50	5° 36	14° 20	24° 9	24° 22	28° 3	25° 30	8° 31	7° 32	17° 2	24° 41	S 12
M13	5 23 22	20° 11'40	25° 56	8° 20	6° 5	5° 33	14° 31	24° 11	24° 26	28° 6	25° 30	8° 29	7° 29	17° 9	24° 41	M13
T 14	5 27 18	21° 12'44	9♂ 2	8° 23	7° 21	5° 28	14° 42	24° 12	24° 29	28° 8	25° 30	8° 26	7° 25	17° 16	24° 41	T 14
W15	5 31 15	22° 13'49	22° 36	8° 16	8° 36	5° 22	14° 53	24° 14	24° 33	28° 10	25° 30	8° 19	7° 22	17° 22	24° 42	W15
T 16	5 35 11	23° 14'55	6♂ 36	7° 57	9° 51	5° 16	15° 5	24° 16	24° 37	28° 12	25° 30	8° 10	7° 19	17° 29	24° 42	T 16
F 17	5 39 8	24° 16'02	20° 59	7° 27	11° 6	5° 9	15° 16	24° 18	24° 40	28° 15	25° 30	7° 59	7° 16	17° 36	24° 43	F 17
S 18	5 43 5	25° 17'10	5♂ 39	6° 45	12° 21	5° 1	15° 28	24° 20	24° 44	28° 17	25° 31	7° 47	7° 13	17° 42	24° 43	S 18
S 19	5 47 1	26° 18'18	20° 29	5° 52	13° 36	4° 52	15° 39	24° 22	24° 48	28° 19	25° 31	7° 36	7° 9	17° 49	24° 44	S 19
M20	5 50 58	27° 19'26	5♂ 19	4° 49	14° 52	4° 42	15° 51	24° 24	24° 51	28° 22	25° 31	7° 26	7° 6	17° 56	24° 45	M20
T 21	5 54 54	28° 20'34	20° 2	3° 38	16° 7	4° 31	16° 3	24° 27	24° 55	28° 24	25° 31	7° 19	7° 3	18° 2	24° 46	T 21
W22	5 58 51	29° 21'43	4♂ 31	2° 21	17° 22	4° 20	16° 15	24° 29	24° 59	28° 26	25° 31	7° 15	7° 0	18° 9	24° 46	W22
T 23	6 2 47	0♂ 22'51	18° 43	0° 59	18° 37	4° 8	16° 27	24° 32	25° 2	28° 28	25° 32	7° 13	6° 57	18° 16	24° 47	T 23
F 24	6 6 44	1° 24'00	2♂ 37	29♂ 37	19° 52	3° 55	16° 39	24° 35	25° 6	28° 31	25° 32	7° 13	6° 54	18° 22	24° 48	F 24
S 25	6 10 41	2° 25'09	16° 13	28° 16	21° 7	3° 41	16° 51	24° 37	25° 9	28° 33	25° 32	7° 12	6° 50	18° 29	24° 49	S 25
S 26	6 14 37	3° 26'17	29° 34	26° 59	22° 22	3° 26	17° 3	24° 40	25° 13	28° 35	25° 33	7° 11	6° 47	18° 36	24° 50	S 26
M27	6 18 34	4° 27'26	12♂ 41	25° 49	23° 37	3° 11	17° 16	24° 43	25° 17	28° 37	25° 33	7° 7	6° 44	18° 43	24° 51	M27
T 28	6 22 30	5° 28'35	25° 36	24° 48	24° 52	2° 55	17° 28	24° 46	25° 20	28° 40	25° 34	7° 1	6° 41	18° 49	24° 53	T 28
W29	6 26 27	6° 29'44	8♂ 20	23° 55	26° 7	2° 38	17° 41	24° 50	25° 24	28° 42	25° 34	6° 51	6° 38	18° 56	24° 54	W29
T 30	6 30 23	7° 30'52	20° 54	23° 13	27° 22	2° 21	17° 53	24° 53	25° 27	28° 44	25° 34	6° 39	6° 35	19° 3	24° 55	T 30
F 31	6 34 20	8♂ 32'01	3♂ 18	22♂ 41	28♂ 37	2♂ 3	18♂ 6	24♂ 56	25♂ 31	28♂ 46	25♂ 35	6♂ 24	6♂ 31	19♂ 9	24♂ 57	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	21s40	23n44	3n51	25s51	2s23	23s46	0s36	21n25	2n34	17s55	0s51	4s35	2s23	23s28	0s9	22s18
T 2	21 50	26 42	4 29	25 49	2 21	23 53	0 39	21 26	2 36	17 52	0 51	4 34	2 23	23 28	0 9	22 18
F 3	21 59	28 14	4 53	25 46	2 18	23 59	0 41	21 28	2 39	17 49	0 51	4 34	2 23	23 28	0 9	22 18
S 4	22 7	28 19	5 3	25 41	2 14	24 5	0 43	21 29	2 41	17 46	0 51	4 34	2 22	23 28	0 9	22 18
S 5	22 16	27 0	4 58	25 35	2 9	24 10	0 45	21 31	2 44	17 43	0 51	4 33	2 22	23 28	0 9	22 18
M 6	22 24	24 26	4 40	25 28	2 4	24 14	0 48	21 34	2 47	17 40	0 51	4 33	2 22	23 29	0 9	22 18
T 7	22 31	20 51	4 10	25 19	1 57	24 17	0 50	21 36	2 50	17 37	0 51	4 32	2 22	23 29	0 9	22 18
W 8	22 38	16 28	3 29	25 10	1 49	24 20	0 52	21 38	2 52	17 34	0 51	4 31	2 22	23 29	0 9	22 18
T 9	22 44	11 28	2 40	24 59	1 40	24 22	0 54	21 41	2 55	17 31	0 51	4 31	2 21	23 29	0 9	22 18
F 10	22 51	6 1	1 43	24 46	1 30	24 23	0 56	21 44	2 58	17 28	0 51	4 30	2 21	23 29	0 9	22 18
S 11	22 56	0 16	0 40	24 33	1 19	24 23	0 58	21 47	3 0	17 25	0 51	4 29	2 21	23 29	0 9	22 18
S 12	23 1	5s37	0s25	24 19	1 6	24 23	1 0	21 51	3 3	17 22	0 51	4 29	2 21	23 30	0 9	22 18
M13	23 6	11 27	1 31	24 4	0 52	24 22	1 2	21 54	3 6	17 18	0 51	4 28	2 20	23 30	0 9	22 18
T 14	23 10	16 58	2 34	23 49	0 37	24 20	1 4	21 58	3 9	17 15	0 51	4 27	2 20	23 30	0 9	22 18
W15	23 14	21 50	3 31	23 33	0 20	24 17	1 6	22 2	3 11	17 12	0 51	4 26	2 20	23 30	0 9	22 18
T 16	23 18	25 39	4 17	23 16	0 3	24 14	1 8	22 7	3 14	17 8	0 51	4 25	2 20	23 30	0 9	22 18
F 17	23 20	27 56	4 48	22 59	0n16	24 9	1 10	22 11	3 17	17 5	0 51	4 24	2 20	23 30	0 9	22 19
S 18	23 23	28 21	5 0	22 42	0 36	24 4	1 11	22 16	3 20	17 1	0 51	4 23	2 19	23 30	0 9	22 19
S 19	23 25	26 44	4 53	22 25	0 56	23 59	1 13	22 20	3 22	16 58	0 50	4 22	2 19	23 31	0 9	22 19
M20	23 26	23 16	4 26	22 7	1 16	23 52	1 15	22 25	3 25	16 54	0 50	4 21	2 19	23 31	0 9	22 19
T 21	23 27	18 19	3 42	21 50	1 35	23 45	1 16	22 31	3 28	16 51	0 50	4 20	2 19	23 31	0 9	22 19
W22	23 28	12 24	2 43	21 33	1 54	23 37	1 18	22 36	3 30	16 47	0 50	4 19	2 19	23 31	0 9	22 19
T 23	23 28	5 57	1 36	21 17	2 11	23 29	1 19	22 41	3 33	16 43	0 50	4 17	2 18	23 31	0 9	22 19
F 24	23 27	0n40	0 24	21 2	2 26	23 20	1 21	22 47	3 36	16 40	0 50	4 16	2 18	23 31	0 9	22 19
S 25	23 27	7 7	0n47	20 48	2 40	23 10	1 22	22 53	3 38	16 36	0 50	4 15	2 18	23 32	0 9	22 19
S 26	23 25	13 8	1 55	20 35	2 51	22 59	1 24	22 59	3 41	16 32	0 50	4 14	2 18	23 32	0 9	22 19
M27	23 23	18 27	2 55	20 25	2 59	22 47	1 25	23 5	3 43	16 29	0 50	4 12	2 17	23 32	0 9	22 19
T 28	23 21	22 50	3 46	20 17	3 5	22 35	1 26	23 11	3 46	16 25	0 50	4 11	2 17	23 32	0 9	22 19
W29	23 18	26 3	4 24	20 11	3 9	22 23	1 27	23 17	3 48	16 21	0 50	4 9	2 17	23 32	0 9	22 19
T 30	23 15	27 57	4 48	20 8	3 10	22 9	1 28	23 24	3 50	16 17	0 50	4 8	2 17	23 32	0 9	22 19
F 31	23s11	28n24	4n59	20s7	3n9	21s55	1s30	23n30	3n52	16s13	0s50	4s6	2s17	23s32	0s9	22s19

Julian Day Number = 2385769.5, Delta T = 16.61 sec  
 Ecliptic obliquity = 23°27'54, Nutation = - 0°00'04, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 22°13'33, Lahiri = 21°20'33