



# Astrodienst Ephemeris Tables for the year 1766

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 1766  
geocentric

JANUARY 1766

00:00 UT

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

| Day  | ☉     | ☽     | ♀    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂    | ♂    | ♂     |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  | lat   |
| W 1  | 23s 2 | 10n23 | 0s18 | 20s37 | 0s17 | 13s40 | 1s21 | 16s 3 | 0n46 | 15n13 | 0n55 | 18n 6 | 2s 2 | 7n45 | 0s35 | 11n 8 |
| T 2  | 22 57 | 4 50  | 1 23 | 20 16 | 0 1  | 13 13 | 1 17 | 16 15 | 0 46 | 15 15 | 0 55 | 18 6  | 2 1  | 7 46 | 0 35 | 11 8  |
| F 3  | 22 52 | 0s59  | 2 25 | 19 56 | 0n16 | 12 47 | 1 12 | 16 26 | 0 45 | 15 16 | 0 56 | 18 5  | 2 1  | 7 46 | 0 35 | 11 9  |
| S 4  | 22 46 | 6 55  | 3 22 | 19 38 | 0 34 | 12 20 | 1 8  | 16 37 | 0 45 | 15 18 | 0 56 | 18 5  | 2 1  | 7 46 | 0 35 | 11 9  |
| S 5  | 22 39 | 12 43 | 4 10 | 19 22 | 0 53 | 11 53 | 1 3  | 16 48 | 0 45 | 15 20 | 0 56 | 18 5  | 2 1  | 7 46 | 0 35 | 11 10 |
| M 6  | 22 32 | 18 8  | 4 46 | 19 7  | 1 11 | 11 25 | 0 59 | 16 59 | 0 44 | 15 22 | 0 56 | 18 4  | 2 0  | 7 46 | 0 35 | 11 10 |
| T 7  | 22 25 | 22 46 | 5 6  | 18 55 | 1 31 | 10 58 | 0 54 | 17 9  | 0 44 | 15 24 | 0 56 | 18 4  | 2 0  | 7 46 | 0 35 | 11 10 |
| W 8  | 22 17 | 26 10 | 5 8  | 18 45 | 1 49 | 10 30 | 0 49 | 17 20 | 0 43 | 15 26 | 0 57 | 18 4  | 2 0  | 7 46 | 0 35 | 11 11 |
| T 9  | 22 9  | 27 53 | 4 50 | 18 37 | 2 8  | 10 2  | 0 44 | 17 30 | 0 43 | 15 28 | 0 57 | 18 3  | 2 0  | 7 47 | 0 35 | 11 11 |
| F 10 | 22 0  | 27 33 | 4 11 | 18 32 | 2 25 | 9 34  | 0 38 | 17 41 | 0 42 | 15 30 | 0 57 | 18 3  | 1 59 | 7 47 | 0 35 | 11 12 |
| S 11 | 21 51 | 25 8  | 3 13 | 18 29 | 2 41 | 9 6   | 0 33 | 17 51 | 0 41 | 15 32 | 0 57 | 18 3  | 1 59 | 7 47 | 0 35 | 11 12 |
| S 12 | 21 41 | 20 55 | 2 2  | 18 28 | 2 55 | 8 38  | 0 27 | 18 1  | 0 41 | 15 34 | 0 58 | 18 3  | 1 59 | 7 47 | 0 35 | 11 12 |
| M13  | 21 31 | 15 24 | 0 44 | 18 30 | 3 7  | 8 9   | 0 22 | 18 11 | 0 40 | 15 36 | 0 58 | 18 3  | 1 59 | 7 48 | 0 35 | 11 13 |
| T 14 | 21 21 | 9 7   | 0n36 | 18 33 | 3 16 | 7 41  | 0 16 | 18 21 | 0 40 | 15 39 | 0 58 | 18 2  | 1 58 | 7 48 | 0 35 | 11 13 |
| W15  | 21 10 | 2 34  | 1 51 | 18 37 | 3 23 | 7 12  | 0 10 | 18 31 | 0 39 | 15 41 | 0 58 | 18 2  | 1 58 | 7 48 | 0 35 | 11 14 |
| T 16 | 20 59 | 3n53  | 2 57 | 18 43 | 3 28 | 6 44  | 0 4  | 18 40 | 0 39 | 15 43 | 0 58 | 18 2  | 1 58 | 7 49 | 0 35 | 11 14 |
| F 17 | 20 47 | 9 57  | 3 52 | 18 50 | 3 30 | 6 15  | 0n 3 | 18 50 | 0 38 | 15 45 | 0 58 | 18 2  | 1 58 | 7 49 | 0 35 | 11 15 |
| S 18 | 20 35 | 15 25 | 4 33 | 18 58 | 3 29 | 5 46  | 0 9  | 18 59 | 0 38 | 15 48 | 0 59 | 18 2  | 1 57 | 7 49 | 0 35 | 11 15 |
| S 19 | 20 23 | 20 6  | 5 0  | 19 6  | 3 27 | 5 17  | 0 16 | 19 8  | 0 37 | 15 50 | 0 59 | 18 2  | 1 57 | 7 50 | 0 35 | 11 16 |
| M20  | 20 10 | 23 49 | 5 12 | 19 15 | 3 23 | 4 49  | 0 22 | 19 17 | 0 36 | 15 53 | 0 59 | 18 2  | 1 57 | 7 50 | 0 35 | 11 16 |
| T 21 | 19 57 | 26 26 | 5 10 | 19 24 | 3 17 | 4 20  | 0 29 | 19 26 | 0 36 | 15 55 | 0 59 | 18 2  | 1 57 | 7 51 | 0 35 | 11 17 |
| W22  | 19 43 | 27 50 | 4 55 | 19 34 | 3 10 | 3 51  | 0 36 | 19 35 | 0 35 | 15 57 | 0 59 | 18 2  | 1 56 | 7 51 | 0 34 | 11 17 |
| T 23 | 19 29 | 27 56 | 4 27 | 19 44 | 3 2  | 3 23  | 0 43 | 19 43 | 0 35 | 16 0  | 1 0  | 18 2  | 1 56 | 7 52 | 0 34 | 11 18 |
| F 24 | 19 15 | 26 45 | 3 48 | 19 53 | 2 52 | 2 54  | 0 50 | 19 52 | 0 34 | 16 2  | 1 0  | 18 3  | 1 56 | 7 52 | 0 34 | 11 18 |
| S 25 | 19 1  | 24 21 | 2 59 | 20 3  | 2 43 | 2 25  | 0 58 | 20 0  | 0 33 | 16 5  | 1 0  | 18 3  | 1 55 | 7 53 | 0 34 | 11 19 |
| S 26 | 18 46 | 20 55 | 2 2  | 20 12 | 2 32 | 1 57  | 1 5  | 20 8  | 0 33 | 16 7  | 1 0  | 18 3  | 1 55 | 7 53 | 0 34 | 11 19 |
| M27  | 18 30 | 16 36 | 0 59 | 20 21 | 2 22 | 1 29  | 1 13 | 20 16 | 0 32 | 16 10 | 1 0  | 18 3  | 1 55 | 7 54 | 0 34 | 11 20 |
| T 28 | 18 15 | 11 35 | 0s 7 | 20 30 | 2 11 | 1 0   | 1 21 | 20 24 | 0 31 | 16 12 | 1 0  | 18 3  | 1 55 | 7 54 | 0 34 | 11 21 |
| W29  | 17 59 | 6 6   | 1 14 | 20 37 | 2 0  | 0 32  | 1 29 | 20 32 | 0 31 | 16 15 | 1 0  | 18 4  | 1 54 | 7 55 | 0 34 | 11 21 |
| T 30 | 17 43 | 0 19  | 2 18 | 20 45 | 1 49 | 0 4   | 1 37 | 20 40 | 0 30 | 16 18 | 1 1  | 18 4  | 1 54 | 7 56 | 0 34 | 11 22 |
| F 31 | 17s26 | 5s35  | 3s17 | 20s51 | 1n38 | 0n23  | 1n45 | 20s47 | 0n29 | 16n20 | 1n 1 | 18n 4 | 1s54 | 7n56 | 0s34 | 11n22 |

Julian Day Number = 2366078.5, Delta T = 20.32 sec  
Ecliptic obliquity = 23°28'19, Nutation = 0°00'09, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 21°28'24, Lahiri = 20°35'24Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1766

## geocentric

FEBRUARY 1766

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                    | ♀                   | ♂                    | ♂                   | ♂                   | ♂                   | ♂                    | ♂                  | ♂                 | ♂                    | ♂                   | ♂                   | ♂                 | Day  |
|------|----------|------------------------|----------------------|---------------------|----------------------|---------------------|---------------------|---------------------|----------------------|--------------------|-------------------|----------------------|---------------------|---------------------|-------------------|------|
| S 1  | 8 44 46  | 12 <sup>28</sup> 14'01 | 19 <sup>28</sup> 16  | 17 <sup>28</sup> 3  | 27 <sup>27</sup> 48  | 6 <sup>27</sup> 14  | 18 <sup>18</sup> 9  | 28 <sup>28</sup> 48 | 21 <sup>21</sup> 43  | 2 <sup>2</sup> 9   | 8 <sup>8</sup> 45 | 28 <sup>28</sup> 11  | 29 <sup>29</sup> 11 | 15 <sup>15</sup> 36 | 6 <sup>6</sup> 27 | S 1  |
| S 2  | 8 48 42  | 13 <sup>28</sup> 14'50 | 2 <sup>2</sup> 23    | 17 <sup>27</sup> 50 | 28 <sup>28</sup> 37  | 6 <sup>27</sup> 52  | 18 <sup>18</sup> 1  | 28 <sup>28</sup> 48 | 21 <sup>21</sup> 45  | 2 <sup>2</sup> 7   | 8 <sup>8</sup> 47 | 28 <sup>28</sup> 12  | 29 <sup>29</sup> 8  | 15 <sup>15</sup> 43 | 6 <sup>6</sup> 30 | S 2  |
| M 3  | 8 52 39  | 14 <sup>28</sup> 15'39 | 15 <sup>27</sup> 51  | 18 <sup>28</sup> 40 | 29 <sup>29</sup> 25  | 7 <sup>28</sup> 30  | 17 <sup>17</sup> 53 | 28 <sup>28</sup> 49 | 21 <sup>21</sup> 46  | 2 <sup>2</sup> 6   | 8 <sup>8</sup> 48 | 28 <sup>28</sup> R12 | 29 <sup>29</sup> 5  | 15 <sup>15</sup> 49 | 6 <sup>6</sup> 34 | M 3  |
| T 4  | 8 56 35  | 15 <sup>28</sup> 16'26 | 29 <sup>29</sup> 42  | 19 <sup>29</sup> 34 | 0 <sup>0</sup> Y13   | 8 <sup>28</sup> 8   | 17 <sup>17</sup> 45 | 28 <sup>28</sup> 49 | 21 <sup>21</sup> 48  | 2 <sup>2</sup> 4   | 8 <sup>8</sup> 50 | 28 <sup>28</sup> 11  | 29 <sup>29</sup> 2  | 15 <sup>15</sup> 56 | 6 <sup>6</sup> 38 | T 4  |
| W 5  | 9 0 32   | 16 <sup>28</sup> 17'13 | 13 <sup>27</sup> 55  | 20 <sup>29</sup> 32 | 1 <sup>29</sup> 0    | 8 <sup>28</sup> 46  | 17 <sup>17</sup> 37 | 28 <sup>28</sup> 50 | 21 <sup>21</sup> 50  | 2 <sup>2</sup> 2   | 8 <sup>8</sup> 52 | 28 <sup>28</sup> 10  | 28 <sup>28</sup> 59 | 16 <sup>16</sup> 3  | 6 <sup>6</sup> 41 | W 5  |
| T 6  | 9 4 28   | 17 <sup>28</sup> 17'59 | 28 <sup>28</sup> 28  | 21 <sup>29</sup> 32 | 1 <sup>29</sup> 46   | 9 <sup>29</sup> 24  | 17 <sup>17</sup> 29 | 28 <sup>28</sup> 51 | 21 <sup>21</sup> 52  | 2 <sup>2</sup> 1   | 8 <sup>8</sup> 54 | 28 <sup>28</sup> 9   | 28 <sup>28</sup> 56 | 16 <sup>16</sup> 9  | 6 <sup>6</sup> 45 | T 6  |
| F 7  | 9 8 25   | 18 <sup>28</sup> 18'43 | 13 <sup>27</sup> 38  | 22 <sup>29</sup> 35 | 2 <sup>29</sup> 30   | 10 <sup>29</sup> 2  | 17 <sup>17</sup> 21 | 28 <sup>28</sup> 52 | 21 <sup>21</sup> 54  | 1 <sup>29</sup> 59 | 8 <sup>8</sup> 55 | 28 <sup>28</sup> 8   | 28 <sup>28</sup> 52 | 16 <sup>16</sup> 16 | 6 <sup>6</sup> 49 | F 7  |
| S 8  | 9 12 22  | 19 <sup>28</sup> 19'27 | 28 <sup>28</sup> 18  | 23 <sup>29</sup> 40 | 3 <sup>29</sup> 14   | 10 <sup>29</sup> 40 | 17 <sup>17</sup> 13 | 28 <sup>28</sup> 53 | 21 <sup>21</sup> 56  | 1 <sup>29</sup> 58 | 8 <sup>8</sup> 57 | 28 <sup>28</sup> 7   | 28 <sup>28</sup> 49 | 16 <sup>16</sup> 23 | 6 <sup>6</sup> 53 | S 8  |
| S 9  | 9 16 18  | 20 <sup>28</sup> 20'09 | 13 <sup>27</sup> 20  | 24 <sup>29</sup> 47 | 3 <sup>29</sup> 57   | 11 <sup>29</sup> 18 | 17 <sup>17</sup> 5  | 28 <sup>28</sup> 54 | 21 <sup>21</sup> 58  | 1 <sup>29</sup> 56 | 8 <sup>8</sup> 59 | 28 <sup>28</sup> 6   | 28 <sup>28</sup> 46 | 16 <sup>16</sup> 29 | 6 <sup>6</sup> 56 | S 9  |
| M10  | 9 20 15  | 21 <sup>28</sup> 20'50 | 28 <sup>28</sup> 15  | 25 <sup>29</sup> 57 | 4 <sup>29</sup> 38   | 11 <sup>29</sup> 56 | 16 <sup>16</sup> 57 | 28 <sup>28</sup> 55 | 22 <sup>22</sup> 0   | 1 <sup>29</sup> 54 | 9 <sup>9</sup> 1  | 28 <sup>28</sup> D 6 | 28 <sup>28</sup> 43 | 16 <sup>16</sup> 36 | 7 <sup>7</sup> 0  | M10  |
| T 11 | 9 24 11  | 22 <sup>28</sup> 21'29 | 12 <sup>27</sup> 54  | 27 <sup>29</sup> 8  | 5 <sup>29</sup> 19   | 12 <sup>29</sup> 34 | 16 <sup>16</sup> 49 | 28 <sup>28</sup> 56 | 22 <sup>22</sup> 2   | 1 <sup>29</sup> 53 | 9 <sup>9</sup> 2  | 28 <sup>28</sup> 6   | 28 <sup>28</sup> 40 | 16 <sup>16</sup> 43 | 7 <sup>7</sup> 4  | T 11 |
| W12  | 9 28 8   | 23 <sup>28</sup> 22'06 | 27 <sup>29</sup> 12  | 28 <sup>29</sup> 21 | 5 <sup>29</sup> 58   | 13 <sup>29</sup> 11 | 16 <sup>16</sup> 41 | 28 <sup>28</sup> 58 | 22 <sup>22</sup> 4   | 1 <sup>29</sup> 51 | 9 <sup>9</sup> 4  | 28 <sup>28</sup> 7   | 28 <sup>28</sup> 36 | 16 <sup>16</sup> 49 | 7 <sup>7</sup> 8  | W12  |
| T 13 | 9 32 4   | 24 <sup>28</sup> 22'42 | 11 <sup>27</sup> Y 5 | 29 <sup>29</sup> 36 | 6 <sup>29</sup> 36   | 13 <sup>29</sup> 49 | 16 <sup>16</sup> 34 | 28 <sup>28</sup> 59 | 22 <sup>22</sup> 6   | 1 <sup>29</sup> 49 | 9 <sup>9</sup> 6  | 28 <sup>28</sup> 7   | 28 <sup>28</sup> 33 | 16 <sup>16</sup> 56 | 7 <sup>7</sup> 12 | T 13 |
| F 14 | 9 36 1   | 25 <sup>28</sup> 23'16 | 24 <sup>27</sup> 32  | 0 <sup>29</sup> 53  | 7 <sup>29</sup> 12   | 14 <sup>29</sup> 27 | 16 <sup>16</sup> 26 | 29 <sup>29</sup> 1  | 22 <sup>22</sup> 8   | 1 <sup>29</sup> 48 | 9 <sup>9</sup> 7  | 28 <sup>28</sup> 7   | 28 <sup>28</sup> 30 | 17 <sup>7</sup> 3   | 7 <sup>7</sup> 16 | F 14 |
| S 15 | 9 39 57  | 26 <sup>28</sup> 23'48 | 7 <sup>27</sup> 33   | 2 <sup>29</sup> 11  | 7 <sup>29</sup> 47   | 15 <sup>29</sup> 5  | 16 <sup>16</sup> 18 | 29 <sup>29</sup> 3  | 22 <sup>22</sup> 11  | 1 <sup>29</sup> 46 | 9 <sup>9</sup> 9  | 28 <sup>28</sup> 8   | 28 <sup>28</sup> 27 | 17 <sup>7</sup> 10  | 7 <sup>7</sup> 19 | S 15 |
| S 16 | 9 43 54  | 27 <sup>28</sup> 24'19 | 20 <sup>27</sup> 11  | 3 <sup>29</sup> 30  | 8 <sup>29</sup> 21   | 15 <sup>29</sup> 42 | 16 <sup>16</sup> 10 | 29 <sup>29</sup> 5  | 22 <sup>22</sup> 13  | 1 <sup>29</sup> 44 | 9 <sup>9</sup> 10 | 28 <sup>28</sup> 8   | 28 <sup>28</sup> 24 | 17 <sup>7</sup> 16  | 7 <sup>7</sup> 23 | S 16 |
| M17  | 9 47 50  | 28 <sup>28</sup> 24'47 | 2 <sup>27</sup> 31   | 4 <sup>29</sup> 51  | 8 <sup>29</sup> 54   | 16 <sup>29</sup> 20 | 16 <sup>16</sup> 3  | 29 <sup>29</sup> 7  | 22 <sup>22</sup> 15  | 1 <sup>29</sup> 43 | 9 <sup>9</sup> 12 | 28 <sup>28</sup> 8   | 28 <sup>28</sup> 21 | 17 <sup>7</sup> 23  | 7 <sup>7</sup> 27 | M17  |
| T 18 | 9 51 47  | 29 <sup>28</sup> 25'14 | 14 <sup>27</sup> 37  | 6 <sup>29</sup> 13  | 9 <sup>29</sup> 24   | 16 <sup>29</sup> 58 | 15 <sup>15</sup> 55 | 29 <sup>29</sup> 9  | 22 <sup>22</sup> 17  | 1 <sup>29</sup> 41 | 9 <sup>9</sup> 13 | 28 <sup>28</sup> 8   | 28 <sup>28</sup> 17 | 17 <sup>7</sup> 30  | 7 <sup>7</sup> 31 | T 18 |
| W19  | 9 55 44  | 0 <sup>28</sup> 25'39  | 26 <sup>27</sup> 32  | 7 <sup>29</sup> 36  | 9 <sup>29</sup> 53   | 17 <sup>29</sup> 36 | 15 <sup>15</sup> 48 | 29 <sup>29</sup> 11 | 22 <sup>22</sup> 20  | 1 <sup>29</sup> 39 | 9 <sup>9</sup> 15 | 28 <sup>28</sup> 8   | 28 <sup>28</sup> 14 | 17 <sup>7</sup> 36  | 7 <sup>7</sup> 35 | W19  |
| T 20 | 9 59 40  | 1 <sup>28</sup> 26'02  | 8 <sup>27</sup> 22   | 9 <sup>29</sup> 1   | 10 <sup>29</sup> 21  | 18 <sup>29</sup> 13 | 15 <sup>15</sup> 40 | 29 <sup>29</sup> 13 | 22 <sup>22</sup> 22  | 1 <sup>29</sup> 38 | 9 <sup>9</sup> 16 | 28 <sup>28</sup> 8   | 28 <sup>28</sup> 11 | 17 <sup>7</sup> 43  | 7 <sup>7</sup> 39 | T 20 |
| F 21 | 10 3 37  | 2 <sup>28</sup> 26'23  | 20 <sup>27</sup> 11  | 10 <sup>29</sup> 27 | 10 <sup>29</sup> 47  | 18 <sup>29</sup> 51 | 15 <sup>15</sup> 33 | 29 <sup>29</sup> 16 | 22 <sup>22</sup> 25  | 1 <sup>29</sup> 36 | 9 <sup>9</sup> 18 | 28 <sup>28</sup> 9   | 28 <sup>28</sup> 8  | 17 <sup>7</sup> 50  | 7 <sup>7</sup> 43 | F 21 |
| S 22 | 10 7 33  | 3 <sup>28</sup> 26'43  | 2 <sup>27</sup> 3    | 11 <sup>29</sup> 54 | 11 <sup>29</sup> 11  | 19 <sup>29</sup> 28 | 15 <sup>15</sup> 26 | 29 <sup>29</sup> 18 | 22 <sup>22</sup> 27  | 1 <sup>29</sup> 34 | 9 <sup>9</sup> 19 | 28 <sup>28</sup> 9   | 28 <sup>28</sup> 5  | 17 <sup>7</sup> 56  | 7 <sup>7</sup> 47 | S 22 |
| S 23 | 10 11 30 | 4 <sup>28</sup> 27'00  | 14 <sup>27</sup> 0   | 13 <sup>29</sup> 22 | 11 <sup>29</sup> 33  | 20 <sup>29</sup> 6  | 15 <sup>15</sup> 18 | 29 <sup>29</sup> 21 | 22 <sup>22</sup> 30  | 1 <sup>29</sup> 33 | 9 <sup>9</sup> 20 | 28 <sup>28</sup> 10  | 28 <sup>28</sup> 2  | 18 <sup>18</sup> 3  | 7 <sup>7</sup> 51 | S 23 |
| M24  | 10 15 26 | 5 <sup>28</sup> 27'15  | 26 <sup>27</sup> 5   | 14 <sup>29</sup> 51 | 11 <sup>29</sup> 53  | 20 <sup>29</sup> 44 | 15 <sup>15</sup> 11 | 29 <sup>29</sup> 24 | 22 <sup>22</sup> 32  | 1 <sup>29</sup> 31 | 9 <sup>9</sup> 22 | 28 <sup>28</sup> R10 | 27 <sup>27</sup> 58 | 18 <sup>18</sup> 10 | 7 <sup>7</sup> 55 | M24  |
| T 25 | 10 19 23 | 6 <sup>28</sup> 27'29  | 8 <sup>27</sup> 20   | 16 <sup>29</sup> 22 | 12 <sup>29</sup> 11  | 21 <sup>29</sup> 21 | 15 <sup>15</sup> 4  | 29 <sup>29</sup> 27 | 22 <sup>22</sup> 35  | 1 <sup>29</sup> 29 | 9 <sup>9</sup> 23 | 28 <sup>28</sup> 10  | 27 <sup>27</sup> 55 | 18 <sup>18</sup> 16 | 7 <sup>7</sup> 58 | T 25 |
| W26  | 10 23 19 | 7 <sup>28</sup> 27'41  | 20 <sup>27</sup> 46  | 17 <sup>29</sup> 53 | 12 <sup>29</sup> 27  | 21 <sup>29</sup> 59 | 14 <sup>14</sup> 57 | 29 <sup>29</sup> 30 | 22 <sup>22</sup> 37  | 1 <sup>29</sup> 28 | 9 <sup>9</sup> 24 | 28 <sup>28</sup> 9   | 27 <sup>27</sup> 52 | 18 <sup>18</sup> 23 | 8 <sup>8</sup> 2  | W26  |
| T 27 | 10 27 16 | 8 <sup>28</sup> 27'51  | 3 <sup>27</sup> 25   | 19 <sup>29</sup> 26 | 12 <sup>29</sup> 41  | 22 <sup>29</sup> 36 | 14 <sup>14</sup> 51 | 29 <sup>29</sup> 33 | 22 <sup>22</sup> 40  | 1 <sup>29</sup> 26 | 9 <sup>9</sup> 26 | 28 <sup>28</sup> 8   | 27 <sup>27</sup> 49 | 18 <sup>18</sup> 30 | 8 <sup>8</sup> 6  | T 27 |
| F 28 | 10 31 13 | 9 <sup>28</sup> 27'59  | 16 <sup>27</sup> 17  | 20 <sup>29</sup> 59 | 12 <sup>29</sup> Y53 | 23 <sup>29</sup> 13 | 14 <sup>14</sup> 44 | 29 <sup>29</sup> 36 | 22 <sup>22</sup> Y43 | 1 <sup>29</sup> 24 | 9 <sup>9</sup> 27 | 28 <sup>28</sup> 7   | 27 <sup>27</sup> 46 | 18 <sup>18</sup> 36 | 8 <sup>8</sup> 10 | 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 |
| S 1  | 17s 9 | 11s21 | 4s 7 | 20s57 | 1n27 | 0n51  | 1n53 | 20s54 | 0n29 | 16n23 | 1n 1 | 18n 4 | 1s54 | 7n57 | 0s34 | 11n23 | 0n42 | 20s23 | 2n48 | 12s 7 | 11s46 | 26n 5 | 4s26 | 5n 5 |     |
| S 2  | 16 52 | 16 47 | 4 45 | 21 2  | 1 16 | 1 18  | 2 2  | 21 2  | 0 28 | 16 25 | 1 1  | 18 5  | 1 53 | 7 58 | 0 34 | 11 23 | 0 42 | 20 23 | 2 48 | 12 7  | 11 47 | 26 4  | 4 24 | 5 5  |     |
| M 3  | 16 34 | 21 32 | 5 9  | 21 6  | 1 5  | 1 46  | 2 10 | 21 9  | 0 27 | 16 28 | 1 1  | 18 5  | 1 53 | 7 58 | 0 34 | 11 24 | 0 42 | 20 23 | 2 48 | 12 7  | 11 48 | 26 2  | 4 23 | 5 5  |     |
| T 4  | 16 17 | 25 16 | 5 17 | 21 9  | 0 55 | 2 13  | 2 19 | 21 15 | 0 27 | 16 30 | 1 1  | 18 5  | 1 53 | 7 59 | 0 34 | 11 25 | 0 42 | 20 23 | 2 48 | 12 7  | 11 50 | 26 1  | 4 22 | 5 5  |     |
| W 5  | 15 59 | 27 33 | 5 5  | 21 11 | 0 44 | 2 39  | 2 28 | 21 22 | 0 26 | 16 33 | 1 1  | 18 6  | 1 52 | 8 0  | 0 34 | 11 25 | 0 42 | 20 23 | 2 48 | 12 7  | 11 51 | 25 59 | 4 21 | 5 5  |     |
| T 6  | 15 40 | 28 1  | 4 34 | 21 11 | 0 34 | 3 6   | 2 37 | 21 29 | 0 25 | 16 35 | 1 1  | 18 6  | 1 52 | 8 0  | 0 34 | 11 26 | 0 42 | 20 23 | 2 48 | 12 8  | 11 52 | 25 58 | 4 20 | 5 5  |     |
| F 7  | 15 22 | 26 31 | 3 44 | 21 11 | 0 24 | 3 32  | 2 46 | 21 35 | 0 24 | 16 38 | 1 2  | 18 7  | 1 52 | 8 1  | 0 34 | 11 26 | 0 42 | 20 23 | 2 48 | 12 8  | 11 53 | 25 56 | 4 18 | 5 5  |     |
| S 8  | 15 3  | 23 6  | 2 38 | 21 10 | 0 14 | 3 58  | 2 55 | 21 41 | 0 24 | 16 40 | 1 2  | 18 7  | 1 52 | 8 2  | 0 34 | 11 27 | 0 42 | 20 23 | 2 48 | 12 9  | 11 54 | 25 55 | 4 17 | 5 4  |     |
| S 9  | 14 44 | 18 8  | 1 21 | 21 7  | 0 5  | 4 23  | 3 4  | 21 47 | 0 23 | 16 43 | 1 2  | 18 8  | 1 51 | 8 3  | 0 34 | 11 27 | 0 42 | 20 23 | 2 48 | 12 9  | 11 55 | 25 54 | 4 16 | 5 4  |     |
| M10  | 14 24 | 12 5  | 0n 1 | 21 4  | 0s 5 | 4 48  | 3 14 | 21 53 | 0 22 | 16 45 | 1 2  | 18 8  | 1 51 | 8 3  | 0 34 | 11 28 | 0 42 | 20 23 | 2 48 | 12 9  | 11 56 | 25 52 | 4 15 | 5 4  |     |
| T 11 | 14 5  | 5 28  | 1 21 | 20 59 | 0 14 | 5 13  | 3 23 | 21 59 | 0 21 | 16 48 | 1 2  | 18 9  | 1 51 | 8 4  | 0 34 | 11 29 | 0 42 | 20 22 | 2 48 | 12 9  | 11 57 | 25 51 | 4 13 | 5 4  |     |
| W12  | 13 45 | 1n15  | 2 35 | 20 53 | 0 22 | 5 38  | 3 33 | 22 5  | 0 20 | 16 50 | 1 2  | 18 9  | 1 50 | 8 5  | 0 34 | 11 29 | 0 42 | 20 22 | 2 48 | 12 9  | 11 58 | 25 49 | 4 12 | 5 4  |     |
| T 13 | 13 25 | 7 43  | 3 37 | 20 46 | 0 31 | 6 2   | 3 43 | 22 10 | 0 20 | 16 53 | 1 2  | 18 10 | 1 50 | 8 6  | 0 34 | 11 30 | 0 42 | 20 22 | 2 48 | 12 9  | 12 0  | 25 48 | 4 11 | 5 4  |     |
| F 14 | 13 5  | 13 37 | 4 25 | 20 37 | 0 39 | 6 25  | 3 52 | 22 15 | 0 19 | 16 55 | 1 2  | 18 11 | 1 50 | 8 7  | 0 34 | 11 31 | 0 42 | 20 22 | 2 48 | 12 9  | 12 1  | 25 46 | 4 9  | 5 4  |     |
| S 15 | 12 44 | 18 44 | 4 57 | 20 28 | 0 47 | 6 48  | 4 2  | 22 20 | 0 18 | 16 58 | 1 2  | 18 11 | 1 50 | 8 7  | 0 34 | 11 31 | 0 42 | 20 22 | 2 48 | 12 8  | 12 2  | 25 44 | 4 8  | 5 3  |     |
| S 16 | 12 23 | 22 52 | 5 15 | 20 17 | 0 54 | 7 11  | 4 12 | 22 25 | 0 17 | 17 0  | 1 2  | 18 12 | 1 49 | 8 8  | 0 34 | 11 32 | 0 42 | 20 22 | 2 48 | 12 8  | 12 3  | 25 43 | 4 7  | 5 3  |     |
| M17  | 12 3  | 25 52 | 5 17 | 20 4  | 1 1  | 7 33  | 4 22 | 22 30 | 0 16 | 17 2  | 1 2  | 18 13 | 1 49 | 8 9  | 0 34 | 11 32 | 0 42 | 20 22 | 2 48 | 12 8  | 12 4  | 25 41 | 4 5  | 5 3  |     |
| T 18 | 11 41 | 27 37 | 5 5  | 19 51 | 1 8  | 7 54  | 4 32 | 22 35 | 0 15 | 17 5  | 1 2  | 18 13 | 1 49 | 8 10 | 0 34 | 11 33 | 0 42 | 20 22 | 2 47 | 12 8  | 12 5  | 25 40 | 4 4  | 5 3  |     |
| W19  | 11 20 | 28 5  | 4 40 | 19 36 | 1 15 | 8 15  | 4 43 | 22 39 | 0 14 | 17 7  | 1 2  | 18 14 | 1 49 | 8 11 | 0 34 | 11 34 | 0 42 | 20 22 | 2 47 | 12 8  | 12 6  | 25 38 | 4 3  | 5 3  |     |
| T 20 | 10 59 | 27 15 | 4 3  | 19 20 | 1 21 | 8 35  | 4 53 | 22 43 | 0 14 | 17 9  | 1 2  | 18 15 | 1 48 | 8 12 | 0 34 | 11 34 | 0 42 | 20 22 | 2 47 | 12 8  | 12 7  | 25 37 | 4 1  | 5 3  |     |
| F 21 | 10 37 | 25 11 | 3 16 | 19 2  | 1 27 | 8 55  | 5 3  | 22 48 | 0 13 | 17 12 | 1 3  | 18 16 | 1 48 | 8 13 | 0 34 | 11 35 | 0 42 | 20 22 | 2 47 | 12 8  | 12 8  | 25 35 | 4 0  | 5 3  |     |
| S 22 | 10 15 | 22 0  | 2 20 | 18 44 | 1 33 | 9 14  | 5 13 | 22 52 | 0 12 | 17 14 | 1 3  | 18 17 | 1 48 | 8 14 | 0 34 | 11 35 | 0 42 | 20 22 | 2 47 | 12 8  | 12 9  | 25 34 | 3 59 | 5 3  |     |
| S 23 | 9 54  | 17 53 | 1 18 | 18 24 | 1 38 | 9 32  | 5 24 | 22 55 | 0 11 | 17 16 | 1 3  | 18 17 | 1 47 | 8 15 | 0 33 | 11 36 | 0 42 | 20 22 | 2 47 | 12 8  | 12 11 | 25 32 | 3 57 | 5 3  |     |
| M24  | 9 31  | 13 1  | 0 12 | 18 2  | 1 43 | 9 49  | 5 34 | 22 59 | 0 10 | 17 18 | 1 3  | 18 18 | 1 47 | 8 16 | 0 33 | 11 37 | 0 42 | 20 22 | 2 47 | 12 8  | 12 12 | 25 30 | 3 56 | 5 3  |     |
| T 25 | 9 9   | 7 35  | 0s56 | 17 40 | 1 47 | 10 6  | 5 44 | 23 2  | 0 9  | 17 20 | 1 3  | 18 19 | 1 47 | 8 17 | 0 33 | 11 37 | 0 42 | 20 21 | 2 47 | 12 8  | 12 13 | 25 29 | 3 55 | 5 3  |     |
| W26  | 8 47  | 1 48  | 2 2  | 17 16 | 1 51 | 10 22 | 5 54 | 23 6  | 0 8  | 17 22 | 1 3  | 18 20 | 1 47 | 8 18 | 0 33 | 11 38 | 0 42 | 20 21 | 2 47 | 12 8  | 12 14 | 25 27 | 3 53 | 5 2  |     |
| T 27 | 8 24  | 4s10  | 3 3  | 16 50 | 1 55 | 10 36 | 6 5  | 23 9  | 0 7  | 17 24 | 1 3  | 18 21 | 1 46 | 8 19 | 0 33 | 11 38 | 0 42 | 20 21 | 2 47 | 12 8  | 12 15 | 25 26 | 3 52 | 5 2  |     |
| F 28 | 8s 2  | 10s 2 | 3s56 | 16s24 | 1s59 | 10n50 | 6n15 | 23s12 | 0n 6 | 17n26 | 1n 3 | 18n22 | 1s46 | 8n20 | 0s33 | 11n39 | 0n42 | 20s21 | 2n47 | 12s 9 | 12s16 | 25n24 | 3s50 | 5n 5 |     |

ASTRODIENST EPHEMERIS for the year 1766  
geocentric

MARCH 1766

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                   | ♂                   | ♀                   | ♂                   | ♂                   | ♂                   | ♂                   | ♂                  | ♂                  | ♂                    | ♂                   | ♂                   | ♂                  | Day  |
|------|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|----------------------|---------------------|---------------------|--------------------|------|
| S 1  | 10 35 9  | 10 <sup>h</sup> 28'06 | 29 <sup>h</sup> 22' | 22 <sup>h</sup> 34' | 13 <sup>h</sup> 03' | 23 <sup>h</sup> 51' | 14 <sup>h</sup> 37' | 29 <sup>h</sup> 39' | 22 <sup>h</sup> 46' | 1 <sup>h</sup> 23' | 9 <sup>h</sup> 28' | 28 <sup>h</sup> 05'  | 27 <sup>h</sup> 42' | 18 <sup>h</sup> 43' | 8 <sup>h</sup> 14' | S 1  |
| S 2  | 10 39 6  | 11 <sup>h</sup> 28'11 | 12 <sup>h</sup> 42' | 24 <sup>h</sup> 10' | 13 <sup>h</sup> 10' | 24 <sup>h</sup> 28' | 14 <sup>h</sup> 31' | 29 <sup>h</sup> 42' | 22 <sup>h</sup> 48' | 1 <sup>h</sup> 21' | 9 <sup>h</sup> 29' | 28 <sup>h</sup> 33'  | 27 <sup>h</sup> 39' | 18 <sup>h</sup> 50' | 8 <sup>h</sup> 18' | S 2  |
| M 3  | 10 43 2  | 12 <sup>h</sup> 28'14 | 26 <sup>h</sup> 16' | 25 <sup>h</sup> 47' | 13 <sup>h</sup> 15' | 25 <sup>h</sup> 6'  | 14 <sup>h</sup> 25' | 29 <sup>h</sup> 46' | 22 <sup>h</sup> 51' | 1 <sup>h</sup> 19' | 9 <sup>h</sup> 31' | 28 <sup>h</sup> 22'  | 27 <sup>h</sup> 36' | 18 <sup>h</sup> 56' | 8 <sup>h</sup> 22' | M 3  |
| T 4  | 10 46 59 | 13 <sup>h</sup> 28'16 | 10 <sup>h</sup> 4'  | 27 <sup>h</sup> 25' | 13 <sup>h</sup> 18' | 25 <sup>h</sup> 43' | 14 <sup>h</sup> 18' | 29 <sup>h</sup> 49' | 22 <sup>h</sup> 54' | 1 <sup>h</sup> 18' | 9 <sup>h</sup> 32' | 28 <sup>h</sup> 02'  | 27 <sup>h</sup> 33' | 19 <sup>h</sup> 3'  | 8 <sup>h</sup> 26' | T 4  |
| W 5  | 10 50 55 | 14 <sup>h</sup> 28'17 | 24 <sup>h</sup> 7'  | 29 <sup>h</sup> 4'  | 13 <sup>h</sup> 19' | 26 <sup>h</sup> 20' | 14 <sup>h</sup> 12' | 29 <sup>h</sup> 53' | 22 <sup>h</sup> 57' | 1 <sup>h</sup> 16' | 9 <sup>h</sup> 33' | 28 <sup>h</sup> 22'  | 27 <sup>h</sup> 30' | 19 <sup>h</sup> 10' | 8 <sup>h</sup> 30' | W 5  |
| T 6  | 10 54 52 | 15 <sup>h</sup> 28'16 | 8 <sup>h</sup> 22'  | 0 <sup>h</sup> 44'  | 13 <sup>h</sup> 16' | 26 <sup>h</sup> 57' | 14 <sup>h</sup> 6'  | 29 <sup>h</sup> 57' | 23 <sup>h</sup> 0'  | 1 <sup>h</sup> 14' | 9 <sup>h</sup> 34' | 28 <sup>h</sup> 33'  | 27 <sup>h</sup> 27' | 19 <sup>h</sup> 16' | 8 <sup>h</sup> 34' | T 6  |
| F 7  | 10 58 48 | 16 <sup>h</sup> 28'13 | 22 <sup>h</sup> 49' | 2 <sup>h</sup> 26'  | 13 <sup>h</sup> 12' | 27 <sup>h</sup> 35' | 14 <sup>h</sup> 1'  | 0 <sup>h</sup> 11'  | 23 <sup>h</sup> 3'  | 1 <sup>h</sup> 13' | 9 <sup>h</sup> 35' | 28 <sup>h</sup> 44'  | 27 <sup>h</sup> 23' | 19 <sup>h</sup> 23' | 8 <sup>h</sup> 38' | F 7  |
| S 8  | 11 2 45  | 17 <sup>h</sup> 28'09 | 7 <sup>h</sup> 22'  | 4 <sup>h</sup> 8'   | 13 <sup>h</sup> 5'  | 28 <sup>h</sup> 12' | 13 <sup>h</sup> 55' | 0 <sup>h</sup> 4'   | 23 <sup>h</sup> 5'  | 1 <sup>h</sup> 11' | 9 <sup>h</sup> 36' | 28 <sup>h</sup> 55'  | 27 <sup>h</sup> 20' | 19 <sup>h</sup> 30' | 8 <sup>h</sup> 41' | S 8  |
| S 9  | 11 6 42  | 18 <sup>h</sup> 28'02 | 21 <sup>h</sup> 58' | 5 <sup>h</sup> 52'  | 12 <sup>h</sup> 55' | 28 <sup>h</sup> 49' | 13 <sup>h</sup> 50' | 0 <sup>h</sup> 8'   | 23 <sup>h</sup> 8'  | 1 <sup>h</sup> 10' | 9 <sup>h</sup> 37' | 28 <sup>h</sup> 06'  | 27 <sup>h</sup> 17' | 19 <sup>h</sup> 36' | 8 <sup>h</sup> 45' | S 9  |
| M10  | 11 10 38 | 19 <sup>h</sup> 27'54 | 6 <sup>h</sup> 31'  | 7 <sup>h</sup> 37'  | 12 <sup>h</sup> 43' | 29 <sup>h</sup> 26' | 13 <sup>h</sup> 44' | 0 <sup>h</sup> 13'  | 23 <sup>h</sup> 11' | 1 <sup>h</sup> 8'  | 9 <sup>h</sup> 38' | 28 <sup>h</sup> 6'   | 27 <sup>h</sup> 14' | 19 <sup>h</sup> 43' | 8 <sup>h</sup> 49' | M10  |
| T 11 | 11 14 35 | 20 <sup>h</sup> 27'44 | 20 <sup>h</sup> 55' | 9 <sup>h</sup> 23'  | 12 <sup>h</sup> 29' | 0 <sup>h</sup> 23'  | 13 <sup>h</sup> 39' | 0 <sup>h</sup> 17'  | 23 <sup>h</sup> 14' | 1 <sup>h</sup> 7'  | 9 <sup>h</sup> 39' | 28 <sup>h</sup> 55'  | 27 <sup>h</sup> 11' | 19 <sup>h</sup> 50' | 8 <sup>h</sup> 53' | T 11 |
| W12  | 11 18 31 | 21 <sup>h</sup> 27'32 | 5 <sup>h</sup> 04'  | 11 <sup>h</sup> 10' | 12 <sup>h</sup> 12' | 0 <sup>h</sup> 40'  | 13 <sup>h</sup> 34' | 0 <sup>h</sup> 21'  | 23 <sup>h</sup> 17' | 1 <sup>h</sup> 5'  | 9 <sup>h</sup> 40' | 28 <sup>h</sup> 22'  | 27 <sup>h</sup> 7'  | 19 <sup>h</sup> 56' | 8 <sup>h</sup> 57' | W12  |
| T 13 | 11 22 28 | 22 <sup>h</sup> 27'18 | 18 <sup>h</sup> 54' | 12 <sup>h</sup> 58' | 11 <sup>h</sup> 53' | 1 <sup>h</sup> 17'  | 13 <sup>h</sup> 29' | 0 <sup>h</sup> 25'  | 23 <sup>h</sup> 20' | 1 <sup>h</sup> 3'  | 9 <sup>h</sup> 41' | 27 <sup>h</sup> 59'  | 27 <sup>h</sup> 4'  | 20 <sup>h</sup> 3'  | 9 <sup>h</sup> 1'  | T 13 |
| F 14 | 11 26 24 | 23 <sup>h</sup> 27'02 | 2 <sup>h</sup> 22'  | 14 <sup>h</sup> 48' | 11 <sup>h</sup> 31' | 1 <sup>h</sup> 54'  | 13 <sup>h</sup> 24' | 0 <sup>h</sup> 30'  | 23 <sup>h</sup> 24' | 1 <sup>h</sup> 2'  | 9 <sup>h</sup> 42' | 27 <sup>h</sup> 55'  | 27 <sup>h</sup> 1'  | 20 <sup>h</sup> 10' | 9 <sup>h</sup> 5'  | F 14 |
| S 15 | 11 30 21 | 24 <sup>h</sup> 26'43 | 15 <sup>h</sup> 27' | 16 <sup>h</sup> 39' | 11 <sup>h</sup> 7'  | 2 <sup>h</sup> 31'  | 13 <sup>h</sup> 20' | 0 <sup>h</sup> 34'  | 23 <sup>h</sup> 27' | 1 <sup>h</sup> 0'  | 9 <sup>h</sup> 43' | 27 <sup>h</sup> 51'  | 26 <sup>h</sup> 58' | 20 <sup>h</sup> 16' | 9 <sup>h</sup> 8'  | S 15 |
| S 16 | 11 34 17 | 25 <sup>h</sup> 26'23 | 28 <sup>h</sup> 10' | 18 <sup>h</sup> 31' | 10 <sup>h</sup> 41' | 3 <sup>h</sup> 8'   | 13 <sup>h</sup> 16' | 0 <sup>h</sup> 39'  | 23 <sup>h</sup> 30' | 0 <sup>h</sup> 59' | 9 <sup>h</sup> 44' | 27 <sup>h</sup> 47'  | 26 <sup>h</sup> 55' | 20 <sup>h</sup> 23' | 9 <sup>h</sup> 12' | S 16 |
| M17  | 11 38 14 | 26 <sup>h</sup> 26'00 | 10 <sup>h</sup> 33' | 20 <sup>h</sup> 24' | 10 <sup>h</sup> 13' | 3 <sup>h</sup> 45'  | 13 <sup>h</sup> 11' | 0 <sup>h</sup> 44'  | 23 <sup>h</sup> 33' | 0 <sup>h</sup> 57' | 9 <sup>h</sup> 44' | 27 <sup>h</sup> 45'  | 26 <sup>h</sup> 52' | 20 <sup>h</sup> 30' | 9 <sup>h</sup> 16' | M17  |
| T 18 | 11 42 11 | 27 <sup>h</sup> 25'35 | 22 <sup>h</sup> 41' | 22 <sup>h</sup> 19' | 9 <sup>h</sup> 43'  | 4 <sup>h</sup> 21'  | 13 <sup>h</sup> 7'  | 0 <sup>h</sup> 49'  | 23 <sup>h</sup> 36' | 0 <sup>h</sup> 56' | 9 <sup>h</sup> 45' | 27 <sup>h</sup> 044' | 26 <sup>h</sup> 48' | 20 <sup>h</sup> 36' | 9 <sup>h</sup> 20' | T 18 |
| W19  | 11 46 7  | 28 <sup>h</sup> 25'07 | 4 <sup>h</sup> 28'  | 24 <sup>h</sup> 14' | 9 <sup>h</sup> 11'  | 4 <sup>h</sup> 58'  | 13 <sup>h</sup> 4'  | 0 <sup>h</sup> 53'  | 23 <sup>h</sup> 39' | 0 <sup>h</sup> 54' | 9 <sup>h</sup> 46' | 27 <sup>h</sup> 44'  | 26 <sup>h</sup> 45' | 20 <sup>h</sup> 43' | 9 <sup>h</sup> 23' | W19  |
| T 20 | 11 50 4  | 29 <sup>h</sup> 24'37 | 16 <sup>h</sup> 28' | 26 <sup>h</sup> 11' | 8 <sup>h</sup> 38'  | 5 <sup>h</sup> 35'  | 13 <sup>h</sup> 0'  | 0 <sup>h</sup> 58'  | 23 <sup>h</sup> 42' | 0 <sup>h</sup> 53' | 9 <sup>h</sup> 46' | 27 <sup>h</sup> 45'  | 26 <sup>h</sup> 42' | 20 <sup>h</sup> 50' | 9 <sup>h</sup> 27' | T 20 |
| F 21 | 11 54 0  | 0 <sup>h</sup> 04'25  | 28 <sup>h</sup> 18' | 28 <sup>h</sup> 9'  | 8 <sup>h</sup> 3'   | 6 <sup>h</sup> 11'  | 12 <sup>h</sup> 56' | 1 <sup>h</sup> 3'   | 23 <sup>h</sup> 46' | 0 <sup>h</sup> 52' | 9 <sup>h</sup> 47' | 27 <sup>h</sup> 47'  | 26 <sup>h</sup> 39' | 20 <sup>h</sup> 56' | 9 <sup>h</sup> 31' | F 21 |
| S 22 | 11 57 57 | 1 <sup>h</sup> 23'31  | 10 <sup>h</sup> 11' | 0 <sup>h</sup> 08'  | 7 <sup>h</sup> 27'  | 6 <sup>h</sup> 48'  | 12 <sup>h</sup> 53' | 1 <sup>h</sup> 9'   | 23 <sup>h</sup> 49' | 0 <sup>h</sup> 50' | 9 <sup>h</sup> 48' | 27 <sup>h</sup> 48'  | 26 <sup>h</sup> 36' | 21 <sup>h</sup> 3'  | 9 <sup>h</sup> 35' | S 22 |
| S 23 | 12 1 53  | 2 <sup>h</sup> 22'54  | 22 <sup>h</sup> 12' | 2 <sup>h</sup> 8'   | 6 <sup>h</sup> 50'  | 7 <sup>h</sup> 24'  | 12 <sup>h</sup> 50' | 1 <sup>h</sup> 14'  | 23 <sup>h</sup> 52' | 0 <sup>h</sup> 49' | 9 <sup>h</sup> 48' | 27 <sup>h</sup> 050' | 26 <sup>h</sup> 33' | 21 <sup>h</sup> 10' | 9 <sup>h</sup> 38' | S 23 |
| M24  | 12 5 50  | 3 <sup>h</sup> 22'15  | 4 <sup>h</sup> 25'  | 4 <sup>h</sup> 9'   | 6 <sup>h</sup> 13'  | 8 <sup>h</sup> 0'   | 12 <sup>h</sup> 47' | 1 <sup>h</sup> 19'  | 23 <sup>h</sup> 55' | 0 <sup>h</sup> 47' | 9 <sup>h</sup> 49' | 27 <sup>h</sup> 49'  | 26 <sup>h</sup> 29' | 21 <sup>h</sup> 16' | 9 <sup>h</sup> 42' | M24  |
| T 25 | 12 9 46  | 4 <sup>h</sup> 21'34  | 16 <sup>h</sup> 52' | 6 <sup>h</sup> 11'  | 5 <sup>h</sup> 35'  | 8 <sup>h</sup> 37'  | 12 <sup>h</sup> 44' | 1 <sup>h</sup> 24'  | 23 <sup>h</sup> 59' | 0 <sup>h</sup> 46' | 9 <sup>h</sup> 50' | 27 <sup>h</sup> 48'  | 26 <sup>h</sup> 26' | 21 <sup>h</sup> 23' | 9 <sup>h</sup> 46' | T 25 |
| W26  | 12 13 43 | 5 <sup>h</sup> 20'51  | 29 <sup>h</sup> 35' | 8 <sup>h</sup> 13'  | 4 <sup>h</sup> 57'  | 9 <sup>h</sup> 13'  | 12 <sup>h</sup> 42' | 1 <sup>h</sup> 30'  | 24 <sup>h</sup> 2'  | 0 <sup>h</sup> 45' | 9 <sup>h</sup> 50' | 27 <sup>h</sup> 44'  | 26 <sup>h</sup> 23' | 21 <sup>h</sup> 30' | 9 <sup>h</sup> 49' | W26  |
| T 27 | 12 17 40 | 6 <sup>h</sup> 20'06  | 12 <sup>h</sup> 25' | 10 <sup>h</sup> 16' | 4 <sup>h</sup> 20'  | 9 <sup>h</sup> 49'  | 12 <sup>h</sup> 39' | 1 <sup>h</sup> 35'  | 24 <sup>h</sup> 5'  | 0 <sup>h</sup> 43' | 9 <sup>h</sup> 51' | 27 <sup>h</sup> 39'  | 26 <sup>h</sup> 20' | 21 <sup>h</sup> 36' | 9 <sup>h</sup> 53' | T 27 |
| F 28 | 12 21 36 | 7 <sup>h</sup> 19'18  | 25 <sup>h</sup> 51' | 12 <sup>h</sup> 19' | 3 <sup>h</sup> 42'  | 10 <sup>h</sup> 25' | 12 <sup>h</sup> 37' | 1 <sup>h</sup> 41'  | 24 <sup>h</sup> 9'  | 0 <sup>h</sup> 42' | 9 <sup>h</sup> 51' | 27 <sup>h</sup> 33'  | 26 <sup>h</sup> 17' | 21 <sup>h</sup> 43' | 9 <sup>h</sup> 56' | F 28 |
| S 29 | 12 25 33 | 8 <sup>h</sup> 18'29  | 9 <sup>h</sup> 21'  | 14 <sup>h</sup> 23' | 3 <sup>h</sup> 5'   | 11 <sup>h</sup> 2'  | 12 <sup>h</sup> 35' | 1 <sup>h</sup> 46'  | 24 <sup>h</sup> 12' | 0 <sup>h</sup> 41' | 9 <sup>h</sup> 51' | 27 <sup>h</sup> 26'  | 26 <sup>h</sup> 13' | 21 <sup>h</sup> 50' | 10 <sup>h</sup> 0' | S 29 |
| S 30 | 12 29 29 | 9 <sup>h</sup> 17'38  | 23 <sup>h</sup> 4'  | 16 <sup>h</sup> 26' | 2 <sup>h</sup> 29'  | 11 <sup>h</sup> 38' | 12 <sup>h</sup> 33' | 1 <sup>h</sup> 52'  | 24 <sup>h</sup> 15' | 0 <sup>h</sup> 40' | 9 <sup>h</sup> 52' | 27 <sup>h</sup> 19'  | 26 <sup>h</sup> 10' | 21 <sup>h</sup> 57' | 10 <sup>h</sup> 3' | S 30 |
| M31  | 12 33 26 | 10 <sup>h</sup> 04'45 | 6 <sup>h</sup> 25'  | 18 <sup>h</sup> 09' | 1 <sup>h</sup> 04'  | 12 <sup>h</sup> 14' | 12 <sup>h</sup> 31' | 1 <sup>h</sup> 58'  | 24 <sup>h</sup> 08' | 0 <sup>h</sup> 38' | 9 <sup>h</sup> 52' | 27 <sup>h</sup> 14'  | 26 <sup>h</sup> 7'  | 22 <sup>h</sup> 3'  | 10 <sup>h</sup> 7' | M31  |

| Day  | ☉    | ☾     | ♂    | ♀     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂    | ♂    | ♂     | ♂    | ♂     | ♂    |
|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|
|      | decl | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  | decl  | lat  | decl  | lat  |
| S 1  | 7s39 | 15s35 | 4s38 | 15s56 | 2s 2 | 11n 3 | 6n24 | 23s15 | 0n 5 | 17n28 | 1n 3 | 18n23 | 1s46 | 8n21 | 0s33 | 11n40 | 0n42 | 20s21 | 2n47 |
| S 2  | 7 16 | 20 30 | 5 5  | 15 26 | 2 4  | 11 15 | 6 34 | 23 17 | 0 4  | 17 30 | 1 3  | 18 24 | 1 46 | 8 22 | 0 33 | 11 40 | 0 42 | 20 21 | 2 47 |
| M 3  | 6 53 | 24 28 | 5 16 | 14 56 | 2 7  | 11 26 | 6 44 | 23 20 | 0 3  | 17 32 | 1 3  | 18 25 | 1 45 | 8 23 | 0 33 | 11 41 | 0 42 | 20 21 | 2 47 |
| T 4  | 6 30 | 27 5  | 5 9  | 14 24 | 2 9  | 11 36 | 6 53 | 23 22 | 0 2  | 17 34 | 1 3  | 18 26 | 1 45 | 8 24 | 0 33 | 11 41 | 0 42 | 20 21 | 2 47 |
| W 5  | 6 7  | 28 4  | 4 44 | 13 51 | 2 10 | 11 44 | 7 3  | 23 25 | 0 1  | 17 35 | 1 3  | 18 27 | 1 45 | 8 25 | 0 33 | 11 42 | 0 42 | 20 21 | 2 47 |
| T 6  | 5 44 | 27 13 | 4 1  | 13 16 | 2 11 | 11 52 | 7 11 | 23 27 | 0s 0 | 17 37 | 1 3  | 18 28 | 1 45 | 8 26 | 0 33 | 11 43 | 0 42 | 20 21 | 2 47 |
| F 7  | 5 21 | 24 33 | 3 3  | 12 40 | 2 12 | 11 58 | 7 20 | 23 28 | 0 1  | 17 39 | 1 3  | 18 29 | 1 44 | 8 27 | 0 33 | 11 43 | 0 42 | 20 21 | 2 47 |
| S 8  | 4 57 | 20 16 | 1 52 | 12 3  | 2 12 | 12 3  | 7 28 | 23 30 | 0 3  | 17 40 | 1 3  | 18 30 | 1 44 | 8 28 | 0 33 | 11 44 | 0 42 | 20 21 | 2 47 |
| S 9  | 4 34 | 14 44 | 0 34 | 11 25 | 2 11 | 12 6  | 7 36 | 23 32 | 0 4  | 17 42 | 1 3  | 18 31 | 1 44 | 8 30 | 0 33 | 11 44 | 0 42 | 20 21 | 2 47 |
| M10  | 4 11 | 8 25  | 0n46 | 10 45 | 2 11 | 12 8  | 7 44 | 23 33 | 0 5  | 17 43 | 1 3  | 18 32 | 1 44 | 8 31 | 0 33 | 11 45 | 0 43 | 20 21 | 2 47 |
| T 11 | 3 47 | 1 44  | 2 3  | 10 4  | 2 10 | 12 9  | 7 50 | 23 34 | 0 6  | 17 45 | 1 3  | 18 33 | 1 43 | 8 32 | 0 33 | 11 45 | 0 43 | 20 21 | 2 47 |
| W12  | 3 23 | 4n55  | 3 10 | 9 22  | 2 8  | 12 8  | 7 57 | 23 35 | 0 7  | 17 46 | 1 2  | 18 34 | 1 43 | 8 33 | 0 33 | 11 46 | 0 43 | 20 21 | 2 47 |
| T 13 | 3 0  | 11 11 | 4 4  | 8 38  | 2 6  | 12 6  | 8 3  | 23 36 | 0 8  | 17 48 | 1 2  | 18 35 | 1 43 | 8 34 | 0 33 | 11 47 | 0 43 | 20 21 | 2 47 |
| F 14 | 2 36 | 16 44 | 4 43 | 7 53  | 2 3  | 12 2  | 8 8  | 23 37 | 0 10 | 17 49 | 1 2  | 18 36 | 1 43 | 8 35 | 0 33 | 11 47 | 0 43 | 20 20 | 2 47 |
| S 15 | 2 13 | 21 22 | 5 6  | 7 7   | 2 0  | 11 57 | 8 12 | 23 38 | 0 11 | 17 50 | 1 2  | 18 38 | 1 43 | 8 36 | 0 33 | 11 48 | 0 43 | 20 20 | 2 47 |
| S 16 | 1 49 | 24 52 | 5 14 | 6 20  | 1 56 | 11 50 | 8 16 | 23 38 | 0 12 | 17 51 | 1 2  | 18 39 | 1 42 | 8 38 | 0 33 | 11 48 | 0 43 | 20 20 | 2 47 |
| M17  | 1 25 | 27 6  | 5 6  | 5 32  | 1 52 | 11 41 | 8 19 | 23 38 | 0 13 | 17 53 | 1 2  | 18 40 | 1 42 | 8 39 | 0 33 | 11 49 | 0 43 | 20 20 | 2 47 |
| T 18 | 1 1  | 28 0  | 4 45 | 4 42  | 1 47 | 11 32 | 8 22 | 23 39 | 0 15 | 17 54 | 1 2  | 18 41 | 1 42 | 8 40 | 0 33 | 11 49 | 0 43 | 20 20 | 2 47 |
| W19  | 0 38 | 27 34 | 4 11 | 3 51  | 1 42 | 11 20 | 8 23 | 23 38 | 0 16 | 17 55 | 1 2  | 18 42 | 1 42 | 8 41 | 0 33 | 11 50 | 0 43 | 20 20 | 2 47 |
| T 20 | 0 14 | 25 53 | 3 27 | 3 0   | 1 36 | 11 8  | 8 23 | 23 38 | 0 17 | 17 56 | 1 2  | 18 44 | 1 41 | 8 42 | 0 33 | 11 50 | 0 43 | 20 20 | 2 47 |
| F 21 | 0n10 | 23 3  | 2 35 | 2 7   | 1 30 | 10 53 | 8 23 | 23 38 | 0 18 | 17 57 | 1 2  | 18 45 | 1 41 | 8 44 | 0 33 | 11 51 | 0 43 | 20 20 | 2 47 |
| S 22 | 0 33 | 19 14 | 1 35 | 1 13  | 1 23 | 10 38 | 8 22 | 23 38 | 0 20 | 17 58 | 1 2  | 18 46 | 1 41 | 8 45 | 0 33 | 11 51 | 0 43 | 20 20 | 2 47 |
| S 23 | 0 57 | 14 37 | 0 31 | 0 19  | 1 16 | 10 21 | 8 20 | 23 37 | 0 21 | 17 58 | 1 2  | 18 47 | 1 41 | 8 46 | 0 33 | 11 52 | 0 43 | 20 20 | 2 47 |
| M24  | 1 21 | 9 21  | 0s36 | 0n37  | 1 8  | 10 4  | 8 16 | 23 36 | 0 22 | 17 59 | 1 2  | 18 49 | 1 40 | 8 47 | 0 33 | 11 52 | 0 43 | 20 20 | 2 47 |
| T 25 | 1 44 | 3 38  | 1 42 | 1 33  | 1 0  | 9 45  | 8 12 | 23 35 | 0 24 | 18 0  | 1 2  | 18 50 | 1 40 | 8 48 | 0 33 | 11 53 | 0 43 | 20 20 | 2 47 |
| W26  | 2 8  | 2s21  | 2 44 | 2 29  | 0 51 | 9 25  | 8 7  | 23 34 | 0 25 | 18 0  | 1 2  | 18 51 | 1 40 | 8 50 | 0 33 | 11 53 | 0 43 | 20 20 | 2 47 |
| T 27 | 2 31 | 8 20  | 3 39 | 3 26  | 0 42 | 9 5   | 8 1  | 23 33 | 0 27 | 18 1  | 1 2  | 18 53 | 1 40 | 8 51 | 0 33 | 11 54 | 0 42 | 20 20 | 2 47 |
| F 28 | 2 55 | 14 5  | 4 24 | 4 23  | 0 32 | 8 43  | 7 54 | 23 32 | 0 28 | 18 2  | 1 2  | 18 54 | 1 40 | 8 52 | 0 33 | 11 54 | 0 42 | 20 20 | 2 47 |
| S 29 | 3 18 | 19 16 | 4 54 | 5 21  | 0 22 | 8 22  | 7 47 | 23 30 | 0 30 | 18 2  | 1 1  | 18 55 | 1 39 | 8 53 | 0 33 | 11 55 | 0 42 | 20 20 | 2 47 |
| S 30 | 3 41 | 23 32 | 5 8  | 6 18  | 0 11 | 8 0   | 7 38 | 23 29 | 0 31 | 18 3  | 1 1  | 18 57 | 1 39 | 8 55 | 0 33 | 11 55 | 0 42 | 20 20 | 2 47 |
| M31  | 4n 5 | 26s30 | 5s 5 | 7n15  | 0s 0 | 7n37  | 7n29 | 23s27 | 0s33 | 18n 3 | 1n 1 | 18n58 | 1s39 | 8n56 | 0s33 | 11n55 | 0n42 | 20s20 | 2n47 |

ASTRODIENST EPHEMERIS for the year 1766  
geocentric

APRIL 1766

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♊      | ♋      | ♌     | ♍      | ♎     | ♏      | ♐     | ♑     | ♒      | ♓     | ♈     | ♉     | Day  |
|------|----------|----------|--------|--------|--------|-------|--------|-------|--------|-------|-------|--------|-------|-------|-------|------|
| T 1  | 12 37 22 | 11°15'50 | 20♌56  | 20°31  | 1°R21  | 12♊50 | 12°R30 | 2II 4 | 24°22  | 0°R37 | 9♊52  | 27°R10 | 26♋4  | 22♈10 | 10♉10 | T 1  |
| W 2  | 12 41 19 | 12°14'54 | 5♈1    | 22°32  | 0°Y48  | 13°25 | 12♋29  | 2°10  | 24°25  | 0♎36  | 9°53  | 27°R9  | 26°1  | 22°17 | 10°14 | W 2  |
| T 3  | 12 45 15 | 13°13'55 | 19°9   | 24°31  | 0°18   | 14°1  | 12°28  | 2°16  | 24°29  | 0°35  | 9°53  | 27°D 8 | 25°58 | 22°23 | 10°17 | T 3  |
| F 4  | 12 49 12 | 14°12'55 | 3♈19   | 26°29  | 29♋49  | 14°37 | 12°27  | 2°22  | 24°32  | 0°34  | 9°53  | 27°9   | 25°54 | 22°30 | 10°21 | F 4  |
| S 5  | 12 53 9  | 15°11'54 | 17°30  | 28°25  | 29°23  | 15°13 | 12°26  | 2°28  | 24°36  | 0°33  | 9°54  | 27°10  | 25°51 | 22°37 | 10°24 | S 5  |
| S 6  | 12 57 5  | 16°10'50 | 1♋40   | 0♌18   | 28°58  | 15°48 | 12°26  | 2°34  | 24°39  | 0°32  | 9°54  | 27°R11 | 25°48 | 22°43 | 10°27 | S 6  |
| M 7  | 13 1 2   | 17°9'45  | 15°45  | 2°8    | 28°36  | 16°24 | 12°25  | 2°40  | 24°42  | 0°31  | 9°54  | 27°9   | 25°45 | 22°50 | 10°31 | M 7  |
| T 8  | 13 4 58  | 18°8'38  | 29°44  | 3°55   | 28°16  | 16°59 | 12°D25 | 2°46  | 24°46  | 0°30  | 9°54  | 27°5   | 25°42 | 22°57 | 10°34 | T 8  |
| W 9  | 13 8 55  | 19°7'28  | 13°Y32 | 5°39   | 27°58  | 17°34 | 12°25  | 2°53  | 24°49  | 0°29  | 9°54  | 26°59  | 25°39 | 23°3  | 10°37 | W 9  |
| T 10 | 13 12 51 | 20°6'17  | 27°6   | 7°19   | 27°43  | 18°9  | 12°25  | 2°59  | 24°53  | 0°28  | 9°54  | 26°51  | 25°35 | 23°10 | 10°40 | T 10 |
| F 11 | 13 16 48 | 21°5'04  | 10♌23  | 8°54   | 27°30  | 18°45 | 12°26  | 3°5   | 24°56  | 0°27  | 9°R54 | 26°42  | 25°32 | 23°17 | 10°44 | F 11 |
| S 12 | 13 20 44 | 22°3'49  | 23°22  | 10°25  | 27°20  | 19°20 | 12°26  | 3°12  | 25°0   | 0°26  | 9°54  | 26°32  | 25°29 | 23°23 | 10°47 | S 12 |
| S 13 | 13 24 41 | 23°2'32  | 6II 2  | 11°52  | 27°12  | 19°54 | 12°27  | 3°19  | 25°3   | 0°25  | 9°54  | 26°23  | 25°26 | 23°30 | 10°50 | S 13 |
| M14  | 13 28 37 | 24°1'12  | 18°25  | 13°14  | 27°6   | 20°29 | 12°28  | 3°25  | 25°6   | 0°24  | 9°54  | 26°15  | 25°23 | 23°37 | 10°53 | M14  |
| T 15 | 13 32 34 | 24°59'51 | 0♌33   | 14°31  | 27°3   | 21°4  | 12°29  | 3°32  | 25°10  | 0°23  | 9°54  | 26°10  | 25°19 | 23°43 | 10°56 | T 15 |
| W16  | 13 36 31 | 25°58'27 | 12°29  | 15°43  | 27°D 3 | 21°39 | 12°31  | 3°38  | 25°13  | 0°22  | 9°54  | 26°7   | 25°16 | 23°50 | 10°59 | W16  |
| T 17 | 13 40 27 | 26°57'01 | 24°20  | 16°50  | 27°4   | 22°13 | 12°32  | 3°45  | 25°17  | 0°22  | 9°54  | 26°D 6 | 25°13 | 23°57 | 11°2  | T 17 |
| F 18 | 13 44 24 | 27°55'33 | 6♌9    | 17°52  | 27°8   | 22°47 | 12°34  | 3°52  | 25°20  | 0°21  | 9°53  | 26°6   | 25°10 | 24°3  | 11°5  | F 18 |
| S 19 | 13 48 20 | 28°54'03 | 18°3   | 18°48  | 27°14  | 23°22 | 12°36  | 3°59  | 25°24  | 0°20  | 9°53  | 26°7   | 25°7  | 24°10 | 11°8  | S 19 |
| S 20 | 13 52 17 | 29°52'30 | 0♎6    | 19°38  | 27°23  | 23°56 | 12°38  | 4°6   | 25°27  | 0°19  | 9°53  | 26°R 7 | 25°4  | 24°17 | 11°11 | S 20 |
| M21  | 13 56 13 | 0♌50'56  | 12°23  | 20°24  | 27°33  | 24°30 | 12°40  | 4°13  | 25°31  | 0°19  | 9°53  | 26°6   | 25°0  | 24°23 | 11°14 | M21  |
| T 22 | 14 0 10  | 1°49'19  | 24°59  | 21°3   | 27°46  | 25°4  | 12°43  | 4°20  | 25°34  | 0°18  | 9°52  | 26°2   | 24°57 | 24°30 | 11°16 | T 22 |
| W23  | 14 4 6   | 2°47'40  | 7♌55   | 21°37  | 28°1   | 25°38 | 12°45  | 4°27  | 25°37  | 0°18  | 9°52  | 25°56  | 24°54 | 24°37 | 11°19 | W23  |
| T 24 | 14 8 3   | 3°45'59  | 21°13  | 22°5   | 28°17  | 26°11 | 12°48  | 4°34  | 25°41  | 0°17  | 9°52  | 25°48  | 24°51 | 24°43 | 11°22 | T 24 |
| F 25 | 14 12 0  | 4°44'17  | 4♎51   | 22°28  | 28°36  | 26°45 | 12°51  | 4°41  | 25°44  | 0°17  | 9°51  | 25°38  | 24°48 | 24°50 | 11°25 | F 25 |
| S 26 | 14 15 56 | 5°42'32  | 18°48  | 22°45  | 28°57  | 27°19 | 12°54  | 4°48  | 25°48  | 0°16  | 9°51  | 25°27  | 24°44 | 24°57 | 11°27 | S 26 |
| S 27 | 14 19 53 | 6°40'46  | 2♌58   | 22°56  | 29°19  | 27°52 | 12°57  | 4°55  | 25°51  | 0°16  | 9°50  | 25°16  | 24°41 | 25°3  | 11°30 | S 27 |
| M28  | 14 23 49 | 7°38'59  | 17°16  | 23°2   | 29°43  | 28°25 | 13°1   | 5°2   | 25°54  | 0°15  | 9°50  | 25°7   | 24°38 | 25°10 | 11°32 | M28  |
| T 29 | 14 27 46 | 8°37'10  | 1♌37   | 23°R 2 | 0°Y 9  | 28°58 | 13°4   | 5°10  | 25°58  | 0°15  | 9°49  | 25°0   | 24°35 | 25°17 | 11°35 | T 29 |
| W30  | 14 31 42 | 9♌35'19  | 15♌56  | 22♌57  | 0°Y36  | 29♌31 | 13♌8   | 5II17 | 26°Y 1 | 0♎14  | 9♌49  | 24♌56  | 24♌32 | 25♌23 | 11♌37 | W30  |

| Day  | ☉     | ☾     |      | ♊     |      | ♋    |      | ♌     |      | ♍     |      | ♎     |      | ♏    |      | ♐     |      | ♑     |      | ♒     | ♓     | ♈     | ♉    | ♊    | ♋    | ♌    | ♍    | ♎    | ♏    | ♐    | ♑    | ♒    | ♓    |     |
|------|-------|-------|------|-------|------|------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|
|      | decl  | decl  | lat  | decl  | lat  | decl | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  | decl  | lat  | decl  | lat  | decl  | decl  | decl  | decl | decl | decl | decl | decl | decl | decl | decl | decl | decl | decl | lat |
| T 1  | 4n28  | 27s52 | 4s43 | 8n12  | 0n11 | 7n15 | 7n19 | 23s25 | 0s34 | 18n 3 | 1n 1 | 18n59 | 1s39 | 8n57 | 0s33 | 11n56 | 0n42 | 20s20 | 2n47 | 12s28 | 12s51 | 24n29 | 3s 5 | 5n 3 |      |      |      |      |      |      |      |      |      |     |
| W 2  | 4 51  | 27 27 | 4 4  | 9 7   | 0 22 | 6 52 | 7 9  | 23 23 | 0 36 | 18 4  | 1 1  | 19 1  | 1 39 | 8 58 | 0 33 | 11 56 | 0 42 | 20 20 | 2 47 | 12 29 | 12 52 | 24 27 | 3 4  | 5 3  |      |      |      |      |      |      |      |      |      |     |
| T 3  | 5 14  | 25 15 | 3 11 | 10 2  | 0 34 | 6 30 | 6 58 | 23 21 | 0 37 | 18 4  | 1 1  | 19 2  | 1 38 | 9 0  | 0 33 | 11 57 | 0 42 | 20 20 | 2 47 | 12 29 | 12 53 | 24 25 | 3 2  | 5 3  |      |      |      |      |      |      |      |      |      |     |
| F 4  | 5 37  | 21 28 | 2 5  | 10 56 | 0 45 | 6 8  | 6 46 | 23 19 | 0 39 | 18 4  | 1 1  | 19 3  | 1 38 | 9 1  | 0 33 | 11 57 | 0 42 | 20 20 | 2 47 | 12 29 | 12 54 | 24 23 | 3 1  | 5 3  |      |      |      |      |      |      |      |      |      |     |
| S 5  | 6 0   | 16 26 | 0 52 | 11 48 | 0 57 | 5 46 | 6 34 | 23 16 | 0 40 | 18 4  | 1 1  | 19 5  | 1 38 | 9 2  | 0 33 | 11 57 | 0 42 | 20 20 | 2 47 | 12 28 | 12 55 | 24 22 | 3 0  | 5 4  |      |      |      |      |      |      |      |      |      |     |
| S 6  | 6 22  | 10 31 | 0n24 | 12 39 | 1 8  | 5 25 | 6 22 | 23 14 | 0 42 | 18 4  | 1 1  | 19 6  | 1 38 | 9 3  | 0 33 | 11 58 | 0 42 | 20 20 | 2 47 | 12 28 | 12 56 | 24 20 | 2 58 | 5 4  |      |      |      |      |      |      |      |      |      |     |
| M 7  | 6 45  | 4 7   | 1 38 | 13 28 | 1 19 | 5 5  | 6 9  | 23 11 | 0 44 | 18 4  | 1 1  | 19 7  | 1 38 | 9 5  | 0 33 | 11 58 | 0 42 | 20 20 | 2 47 | 12 29 | 12 57 | 24 18 | 2 57 | 5 4  |      |      |      |      |      |      |      |      |      |     |
| T 8  | 7 7   | 2n26  | 2 46 | 14 15 | 1 30 | 4 45 | 5 56 | 23 8  | 0 45 | 18 4  | 1 1  | 19 9  | 1 38 | 9 6  | 0 33 | 11 58 | 0 42 | 20 20 | 2 47 | 12 30 | 12 58 | 24 16 | 2 56 | 5 4  |      |      |      |      |      |      |      |      |      |     |
| W 9  | 7 30  | 8 46  | 3 43 | 15 0  | 1 40 | 4 26 | 5 42 | 23 6  | 0 47 | 18 4  | 1 0  | 19 10 | 1 37 | 9 7  | 0 33 | 11 59 | 0 42 | 20 20 | 2 47 | 12 32 | 12 59 | 24 14 | 2 54 | 5 4  |      |      |      |      |      |      |      |      |      |     |
| T 10 | 7 52  | 14 35 | 4 26 | 15 43 | 1 50 | 4 7  | 5 29 | 23 3  | 0 49 | 18 4  | 1 0  | 19 12 | 1 37 | 9 8  | 0 33 | 11 59 | 0 42 | 20 20 | 2 47 | 12 35 | 13 0  | 24 12 | 2 53 | 5 4  |      |      |      |      |      |      |      |      |      |     |
| F 11 | 8 14  | 19 35 | 4 53 | 16 23 | 2 0  | 3 50 | 5 15 | 23 0  | 0 50 | 18 4  | 1 0  | 19 13 | 1 37 | 9 10 | 0 33 | 11 59 | 0 42 | 20 20 | 2 47 | 12 38 | 13 2  | 24 10 | 2 52 | 5 4  |      |      |      |      |      |      |      |      |      |     |
| S 12 | 8 36  | 23 33 | 5 5  | 17 0  | 2 9  | 3 33 | 5 2  | 22 56 | 0 52 | 18 3  | 1 0  | 19 14 | 1 37 | 9 11 | 0 33 | 12 0  | 0 42 | 20 20 | 2 47 | 12 41 | 13 3  | 24 9  | 2 50 | 5 4  |      |      |      |      |      |      |      |      |      |     |
| S 13 | 8 58  | 26 17 | 5 1  | 17 35 | 2 17 | 3 17 | 4 48 | 22 53 | 0 54 | 18 3  | 1 0  | 19 16 | 1 37 | 9 12 | 0 33 | 12 0  | 0 42 | 20 20 | 2 47 | 12 44 | 13 4  | 24 7  | 2 49 | 5 5  |      |      |      |      |      |      |      |      |      |     |
| M14  | 9 20  | 27 40 | 4 43 | 18 8  | 2 24 | 3 2  | 4 34 | 22 50 | 0 56 | 18 3  | 1 0  | 19 17 | 1 36 | 9 13 | 0 33 | 12 0  | 0 42 | 20 20 | 2 47 | 12 47 | 13 5  | 24 5  | 2 48 | 5 5  |      |      |      |      |      |      |      |      |      |     |
| T 15 | 9 41  | 27 41 | 4 13 | 18 37 | 2 31 | 2 49 | 4 20 | 22 46 | 0 58 | 18 2  | 1 0  | 19 19 | 1 36 | 9 15 | 0 33 | 12 1  | 0 42 | 20 20 | 2 47 | 12 49 | 13 6  | 24 3  | 2 46 | 5 5  |      |      |      |      |      |      |      |      |      |     |
| W16  | 10 3  | 26 24 | 3 31 | 19 4  | 2 37 | 2 36 | 4 7  | 22 43 | 1 0  | 18 2  | 1 0  | 19 20 | 1 36 | 9 16 | 0 33 | 12 1  | 0 42 | 20 20 | 2 47 | 12 50 | 13 7  | 24 1  | 2 45 | 5 5  |      |      |      |      |      |      |      |      |      |     |
| T 17 | 10 24 | 23 56 | 2 42 | 19 28 | 2 42 | 2 24 | 3 53 | 22 39 | 1 1  | 18 1  | 1 0  | 19 22 | 1 36 | 9 17 | 0 33 | 12 1  | 0 42 | 20 20 | 2 47 | 12 50 | 13 8  | 23 59 | 2 44 | 5 5  |      |      |      |      |      |      |      |      |      |     |
| F 18 | 10 45 | 20 27 | 1 45 | 19 50 | 2 46 | 2 14 | 3 40 | 22 35 | 1 3  | 18 1  | 1 0  | 19 23 | 1 36 | 9 18 | 0 33 | 12 1  | 0 42 | 20 20 | 2 47 | 12 50 | 13 9  | 23 57 | 2 43 | 5 5  |      |      |      |      |      |      |      |      |      |     |
| S 19 | 11 6  | 16 7  | 0 43 | 20 8  | 2 48 | 2 4  | 3 27 | 22 31 | 1 5  | 18 0  | 1 0  | 19 24 | 1 36 | 9 20 | 0 33 | 12 2  | 0 42 | 20 20 | 2 47 | 12 50 | 13 10 | 23 55 | 2 41 | 5 5  |      |      |      |      |      |      |      |      |      |     |
| S 20 | 11 27 | 11 7  | 0s21 | 20 24 | 2 50 | 1 55 | 3 14 | 22 27 | 1 7  | 17 59 | 0 59 | 19 26 | 1 35 | 9 21 | 0 33 | 12 2  | 0 42 | 20 20 | 2 46 | 12 50 | 13 11 | 23 53 | 2 40 | 5 6  |      |      |      |      |      |      |      |      |      |     |
| M21  | 11 47 | 5 36  | 1 26 | 20 37 | 2 51 | 1 48 | 3 1  | 22 23 | 1 9  | 17 59 | 0 59 | 19 27 | 1 35 | 9 22 | 0 33 | 12 2  | 0 42 | 20 20 | 2 46 | 12 50 | 13 12 | 23 51 | 2 39 | 5 6  |      |      |      |      |      |      |      |      |      |     |
| T 22 | 12 7  | 0s15  | 2 27 | 20 47 | 2 51 | 1 41 | 2 49 | 22 19 | 1 11 | 17 58 | 0 59 | 19 29 | 1 35 | 9 24 | 0 33 | 12 2  | 0 42 | 20 20 | 2 46 | 12 51 | 13 13 | 23 49 | 2 38 | 5 6  |      |      |      |      |      |      |      |      |      |     |
| W23  | 12 27 | 6 15  | 3 23 | 20 55 | 2 49 | 1 36 | 2 36 | 22 15 | 1 13 | 17 57 | 0 59 | 19 30 | 1 35 | 9 25 | 0 33 | 12 3  | 0 42 | 20 20 | 2 46 | 12 53 | 13 14 | 23 47 | 2 37 | 5 6  |      |      |      |      |      |      |      |      |      |     |
| T 24 | 12 47 | 12 8  | 4 9  | 21 0  | 2 46 | 1 31 | 2 24 | 22 10 | 1 15 | 17 56 | 0 59 | 19 32 | 1 35 | 9 26 | 0 33 | 12 3  | 0 42 | 20 20 | 2 46 | 12 56 | 13 15 | 23 45 | 2 35 | 5 6  |      |      |      |      |      |      |      |      |      |     |
| F 25 | 13 7  | 17 35 | 4 43 | 21 2  | 2 43 | 1 28 | 2 12 | 22 6  | 1 17 | 17 55 | 0 59 | 19 33 | 1 35 | 9 27 | 0 33 | 12 3  | 0 42 | 20 20 | 2 46 | 13 0  | 13 16 | 23 43 | 2 34 | 5 6  |      |      |      |      |      |      |      |      |      |     |
| S 26 | 13 27 | 22 14 | 5 0  | 21 1  | 2 37 | 1 25 | 2 0  | 22 1  | 1 19 | 17 54 | 0 59 | 19 34 | 1 35 | 9 28 | 0 33 | 12 3  | 0 42 | 20 20 | 2 46 | 13 3  | 13 18 | 23 41 | 2 33 | 5 7  |      |      |      |      |      |      |      |      |      |     |
| S 27 | 13 46 | 25 40 | 4 59 | 20 58 | 2 31 | 1 24 | 1 49 | 21 57 | 1 22 | 17 53 | 0 59 | 19 36 | 1 34 | 9 30 | 0 33 | 12 3  | 0 42 | 20 20 | 2 46 | 13 7  | 13 19 | 23 39 | 2 32 | 5 7  |      |      |      |      |      |      |      |      |      |     |
| M28  | 14 5  | 27 30 | 4 40 | 20 52 | 2 23 | 1 23 | 1 38 | 21 52 | 1 24 | 17 52 | 0 59 | 19 37 | 1 34 | 9 31 | 0 33 | 12 3  | 0 42 | 20 21 | 2 46 | 13 10 | 13 20 | 23 37 | 2 31 | 5 7  |      |      |      |      |      |      |      |      |      |     |
| T 29 | 14 24 | 27 31 | 4 3  | 20 43 | 2 14 | 1 23 | 1 27 | 21 48 | 1 26 | 17 51 | 0 59 | 19 39 | 1 34 | 9 32 | 0 33 | 12 4  | 0 42 | 20 21 | 2 46 | 13 12 | 13 21 | 23 35 | 2 30 | 5 7  |      |      |      |      |      |      |      |      |      |     |
| W30  | 14n42 | 25s41 | 3s11 | 20n32 | 2n 4 | 1n24 | 1n17 | 21s43 | 1s28 | 17n50 | 0n58 | 19n40 | 1s34 | 9n33 | 0s33 | 12n 4 | 0n42 | 20s21 | 2n46 | 13s14 | 13s22 | 23n33 | 2s29 | 5n 7 |      |      |      |      |      |      |      |      |      |     |

ASTRODIENST EPHEMERIS for the year 1766  
geocentric

MAY 1766

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♊      | ♋      | ♌     | ♍     | ♎    | ♏      | ♐     | ♑     | ♒      | ♓     | ♈     | ♉     | Day  |
|------|----------|----------|-------|--------|--------|-------|-------|------|--------|-------|-------|--------|-------|-------|-------|------|
| T 1  | 14 35 39 | 10♈33'27 | 0♌10  | 22°R47 | 1°Y 5  | 0♌ 4  | 13♌12 | 5♈24 | 26°Y 5 | 0°R14 | 9°R48 | 24°R54 | 24♌29 | 25♈30 | 11♈40 | T 1  |
| F 2  | 14 39 36 | 11°31'33 | 14°17 | 22♈33  | 1°35   | 0°36  | 13°16 | 5°32 | 26° 8  | 0♈14  | 9°♈48 | 24°D54 | 24°25 | 25°36 | 11°42 | F 2  |
| S 3  | 14 43 32 | 12°29'39 | 28°16 | 22°14  | 2° 7   | 1° 9  | 13°21 | 5°39 | 26°11  | 0°13  | 9°47  | 24°R54 | 24°22 | 25°43 | 11°44 | S 3  |
| S 4  | 14 47 29 | 13°27'42 | 12♈ 7 | 21°51  | 2°40   | 1°41  | 13°25 | 5°46 | 26°15  | 0°13  | 9°46  | 24♌53  | 24°19 | 25°50 | 11°47 | S 4  |
| M 5  | 14 51 25 | 14°25'45 | 25°50 | 21°25  | 3°15   | 2°13  | 13°30 | 5°54 | 26°18  | 0°13  | 9°46  | 24°50  | 24°16 | 25°56 | 11°49 | M 5  |
| T 6  | 14 55 22 | 15°23'45 | 9°Y23 | 20°55  | 3°50   | 2°45  | 13°35 | 6° 1 | 26°21  | 0°13  | 9°45  | 24°44  | 24°13 | 26° 3 | 11°51 | T 6  |
| W 7  | 14 59 18 | 16°21'45 | 22°47 | 20°23  | 4°27   | 3°17  | 13°40 | 6° 9 | 26°25  | 0°13  | 9°44  | 24°36  | 24°10 | 26°10 | 11°53 | W 7  |
| T 8  | 15 3 15  | 17°19'43 | 5♈58  | 19°50  | 5° 6   | 3°48  | 13°45 | 6°16 | 26°28  | 0°12  | 9°44  | 24°25  | 24° 6 | 26°16 | 11°55 | T 8  |
| F 9  | 15 7 11  | 18°17'39 | 18°57 | 19°14  | 5°45   | 4°20  | 13°50 | 6°24 | 26°31  | 0°12  | 9°43  | 24°12  | 24° 3 | 26°23 | 11°57 | F 9  |
| S 10 | 15 11 8  | 19°15'35 | 1♈42  | 18°39  | 6°25   | 4°51  | 13°55 | 6°31 | 26°34  | 0°12  | 9°42  | 23°59  | 24° 0 | 26°30 | 11°59 | S 10 |
| S 11 | 15 15 4  | 20°13'28 | 14°12 | 18° 3  | 7° 7   | 5°22  | 14° 1 | 6°39 | 26°38  | 0°D12 | 9°41  | 23°47  | 23°57 | 26°36 | 12° 1 | S 11 |
| M12  | 15 19 1  | 21°11'20 | 26°28 | 17°28  | 7°49   | 5°53  | 14° 7 | 6°47 | 26°41  | 0°12  | 9°40  | 23°36  | 23°54 | 26°43 | 12° 3 | M12  |
| T 13 | 15 22 58 | 22° 9'11 | 8♈32  | 16°54  | 8°33   | 6°23  | 14°13 | 6°54 | 26°44  | 0°12  | 9°39  | 23°28  | 23°50 | 26°50 | 12° 5 | T 13 |
| W14  | 15 26 54 | 23° 6'59 | 20°27 | 16°21  | 9°17   | 6°54  | 14°19 | 7° 2 | 26°47  | 0°12  | 9°39  | 23°22  | 23°47 | 26°56 | 12° 7 | W14  |
| T 15 | 15 30 51 | 24° 4'46 | 2♈16  | 15°51  | 10° 2  | 7°24  | 14°25 | 7°10 | 26°50  | 0°13  | 9°38  | 23°19  | 23°44 | 27° 3 | 12° 9 | T 15 |
| F 16 | 15 34 47 | 25° 2'32 | 14° 4 | 15°24  | 10°48  | 7°54  | 14°31 | 7°17 | 26°53  | 0°13  | 9°37  | 23°18  | 23°41 | 27°10 | 12°10 | F 16 |
| S 17 | 15 38 44 | 26° 0'15 | 25°57 | 15° 0  | 11°35  | 8°23  | 14°37 | 7°25 | 26°57  | 0°13  | 9°36  | 23°18  | 23°38 | 27°16 | 12°12 | S 17 |
| S 18 | 15 42 40 | 26°57'57 | 8♈ 0  | 14°39  | 12°22  | 8°53  | 14°44 | 7°33 | 27° 0  | 0°13  | 9°35  | 23°18  | 23°35 | 27°23 | 12°14 | S 18 |
| M19  | 15 46 37 | 27°55'38 | 20°17 | 14°23  | 13°11  | 9°22  | 14°51 | 7°40 | 27° 3  | 0°13  | 9°34  | 23°16  | 23°31 | 27°30 | 12°15 | M19  |
| T 20 | 15 50 34 | 28°53'17 | 2♈55  | 14°10  | 14° 0  | 9°51  | 14°58 | 7°48 | 27° 6  | 0°14  | 9°33  | 23°13  | 23°28 | 27°36 | 12°17 | T 20 |
| W21  | 15 54 30 | 29°50'54 | 15°57 | 14° 1  | 14°50  | 10°20 | 15° 5 | 7°56 | 27° 9  | 0°14  | 9°32  | 23° 7  | 23°25 | 27°43 | 12°18 | W21  |
| T 22 | 15 58 27 | 0♈48'30  | 29°25 | 13°D57 | 15°40  | 10°48 | 15°12 | 8° 4 | 27°12  | 0°14  | 9°31  | 22°58  | 23°22 | 27°50 | 12°19 | T 22 |
| F 23 | 16 2 23  | 1°46'05  | 13♈18 | 13°58  | 16°31  | 11°16 | 15°19 | 8°11 | 27°15  | 0°15  | 9°29  | 22°48  | 23°19 | 27°56 | 12°21 | F 23 |
| S 24 | 16 6 20  | 2°43'38  | 27°34 | 14° 2  | 17°23  | 11°44 | 15°26 | 8°19 | 27°18  | 0°15  | 9°28  | 22°37  | 23°16 | 28° 3 | 12°22 | S 24 |
| S 25 | 16 10 16 | 3°41'11  | 12♈ 8 | 14°12  | 18°15  | 12°12 | 15°34 | 8°27 | 27°21  | 0°15  | 9°27  | 22°26  | 23°12 | 28°10 | 12°23 | S 25 |
| M26  | 16 14 13 | 4°38'42  | 26°51 | 14°26  | 19° 8  | 12°39 | 15°41 | 8°35 | 27°24  | 0°16  | 9°26  | 22°16  | 23° 9 | 28°16 | 12°24 | M26  |
| T 27 | 16 18 9  | 5°36'12  | 11♈36 | 14°44  | 20° 2  | 13° 6 | 15°49 | 8°43 | 27°27  | 0°16  | 9°25  | 22° 9  | 23° 6 | 28°23 | 12°26 | T 27 |
| W28  | 16 22 6  | 6°33'42  | 26°17 | 15° 7  | 20°56  | 13°33 | 15°57 | 8°50 | 27°29  | 0°17  | 9°24  | 22° 5  | 23° 3 | 28°30 | 12°27 | W28  |
| T 29 | 16 26 3  | 7°31'10  | 10♈46 | 15°34  | 21°51  | 14° 0 | 16° 5 | 8°58 | 27°32  | 0°17  | 9°23  | 22° 3  | 23° 0 | 28°36 | 12°28 | T 29 |
| F 30 | 16 29 59 | 8°28'38  | 25° 2 | 16° 5  | 22°46  | 14°26 | 16°13 | 9° 6 | 27°35  | 0°18  | 9°21  | 22°D 3 | 22°56 | 28°43 | 12°29 | F 30 |
| S 31 | 16 33 56 | 9♈26'05  | 9♈ 2  | 16♈40  | 23°Y41 | 14♌52 | 16♌21 | 9♈14 | 27°Y38 | 0♈19  | 9♈20  | 22°R 3 | 22♌53 | 28♈50 | 12♈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 |
| T 1  | 15n 1   | 22s13    | 2s 7     | 20n19    | 1n53     | 1n26     | 1n 6     | 21s38    | 1s30     | 17n49    | 0n58     | 19n42    | 1s34     | 9n35     |
| F 2  | 15 19   | 17 28    | 0 56     | 20 3     | 1 41     | 1 29     | 0 56     | 21 33    | 1 33     | 17 47    | 0 58     | 19 43    | 1 34     | 9 36     |
| S 3  | 15 36   | 11 49    | 0n18     | 19 45    | 1 27     | 1 33     | 0 46     | 21 28    | 1 35     | 17 46    | 0 58     | 19 44    | 1 34     | 9 37     |
| S 4  | 15 54   | 5 38     | 1 30     | 19 26    | 1 13     | 1 38     | 0 37     | 21 23    | 1 37     | 17 45    | 0 58     | 19 46    | 1 34     | 9 38     |
| M 5  | 16 11   | 0n43     | 2 36     | 19 4     | 0 58     | 1 43     | 0 28     | 21 18    | 1 40     | 17 43    | 0 58     | 19 47    | 1 33     | 9 39     |
| T 6  | 16 28   | 6 58     | 3 32     | 18 41    | 0 42     | 1 49     | 0 19     | 21 13    | 1 42     | 17 42    | 0 58     | 19 49    | 1 33     | 9 41     |
| W 7  | 16 45   | 12 49    | 4 16     | 18 16    | 0 25     | 1 55     | 0 10     | 21 8     | 1 44     | 17 40    | 0 58     | 19 50    | 1 33     | 9 42     |
| T 8  | 17 2 18 | 0        | 4 45     | 17 51    | 0 8      | 2 3      | 0 1      | 21 3     | 1 47     | 17 39    | 0 58     | 19 51    | 1 33     | 9 43     |
| F 9  | 17 18   | 22 16    | 4 59     | 17 24    | 0s 9     | 2 11     | 0s 7     | 20 58    | 1 49     | 17 37    | 0 58     | 19 53    | 1 33     | 9 44     |
| S 10 | 17 34   | 25 23    | 4 57     | 16 58    | 0 27     | 2 19     | 0 15     | 20 53    | 1 52     | 17 35    | 0 57     | 19 54    | 1 33     | 9 45     |
| S 11 | 17 50   | 27 12    | 4 42     | 16 31    | 0 44     | 2 29     | 0 23     | 20 48    | 1 54     | 17 34    | 0 57     | 19 56    | 1 33     | 9 47     |
| M12  | 18 5    | 27 38    | 4 13     | 16 5     | 1 2      | 2 39     | 0 30     | 20 43    | 1 57     | 17 32    | 0 57     | 19 57    | 1 33     | 9 48     |
| T 13 | 18 20   | 26 45    | 3 33     | 15 39    | 1 19     | 2 49     | 0 37     | 20 38    | 2 0      | 17 30    | 0 57     | 19 58    | 1 32     | 9 49     |
| W14  | 18 35   | 24 37    | 2 44     | 15 14    | 1 35     | 3 0      | 0 45     | 20 33    | 2 2      | 17 28    | 0 57     | 20 0     | 1 32     | 9 50     |
| T 15 | 18 49   | 21 27    | 1 49     | 14 50    | 1 51     | 3 12     | 0 51     | 20 27    | 2 5      | 17 26    | 0 57     | 20 1     | 1 32     | 9 51     |
| F 16 | 19 3    | 17 24    | 0 59     | 14 28    | 2 6      | 3 24     | 0 58     | 20 22    | 2 8      | 17 24    | 0 57     | 20 2     | 1 32     | 9 52     |
| S 17 | 19 17   | 12 40    | 0n14     | 14 8     | 2 20     | 3 36     | 1 4      | 20 17    | 2 10     | 17 22    | 0 57     | 20 4     | 1 32     | 9 53     |
| S 18 | 19 30   | 7 23     | 1 17     | 13 49    | 2 33     | 3 49     | 1 10     | 20 12    | 2 13     | 17 20    | 0 57     | 20 5     | 1 32     | 9 55     |
| M19  | 19 43   | 1 44     | 2 18     | 13 32    | 2 46     | 4 3      | 1 16     | 20 7     | 2 16     | 17 18    | 0 57     | 20 6     | 1 32     | 9 56     |
| T 20 | 19 56   | 4s 7     | 3 13     | 13 18    | 2 57     | 4 16     | 1 22     | 20 2     | 2 19     | 17 16    | 0 57     | 20 8     | 1 32     | 9 57     |
| W21  | 20 9    | 9 59     | 4 1      | 13 6     | 3 7      | 4 31     | 1 27     | 19 57    | 2 22     | 17 14    | 0 56     | 20 9     | 1 32     | 9 58     |
| T 22 | 20 21   | 15 35    | 4 36     | 12 56    | 3 16     | 4 45     | 1 32     | 19 52    | 2 24     | 17 12    | 0 56     | 20 10    | 1 32     | 9 59     |
| F 23 | 20 33   | 20 34    | 4 57     | 12 48    | 3 24     | 5 0      | 1 37     | 19 47    | 2 27     | 17 10    | 0 56     | 20 12    | 1 32     | 10 0     |
| S 24 | 20 44   | 24 30    | 5 0      | 12 43    | 3 30     | 5 16     | 1 42     | 19 42    | 2 30     | 17 7     | 0 56     | 20 13    | 1 31     | 10 1     |
| S 25 | 20 55   | 26 58    | 4 44     | 12 41    | 3 36     | 5 31     | 1 47     | 19 37    | 2 33     | 17 5     | 0 56     | 20 14    | 1 31     | 10 2     |
| M26  | 21 6    | 27 34    | 4 9      | 12 40    | 3 41     | 5 47     | 1 51     | 19 32    | 2 36     | 17 3     | 0 56     | 20 16    | 1 31     | 10 3     |
| T 27 | 21 16   | 26 14    | 3 17     | 12 42    | 3 44     | 6 4      | 1 55     | 19 27    | 2 39     | 17 0     | 0 56     | 20 17    | 1 31     | 10 4     |
| W28  | 21 26   | 23 5     | 2 12     | 12 46    | 3 47     | 6 20     | 2 0      | 19 22    | 2 43     | 16 58    | 0 56     | 20 18    | 1 31     | 10 5     |
| T 29 | 21 36   | 18 30    | 0 59     | 12 53    | 3 48     | 6 37     | 2 3      | 19 18    | 2 46     | 16 56    | 0 56     | 20 19    | 1 31     | 10 6     |
| F 30 | 21 45   | 12 57    | 0n16     | 13 1     | 3 49     | 6 54     | 2 7      | 19 13    | 2 49     | 16 53    | 0 56     | 20 21    | 1 31     | 10 7     |
| S 31 | 21n54   | 6s49     | 1n29     | 13n11    | 3s49     | 7n11     | 2s10     | 19s 8    | 2s52     | 16n50    | 0n56     | 20n22    | 1s31     | 10n 8    |

Julian Day Number = 2366198.5, Delta T = 20.40 sec  
Ecliptic obliquity = 23°28'18", Nutation = 0°00'09", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 21°28'41", Lahiri = 20°35'41"Greg. Calendar



# ASTRODIENST EPHEMERIS for the year 1766

## geocentric

JUNE 1766

00:00 UT

| Day  | Sid.t    | ☉         | ☽      | ♂     | ♀     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂      | Day  |
|------|----------|-----------|--------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|--------|------|
| S 1  | 16 37 52 | 10II23'31 | 22K46  | 17B20 | 24Y38 | 15≈17 | 16D30 | 9II22  | 27Y41 | 0mP19 | 9°R19 | 22°R 2 | 22≈50 | 28≈56 | 12K30  | S 1  |
| M 2  | 16 41 49 | 11°20'57  | 6Y16   | 18° 3 | 25°34 | 15°42 | 16°38 | 9°29   | 27°43 | 0°20  | 9°18  | 22≈ 0  | 22°47 | 29° 3 | 12°31  | M 2  |
| T 3  | 16 45 45 | 12°18'22  | 19°32  | 18°50 | 26°31 | 16° 7 | 16°47 | 9°37   | 27°46 | 0°21  | 9°16  | 21°55  | 22°44 | 29°10 | 12°32  | T 3  |
| W 4  | 16 49 42 | 13°15'47  | 2B35   | 19°41 | 27°28 | 16°31 | 16°55 | 9°45   | 27°49 | 0°21  | 9°15  | 21°48  | 22°41 | 29°16 | 12°33  | W 4  |
| T 5  | 16 53 38 | 14°13'10  | 15°26  | 20°35 | 28°26 | 16°55 | 17° 4 | 9°53   | 27°51 | 0°22  | 9°14  | 21°38  | 22°37 | 29°23 | 12°33  | T 5  |
| F 6  | 16 57 35 | 15°10'34  | 28° 5  | 21°34 | 29°24 | 17°19 | 17°13 | 10° 0  | 27°54 | 0°23  | 9°12  | 21°27  | 22°34 | 29°30 | 12°34  | F 6  |
| S 7  | 17 1 32  | 16° 7'56  | 10II33 | 22°35 | 0B23  | 17°42 | 17°22 | 10° 8  | 27°56 | 0°24  | 9°11  | 21°15  | 22°31 | 29°36 | 12°34  | S 7  |
| S 8  | 17 5 28  | 17° 5'18  | 22°49  | 23°40 | 1°22  | 18° 5 | 17°31 | 10°16  | 27°59 | 0°25  | 9°10  | 21° 4  | 22°28 | 29°43 | 12°35  | S 8  |
| M 9  | 17 9 25  | 18° 2'39  | 4B56   | 24°49 | 2°21  | 18°27 | 17°41 | 10°24  | 28° 1 | 0°26  | 9° 8  | 20°55  | 22°25 | 29°50 | 12°35  | M 9  |
| T 10 | 17 13 21 | 18°59'59  | 16°53  | 26° 0 | 3°21  | 18°49 | 17°50 | 10°32  | 28° 4 | 0°27  | 9° 7  | 20°47  | 22°22 | 29°56 | 12°35  | T 10 |
| W11  | 17 17 18 | 19°57'19  | 28°44  | 27°16 | 4°21  | 19°11 | 17°59 | 10°39  | 28° 6 | 0°28  | 9° 5  | 20°42  | 22°18 | 0B 3  | 12°36  | W11  |
| T 12 | 17 21 14 | 20°54'37  | 10B31  | 28°34 | 5°21  | 19°32 | 18° 9 | 10°47  | 28° 9 | 0°29  | 9° 4  | 20°40  | 22°15 | 0°10  | 12°36  | T 12 |
| F 13 | 17 25 11 | 21°51'55  | 22°18  | 29°55 | 6°22  | 19°52 | 18°18 | 10°55  | 28°11 | 0°30  | 9° 3  | 20°D39 | 22°12 | 0°16  | 12°36  | F 13 |
| S 14 | 17 29 7  | 22°49'12  | 4mP10  | 1II20 | 7°23  | 20°12 | 18°28 | 11° 2  | 28°13 | 0°31  | 9° 1  | 20°40  | 22° 9 | 0°23  | 12°36  | S 14 |
| S 15 | 17 33 4  | 23°46'28  | 16°12  | 2°48  | 8°24  | 20°32 | 18°38 | 11°10  | 28°16 | 0°32  | 9° 0  | 20°41  | 22° 6 | 0°30  | 12°R36 | S 15 |
| M16  | 17 37 1  | 24°43'44  | 28°28  | 4°18  | 9°25  | 20°51 | 18°48 | 11°18  | 28°18 | 0°33  | 8°58  | 20°R41 | 22° 2 | 0°36  | 12°36  | M16  |
| T 17 | 17 40 57 | 25°40'58  | 11B 5  | 5°52  | 10°27 | 21°10 | 18°58 | 11°25  | 28°20 | 0°34  | 8°57  | 20°40  | 21°59 | 0°43  | 12°36  | T 17 |
| W18  | 17 44 54 | 26°38'12  | 24° 6  | 7°29  | 11°29 | 21°28 | 19° 8 | 11°33  | 28°22 | 0°35  | 8°55  | 20°36  | 21°56 | 0°49  | 12°36  | W18  |
| T 19 | 17 48 50 | 27°35'25  | 7mP34  | 9° 9  | 12°31 | 21°45 | 19°18 | 11°41  | 28°24 | 0°36  | 8°54  | 20°31  | 21°53 | 0°56  | 12°36  | T 19 |
| F 20 | 17 52 47 | 28°32'38  | 21°31  | 10°52 | 13°34 | 22° 2 | 19°28 | 11°48  | 28°27 | 0°38  | 8°52  | 20°25  | 21°50 | 1° 3  | 12°36  | F 20 |
| S 21 | 17 56 43 | 29°29'50  | 5B54   | 12°38 | 14°37 | 22°19 | 19°39 | 11°56  | 28°29 | 0°39  | 8°51  | 20°17  | 21°47 | 1° 9  | 12°35  | S 21 |
| S 22 | 18 0 40  | 0B27'02   | 20°39  | 14°26 | 15°40 | 22°35 | 19°49 | 12° 3  | 28°31 | 0°40  | 8°50  | 20° 9  | 21°43 | 1°16  | 12°35  | S 22 |
| M23  | 18 4 36  | 1°24'14   | 5B39   | 16°18 | 16°43 | 22°50 | 20° 0 | 12°11  | 28°33 | 0°41  | 8°48  | 20° 3  | 21°40 | 1°23  | 12°35  | M23  |
| T 24 | 18 8 33  | 2°21'25   | 20°44  | 18°12 | 17°46 | 23° 5 | 20°10 | 12°19  | 28°35 | 0°43  | 8°47  | 19°58  | 21°37 | 1°29  | 12°34  | T 24 |
| W25  | 18 12 30 | 3°18'36   | 5≈45   | 20° 9 | 18°50 | 23°19 | 20°21 | 12°26  | 28°36 | 0°44  | 8°45  | 19°55  | 21°34 | 1°36  | 12°34  | W25  |
| T 26 | 18 16 26 | 4°15'47   | 20°34  | 22° 8 | 19°54 | 23°33 | 20°32 | 12°33  | 28°38 | 0°45  | 8°44  | 19°D55 | 21°31 | 1°43  | 12°33  | T 26 |
| F 27 | 18 20 23 | 5°12'59   | 5B 5   | 24° 9 | 20°58 | 23°46 | 20°42 | 12°41  | 28°40 | 0°47  | 8°42  | 19°55  | 21°28 | 1°49  | 12°33  | F 27 |
| S 28 | 18 24 19 | 6°10'10   | 19°15  | 26°12 | 22° 2 | 23°58 | 20°53 | 12°48  | 28°42 | 0°48  | 8°41  | 19°56  | 21°24 | 1°56  | 12°32  | S 28 |
| S 29 | 18 28 16 | 7° 7'21   | 3Y 3   | 28°17 | 23° 7 | 24°10 | 21° 4 | 12°56  | 28°44 | 0°50  | 8°39  | 19°R57 | 21°21 | 2° 3  | 12°31  | S 29 |
| M30  | 18 32 12 | 8B 4'33   | 16Y30  | 0B24  | 24B12 | 24≈21 | 21D15 | 13II 3 | 28Y45 | 0mP51 | 8B38  | 19≈57  | 21≈18 | 2B 9  | 12K30  | M30  |

| Day  | ☉     | ☽     | ♂    | ♀     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | Day  |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  |      |
| S 1  | 22n 2 | 0s30  | 2n35 | 13n23 | 3s47 | 7n29  | 2s14 | 19s 4 | 2s55 | 16n48 | 0n56 | 20n23 | 1s31 | 10n 9 | 0s33 | S 1  |
| M 2  | 22 10 | 5n44  | 3 32 | 13 37 | 3 45 | 7 46  | 2 17 | 19 0  | 2 59 | 16 45 | 0 56 | 20 24 | 1 31 | 10 10 | 0 33 | M 2  |
| T 3  | 22 18 | 11 36 | 4 16 | 13 53 | 3 42 | 8 4   | 2 20 | 18 55 | 3 2  | 16 43 | 0 55 | 20 26 | 1 31 | 10 11 | 0 33 | T 3  |
| W 4  | 22 25 | 16 51 | 4 46 | 14 10 | 3 39 | 8 22  | 2 22 | 18 51 | 3 5  | 16 40 | 0 55 | 20 27 | 1 31 | 10 12 | 0 33 | W 4  |
| T 5  | 22 32 | 21 16 | 5 1  | 14 29 | 3 34 | 8 40  | 2 25 | 18 47 | 3 9  | 16 37 | 0 55 | 20 28 | 1 31 | 10 13 | 0 33 | T 5  |
| F 6  | 22 39 | 24 38 | 5 1  | 14 49 | 3 29 | 8 59  | 2 27 | 18 43 | 3 12 | 16 34 | 0 55 | 20 29 | 1 31 | 10 14 | 0 33 | F 6  |
| S 7  | 22 45 | 26 46 | 4 46 | 15 10 | 3 23 | 9 17  | 2 30 | 18 39 | 3 16 | 16 32 | 0 55 | 20 30 | 1 31 | 10 15 | 0 33 | S 7  |
| S 8  | 22 51 | 27 34 | 4 18 | 15 32 | 3 17 | 9 36  | 2 32 | 18 35 | 3 19 | 16 29 | 0 55 | 20 32 | 1 30 | 10 16 | 0 33 | S 8  |
| M 9  | 22 56 | 27 1  | 3 39 | 15 56 | 3 10 | 9 54  | 2 34 | 18 32 | 3 23 | 16 26 | 0 55 | 20 33 | 1 30 | 10 16 | 0 33 | M 9  |
| T 10 | 23 1  | 25 13 | 2 50 | 16 20 | 3 2  | 10 13 | 2 35 | 18 28 | 3 26 | 16 23 | 0 55 | 20 34 | 1 30 | 10 17 | 0 33 | T 10 |
| W11  | 23 5  | 22 19 | 1 55 | 16 45 | 2 54 | 10 31 | 2 37 | 18 25 | 3 30 | 16 20 | 0 55 | 20 35 | 1 30 | 10 18 | 0 33 | W11  |
| T 12 | 23 10 | 18 30 | 0 54 | 17 11 | 2 45 | 10 50 | 2 39 | 18 22 | 3 34 | 16 17 | 0 55 | 20 36 | 1 30 | 10 19 | 0 33 | T 12 |
| F 13 | 23 13 | 13 57 | 0s 9 | 17 37 | 2 36 | 11 9  | 2 40 | 18 19 | 3 37 | 16 14 | 0 55 | 20 37 | 1 30 | 10 20 | 0 33 | F 13 |
| S 14 | 23 17 | 8 53  | 1 12 | 18 4  | 2 26 | 11 27 | 2 41 | 18 16 | 3 41 | 16 11 | 0 55 | 20 38 | 1 30 | 10 21 | 0 33 | S 14 |
| S 15 | 23 19 | 3 25  | 2 13 | 18 31 | 2 16 | 11 46 | 2 42 | 18 13 | 3 45 | 16 8  | 0 55 | 20 39 | 1 30 | 10 21 | 0 33 | S 15 |
| M16  | 23 22 | 2s17  | 3 9  | 18 58 | 2 6  | 12 4  | 2 43 | 18 10 | 3 49 | 16 5  | 0 55 | 20 41 | 1 30 | 10 22 | 0 33 | M16  |
| T 17 | 23 24 | 8 1   | 3 57 | 19 25 | 1 55 | 12 23 | 2 44 | 18 8  | 3 52 | 16 1  | 0 55 | 20 42 | 1 30 | 10 23 | 0 33 | T 17 |
| W18  | 23 26 | 13 37 | 4 35 | 19 52 | 1 44 | 12 42 | 2 44 | 18 6  | 3 56 | 15 58 | 0 55 | 20 43 | 1 30 | 10 24 | 0 33 | W18  |
| T 19 | 23 27 | 18 46 | 4 59 | 20 19 | 1 33 | 13 0  | 2 45 | 18 3  | 4 0  | 15 55 | 0 55 | 20 44 | 1 30 | 10 24 | 0 33 | T 19 |
| F 20 | 23 28 | 23 6  | 5 7  | 20 46 | 1 21 | 13 18 | 2 45 | 18 1  | 4 4  | 15 52 | 0 54 | 20 45 | 1 30 | 10 25 | 0 33 | F 20 |
| S 21 | 23 28 | 26 10 | 4 56 | 21 11 | 1 10 | 13 37 | 2 45 | 18 0  | 4 8  | 15 48 | 0 54 | 20 46 | 1 30 | 10 26 | 0 33 | S 21 |
| S 22 | 23 28 | 27 33 | 4 25 | 21 36 | 0 58 | 13 55 | 2 45 | 17 58 | 4 12 | 15 45 | 0 54 | 20 47 | 1 30 | 10 27 | 0 33 | S 22 |
| M23  | 23 28 | 26 56 | 3 36 | 22 0  | 0 46 | 14 13 | 2 45 | 17 57 | 4 16 | 15 42 | 0 54 | 20 48 | 1 30 | 10 27 | 0 33 | M23  |
| T 24 | 23 27 | 24 21 | 2 31 | 22 23 | 0 34 | 14 31 | 2 45 | 17 56 | 4 20 | 15 38 | 0 54 | 20 49 | 1 30 | 10 28 | 0 33 | T 24 |
| W25  | 23 26 | 20 5  | 1 16 | 22 44 | 0 23 | 14 48 | 2 45 | 17 55 | 4 24 | 15 35 | 0 54 | 20 50 | 1 30 | 10 29 | 0 33 | W25  |
| T 26 | 23 24 | 14 36 | 0n 4 | 23 3  | 0 11 | 15 6  | 2 44 | 17 54 | 4 28 | 15 31 | 0 54 | 20 51 | 1 30 | 10 29 | 0 33 | T 26 |
| F 27 | 23 22 | 8 24  | 1 21 | 23 21 | 0n 0 | 15 23 | 2 44 | 17 53 | 4 32 | 15 28 | 0 54 | 20 52 | 1 30 | 10 30 | 0 33 | F 27 |
| S 28 | 23 20 | 1 56  | 2 32 | 23 36 | 0 11 | 15 40 | 2 43 | 17 53 | 4 36 | 15 24 | 0 54 | 20 53 | 1 30 | 10 31 | 0 33 | S 28 |
| S 29 | 23 17 | 4n28  | 3 32 | 23 50 | 0 22 | 15 57 | 2 43 | 17 53 | 4 40 | 15 21 | 0 54 | 20 54 | 1 30 | 10 31 | 0 33 | S 29 |
| M30  | 23n14 | 10n29 | 4n19 | 24n 1 | 0n32 | 16n14 | 2s42 | 17s53 | 4s44 | 15n17 | 0n54 | 20n54 | 1s30 | 10n32 | 0s33 | M30  |

Julian Day Number = 2366229.5, Delta T = 20.42 sec

Ecliptic obliquity = 23°28'18, Nutation = 0°00'10, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 21°28'45, Lahiri = 20°35'45Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1766

## geocentric

JULY 1766

00:00 UT

| Day  | Sid.t    | ☉                    | ☽                   | ♂                   | ♀                   | ♂                   | ♂                   | ♂                   | ♂                   | ♂                  | ♂                  | ♂                   | ♂                   | ♂                  | ♂                   | Day  |
|------|----------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|--------------------|---------------------|------|
| T 1  | 18 36 9  | 9 <sup>55</sup> 1'45 | 29 <sup>39</sup> 39 | 25 <sup>32</sup> 17 | 24 <sup>32</sup> 17 | 24 <sup>32</sup> 17 | 21 <sup>26</sup> 26 | 13 <sup>11</sup> 10 | 28 <sup>47</sup> 47 | 0 <sup>53</sup> 53 | 8 <sup>36</sup> 36 | 19 <sup>55</sup> 55 | 21 <sup>15</sup> 15 | 2 <sup>16</sup> 16 | 12 <sup>29</sup> 29 | T 1  |
| W 2  | 18 40 6  | 9 <sup>58</sup> 57   | 12 <sup>30</sup> 30 | 4 <sup>41</sup> 41  | 26 <sup>22</sup> 22 | 24 <sup>41</sup> 41 | 21 <sup>37</sup> 37 | 13 <sup>18</sup> 18 | 28 <sup>49</sup> 49 | 0 <sup>54</sup> 54 | 8 <sup>35</sup> 35 | 19 <sup>52</sup> 52 | 21 <sup>12</sup> 12 | 2 <sup>23</sup> 23 | 12 <sup>29</sup> 29 | W 2  |
| T 3  | 18 44 2  | 10 <sup>56</sup> 10  | 25 <sup>6</sup> 6   | 6 <sup>50</sup> 50  | 27 <sup>27</sup> 27 | 24 <sup>50</sup> 50 | 21 <sup>49</sup> 49 | 13 <sup>25</sup> 25 | 28 <sup>50</sup> 50 | 0 <sup>56</sup> 56 | 8 <sup>33</sup> 33 | 19 <sup>46</sup> 46 | 21 <sup>8</sup> 8   | 2 <sup>29</sup> 29 | 12 <sup>28</sup> 28 | T 3  |
| F 4  | 18 47 59 | 11 <sup>53</sup> 22  | 7 <sup>11</sup> 30  | 9 <sup>0</sup> 0    | 28 <sup>33</sup> 33 | 24 <sup>59</sup> 59 | 22 <sup>0</sup> 0   | 13 <sup>32</sup> 32 | 28 <sup>52</sup> 52 | 0 <sup>57</sup> 57 | 8 <sup>32</sup> 32 | 19 <sup>40</sup> 40 | 21 <sup>5</sup> 5   | 2 <sup>36</sup> 36 | 12 <sup>27</sup> 27 | F 4  |
| S 5  | 18 51 55 | 12 <sup>50</sup> 36  | 19 <sup>43</sup> 43 | 11 <sup>10</sup> 10 | 29 <sup>38</sup> 38 | 25 <sup>6</sup> 6   | 22 <sup>11</sup> 11 | 13 <sup>39</sup> 39 | 28 <sup>53</sup> 53 | 0 <sup>59</sup> 59 | 8 <sup>30</sup> 30 | 19 <sup>34</sup> 34 | 21 <sup>2</sup> 2   | 2 <sup>43</sup> 43 | 12 <sup>26</sup> 26 | S 5  |
| S 6  | 18 55 52 | 13 <sup>47</sup> 49  | 1 <sup>47</sup> 47  | 13 <sup>20</sup> 20 | 0 <sup>11</sup> 44  | 25 <sup>13</sup> 13 | 22 <sup>23</sup> 23 | 13 <sup>46</sup> 46 | 28 <sup>55</sup> 55 | 1 <sup>1</sup> 1   | 8 <sup>29</sup> 29 | 19 <sup>27</sup> 27 | 20 <sup>59</sup> 59 | 2 <sup>49</sup> 49 | 12 <sup>25</sup> 25 | S 6  |
| M 7  | 18 59 48 | 14 <sup>45</sup> 03  | 13 <sup>43</sup> 43 | 15 <sup>29</sup> 29 | 1 <sup>50</sup> 50  | 25 <sup>19</sup> 19 | 22 <sup>34</sup> 34 | 13 <sup>54</sup> 54 | 28 <sup>56</sup> 56 | 1 <sup>2</sup> 2   | 8 <sup>27</sup> 27 | 19 <sup>22</sup> 22 | 20 <sup>56</sup> 56 | 2 <sup>56</sup> 56 | 12 <sup>23</sup> 23 | M 7  |
| T 8  | 19 3 45  | 15 <sup>42</sup> 16  | 25 <sup>34</sup> 34 | 17 <sup>38</sup> 38 | 2 <sup>56</sup> 56  | 25 <sup>24</sup> 24 | 22 <sup>46</sup> 46 | 14 <sup>1</sup> 1   | 28 <sup>57</sup> 57 | 1 <sup>4</sup> 4   | 8 <sup>26</sup> 26 | 19 <sup>18</sup> 18 | 20 <sup>53</sup> 53 | 3 <sup>3</sup> 3   | 12 <sup>22</sup> 22 | T 8  |
| W 9  | 19 7 41  | 16 <sup>39</sup> 30  | 7 <sup>12</sup> 22  | 19 <sup>46</sup> 46 | 4 <sup>3</sup> 3    | 25 <sup>29</sup> 29 | 22 <sup>58</sup> 58 | 14 <sup>8</sup> 8   | 28 <sup>59</sup> 59 | 1 <sup>6</sup> 6   | 8 <sup>24</sup> 24 | 19 <sup>16</sup> 16 | 20 <sup>49</sup> 49 | 3 <sup>9</sup> 9   | 12 <sup>21</sup> 21 | W 9  |
| T 10 | 19 11 38 | 17 <sup>36</sup> 44  | 19 <sup>9</sup> 9   | 21 <sup>53</sup> 53 | 5 <sup>9</sup> 9    | 25 <sup>33</sup> 33 | 23 <sup>9</sup> 9   | 14 <sup>15</sup> 15 | 29 <sup>0</sup> 0   | 1 <sup>7</sup> 7   | 8 <sup>23</sup> 23 | 19 <sup>15</sup> 15 | 20 <sup>46</sup> 46 | 3 <sup>16</sup> 16 | 12 <sup>20</sup> 20 | T 10 |
| F 11 | 19 15 35 | 18 <sup>33</sup> 59  | 0 <sup>11</sup> 57  | 23 <sup>59</sup> 59 | 6 <sup>16</sup> 16  | 25 <sup>36</sup> 36 | 23 <sup>21</sup> 21 | 14 <sup>22</sup> 22 | 29 <sup>1</sup> 1   | 1 <sup>9</sup> 9   | 8 <sup>21</sup> 21 | 19 <sup>16</sup> 16 | 20 <sup>43</sup> 43 | 3 <sup>23</sup> 23 | 12 <sup>18</sup> 18 | F 11 |
| S 12 | 19 19 31 | 19 <sup>31</sup> 13  | 12 <sup>51</sup> 51 | 26 <sup>3</sup> 3   | 7 <sup>22</sup> 22  | 25 <sup>38</sup> 38 | 23 <sup>33</sup> 33 | 14 <sup>28</sup> 28 | 29 <sup>2</sup> 2   | 1 <sup>11</sup> 11 | 8 <sup>20</sup> 20 | 19 <sup>17</sup> 17 | 20 <sup>40</sup> 40 | 3 <sup>29</sup> 29 | 12 <sup>17</sup> 17 | S 12 |
| S 13 | 19 23 28 | 20 <sup>28</sup> 27  | 24 <sup>54</sup> 54 | 28 <sup>6</sup> 6   | 8 <sup>29</sup> 29  | 25 <sup>39</sup> 39 | 23 <sup>45</sup> 45 | 14 <sup>35</sup> 35 | 29 <sup>3</sup> 3   | 1 <sup>13</sup> 13 | 8 <sup>18</sup> 18 | 19 <sup>19</sup> 19 | 20 <sup>37</sup> 37 | 3 <sup>36</sup> 36 | 12 <sup>15</sup> 15 | S 13 |
| M14  | 19 27 24 | 21 <sup>25</sup> 42  | 7 <sup>11</sup> 11  | 0 <sup>17</sup> 7   | 9 <sup>36</sup> 36  | 25 <sup>40</sup> 40 | 23 <sup>56</sup> 56 | 14 <sup>42</sup> 42 | 29 <sup>4</sup> 4   | 1 <sup>14</sup> 14 | 8 <sup>17</sup> 17 | 19 <sup>20</sup> 20 | 20 <sup>34</sup> 34 | 3 <sup>42</sup> 42 | 12 <sup>14</sup> 14 | M14  |
| T 15 | 19 31 21 | 22 <sup>22</sup> 57  | 19 <sup>46</sup> 46 | 2 <sup>7</sup> 7    | 10 <sup>43</sup> 43 | 25 <sup>40</sup> 40 | 24 <sup>8</sup> 8   | 14 <sup>49</sup> 49 | 29 <sup>5</sup> 5   | 1 <sup>16</sup> 16 | 8 <sup>15</sup> 15 | 19 <sup>21</sup> 21 | 20 <sup>30</sup> 30 | 3 <sup>49</sup> 49 | 12 <sup>12</sup> 12 | T 15 |
| W16  | 19 35 17 | 23 <sup>20</sup> 12  | 2 <sup>11</sup> 43  | 4 <sup>5</sup> 5    | 11 <sup>51</sup> 51 | 25 <sup>39</sup> 39 | 24 <sup>20</sup> 20 | 14 <sup>56</sup> 56 | 29 <sup>6</sup> 6   | 1 <sup>18</sup> 18 | 8 <sup>14</sup> 14 | 19 <sup>21</sup> 21 | 20 <sup>27</sup> 27 | 3 <sup>56</sup> 56 | 12 <sup>11</sup> 11 | W16  |
| T 17 | 19 39 14 | 24 <sup>17</sup> 27  | 16 <sup>7</sup> 7   | 6 <sup>1</sup> 1    | 12 <sup>58</sup> 58 | 25 <sup>37</sup> 37 | 24 <sup>32</sup> 32 | 15 <sup>2</sup> 2   | 29 <sup>7</sup> 7   | 1 <sup>20</sup> 20 | 8 <sup>12</sup> 12 | 19 <sup>19</sup> 19 | 20 <sup>24</sup> 24 | 4 <sup>2</sup> 2   | 12 <sup>9</sup> 9   | T 17 |
| F 18 | 19 43 10 | 25 <sup>14</sup> 43  | 29 <sup>58</sup> 58 | 7 <sup>56</sup> 56  | 14 <sup>6</sup> 6   | 25 <sup>35</sup> 35 | 24 <sup>45</sup> 45 | 15 <sup>9</sup> 9   | 29 <sup>8</sup> 8   | 1 <sup>22</sup> 22 | 8 <sup>11</sup> 11 | 19 <sup>17</sup> 17 | 20 <sup>21</sup> 21 | 4 <sup>9</sup> 9   | 12 <sup>7</sup> 7   | F 18 |
| S 19 | 19 47 7  | 26 <sup>11</sup> 59  | 14 <sup>16</sup> 16 | 9 <sup>48</sup> 48  | 15 <sup>13</sup> 13 | 25 <sup>32</sup> 32 | 24 <sup>57</sup> 57 | 15 <sup>15</sup> 15 | 29 <sup>9</sup> 9   | 1 <sup>24</sup> 24 | 8 <sup>10</sup> 10 | 19 <sup>14</sup> 14 | 20 <sup>18</sup> 18 | 4 <sup>16</sup> 16 | 12 <sup>6</sup> 6   | S 19 |
| S 20 | 19 51 4  | 27 <sup>9</sup> 15   | 28 <sup>59</sup> 59 | 11 <sup>39</sup> 39 | 16 <sup>21</sup> 21 | 25 <sup>28</sup> 28 | 25 <sup>9</sup> 9   | 15 <sup>22</sup> 22 | 29 <sup>10</sup> 10 | 1 <sup>25</sup> 25 | 8 <sup>8</sup> 8   | 19 <sup>11</sup> 11 | 20 <sup>14</sup> 14 | 4 <sup>22</sup> 22 | 12 <sup>4</sup> 4   | S 20 |
| M21  | 19 55 0  | 28 <sup>6</sup> 32   | 14 <sup>13</sup> 13 | 13 <sup>29</sup> 29 | 17 <sup>29</sup> 29 | 25 <sup>23</sup> 23 | 25 <sup>21</sup> 21 | 15 <sup>28</sup> 28 | 29 <sup>10</sup> 10 | 1 <sup>27</sup> 27 | 8 <sup>7</sup> 7   | 19 <sup>8</sup> 8   | 20 <sup>11</sup> 11 | 4 <sup>29</sup> 29 | 12 <sup>2</sup> 2   | M21  |
| T 22 | 19 58 57 | 29 <sup>3</sup> 49   | 29 <sup>12</sup> 12 | 15 <sup>16</sup> 16 | 18 <sup>37</sup> 37 | 25 <sup>18</sup> 18 | 25 <sup>33</sup> 33 | 15 <sup>35</sup> 35 | 29 <sup>11</sup> 11 | 1 <sup>29</sup> 29 | 8 <sup>5</sup> 5   | 19 <sup>7</sup> 7   | 20 <sup>8</sup> 8   | 4 <sup>36</sup> 36 | 12 <sup>0</sup> 0   | T 22 |
| W23  | 20 2 53  | 0 <sup>17</sup> 07   | 14 <sup>11</sup> 11 | 17 <sup>2</sup> 2   | 19 <sup>45</sup> 45 | 25 <sup>12</sup> 12 | 25 <sup>46</sup> 46 | 15 <sup>41</sup> 41 | 29 <sup>12</sup> 12 | 1 <sup>31</sup> 31 | 8 <sup>4</sup> 4   | 19 <sup>10</sup> 10 | 20 <sup>5</sup> 5   | 4 <sup>42</sup> 42 | 11 <sup>58</sup> 58 | W23  |
| T 24 | 20 6 50  | 0 <sup>58</sup> 25   | 29 <sup>27</sup> 27 | 18 <sup>46</sup> 46 | 20 <sup>54</sup> 54 | 25 <sup>5</sup> 5   | 25 <sup>58</sup> 58 | 15 <sup>47</sup> 47 | 29 <sup>12</sup> 12 | 1 <sup>33</sup> 33 | 8 <sup>3</sup> 3   | 19 <sup>6</sup> 6   | 20 <sup>2</sup> 2   | 4 <sup>49</sup> 49 | 11 <sup>56</sup> 56 | T 24 |
| F 25 | 20 10 46 | 1 <sup>55</sup> 45   | 14 <sup>13</sup> 13 | 20 <sup>28</sup> 28 | 22 <sup>2</sup> 2   | 24 <sup>58</sup> 58 | 26 <sup>10</sup> 10 | 15 <sup>54</sup> 54 | 29 <sup>13</sup> 13 | 1 <sup>35</sup> 35 | 8 <sup>1</sup> 1   | 19 <sup>7</sup> 7   | 19 <sup>59</sup> 59 | 4 <sup>56</sup> 56 | 11 <sup>54</sup> 54 | F 25 |
| S 26 | 20 14 43 | 2 <sup>53</sup> 05   | 28 <sup>37</sup> 37 | 22 <sup>9</sup> 9   | 23 <sup>11</sup> 11 | 24 <sup>49</sup> 49 | 26 <sup>23</sup> 23 | 16 <sup>0</sup> 0   | 29 <sup>13</sup> 13 | 1 <sup>37</sup> 37 | 8 <sup>0</sup> 0   | 19 <sup>8</sup> 8   | 19 <sup>55</sup> 55 | 5 <sup>2</sup> 2   | 11 <sup>52</sup> 52 | S 26 |
| S 27 | 20 18 39 | 3 <sup>50</sup> 27   | 12 <sup>35</sup> 35 | 23 <sup>48</sup> 48 | 24 <sup>19</sup> 19 | 24 <sup>40</sup> 40 | 26 <sup>35</sup> 35 | 16 <sup>6</sup> 6   | 29 <sup>14</sup> 14 | 1 <sup>39</sup> 39 | 7 <sup>59</sup> 59 | 19 <sup>9</sup> 9   | 19 <sup>52</sup> 52 | 5 <sup>9</sup> 9   | 11 <sup>50</sup> 50 | S 27 |
| M28  | 20 22 36 | 4 <sup>47</sup> 49   | 26 <sup>8</sup> 8   | 25 <sup>25</sup> 25 | 25 <sup>28</sup> 28 | 24 <sup>31</sup> 31 | 26 <sup>48</sup> 48 | 16 <sup>12</sup> 12 | 29 <sup>14</sup> 14 | 1 <sup>41</sup> 41 | 7 <sup>57</sup> 57 | 19 <sup>10</sup> 10 | 19 <sup>49</sup> 49 | 5 <sup>16</sup> 16 | 11 <sup>48</sup> 48 | M28  |
| T 29 | 20 26 33 | 5 <sup>45</sup> 13   | 9 <sup>18</sup> 18  | 27 <sup>0</sup> 0   | 26 <sup>37</sup> 37 | 24 <sup>21</sup> 21 | 27 <sup>0</sup> 0   | 16 <sup>18</sup> 18 | 29 <sup>15</sup> 15 | 1 <sup>43</sup> 43 | 7 <sup>56</sup> 56 | 19 <sup>10</sup> 10 | 19 <sup>46</sup> 46 | 5 <sup>22</sup> 22 | 11 <sup>46</sup> 46 | T 29 |
| W30  | 20 30 29 | 6 <sup>42</sup> 38   | 22 <sup>5</sup> 5   | 28 <sup>34</sup> 34 | 27 <sup>46</sup> 46 | 24 <sup>10</sup> 10 | 27 <sup>13</sup> 13 | 16 <sup>24</sup> 24 | 29 <sup>15</sup> 15 | 1 <sup>45</sup> 45 | 7 <sup>55</sup> 55 | 19 <sup>9</sup> 9   | 19 <sup>43</sup> 43 | 5 <sup>29</sup> 29 | 11 <sup>44</sup> 44 | W30  |
| T 31 | 20 34 26 | 7 <sup>40</sup> 05   | 4 <sup>11</sup> 34  | 0 <sup>11</sup> 6   | 28 <sup>11</sup> 55 | 23 <sup>58</sup> 58 | 27 <sup>12</sup> 12 | 16 <sup>30</sup> 30 | 29 <sup>15</sup> 15 | 1 <sup>47</sup> 47 | 7 <sup>53</sup> 53 | 19 <sup>9</sup> 9   | 19 <sup>40</sup> 40 | 5 <sup>16</sup> 16 | 11 <sup>41</sup> 41 | 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 |
| T 1  | 23n10 | 15n54 | 4n51 | 24n 9 | 0n42 | 16n30 | 2s41 | 17s54 | 4s49 | 15n14 | 0n54 | 20n55 | 1s30 | 10n32 | 0s33 | 11n49 | 0n41 | 20s29 | 2n43 | 14s52 | 14s26 | 21n19 | 1s55 | 5n22 |     |      |     |      |     |
| W 2  | 23 6  | 20 29 | 5 8  | 24 15 | 0 52 | 16 47 | 2 40 | 17 54 | 4 53 | 15 10 | 0 54 | 20 56 | 1 30 | 10 33 | 0 33 | 11 49 | 0 41 | 20 29 | 2 43 | 14 53 | 14 27 | 21 17 | 1 55 | 5 22 |     |      |     |      |     |
| T 3  | 23 1  | 24 3  | 5 9  | 24 18 | 1 0  | 17 3  | 2 39 | 17 55 | 4 57 | 15 6  | 0 54 | 20 57 | 1 30 | 10 33 | 0 33 | 11 48 | 0 41 | 20 30 | 2 42 | 14 54 | 14 28 | 21 14 | 1 56 | 5 22 |     |      |     |      |     |
| F 4  | 22 56 | 26 27 | 4 55 | 24 18 | 1 8  | 17 18 | 2 37 | 17 56 | 5 1  | 15 3  | 0 54 | 20 58 | 1 30 | 10 34 | 0 33 | 11 48 | 0 41 | 20 30 | 2 42 | 14 56 | 14 29 | 21 12 | 1 56 | 5 23 |     |      |     |      |     |
| S 5  | 22 51 | 27 32 | 4 29 | 24 16 | 1 16 | 17 34 | 2 36 | 17 57 | 5 5  | 14 59 | 0 54 | 20 59 | 1 30 | 10 34 | 0 33 | 11 47 | 0 41 | 20 30 | 2 42 | 14 58 | 14 30 | 21 10 | 1 56 | 5 23 |     |      |     |      |     |
| S 6  | 22 45 | 27 18 | 3 50 | 24 10 | 1 22 | 17 49 | 2 35 | 17 59 | 5 9  | 14 55 | 0 54 | 21 0  | 1 30 | 10 35 | 0 33 | 11 47 | 0 41 | 20 30 | 2 42 | 15 0  | 14 31 | 21 7  | 1 56 | 5 23 |     |      |     |      |     |
| M 7  | 22 39 | 25 47 | 3 2  | 24 2  | 1 28 | 18 3  | 2 33 | 18 1  | 5 13 | 14 51 | 0 54 | 21 1  | 1 30 | 10 35 | 0 33 | 11 46 | 0 41 | 20 30 | 2 42 | 15 2  | 14 32 | 21 5  | 1 56 | 5 23 |     |      |     |      |     |
| T 8  | 22 33 | 23 7  | 2 6  | 23 51 | 1 34 | 18 18 | 2 31 | 18 3  | 5 18 | 14 48 | 0 54 | 21 1  | 1 30 | 10 36 | 0 33 | 11 45 | 0 41 | 20 31 | 2 42 | 15 3  | 14 33 | 21 2  | 1 57 | 5 23 |     |      |     |      |     |
| W 9  | 22 26 | 19 30 | 1 5  | 23 38 | 1 38 | 18 32 | 2 30 | 18 5  | 5 22 | 14 44 | 0 54 | 21 2  | 1 30 | 10 36 | 0 33 | 11 45 | 0 41 | 20 31 | 2 42 | 15 4  | 14 34 | 21 0  | 1 57 | 5 24 |     |      |     |      |     |
| T 10 | 22 19 | 15 7  | 0 1  | 23 22 | 1 42 | 18 46 | 2 28 | 18 8  | 5 26 | 14 40 | 0 54 | 21 3  | 1 30 | 10 37 | 0 33 | 11 44 | 0 41 | 20 31 | 2 42 | 15 4  | 14 35 | 20 58 | 1 57 | 5 24 |     |      |     |      |     |
| F 11 | 22 11 | 10 9  | 1s 4 | 23 4  | 1 45 | 18 59 | 2 26 | 18 10 | 5 30 | 14 36 | 0 54 | 21 4  | 1 30 | 10 37 | 0 33 | 11 44 | 0 41 | 20 31 | 2 42 | 15 4  | 14 36 | 20 55 | 1 58 | 5 24 |     |      |     |      |     |
| S 12 | 22 3  | 4 48  | 2 6  | 22 43 | 1 47 | 19 12 | 2 24 | 18 14 | 5 34 | 14 32 | 0 54 | 21 5  | 1 30 | 10 37 | 0 33 | 11 43 | 0 41 | 20 31 | 2 41 | 15 4  | 14 37 | 20 53 | 1 58 | 5 24 |     |      |     |      |     |
| S 13 | 21 55 | 0s47  | 3 3  | 22 20 | 1 48 | 19 25 | 2 22 | 18 17 | 5 38 | 14 28 | 0 54 | 21 5  | 1 30 | 10 38 | 0 34 | 11 42 | 0 41 | 20 32 | 2 41 | 15 3  | 14 38 | 20 51 | 1 58 | 5 24 |     |      |     |      |     |
| M14  | 21 46 | 6 26  | 3 54 | 21 56 | 1 49 | 19 37 | 2 20 | 18 20 | 5 42 | 14 24 | 0 54 | 21 6  | 1 30 | 10 38 | 0 34 | 11 42 | 0 41 | 20 32 | 2 41 | 15 3  | 14 39 | 20 48 | 1 59 | 5 25 |     |      |     |      |     |
| T 15 | 21 37 | 11 58 | 4 34 | 21 29 | 1 49 | 19 49 | 2 18 | 18 24 | 5 46 | 14 20 | 0 54 | 21 7  | 1 30 | 10 39 | 0 34 | 11 41 | 0 41 | 20 32 | 2 41 | 15 2  | 14 40 | 20 46 | 1 59 | 5 25 |     |      |     |      |     |
| W16  | 21 27 | 17 9  | 5 2  | 21 1  | 1 49 | 20 0  | 2 15 | 18 28 | 5 50 | 14 16 | 0 54 | 21 8  | 1 30 | 10 39 | 0 34 | 11 40 | 0 41 | 20 32 | 2 41 | 15 2  | 14 41 | 20 43 | 2 0  | 5 25 |     |      |     |      |     |
| T 17 | 21 17 | 21 41 | 5 14 | 20 32 | 1 48 | 20 11 | 2 13 | 18 32 | 5 54 | 14 12 | 0 54 | 21 8  | 1 30 | 10 39 | 0 34 | 11 40 | 0 41 | 20 33 | 2 41 | 15 3  | 14 42 | 20 41 | 2 0  | 5 25 |     |      |     |      |     |
| F 18 | 21 7  | 25 12 | 5 9  | 20 1  | 1 46 | 20 21 | 2 11 | 18 36 | 5 57 | 14 8  | 0 54 | 21 9  | 1 30 | 10 39 | 0 34 | 11 39 | 0 41 | 20 33 | 2 41 | 15 4  | 14 43 | 20 39 | 2 0  | 5 25 |     |      |     |      |     |
| S 19 | 20 56 | 27 16 | 4 45 | 19 28 | 1 43 | 20 31 | 2 8  | 18 41 | 6 1  | 14 4  | 0 54 | 21 10 | 1 30 | 10 40 | 0 34 | 11 38 | 0 41 | 20 33 | 2 41 | 15 4  | 14 44 | 20 36 | 2 1  | 5 26 |     |      |     |      |     |
| S 20 | 20 45 | 27 30 | 4 2  | 18 55 | 1 40 | 20 41 | 2 6  | 18 46 | 6 5  | 14 0  | 0 54 | 21 10 | 1 30 | 10 40 | 0 34 | 11 38 | 0 41 | 20 33 | 2 40 | 15 5  | 14 45 | 20 34 | 2 1  | 5 26 |     |      |     |      |     |
| M21  | 20 34 | 25 45 | 3 2  | 18 21 | 1 37 | 20 50 | 2 3  | 18 50 | 6 8  | 13 56 | 0 54 | 21 11 | 1 30 | 10 40 | 0 34 | 11 37 | 0 41 | 20 33 | 2 40 | 15 6  | 14 46 | 20 31 | 2 2  | 5 26 |     |      |     |      |     |
| T 22 | 20 22 | 22 6  | 1 48 | 17 45 | 1 33 | 20 59 | 2 1  | 18 56 | 6 12 | 13 52 | 0 54 | 21 12 | 1 30 | 10 40 | 0 34 | 11 36 | 0 41 | 20 34 | 2 40 | 15 7  | 14 47 | 20 29 | 2 3  | 5 26 |     |      |     |      |     |
| W23  | 20 10 | 16 57 | 0 26 | 17 9  | 1 28 | 21 7  | 1 58 | 19 1  | 6 15 | 13 47 | 0 54 | 21 12 | 1 30 | 10 41 | 0 34 | 11 36 | 0 41 | 20 34 | 2 40 | 15 7  | 14 48 | 20 26 | 2 3  | 5 26 |     |      |     |      |     |
| T24  | 19 58 | 10 47 | 0n57 | 16 32 | 1 23 | 21 15 | 1 55 | 19 6  | 6 18 | 13 43 | 0 54 | 21 13 | 1 30 | 10 41 | 0 34 | 11 35 | 0 41 | 20 34 | 2 40 | 15 7  | 14 49 | 20 24 | 2 4  | 5 26 |     |      |     |      |     |
| F 25 | 19 45 | 4 9   | 2 15 | 15 55 | 1 18 | 21 22 | 1 52 | 19 12 | 6 21 | 13 39 | 0 54 | 21 14 | 1 30 | 10 41 | 0 34 | 11 34 | 0 41 | 20 34 | 2 40 | 15 7  | 14 50 | 20 22 | 2 4  | 5 27 |     |      |     |      |     |
| S 26 | 19 32 | 2n32  | 3 22 | 15 17 | 1 12 | 21 28 | 1 50 | 19 17 | 6 24 | 13 35 | 0 54 | 21 14 | 1 30 | 10 41 | 0 34 | 11 33 | 0 41 | 20 34 | 2 40 | 15 6  | 14 51 | 20 19 | 2 5  | 5 27 |     |      |     |      |     |
| S 27 | 19 19 | 8 53  | 4 15 | 14 38 | 1 6  | 21 34 | 1 47 | 19 23 | 6 27 | 13 31 | 0 54 | 21 15 | 1 30 | 10 41 | 0 34 | 11 33 | 0 41 | 20 35 | 2 40 | 15 6  | 14 52 | 20 17 | 2 6  | 5 27 |     |      |     |      |     |
| M28  | 19 5  | 14 38 | 4 52 | 14 0  | 0 59 | 21 40 | 1 44 | 19 29 | 6 30 | 13 26 | 0 54 | 21 15 | 1 31 | 10 41 | 0 34 | 11 32 | 0 41 | 20 35 | 2 39 | 15 6  | 14 53 | 20 14 | 2 6  | 5 27 |     |      |     |      |     |
| T 29 | 18 52 | 19 32 | 5 12 | 13 21 | 0 52 | 21 45 | 1 41 | 19 35 | 6 33 | 13 22 | 0 54 | 21 16 | 1 31 | 10 41 | 0 34 | 11 31 | 0 41 | 20 35 | 2 39 | 15 6  | 14 54 | 20 12 | 2 7  | 5 27 |     |      |     |      |     |
| W30  | 18 37 | 23 24 | 5 16 | 12 41 | 0 45 | 21 49 | 1 38 | 19 41 | 6 35 | 13 18 | 0 54 | 21 16 | 1 31 | 10 42 | 0 34 | 11 31 | 0 41 | 20 35 | 2 39 | 15 6  | 14 55 | 20 9  | 2 8  | 5 27 |     |      |     |      |     |
| T 31 | 18n23 | 26n 5 | 5n 5 | 12n 2 | 0n37 | 21n53 | 1s35 | 19s47 | 6s37 | 13n13 | 0n54 | 21n17 | 1s31 | 10n42 | 0s34 | 11n30 | 0n41 | 20s36 | 2n39 | 15s 6 | 14s56 | 20n 7 | 2s 8 | 5n27 |     |      |     |      |     |



ASTRODIENST EPHEMERIS for the year 1766  
geocentric

AUGUST 1766

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♂     | ♂      | ♂     | ♂     | ♂      | ♂    | ♂     | ♂      | ♂     | ♂    | ♂      | Day  |
|------|----------|----------|-------|--------|-------|--------|-------|-------|--------|------|-------|--------|-------|------|--------|------|
| F 1  | 20 38 22 | 8♌37°32  | 16♏49 | 1♏37   | 0♏4   | 23°R46 | 27♏38 | 16♏36 | 29♏15  | 1♏49 | 7°R52 | 19°R 7 | 19♏36 | 5♏42 | 11°R39 | F 1  |
| S 2  | 20 42 19 | 9°35'01  | 28°52 | 3° 5   | 1°14  | 23♏34  | 27°51 | 16°41 | 29°15  | 1°52 | 7♏51  | 19♏6   | 19°33 | 5°49 | 11♏37  | S 2  |
| S 3  | 20 46 15 | 10°32'30 | 10♏47 | 4°32   | 2°23  | 23°20  | 28° 4 | 16°47 | 29°15  | 1°54 | 7°50  | 19° 5  | 19°30 | 5°55 | 11°35  | S 3  |
| M 4  | 20 50 12 | 11°30'01 | 22°37 | 5°57   | 3°33  | 23° 7  | 28°16 | 16°53 | 29°R15 | 1°56 | 7°49  | 19° 4  | 19°27 | 6° 2 | 11°32  | M 4  |
| T 5  | 20 54 8  | 12°27'33 | 4♏25  | 7°20   | 4°42  | 22°53  | 28°29 | 16°58 | 29°15  | 1°58 | 7°47  | 19° 3  | 19°24 | 6° 9 | 11°30  | T 5  |
| W 6  | 20 58 5  | 13°25'07 | 16°12 | 8°42   | 5°52  | 22°38  | 28°42 | 17° 4 | 29°15  | 2° 0 | 7°46  | 19°D 3 | 19°20 | 6°15 | 11°27  | W 6  |
| T 7  | 21 2 2   | 14°22'41 | 28° 2 | 10° 1  | 7° 2  | 22°24  | 28°55 | 17° 9 | 29°15  | 2° 2 | 7°45  | 19° 3  | 19°17 | 6°22 | 11°25  | T 7  |
| F 8  | 21 5 58  | 15°20'16 | 9♏56  | 11°19  | 8°12  | 22° 9  | 29° 8 | 17°15 | 29°15  | 2° 4 | 7°44  | 19° 3  | 19°14 | 6°29 | 11°22  | F 8  |
| S 9  | 21 9 55  | 16°17'52 | 21°56 | 12°34  | 9°22  | 21°53  | 29°20 | 17°20 | 29°15  | 2° 6 | 7°43  | 19° 3  | 19°11 | 6°35 | 11°20  | S 9  |
| S 10 | 21 13 51 | 17°15'30 | 4♏6   | 13°48  | 10°32 | 21°38  | 29°33 | 17°25 | 29°15  | 2° 9 | 7°42  | 19° 4  | 19° 8 | 6°42 | 11°17  | S 10 |
| M 11 | 21 17 48 | 18°13'08 | 16°29 | 15° 0  | 11°42 | 21°22  | 29°46 | 17°30 | 29°14  | 2°11 | 7°41  | 19° 4  | 19° 5 | 6°49 | 11°15  | M 11 |
| T 12 | 21 21 44 | 19°10'47 | 29° 7 | 16° 9  | 12°52 | 21° 6  | 29°59 | 17°35 | 29°14  | 2°13 | 7°40  | 19°R 4 | 19° 1 | 6°55 | 11°12  | T 12 |
| W 13 | 21 25 41 | 20° 8'28 | 12♏4  | 17°16  | 14° 3 | 20°51  | 0♏12  | 17°40 | 29°14  | 2°15 | 7°39  | 19° 4  | 18°58 | 7° 2 | 11° 9  | W 13 |
| T 14 | 21 29 37 | 21° 6'10 | 25°22 | 18°21  | 15°13 | 20°35  | 0°25  | 17°45 | 29°13  | 2°17 | 7°38  | 19°D 4 | 18°55 | 7° 9 | 11° 7  | T 14 |
| F 15 | 21 33 34 | 22° 3'52 | 9♏4   | 19°23  | 16°24 | 20°19  | 0°38  | 17°50 | 29°13  | 2°19 | 7°37  | 19° 4  | 18°52 | 7°15 | 11° 4  | F 15 |
| S 16 | 21 37 31 | 23° 1'36 | 23°11 | 20°23  | 17°35 | 20° 3  | 0°51  | 17°55 | 29°12  | 2°22 | 7°36  | 19° 4  | 18°49 | 7°22 | 11° 1  | S 16 |
| S 17 | 21 41 27 | 23°59'21 | 7♏40  | 21°20  | 18°45 | 19°48  | 1° 4  | 17°59 | 29°12  | 2°24 | 7°35  | 19° 5  | 18°46 | 7°29 | 10°59  | S 17 |
| M 18 | 21 45 24 | 24°57'07 | 22°29 | 22°14  | 19°56 | 19°32  | 1°17  | 18° 4 | 29°11  | 2°26 | 7°34  | 19° 5  | 18°42 | 7°35 | 10°56  | M 18 |
| T 19 | 21 49 20 | 25°54'54 | 7♏32  | 23° 5  | 21° 7 | 19°17  | 1°30  | 18° 8 | 29°10  | 2°28 | 7°33  | 19° 5  | 18°39 | 7°42 | 10°53  | T 19 |
| W 20 | 21 53 17 | 26°52'42 | 22°40 | 23°53  | 22°18 | 19° 2  | 1°43  | 18°13 | 29° 9  | 2°31 | 7°32  | 19°R 6 | 18°36 | 7°49 | 10°50  | W 20 |
| T 21 | 21 57 13 | 27°50'32 | 7♏45  | 24°37  | 23°29 | 18°47  | 1°56  | 18°17 | 29° 9  | 2°33 | 7°31  | 19° 5  | 18°33 | 7°55 | 10°48  | T 21 |
| F 22 | 22 1 10  | 28°48'24 | 22°37 | 25°18  | 24°40 | 18°33  | 2° 9  | 18°21 | 29° 8  | 2°35 | 7°31  | 19° 4  | 18°30 | 8° 2 | 10°45  | F 22 |
| S 23 | 22 5 6   | 29°46'17 | 7♏10  | 25°55  | 25°52 | 18°19  | 2°22  | 18°25 | 29° 7  | 2°37 | 7°30  | 19° 3  | 18°26 | 8° 8 | 10°42  | S 23 |
| S 24 | 22 9 3   | 0♏44'11  | 21°18 | 26°28  | 27° 3 | 18° 5  | 2°35  | 18°29 | 29° 6  | 2°39 | 7°29  | 19° 2  | 18°23 | 8°15 | 10°39  | S 24 |
| M 25 | 22 13 0  | 1°42'08  | 4♏59  | 26°57  | 28°14 | 17°52  | 2°48  | 18°33 | 29° 5  | 2°42 | 7°28  | 19° 1  | 18°20 | 8°22 | 10°36  | M 25 |
| T 26 | 22 16 56 | 2°40'06  | 18°14 | 27°22  | 29°26 | 17°39  | 3° 1  | 18°37 | 29° 4  | 2°44 | 7°28  | 19° 0  | 18°17 | 8°28 | 10°34  | T 26 |
| W 27 | 22 20 53 | 3°38'07  | 1♏4   | 27°41  | 0♏37  | 17°27  | 3°14  | 18°41 | 29° 3  | 2°46 | 7°27  | 18°D59 | 18°14 | 8°35 | 10°31  | W 27 |
| T 28 | 22 24 49 | 4°36'09  | 13°32 | 27°55  | 1°49  | 17°15  | 3°27  | 18°45 | 29° 2  | 2°48 | 7°26  | 18°59  | 18°11 | 8°42 | 10°28  | T 28 |
| F 29 | 22 28 46 | 5°34'13  | 25°44 | 28° 4  | 3° 1  | 17° 4  | 3°40  | 18°48 | 29° 1  | 2°51 | 7°26  | 19° 0  | 18° 7 | 8°48 | 10°25  | F 29 |
| S 30 | 22 32 42 | 6°32'20  | 7♏43  | 28°R 8 | 4°13  | 16°54  | 3°53  | 18°52 | 29° 0  | 2°53 | 7°25  | 19° 1  | 18° 4 | 8°55 | 10°22  | S 30 |
| S 31 | 22 36 39 | 7♏30'28  | 19♏34 | 28♏5   | 5♏25  | 16♏44  | 4♏6   | 18♏55 | 28♏58  | 2♏55 | 7♏24  | 19♏3   | 18♏1  | 9♏2  | 10♏19  | S 31 |

| Day  | ☉     | ☽     | ♀    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  |
| F 1  | 18n 8 | 27n28 | 4n41 | 11n22 | 0n29 | 21n57 | 1s32 | 19s53 | 6s40 | 13n 9 | 0n54 | 21n17 | 1s31 | 10n42 | 0s34 | 11n29 |
| S 2  | 17 53 | 27 32 | 4 4  | 10 43 | 0 21 | 21 59 | 1 29 | 20 0  | 6 42 | 13 5  | 0 54 | 21 18 | 1 31 | 10 42 | 0 34 | 11 28 |
| S 3  | 17 37 | 26 18 | 3 17 | 10 3  | 0 13 | 22 2  | 1 25 | 20 6  | 6 44 | 13 0  | 0 54 | 21 18 | 1 31 | 10 42 | 0 34 | 11 28 |
| M 4  | 17 21 | 23 54 | 2 22 | 9 24  | 0 4  | 22 3  | 1 22 | 20 12 | 6 45 | 12 56 | 0 54 | 21 19 | 1 31 | 10 42 | 0 34 | 11 27 |
| T 5  | 17 5  | 20 29 | 1 20 | 8 45  | 0s 5 | 22 4  | 1 19 | 20 18 | 6 47 | 12 51 | 0 54 | 21 19 | 1 31 | 10 42 | 0 34 | 11 26 |
| W 6  | 16 49 | 16 15 | 0 16 | 8 6   | 0 14 | 22 5  | 1 16 | 20 24 | 6 48 | 12 47 | 0 54 | 21 20 | 1 31 | 10 42 | 0 34 | 11 25 |
| T 7  | 16 32 | 11 24 | 0s50 | 7 27  | 0 24 | 22 4  | 1 13 | 20 30 | 6 49 | 12 43 | 0 54 | 21 20 | 1 31 | 10 42 | 0 34 | 11 25 |
| F 8  | 16 16 | 6 6   | 1 53 | 6 49  | 0 33 | 22 4  | 1 9  | 20 36 | 6 50 | 12 38 | 0 54 | 21 21 | 1 31 | 10 42 | 0 34 | 11 24 |
| S 9  | 15 58 | 0 33  | 2 53 | 6 11  | 0 43 | 22 2  | 1 6  | 20 42 | 6 51 | 12 34 | 0 54 | 21 21 | 1 31 | 10 41 | 0 34 | 11 23 |
| S 10 | 15 41 | 5s 5  | 3 45 | 5 34  | 0 53 | 22 0  | 1 3  | 20 48 | 6 52 | 12 29 | 0 54 | 21 22 | 1 31 | 10 41 | 0 34 | 11 22 |
| M 11 | 15 23 | 10 36 | 4 28 | 4 57  | 1 3  | 21 58 | 1 0  | 20 53 | 6 52 | 12 25 | 0 54 | 21 22 | 1 31 | 10 41 | 0 34 | 11 21 |
| T 12 | 15 5  | 15 49 | 4 59 | 4 21  | 1 13 | 21 55 | 0 56 | 20 59 | 6 52 | 12 20 | 0 54 | 21 22 | 1 31 | 10 41 | 0 34 | 11 21 |
| W 13 | 14 47 | 20 28 | 5 15 | 3 46  | 1 23 | 21 51 | 0 53 | 21 4  | 6 52 | 12 16 | 0 54 | 21 23 | 1 31 | 10 41 | 0 34 | 11 20 |
| T 14 | 14 29 | 24 14 | 5 16 | 3 11  | 1 33 | 21 47 | 0 50 | 21 9  | 6 52 | 12 11 | 0 54 | 21 23 | 1 31 | 10 41 | 0 34 | 11 19 |
| F 15 | 14 10 | 26 45 | 4 59 | 2 37  | 1 44 | 21 42 | 0 46 | 21 14 | 6 52 | 12 6  | 0 54 | 21 24 | 1 32 | 10 40 | 0 34 | 11 18 |
| S 16 | 13 52 | 27 41 | 4 23 | 2 4   | 1 54 | 21 36 | 0 43 | 21 18 | 6 51 | 12 2  | 0 54 | 21 24 | 1 32 | 10 40 | 0 34 | 11 18 |
| S 17 | 13 33 | 26 45 | 3 30 | 1 32  | 2 4  | 21 30 | 0 40 | 21 22 | 6 50 | 11 57 | 0 54 | 21 24 | 1 32 | 10 40 | 0 34 | 11 17 |
| M 18 | 13 13 | 23 56 | 2 23 | 1 1   | 2 15 | 21 23 | 0 37 | 21 26 | 6 49 | 11 53 | 0 54 | 21 25 | 1 32 | 10 40 | 0 34 | 11 16 |
| T 19 | 12 54 | 19 27 | 1 4  | 0 32  | 2 25 | 21 16 | 0 33 | 21 30 | 6 48 | 11 48 | 0 54 | 21 25 | 1 32 | 10 40 | 0 34 | 11 15 |
| W 20 | 12 34 | 13 40 | 0n20 | 0 4   | 2 35 | 21 8  | 0 30 | 21 34 | 6 46 | 11 43 | 0 54 | 21 25 | 1 32 | 10 39 | 0 34 | 11 14 |
| T 21 | 12 14 | 7 6   | 1 42 | 0s23  | 2 45 | 20 59 | 0 27 | 21 37 | 6 45 | 11 39 | 0 54 | 21 26 | 1 32 | 10 39 | 0 34 | 11 14 |
| F 22 | 11 54 | 0 15  | 2 56 | 0 49  | 2 55 | 20 50 | 0 23 | 21 40 | 6 43 | 11 34 | 0 54 | 21 26 | 1 32 | 10 39 | 0 34 | 11 13 |
| S 23 | 11 34 | 6n28  | 3 56 | 1 12  | 3 5  | 20 40 | 0 20 | 21 42 | 6 41 | 11 30 | 0 54 | 21 26 | 1 32 | 10 38 | 0 34 | 11 12 |
| S 24 | 11 14 | 12 39 | 4 41 | 1 34  | 3 14 | 20 30 | 0 17 | 21 45 | 6 39 | 11 25 | 0 54 | 21 26 | 1 32 | 10 38 | 0 34 | 11 11 |
| M 25 | 10 53 | 18 1  | 5 7  | 1 54  | 3 23 | 20 19 | 0 14 | 21 47 | 6 37 | 11 20 | 0 54 | 21 27 | 1 32 | 10 38 | 0 34 | 11 10 |
| T 26 | 10 32 | 22 21 | 5 17 | 2 11  | 3 32 | 20 8  | 0 10 | 21 48 | 6 34 | 11 16 | 0 55 | 21 27 | 1 32 | 10 37 | 0 34 | 11 10 |
| W 27 | 10 11 | 25 27 | 5 10 | 2 27  | 3 40 | 19 56 | 0 7  | 21 50 | 6 31 | 11 11 | 0 55 | 21 27 | 1 33 | 10 37 | 0 34 | 11 9  |
| T 28 | 9 50  | 27 13 | 4 48 | 2 40  | 3 48 | 19 43 | 0 4  | 21 51 | 6 29 | 11 6  | 0 55 | 21 27 | 1 33 | 10 36 | 0 34 | 11 8  |
| F 29 | 9 29  | 27 38 | 4 14 | 2 50  | 3 55 | 19 30 | 0 1  | 21 51 | 6 26 | 11 2  | 0 55 | 21 28 | 1 33 | 10 36 | 0 35 | 11 7  |
| S 30 | 9 7   | 26 44 | 3 29 | 2 57  | 4 2  | 19 16 | 0n 2 | 21 52 | 6 23 | 10 57 | 0 55 | 21 28 | 1 33 | 10 36 | 0 35 | 11 6  |
| S 31 | 8n46  | 24n37 | 2n36 | 3s 1  | 4s 7 | 19n 2 | 0n 5 | 21s52 | 6s19 | 10n52 | 0n55 | 21n28 | 1s33 | 10n35 | 0s35 | 11n 6 |

Julian Day Number = 2366290.5, Delta T = 20.45 sec  
Ecliptic obliquity = 23°28'17, Nutation = 0°00'12, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 21°28'53, Lahiri = 20°35'54Greg. Calendar

## ASTRODIENST EPHEMERIS for the year 1766

geocentric

SEPTEMBER 1766

00:00 UT

| Day | Sid.t    | ☉                     | ☽                   | ♂                   | ♀                   | ♂                   | ♂                   | ♂                   | ♂      | ♂                  | ♂                  | ♂                 | ♂                  | ♂                  | ♂                  | Day |
|-----|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|-----|
| M 1 | 22 40 35 | 8 <sup>h</sup> 28'38" | 1 <sup>h</sup> 21'  | 27°R57              | 6 <sup>h</sup> 23'  | 16°R35              | 4 <sup>h</sup> 19'  | 18 <sup>h</sup> 59' | 28°R57 | 2 <sup>h</sup> 57' | 7°R24              | 19 <sup>h</sup> 4 | 17 <sup>h</sup> 58 | 9 <sup>h</sup> 8   | 10°R16             | M 1 |
| T 2 | 22 44 32 | 9°26'49"              | 13° 9'              | 27 <sup>h</sup> 42' | 7°49'               | 16 <sup>h</sup> 26' | 4°32'               | 19° 2'              | 28°Y56 | 2°59'              | 7 <sup>h</sup> 23' | 19°R 5            | 17°55              | 9°15               | 10 <sup>h</sup> 13 | T 2 |
| W 3 | 22 48 29 | 10°25'03"             | 24°59'              | 27°20'              | 9° 1'               | 16°18'              | 4°45'               | 19° 5'              | 28°54' | 3° 2'              | 7°23'              | 19° 5'            | 17°52              | 9°22               | 10°11              | W 3 |
| T 4 | 22 52 25 | 11°23'18"             | 6 <sup>h</sup> 55'  | 26°53'              | 10°13'              | 16°11'              | 4°58'               | 19° 8'              | 28°53' | 3° 4'              | 7°22'              | 19° 4'            | 17°48              | 9°28               | 10° 8'             | T 4 |
| F 5 | 22 56 22 | 12°21'36"             | 18°58'              | 26°19'              | 11°25'              | 16° 5'              | 5°11'               | 19°11'              | 28°52' | 3° 6'              | 7°22'              | 19° 2'            | 17°45              | 9°35               | 10° 5'             | F 5 |
| S 6 | 23 0 18  | 13°19'54"             | 1 <sup>h</sup> 11'  | 25°38'              | 12°38'              | 15°59'              | 5°24'               | 19°14'              | 28°50' | 3° 8'              | 7°22'              | 18°59'            | 17°42              | 9°41               | 10° 2'             | S 6 |
| S 7 | 23 4 15  | 14°18'15"             | 13°35'              | 24°52'              | 13°50'              | 15°55'              | 5°37'               | 19°17'              | 28°49' | 3°10'              | 7°21'              | 18°55'            | 17°39              | 9°48               | 9°59               | S 7 |
| M 8 | 23 8 11  | 15°16'37"             | 26°11'              | 24° 1'              | 15° 3'              | 15°51'              | 5°50'               | 19°19'              | 28°47' | 3°13'              | 7°21'              | 18°50'            | 17°36              | 9°55               | 9°56               | M 8 |
| T 9 | 23 12 8  | 16°15'01"             | 9 <sup>h</sup> 0'   | 23° 6'              | 16°15'              | 15°48'              | 6° 3'               | 19°22'              | 28°45' | 3°15'              | 7°21'              | 18°46'            | 17°32              | 10° 1'             | 9°53               | T 9 |
| W10 | 23 16 4  | 17°13'27"             | 22° 4'              | 22° 7'              | 17°28'              | 15°45'              | 6°16'               | 19°24'              | 28°44' | 3°17'              | 7°20'              | 18°43'            | 17°29              | 10° 8'             | 9°50               | W10 |
| T11 | 23 20 1  | 18°11'55"             | 5 <sup>h</sup> 24'  | 21° 5'              | 18°40'              | 15°44'              | 6°29'               | 19°26'              | 28°42' | 3°19'              | 7°20'              | 18°41'            | 17°26              | 10°15              | 9°48               | T11 |
| F12 | 23 23 58 | 19°10'24"             | 19° 1'              | 20° 3'              | 19°53'              | 15°D43              | 6°42'               | 19°29'              | 28°40' | 3°21'              | 7°20'              | 18°D41            | 17°23              | 10°21              | 9°45               | F12 |
| S13 | 23 27 54 | 20° 8'54"             | 2 <sup>h</sup> 57'  | 19° 1'              | 21° 6'              | 15°43'              | 6°55'               | 19°31'              | 28°39' | 3°23'              | 7°20'              | 18°41'            | 17°20              | 10°28              | 9°42               | S13 |
| S14 | 23 31 51 | 21° 7'27"             | 17°10'              | 18° 1'              | 22°19'              | 15°44'              | 7° 7'               | 19°33'              | 28°37' | 3°26'              | 7°19'              | 18°42'            | 17°17              | 10°35              | 9°39               | S14 |
| M15 | 23 35 47 | 22° 6'00"             | 1 <sup>h</sup> 39'  | 17° 4'              | 23°32'              | 15°46'              | 7°20'               | 19°35'              | 28°35' | 3°28'              | 7°19'              | 18°44'            | 17°13              | 10°41              | 9°36               | M15 |
| T16 | 23 39 44 | 23° 4'36"             | 16°21'              | 16°12'              | 24°45'              | 15°48'              | 7°33'               | 19°37'              | 28°33' | 3°30'              | 7°19'              | 18°R45            | 17°10              | 10°48              | 9°33               | T16 |
| W17 | 23 43 40 | 24° 3'13"             | 1 <sup>h</sup> 11'  | 15°26'              | 25°58'              | 15°51'              | 7°46'               | 19°38'              | 28°31' | 3°32'              | 7°19'              | 18°44'            | 17° 7'             | 10°55              | 9°31               | W17 |
| T18 | 23 47 37 | 25° 1'52"             | 16° 2'              | 14°48'              | 27°11'              | 15°56'              | 7°59'               | 19°40'              | 28°30' | 3°34'              | 7°19'              | 18°42'            | 17° 4'             | 11° 1'             | 9°28               | T18 |
| F19 | 23 51 33 | 26° 0'33"             | 0 <sup>h</sup> Y46  | 14°18'              | 28°24'              | 16° 0'              | 8°11'               | 19°41'              | 28°28' | 3°36'              | 7°D19              | 18°38'            | 17° 1'             | 11° 8'             | 9°25               | F19 |
| S20 | 23 55 30 | 26°59'16"             | 15°17'              | 13°57'              | 29°38'              | 16° 6'              | 8°24'               | 19°43'              | 28°26' | 3°38'              | 7°19'              | 18°32'            | 16°57              | 11°15              | 9°23               | S20 |
| S21 | 23 59 27 | 27°58'00"             | 29°26'              | 13°45'              | 0 <sup>h</sup> 51'  | 16°12'              | 8°37'               | 19°44'              | 28°24' | 3°40'              | 7°19'              | 18°26'            | 16°54              | 11°21              | 9°20               | S21 |
| M22 | 0 3 23   | 28°56'48"             | 13 <sup>h</sup> 11' | 13°D44              | 2° 4'               | 16°20'              | 8°49'               | 19°45'              | 28°22' | 3°42'              | 7°19'              | 18°20'            | 16°51              | 11°28              | 9°17               | M22 |
| T23 | 0 7 20   | 29°55'37"             | 26°30'              | 13°53'              | 3°18'               | 16°28'              | 9° 2'               | 19°46'              | 28°20' | 3°44'              | 7°19'              | 18°15'            | 16°48              | 11°34              | 9°15               | T23 |
| W24 | 0 11 16  | 0 <sup>h</sup> 54'29" | 9 <sup>h</sup> 24'  | 14°12'              | 4°31'               | 16°36'              | 9°14'               | 19°47'              | 28°17' | 3°47'              | 7°19'              | 18°11'            | 16°45              | 11°41              | 9°12               | W24 |
| T25 | 0 15 13  | 1°53'23"              | 21°55'              | 14°40'              | 5°45'               | 16°46'              | 9°27'               | 19°48'              | 28°15' | 3°49'              | 7°19'              | 18° 8'            | 16°42              | 11°48              | 9° 9'              | T25 |
| F26 | 0 19 9   | 2°52'19"              | 4 <sup>h</sup> 7'   | 15°18'              | 6°58'               | 16°56'              | 9°39'               | 19°49'              | 28°13' | 3°51'              | 7°20'              | 18°D 8            | 16°38              | 11°54              | 9° 7'              | F26 |
| S27 | 0 23 6   | 3°51'17"              | 16° 6'              | 16° 4'              | 8°12'               | 17° 7'              | 9°52'               | 19°49'              | 28°11' | 3°53'              | 7°20'              | 18° 8'            | 16°35              | 12° 1'             | 9° 4'              | S27 |
| S28 | 0 27 2   | 4°50'18"              | 27°56'              | 16°59'              | 9°26'               | 17°18'              | 10° 4'              | 19°50'              | 28° 9' | 3°55'              | 7°20'              | 18°10'            | 16°32              | 12° 8'             | 9° 2'              | S28 |
| M29 | 0 30 59  | 5°49'21"              | 9 <sup>h</sup> 24'  | 18° 1'              | 10°40'              | 17°30'              | 10°17'              | 19°50'              | 28° 7' | 3°56'              | 7°20'              | 18°11'            | 16°29              | 12°14              | 8°59               | M29 |
| T30 | 0 34 56  | 6 <sup>h</sup> 48'27" | 21 <sup>h</sup> 23' | 19 <sup>h</sup> 9'  | 11 <sup>h</sup> 53' | 17 <sup>h</sup> 43' | 10 <sup>h</sup> 29' | 19 <sup>h</sup> 51' | 28°Y 4 | 3 <sup>h</sup> 58' | 7 <sup>h</sup> 21' | 18°R11            | 16 <sup>h</sup> 26 | 12 <sup>h</sup> 21 | 8 <sup>h</sup> 57  | T30 |

| 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 | 8n24 | 21n27 | 1n36 | 3s 2 | 4s12 | 18n47 | 0n 8 | 21s51 | 6s16 | 10n47 | 0n55 | 21n28 | 1s33 | 10n35 | 0s35 | 11n 5 | 0n42 | 20s42 | 2n34 | 15s 8 | 15s28 | 18n45 | 2s39 | 5n29 |     |
| T 2 | 8 2  | 17 25 | 0 33 | 2 59 | 4 15 | 18 31 | 0 11 | 21 51 | 6 13 | 10 43 | 0 55 | 21 28 | 1 33 | 10 34 | 0 35 | 11 4  | 0 42 | 20 42 | 2 34 | 15 7  | 15 29 | 18 43 | 2 40 | 5 29 |     |
| W 3 | 7 40 | 12 42 | 0s32 | 2 53 | 4 17 | 18 15 | 0 14 | 21 50 | 6 9  | 10 38 | 0 55 | 21 29 | 1 33 | 10 34 | 0 35 | 11 3  | 0 42 | 20 43 | 2 33 | 15 7  | 15 30 | 18 40 | 2 41 | 5 29 |     |
| T 4 | 7 18 | 7 29  | 1 37 | 2 42 | 4 18 | 17 59 | 0 17 | 21 49 | 6 5  | 10 33 | 0 55 | 21 29 | 1 33 | 10 33 | 0 35 | 11 2  | 0 42 | 20 43 | 2 33 | 15 8  | 15 31 | 18 38 | 2 43 | 5 29 |     |
| F 5 | 6 56 | 1 58  | 2 37 | 2 28 | 4 18 | 17 42 | 0 20 | 21 47 | 6 2  | 10 29 | 0 55 | 21 29 | 1 33 | 10 33 | 0 35 | 11 2  | 0 42 | 20 43 | 2 33 | 15 8  | 15 32 | 18 35 | 2 44 | 5 28 |     |
| S 6 | 6 34 | 3s42  | 3 31 | 2 10 | 4 16 | 17 25 | 0 23 | 21 45 | 5 58 | 10 24 | 0 55 | 21 29 | 1 33 | 10 32 | 0 35 | 11 1  | 0 42 | 20 43 | 2 33 | 15 9  | 15 33 | 18 32 | 2 45 | 5 28 |     |
| S 7 | 6 11 | 9 18  | 4 16 | 1 48 | 4 11 | 17 7  | 0 26 | 21 43 | 5 54 | 10 19 | 0 55 | 21 29 | 1 34 | 10 32 | 0 35 | 11 0  | 0 42 | 20 43 | 2 33 | 15 11 | 15 34 | 18 30 | 2 46 | 5 28 |     |
| M 8 | 5 49 | 14 37 | 4 49 | 1 23 | 4 6  | 16 48 | 0 29 | 21 40 | 5 50 | 10 15 | 0 55 | 21 29 | 1 34 | 10 31 | 0 35 | 10 59 | 0 42 | 20 44 | 2 33 | 15 12 | 15 35 | 18 27 | 2 47 | 5 28 |     |
| T 9 | 5 26 | 19 23 | 5 9  | 0 54 | 3 58 | 16 29 | 0 31 | 21 37 | 5 46 | 10 10 | 0 55 | 21 29 | 1 34 | 10 30 | 0 35 | 10 59 | 0 42 | 20 44 | 2 32 | 15 13 | 15 36 | 18 25 | 2 48 | 5 28 |     |
| W10 | 5 3  | 23 20 | 5 13 | 0 21 | 3 48 | 16 10 | 0 34 | 21 34 | 5 42 | 10 5  | 0 56 | 21 29 | 1 34 | 10 30 | 0 35 | 10 58 | 0 42 | 20 44 | 2 32 | 15 14 | 15 37 | 18 22 | 2 49 | 5 28 |     |
| T11 | 4 40 | 26 9  | 5 0  | 0n13 | 3 36 | 15 50 | 0 37 | 21 30 | 5 37 | 10 0  | 0 56 | 21 29 | 1 34 | 10 29 | 0 35 | 10 57 | 0 42 | 20 44 | 2 32 | 15 15 | 15 38 | 18 19 | 2 51 | 5 28 |     |
| F12 | 4 17 | 27 31 | 4 31 | 0 50 | 3 23 | 15 30 | 0 39 | 21 27 | 5 33 | 9 56  | 0 56 | 21 30 | 1 34 | 10 29 | 0 35 | 10 56 | 0 42 | 20 44 | 2 32 | 15 15 | 15 39 | 18 17 | 2 52 | 5 28 |     |
| S13 | 3 54 | 27 11 | 3 45 | 1 29 | 3 8  | 15 9  | 0 42 | 21 22 | 5 29 | 9 51  | 0 56 | 21 30 | 1 34 | 10 28 | 0 35 | 10 55 | 0 42 | 20 45 | 2 32 | 15 15 | 15 40 | 18 14 | 2 53 | 5 28 |     |
| S14 | 3 31 | 25 5  | 2 44 | 2 7  | 2 51 | 14 48 | 0 44 | 21 18 | 5 25 | 9 46  | 0 56 | 21 30 | 1 34 | 10 27 | 0 35 | 10 55 | 0 42 | 20 45 | 2 32 | 15 14 | 15 41 | 18 11 | 2 54 | 5 27 |     |
| M15 | 3 8  | 21 19 | 1 32 | 2 46 | 2 33 | 14 26 | 0 47 | 21 13 | 5 20 | 9 42  | 0 56 | 21 30 | 1 34 | 10 27 | 0 35 | 10 54 | 0 42 | 20 45 | 2 31 | 15 14 | 15 42 | 18 9  | 2 55 | 5 27 |     |
| T16 | 2 45 | 16 10 | 0 13 | 3 24 | 2 14 | 14 4  | 0 49 | 21 8  | 5 16 | 9 37  | 0 56 | 21 30 | 1 34 | 10 26 | 0 35 | 10 53 | 0 42 | 20 45 | 2 31 | 15 14 | 15 43 | 18 6  | 2 56 | 5 27 |     |
| W17 | 2 22 | 10 1  | 1n 7 | 4 0  | 1 54 | 13 41 | 0 52 | 21 3  | 5 11 | 9 32  | 0 56 | 21 30 | 1 34 | 10 25 | 0 35 | 10 52 | 0 42 | 20 45 | 2 31 | 15 14 | 15 44 | 18 3  | 2 58 | 5 27 |     |
| T18 | 1 59 | 3 19  | 2 23 | 4 33 | 1 34 | 13 19 | 0 54 | 20 58 | 5 7  | 9 28  | 0 56 | 21 30 | 1 35 | 10 25 | 0 35 | 10 52 | 0 42 | 20 46 | 2 31 | 15 14 | 15 45 | 18 1  | 2 59 | 5 27 |     |
| F19 | 1 35 | 3n30  | 3 29 | 5 3  | 1 14 | 12 55 | 0 56 | 20 52 | 5 3  | 9 23  | 0 56 | 21 30 | 1 35 | 10 24 | 0 35 | 10 51 | 0 42 | 20 46 | 2 31 | 15 16 | 15 45 | 17 58 | 3 0  | 5 27 |     |
| S20 | 1 12 | 10 1  | 4 20 | 5 29 | 0 54 | 12 32 | 0 58 | 20 46 | 4 58 | 9 18  | 0 56 | 21 30 | 1 35 | 10 23 | 0 35 | 10 50 | 0 42 | 20 46 | 2 31 | 15 17 | 15 46 | 17 55 | 3 1  | 5 27 |     |
| S21 | 0 49 | 15 51 | 4 53 | 5 51 | 0 35 | 12 8  | 1 1  | 20 40 | 4 54 | 9 14  | 0 56 | 21 30 | 1 35 | 10 23 | 0 35 | 10 50 | 0 42 | 20 46 | 2 30 | 15 19 | 15 47 | 17 53 | 3 2  | 5 26 |     |
| M22 | 0 25 | 20 43 | 5 9  | 6 9  | 0 17 | 11 43 | 1 3  | 20 33 | 4 49 | 9 9   | 0 57 | 21 30 | 1 35 | 10 22 | 0 35 | 10 49 | 0 42 | 20 46 | 2 30 | 15 21 | 15 48 | 17 50 | 3 3  | 5 26 |     |
| T23 | 0 2  | 24 22 | 5 7  | 6 22 | 0n 1 | 11 19 | 1 5  | 20 27 | 4 45 | 9 4   | 0 57 | 21 30 | 1 35 | 10 21 | 0 35 | 10 48 | 0 42 | 20 46 | 2 30 | 15 23 | 15 49 | 17 47 | 3 5  | 5 26 |     |
| W24 | 0s22 | 26 39 | 4 49 | 6 30 | 0 17 | 10 54 | 1 6  | 20 20 | 4 40 | 9 0   | 0 57 | 21 30 | 1 35 | 10 20 | 0 35 | 10 47 | 0 42 | 20 47 | 2 30 | 15 24 | 15 50 | 17 45 | 3 6  | 5 26 |     |
| T25 | 0 45 | 27 31 | 4 18 | 6 33 | 0 33 | 10 29 | 1 8  | 20 13 | 4 36 | 8 55  | 0 57 | 21 30 | 1 35 | 10 20 | 0 35 | 10 47 | 0 42 | 20 47 | 2 30 | 15 25 | 15 51 | 17 42 | 3 7  | 5 26 |     |
| F26 | 1 9  | 27 0  | 3 36 | 6 31 | 0 47 | 10 3  | 1 10 | 20 5  | 4 31 | 8 50  | 0 57 | 21 30 | 1 35 | 10 19 | 0 35 | 10 46 | 0 42 | 20 47 | 2 29 | 15 25 | 15 52 | 17 39 | 3 8  | 5 26 |     |
| S27 | 1 32 | 25 14 | 2 45 | 6 25 | 1 0  | 9 37  | 1 12 | 19 58 | 4 27 | 8 46  | 0 57 | 21 30 | 1 35 | 10 18 | 0 35 | 10 45 | 0 42 | 20 47 | 2 29 | 15 25 | 15 53 | 17 36 | 3 9  | 5 25 |     |
| S28 | 1 56 | 22 21 | 1 47 | 6 14 | 1 11 | 9 11  | 1 14 | 19 50 | 4 23 | 8 41  | 0 57 | 21 30 | 1 36 | 10 17 | 0 35 | 10 44 | 0 42 | 20 47 | 2 29 | 15 24 | 15 54 | 17 34 | 3 10 | 5 25 |     |
| M29 | 2 19 | 18 4  | 0 46 | 5 59 | 1 11 | 8 44  | 1 15 | 19 42 | 4 18 | 8 37  | 0 57 | 21 30 | 1 36 | 10 16 | 0 35 | 10 44 | 0 42 | 20 47 | 2 29 | 15 24 | 15 55 | 17 31 | 3 11 | 5 25 |     |
| T30 | 2s42 | 14n 4 | 0s18 | 5n40 | 1n30 | 8n18  | 1n17 | 19s34 | 4s14 | 8n32  | 0n57 | 21n30 | 1s36 | 10n16 | 0s35 | 10n43 | 0n42 | 20s48 | 2n29 | 15s24 | 15s56 | 17n28 | 3s12 | 5n25 |     |

ASTRODIENST EPHEMERIS for the year 1766  
geocentric

OCTOBER 1766

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♂     | ♀     | ♂     | ♂     | ♂       | ♂      | ♂    | ♂    | ♂      | ♂     | ♂     | ♂     | Day  |
|------|---------|----------|-------|-------|-------|-------|-------|---------|--------|------|------|--------|-------|-------|-------|------|
| W 1  | 0 38 52 | 7♏47'34  | 3♏26  | 20♏24 | 13♏7  | 17♏57 | 10♏41 | 19♏51   | 28°R 2 | 4♏0  | 7♏21 | 18°R10 | 16♏23 | 12♏28 | 8°R54 | W 1  |
| T 2  | 0 42 49 | 8°46'44  | 15°30 | 21°44 | 14°21 | 18°11 | 10°53 | 19°R51  | 28°Y 0 | 4°2  | 7°22 | 18°6   | 16°19 | 12°34 | 8°52  | T 2  |
| F 3  | 0 46 45 | 9°45'55  | 27°45 | 23°9  | 15°35 | 18°26 | 11°6  | 19°51   | 27°58  | 4°4  | 7°22 | 18°0   | 16°16 | 12°41 | 8°49  | F 3  |
| S 4  | 0 50 42 | 10°45'09 | 10♏14 | 24°38 | 16°49 | 18°41 | 11°18 | 19°51   | 27°55  | 4°6  | 7°22 | 17°53  | 16°13 | 12°48 | 8°47  | S 4  |
| S 5  | 0 54 38 | 11°44'25 | 22°56 | 26°10 | 18°3  | 18°58 | 11°30 | 19°50   | 27°53  | 4°8  | 7°23 | 17°43  | 16°10 | 12°54 | 8°45  | S 5  |
| M 6  | 0 58 35 | 12°43'43 | 5♏52  | 27°45 | 19°18 | 19°14 | 11°42 | 19°50   | 27°51  | 4°10 | 7°23 | 17°33  | 16°7  | 13°1  | 8°43  | M 6  |
| T 7  | 1 2 31  | 13°43'03 | 19°2  | 29°22 | 20°32 | 19°32 | 11°54 | 19°49   | 27°48  | 4°12 | 7°24 | 17°23  | 16°3  | 13°7  | 8°40  | T 7  |
| W 8  | 1 6 28  | 14°42'25 | 2♏23  | 1♏1   | 21°46 | 19°50 | 12°6  | 19°49   | 27°46  | 4°13 | 7°24 | 17°15  | 16°0  | 13°14 | 8°38  | W 8  |
| T 9  | 1 10 24 | 15°41'49 | 15°55 | 2°41  | 23°0  | 20°8  | 12°18 | 19°48   | 27°44  | 4°15 | 7°25 | 17°9   | 15°57 | 13°21 | 8°36  | T 9  |
| F 10 | 1 14 21 | 16°41'14 | 29°38 | 4°23  | 24°15 | 20°27 | 12°30 | 19°47   | 27°41  | 4°17 | 7°26 | 17°6   | 15°54 | 13°27 | 8°34  | F 10 |
| S 11 | 1 18 18 | 17°40'42 | 13♏31 | 6°5   | 25°29 | 20°47 | 12°41 | 19°46   | 27°39  | 4°19 | 7°26 | 17°D 4 | 15°51 | 13°34 | 8°32  | S 11 |
| S 12 | 1 22 14 | 18°40'11 | 27°33 | 7°48  | 26°43 | 21°7  | 12°53 | 19°45   | 27°36  | 4°20 | 7°27 | 17°5   | 15°48 | 13°41 | 8°30  | S 12 |
| M13  | 1 26 11 | 19°39'42 | 11♏45 | 9°31  | 27°58 | 21°28 | 13°5  | 19°44   | 27°34  | 4°22 | 7°28 | 17°R 5 | 15°44 | 13°47 | 8°28  | M13  |
| T 14 | 1 30 7  | 20°39'14 | 26°5  | 11°15 | 29°12 | 21°49 | 13°16 | 19°43   | 27°32  | 4°24 | 7°28 | 17°5   | 15°41 | 13°54 | 8°26  | T 14 |
| W15  | 1 34 4  | 21°38'48 | 10♏30 | 12°58 | 0♏27  | 22°11 | 13°28 | 19°42   | 27°29  | 4°25 | 7°29 | 17°3   | 15°38 | 14°1  | 8°24  | W15  |
| T 16 | 1 38 0  | 22°38'24 | 24°56 | 14°41 | 1°41  | 22°33 | 13°39 | 19°40   | 27°27  | 4°27 | 7°30 | 16°58  | 15°35 | 14°7  | 8°22  | T 16 |
| F 17 | 1 41 57 | 23°38'02 | 9°Y19 | 16°25 | 2°56  | 22°56 | 13°51 | 19°38   | 27°24  | 4°29 | 7°31 | 16°51  | 15°32 | 14°14 | 8°20  | F 17 |
| S 18 | 1 45 53 | 24°37'41 | 23°32 | 18°7  | 4°10  | 23°19 | 14°2  | 19°37   | 27°22  | 4°30 | 7°32 | 16°41  | 15°29 | 14°21 | 8°19  | S 18 |
| S 19 | 1 49 50 | 25°37'23 | 7♏30  | 19°50 | 5°25  | 23°43 | 14°13 | 19°35   | 27°19  | 4°32 | 7°33 | 16°30  | 15°25 | 14°27 | 8°17  | S 19 |
| M20  | 1 53 47 | 26°37'07 | 21°9  | 21°32 | 6°40  | 24°7  | 14°24 | 19°33   | 27°17  | 4°33 | 7°34 | 16°18  | 15°22 | 14°34 | 8°15  | M20  |
| T 21 | 1 57 43 | 27°36'53 | 4♏25  | 23°14 | 7°54  | 24°31 | 14°36 | 19°31   | 27°14  | 4°35 | 7°34 | 16°8   | 15°19 | 14°41 | 8°14  | T 21 |
| W22  | 2 1 40  | 28°36'41 | 17°18 | 24°55 | 9°9   | 24°56 | 14°47 | 19°29   | 27°12  | 4°36 | 7°35 | 15°59  | 15°16 | 14°47 | 8°12  | W22  |
| T 23 | 2 5 36  | 29°36'31 | 29°50 | 26°36 | 10°24 | 25°22 | 14°58 | 19°27   | 27°9   | 4°38 | 7°36 | 15°53  | 15°13 | 14°54 | 8°11  | T 23 |
| F 24 | 2 9 33  | 0♏36'24  | 12♏3  | 28°16 | 11°39 | 25°47 | 15°8  | 19°24   | 27°7   | 4°39 | 7°37 | 15°49  | 15°9  | 15°0  | 8°9   | F 24 |
| S 25 | 2 13 29 | 1°36'19  | 24°3  | 29°56 | 12°54 | 26°13 | 15°19 | 19°22   | 27°5   | 4°41 | 7°39 | 15°47  | 15°6  | 15°7  | 8°8   | S 25 |
| S 26 | 2 17 26 | 2°36'15  | 5♏53  | 1♏35  | 14°8  | 26°40 | 15°30 | 19°20   | 27°2   | 4°42 | 7°40 | 15°D47 | 15°3  | 15°14 | 8°6   | S 26 |
| M27  | 2 21 22 | 3°36'14  | 17°41 | 3°14  | 15°23 | 27°7  | 15°41 | 19°17   | 27°0   | 4°43 | 7°41 | 15°R47 | 15°0  | 15°20 | 8°5   | M27  |
| T 28 | 2 25 19 | 4°36'16  | 29°31 | 4°52  | 16°38 | 27°34 | 15°51 | 19°14   | 26°57  | 4°45 | 7°42 | 15°47  | 14°57 | 15°27 | 8°4   | T 28 |
| W29  | 2 29 16 | 5°36'19  | 11♏28 | 6°30  | 17°53 | 28°1  | 16°2  | 19°11   | 26°55  | 4°46 | 7°43 | 15°44  | 14°54 | 15°34 | 8°3   | W29  |
| T 30 | 2 33 12 | 6°36'24  | 23°38 | 8°7   | 19°8  | 28°29 | 16°12 | 19°9    | 26°52  | 4°47 | 7°44 | 15°39  | 14°50 | 15°40 | 8°2   | T 30 |
| F 31 | 2 37 9  | 7♏36'31  | 6♏3   | 9♏44  | 20♏23 | 28°57 | 16°22 | 19°II 6 | 26°Y50 | 4♏48 | 7♏45 | 15°31  | 14°47 | 15°47 | 8°X 0 | 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 | decl lat |
| W 1  | 3s 6  | 9n 0     | 1s21     | 5n18     | 1n37     | 7n51     | 1n18     | 19s26    | 4s10     | 8n27     | 0n58     | 21n29    | 1s36     | 10n15    | 0s35     | 10n42    | 0n42     |
| T 2  | 3 29  | 3 33     | 2 22     | 4 52     | 1 43     | 7 23     | 1 20     | 19 17    | 4 5      | 8 23     | 0 58     | 21 29    | 1 36     | 10 14    | 0 35     | 10 42    | 0 42     |
| F 3  | 3 52  | 2s 6     | 3 16     | 4 23     | 1 48     | 6 56     | 1 21     | 19 8     | 4 1      | 8 18     | 0 58     | 21 29    | 1 36     | 10 13    | 0 35     | 10 41    | 0 42     |
| S 4  | 4 16  | 7 46     | 4 2      | 3 51     | 1 52     | 6 28     | 1 22     | 19 0     | 3 57     | 8 14     | 0 58     | 21 29    | 1 36     | 10 12    | 0 35     | 10 40    | 0 42     |
| S 5  | 4 39  | 13 13    | 4 37     | 3 17     | 1 55     | 6 0      | 1 23     | 18 50    | 3 53     | 8 9      | 0 58     | 21 29    | 1 36     | 10 12    | 0 35     | 10 40    | 0 42     |
| M 6  | 5 2   | 18 11    | 4 59     | 2 41     | 1 56     | 5 32     | 1 25     | 18 41    | 3 48     | 8 5      | 0 58     | 21 29    | 1 36     | 10 11    | 0 35     | 10 39    | 0 42     |
| T 7  | 5 25  | 22 23    | 5 5      | 2 3      | 1 57     | 5 4      | 1 26     | 18 32    | 3 44     | 8 0      | 0 58     | 21 29    | 1 36     | 10 10    | 0 35     | 10 38    | 0 42     |
| W 8  | 5 48  | 25 29    | 4 55     | 1 23     | 1 57     | 4 36     | 1 27     | 18 22    | 3 40     | 7 56     | 0 58     | 21 29    | 1 36     | 10 9     | 0 35     | 10 38    | 0 42     |
| T 9  | 6 11  | 27 10    | 4 28     | 0 43     | 1 57     | 4 7      | 1 27     | 18 12    | 3 36     | 7 51     | 0 59     | 21 29    | 1 37     | 10 8     | 0 35     | 10 37    | 0 42     |
| F 10 | 6 34  | 27 14    | 3 45     | 0 1      | 1 55     | 3 38     | 1 28     | 18 2     | 3 32     | 7 47     | 0 59     | 21 28    | 1 37     | 10 7     | 0 35     | 10 37    | 0 42     |
| S 11 | 6 57  | 25 36    | 2 49     | 0s41     | 1 53     | 3 10     | 1 29     | 17 52    | 3 28     | 7 43     | 0 59     | 21 28    | 1 37     | 10 6     | 0 35     | 10 36    | 0 42     |
| S 12 | 7 20  | 22 21    | 1 42     | 1 25     | 1 50     | 2 41     | 1 30     | 17 42    | 3 24     | 7 38     | 0 59     | 21 28    | 1 37     | 10 6     | 0 35     | 10 35    | 0 42     |
| M13  | 7 42  | 17 45    | 0 28     | 2 8      | 1 47     | 2 12     | 1 30     | 17 31    | 3 20     | 7 34     | 0 59     | 21 28    | 1 37     | 10 5     | 0 35     | 10 35    | 0 42     |
| T 14 | 8 5   | 12 6     | 0n48     | 2 52     | 1 43     | 1 43     | 1 31     | 17 21    | 3 16     | 7 30     | 0 59     | 21 28    | 1 37     | 10 4     | 0 35     | 10 34    | 0 42     |
| W15  | 8 27  | 5 46     | 2 1      | 3 36     | 1 39     | 1 13     | 1 31     | 17 10    | 3 12     | 7 25     | 0 59     | 21 28    | 1 37     | 10 3     | 0 35     | 10 34    | 0 42     |
| T 16 | 8 49  | 0n51     | 3 7      | 4 21     | 1 35     | 0 44     | 1 32     | 16 59    | 3 9      | 7 21     | 1 0      | 21 27    | 1 37     | 10 2     | 0 35     | 10 33    | 0 43     |
| F 17 | 9 11  | 7 23     | 4 1      | 5 5      | 1 30     | 0 15     | 1 32     | 16 48    | 3 5      | 7 17     | 1 0      | 21 27    | 1 37     | 10 1     | 0 35     | 10 32    | 0 43     |
| S 18 | 9 33  | 13 27    | 4 38     | 5 49     | 1 25     | 0s15     | 1 32     | 16 37    | 3 1      | 7 13     | 1 0      | 21 27    | 1 37     | 10 0     | 0 35     | 10 32    | 0 43     |
| S 19 | 9 55  | 18 44    | 4 59     | 6 33     | 1 19     | 0 44     | 1 33     | 16 25    | 2 58     | 7 8      | 1 0      | 21 27    | 1 37     | 9 59     | 0 35     | 10 31    | 0 43     |
| M20  | 10 17 | 22 54    | 5 1      | 7 16     | 1 14     | 1 14     | 1 33     | 16 14    | 2 54     | 7 4      | 1 0      | 21 27    | 1 37     | 9 59     | 0 35     | 10 31    | 0 43     |
| T 21 | 10 38 | 25 45    | 4 47     | 7 59     | 1 8      | 1 43     | 1 33     | 16 2     | 2 50     | 7 0      | 1 0      | 21 26    | 1 37     | 9 58     | 0 35     | 10 30    | 0 43     |
| W22  | 11 0  | 27 9     | 4 19     | 8 42     | 1 2      | 2 13     | 1 33     | 15 51    | 2 47     | 6 56     | 1 0      | 21 26    | 1 37     | 9 57     | 0 35     | 10 30    | 0 43     |
| T 23 | 11 21 | 27 7     | 3 39     | 9 25     | 0 55     | 2 42     | 1 33     | 15 39    | 2 43     | 6 52     | 1 1      | 21 26    | 1 38     | 9 56     | 0 35     | 10 29    | 0 43     |
| F 24 | 11 42 | 25 44    | 2 49     | 10 6     | 0 49     | 3 12     | 1 33     | 15 27    | 2 40     | 6 48     | 1 1      | 21 26    | 1 38     | 9 55     | 0 35     | 10 29    | 0 43     |
| S 25 | 12 3  | 23 11    | 1 53     | 10 48    | 0 43     | 3 41     | 1 32     | 15 15    | 2 36     | 6 44     | 1 1      | 21 25    | 1 38     | 9 54     | 0 35     | 10 28    | 0 43     |
| S 26 | 12 24 | 19 40    | 0 52     | 11 29    | 0 36     | 4 10     | 1 32     | 15 2     | 2 33     | 6 40     | 1 1      | 21 25    | 1 38     | 9 53     | 0 35     | 10 28    | 0 43     |
| M27  | 12 44 | 15 24    | 0s10     | 12 9     | 0 29     | 4 40     | 1 32     | 14 50    | 2 30     | 6 36     | 1 1      | 21 25    | 1 38     | 9 52     | 0 35     | 10 27    | 0 43     |
| T 28 | 13 4  | 10 32    | 1 12     | 12 48    | 0 23     | 5 9      | 1 31     | 14 37    | 2 26     | 6 32     | 1 1      | 21 25    | 1 38     | 9 52     | 0 35     | 10 27    | 0 43     |
| W29  | 13 24 | 5 15     | 2 12     | 13 27    | 0 16     | 5 38     | 1 31     | 14 25    | 2 23     | 6 28     | 1 2      | 21 24    | 1 38     | 9 51     | 0 35     | 10 26    | 0 43     |
| T 30 | 13 44 | 0s19     | 3 6      | 14 5     | 0 9      | 6 7      | 1 30     | 14 12    | 2 20     | 6 24     | 1 2      | 21 24    | 1 38     | 9 50     | 0 35     | 10 26    | 0 43     |
| F 31 | 14s 4 | 5s58     | 3s53     | 14s42    | 0n 3     | 6s36     | 1n29     | 13s59    | 2s17     | 6n20     | 1n 2     | 21n24    | 1s38     | 9n49     | 0s35     | 10n26    | 0n43     |

Julian Day Number = 2366351.5, Delta T = 20.49 sec  
Ecliptic obliquity = 23°28'18", Nutation = 0°00'11", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 21°29'02", Lahiri = 20°36'02Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1766  
geocentric

NOVEMBER 1766

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♂     | ♂     | ♂      | ♂      | ♂    | ♂    | ♂      | ♂     | ♂     | ♂     | Day  |
|------|---------|----------|-------|-------|-------|-------|-------|--------|--------|------|------|--------|-------|-------|-------|------|
| S 1  | 2 41 5  | 8♉36'41  | 18♊45 | 11♉20 | 21♊38 | 29♊26 | 16♉33 | 19°R 2 | 26°R48 | 4♉50 | 7♉47 | 15°R21 | 14♊44 | 15♊54 | 7°R59 | S 1  |
| S 2  | 2 45 2  | 9°36'52  | 1♉47  | 12°56 | 22°53 | 29°55 | 16°43 | 18♊59  | 26°Y45 | 4°51 | 7°48 | 15♊8   | 14°41 | 16° 0 | 7♉58  | S 2  |
| M 3  | 2 48 58 | 10°37'05 | 15° 6 | 14°32 | 24° 8 | 0♉24  | 16°53 | 18°56  | 26°43  | 4°52 | 7°49 | 14°55  | 14°38 | 16° 7 | 7°58  | M 3  |
| T 4  | 2 52 55 | 11°37'20 | 28°40 | 16° 7 | 25°24 | 0°53  | 17° 3 | 18°53  | 26°40  | 4°53 | 7°51 | 14°42  | 14°34 | 16°14 | 7°57  | T 4  |
| W 5  | 2 56 51 | 12°37'37 | 12♊26 | 17°42 | 26°39 | 1°23  | 17°12 | 18°49  | 26°38  | 4°54 | 7°52 | 14°31  | 14°31 | 16°20 | 7°56  | W 5  |
| T 6  | 3 0 48  | 13°37'55 | 26°21 | 19°17 | 27°54 | 1°53  | 17°22 | 18°46  | 26°36  | 4°55 | 7°53 | 14°22  | 14°28 | 16°27 | 7°55  | T 6  |
| F 7  | 3 4 45  | 14°38'15 | 10♉22 | 20°51 | 29° 9 | 2°24  | 17°32 | 18°42  | 26°33  | 4°56 | 7°55 | 14°17  | 14°25 | 16°33 | 7°54  | F 7  |
| S 8  | 3 8 41  | 15°38'36 | 24°25 | 22°25 | 0♉24  | 2°54  | 17°41 | 18°39  | 26°31  | 4°57 | 7°56 | 14°14  | 14°22 | 16°40 | 7°54  | S 8  |
| S 9  | 3 12 38 | 16°38'59 | 8♊30  | 23°58 | 1°39  | 3°25  | 17°51 | 18°35  | 26°29  | 4°58 | 7°58 | 14°13  | 14°19 | 16°47 | 7°53  | S 9  |
| M10  | 3 16 34 | 17°39'23 | 22°35 | 25°31 | 2°55  | 3°57  | 18° 0 | 18°31  | 26°27  | 4°59 | 7°59 | 14°13  | 14°15 | 16°53 | 7°53  | M10  |
| T 11 | 3 20 31 | 18°39'48 | 6♉40  | 27° 4 | 4°10  | 4°28  | 18° 9 | 18°27  | 26°24  | 5° 0 | 8° 1 | 14°12  | 14°12 | 17° 0 | 7°52  | T 11 |
| W12  | 3 24 27 | 19°40'15 | 20°43 | 28°37 | 5°25  | 5° 0  | 18°18 | 18°23  | 26°22  | 5° 1 | 8° 2 | 14°10  | 14° 9 | 17° 7 | 7°52  | W12  |
| T 13 | 3 28 24 | 20°40'43 | 4♉44  | 0♉ 9  | 6°40  | 5°32  | 18°27 | 18°19  | 26°20  | 5° 2 | 8° 4 | 14° 4  | 14° 6 | 17°13 | 7°51  | T 13 |
| F 14 | 3 32 20 | 21°41'12 | 18°40 | 1°41  | 7°56  | 6° 4  | 18°36 | 18°15  | 26°18  | 5° 3 | 8° 5 | 13°56  | 14° 3 | 17°20 | 7°51  | F 14 |
| S 15 | 3 36 17 | 22°41'42 | 2♉27  | 3°13  | 9°11  | 6°36  | 18°45 | 18°11  | 26°16  | 5° 3 | 8° 7 | 13°45  | 14° 0 | 17°27 | 7°51  | S 15 |
| S 16 | 3 40 14 | 23°42'15 | 16° 3 | 4°45  | 10°26 | 7° 9  | 18°53 | 18° 7  | 26°14  | 5° 4 | 8° 8 | 13°32  | 13°56 | 17°33 | 7°51  | S 16 |
| M17  | 3 44 10 | 24°42'48 | 29°24 | 6°16  | 11°42 | 7°41  | 19° 2 | 18° 2  | 26°12  | 5° 5 | 8°10 | 13°19  | 13°53 | 17°40 | 7°51  | M17  |
| T 18 | 3 48 7  | 25°43'23 | 12♊27 | 7°47  | 12°57 | 8°14  | 19°10 | 17°58  | 26° 9  | 5° 6 | 8°12 | 13° 7  | 13°50 | 17°47 | 7°D51 | T 18 |
| W19  | 3 52 3  | 26°44'00 | 25°12 | 9°18  | 14°12 | 8°47  | 19°18 | 17°54  | 26° 7  | 5° 6 | 8°13 | 12°57  | 13°47 | 17°53 | 7°51  | W19  |
| T 20 | 3 56 0  | 27°44'38 | 7♉40  | 10°49 | 15°28 | 9°21  | 19°27 | 17°49  | 26° 5  | 5° 7 | 8°15 | 12°49  | 13°44 | 18° 0 | 7°51  | T 20 |
| F 21 | 3 59 56 | 28°45'18 | 19°51 | 12°19 | 16°43 | 9°54  | 19°35 | 17°45  | 26° 4  | 5° 7 | 8°17 | 12°44  | 13°40 | 18° 7 | 7°51  | F 21 |
| S 22 | 4 3 53  | 29°46'00 | 1♉50  | 13°49 | 17°58 | 10°28 | 19°42 | 17°40  | 26° 2  | 5° 8 | 8°18 | 12°42  | 13°37 | 18°13 | 7°51  | S 22 |
| S 23 | 4 7 50  | 0♉46'43  | 13°40 | 15°19 | 19°14 | 11° 2 | 19°50 | 17°36  | 26° 0  | 5° 8 | 8°20 | 12°D41 | 13°34 | 18°20 | 7°51  | S 23 |
| M24  | 4 11 46 | 1°47'27  | 25°28 | 16°48 | 20°29 | 11°36 | 19°58 | 17°31  | 25°58  | 5° 9 | 8°22 | 12°42  | 13°31 | 18°26 | 7°51  | M24  |
| T 25 | 4 15 43 | 2°48'13  | 7♉17  | 18°17 | 21°45 | 12°10 | 20° 5 | 17°26  | 25°56  | 5° 9 | 8°24 | 12°R42 | 13°28 | 18°33 | 7°52  | T 25 |
| W26  | 4 19 39 | 3°49'01  | 19°15 | 19°46 | 23° 0 | 12°45 | 20°13 | 17°22  | 25°54  | 5°10 | 8°25 | 12°40  | 13°25 | 18°40 | 7°52  | W26  |
| T 27 | 4 23 36 | 4°49'50  | 1♉25  | 21°14 | 24°15 | 13°19 | 20°20 | 17°17  | 25°52  | 5°10 | 8°27 | 12°37  | 13°21 | 18°46 | 7°53  | T 27 |
| F 28 | 4 27 32 | 5°50'40  | 13°54 | 22°41 | 25°31 | 13°54 | 20°27 | 17°12  | 25°51  | 5°10 | 8°29 | 12°31  | 13°18 | 18°53 | 7°53  | F 28 |
| S 29 | 4 31 29 | 6°51'32  | 26°44 | 24° 8 | 26°46 | 14°29 | 20°34 | 17° 7  | 25°49  | 5°11 | 8°31 | 12°23  | 13°15 | 19° 0 | 7°54  | S 29 |
| S 30 | 4 35 25 | 7♉52'25  | 9♉56  | 25♉34 | 28♉ 2 | 15♉ 4 | 20♉41 | 17♊ 2  | 25°Y47 | 5♉11 | 8♉33 | 12♊12  | 13♊12 | 19♊ 6 | 7♉55  | 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  | 14s23 | 11s30 | 4s29 | 15s19 | 0s 4 | 7s 4  | 1n29 | 13s46 | 2s13 | 6n16 | 1n 2 | 21n23 | 1s38 | 9n48 | 0s35 | 10n25 | 0n43 | 20s51 | 2n23 | 16s15 | 16s26 | 16n 0 | 3s42 | 5n16 |     |      |     |
| S 2  | 14 43 | 16 40 | 4 52 | 15 55 | 0 11 | 7 33  | 1 28 | 13 33 | 2 10 | 6 13 | 1 2  | 21 23 | 1 38 | 9 47 | 0 35 | 10 25 | 0 43 | 20 52 | 2 23 | 16 19 | 16 27 | 15 57 | 3 43 | 5 15 |     |      |     |
| M 3  | 15 2  | 21 10 | 5 0  | 16 30 | 0 17 | 8 1   | 1 27 | 13 20 | 2 7  | 6 9  | 1 3  | 21 23 | 1 38 | 9 46 | 0 35 | 10 24 | 0 43 | 20 52 | 2 23 | 16 23 | 16 28 | 15 54 | 3 43 | 5 15 |     |      |     |
| T 4  | 15 20 | 24 37 | 4 51 | 17 4  | 0 24 | 8 30  | 1 26 | 13 6  | 2 4  | 6 5  | 1 3  | 21 22 | 1 38 | 9 46 | 0 35 | 10 24 | 0 43 | 20 52 | 2 23 | 16 27 | 16 29 | 15 51 | 3 44 | 5 15 |     |      |     |
| W 5  | 15 39 | 26 42 | 4 26 | 17 37 | 0 31 | 8 58  | 1 25 | 12 53 | 2 1  | 6 2  | 1 3  | 21 22 | 1 38 | 9 45 | 0 35 | 10 24 | 0 43 | 20 52 | 2 23 | 16 30 | 16 30 | 15 48 | 3 45 | 5 14 |     |      |     |
| T 6  | 15 57 | 27 9  | 3 44 | 18 10 | 0 37 | 9 26  | 1 24 | 12 39 | 1 58 | 5 58 | 1 3  | 21 22 | 1 38 | 9 44 | 0 35 | 10 23 | 0 43 | 20 52 | 2 23 | 16 33 | 16 31 | 15 45 | 3 45 | 5 14 |     |      |     |
| F 7  | 16 15 | 25 52 | 2 49 | 18 41 | 0 44 | 9 53  | 1 23 | 12 26 | 1 55 | 5 54 | 1 3  | 21 22 | 1 38 | 9 43 | 0 35 | 10 23 | 0 43 | 20 52 | 2 22 | 16 34 | 16 32 | 15 43 | 3 46 | 5 13 |     |      |     |
| S 8  | 16 33 | 22 57 | 1 43 | 19 12 | 0 50 | 10 21 | 1 22 | 12 12 | 1 53 | 5 51 | 1 3  | 21 21 | 1 38 | 9 42 | 0 35 | 10 23 | 0 43 | 20 52 | 2 22 | 16 35 | 16 33 | 15 40 | 3 46 | 5 13 |     |      |     |
| S 9  | 16 50 | 18 39 | 0 30 | 19 42 | 0 56 | 10 48 | 1 21 | 11 58 | 1 50 | 5 47 | 1 4  | 21 21 | 1 38 | 9 42 | 0 35 | 10 22 | 0 43 | 20 52 | 2 22 | 16 35 | 16 34 | 15 37 | 3 47 | 5 13 |     |      |     |
| M10  | 17 7  | 13 18 | 0n44 | 20 11 | 1 2  | 11 15 | 1 20 | 11 44 | 1 47 | 5 44 | 1 4  | 21 21 | 1 38 | 9 41 | 0 35 | 10 22 | 0 43 | 20 52 | 2 22 | 16 35 | 16 34 | 15 34 | 3 47 | 5 12 |     |      |     |
| T 11 | 17 24 | 7 17  | 1 56 | 20 38 | 1 8  | 11 42 | 1 18 | 11 30 | 1 44 | 5 40 | 1 4  | 21 20 | 1 38 | 9 40 | 0 35 | 10 22 | 0 43 | 20 52 | 2 22 | 16 35 | 16 35 | 15 31 | 3 48 | 5 12 |     |      |     |
| W12  | 17 41 | 0 55  | 3 0  | 21 5  | 1 14 | 12 8  | 1 17 | 11 16 | 1 41 | 5 37 | 1 4  | 21 20 | 1 38 | 9 39 | 0 35 | 10 21 | 0 43 | 20 52 | 2 22 | 16 36 | 16 36 | 15 28 | 3 48 | 5 12 |     |      |     |
| T 13 | 17 57 | 5n27  | 3 53 | 21 31 | 1 20 | 12 34 | 1 15 | 11 2  | 1 39 | 5 34 | 1 4  | 21 19 | 1 38 | 9 38 | 0 35 | 10 21 | 0 43 | 20 52 | 2 21 | 16 38 | 16 37 | 15 26 | 3 49 | 5 11 |     |      |     |
| F 14 | 18 13 | 11 31 | 4 32 | 21 55 | 1 26 | 13 0  | 1 14 | 10 47 | 1 36 | 5 30 | 1 5  | 21 19 | 1 38 | 9 38 | 0 35 | 10 21 | 0 43 | 20 52 | 2 21 | 16 40 | 16 38 | 15 23 | 3 49 | 5 11 |     |      |     |
| S 15 | 18 28 | 16 57 | 4 55 | 22 19 | 1 31 | 13 26 | 1 12 | 10 33 | 1 33 | 5 27 | 1 5  | 21 19 | 1 38 | 9 37 | 0 35 | 10 21 | 0 43 | 20 52 | 2 21 | 16 43 | 16 39 | 15 20 | 3 50 | 5 11 |     |      |     |
| S 16 | 18 43 | 21 27 | 5 0  | 22 41 | 1 36 | 13 51 | 1 11 | 10 18 | 1 31 | 5 24 | 1 5  | 21 18 | 1 38 | 9 36 | 0 34 | 10 20 | 0 43 | 20 53 | 2 21 | 16 47 | 16 40 | 15 17 | 3 50 | 5 10 |     |      |     |
| M17  | 18 58 | 24 45 | 4 49 | 23 3  | 1 41 | 14 16 | 1 9  | 10 4  | 1 28 | 5 21 | 1 5  | 21 18 | 1 38 | 9 35 | 0 34 | 10 20 | 0 44 | 20 53 | 2 21 | 16 51 | 16 41 | 15 14 | 3 51 | 5 10 |     |      |     |
| T 18 | 19 13 | 26 39 | 4 23 | 23 23 | 1 46 | 14 40 | 1 7  | 9 49  | 1 26 | 5 18 | 1 6  | 21 18 | 1 38 | 9 35 | 0 34 | 10 20 | 0 44 | 20 53 | 2 21 | 16 54 | 16 42 | 15 11 | 3 51 | 5 10 |     |      |     |
| W19  | 19 27 | 27 6  | 3 44 | 23 42 | 1 51 | 15 5  | 1 6  | 9 34  | 1 23 | 5 15 | 1 6  | 21 17 | 1 38 | 9 34 | 0 34 | 10 20 | 0 44 | 20 53 | 2 21 | 16 57 | 16 43 | 15 8  | 3 51 | 5 9  |     |      |     |
| T 20 | 19 41 | 26 9  | 2 54 | 24 0  | 1 55 | 15 28 | 1 4  | 9 19  | 1 21 | 5 12 | 1 6  | 21 17 | 1 38 | 9 33 | 0 34 | 10 20 | 0 44 | 20 53 | 2 20 | 16 59 | 16 44 | 15 6  | 3 52 | 5 9  |     |      |     |
| F 21 | 19 55 | 23 57 | 1 58 | 24 16 | 1 59 | 15 52 | 1 2  | 9 4   | 1 18 | 5 9  | 1 6  | 21 17 | 1 38 | 9 33 | 0 34 | 10 19 | 0 44 | 20 53 | 2 20 | 17 1  | 16 45 | 15 3  | 3 52 | 5 9  |     |      |     |
| S 22 | 20 8  | 20 43 | 0 57 | 24 32 | 2 3  | 16 15 | 1 0  | 8 50  | 1 16 | 5 6  | 1 6  | 21 16 | 1 38 | 9 32 | 0 34 | 10 19 | 0 44 | 20 53 | 2 20 | 17 1  | 16 45 | 15 0  | 3 52 | 5 8  |     |      |     |
| S 23 | 20 20 | 16 40 | 0s 5 | 24 46 | 2 7  | 16 37 | 0 58 | 8 34  | 1 14 | 5 3  | 1 7  | 21 16 | 1 38 | 9 31 | 0 34 | 10 19 | 0 44 | 20 53 | 2 20 | 17 1  | 16 46 | 14 57 | 3 52 | 5 8  |     |      |     |
| M24  | 20 33 | 12 0  | 1 7  | 24 58 | 2 10 | 16 59 | 0 56 | 8 19  | 1 11 | 5 0  | 1 7  | 21 15 | 1 38 | 9 31 | 0 34 | 10 19 | 0 44 | 20 53 | 2 20 | 17 1  | 16 47 | 14 54 | 3 53 | 5 7  |     |      |     |
| T 25 | 20 45 | 6 53  | 2 7  | 25 10 | 2 13 | 17 21 | 0 54 | 8 4   | 1 9  | 4 58 | 1 7  | 21 15 | 1 38 | 9 30 | 0 34 | 10 19 | 0 44 | 20 53 | 2 20 | 17 1  | 16 48 | 14 51 | 3 53 | 5 7  |     |      |     |
| W26  | 20 57 | 1 29  | 3 2  | 25 20 | 2 16 | 17 42 | 0 52 | 7 49  | 1 7  | 4 55 | 1 7  | 21 15 | 1 38 | 9 29 | 0 34 | 10 19 | 0 44 | 20 53 | 2 20 | 17 2  | 16 49 | 14 48 | 3 53 | 5 7  |     |      |     |
| T 27 | 21 8  | 4s 4  | 3 49 | 25 28 | 2 18 | 18 3  | 0 50 | 7 33  | 1 5  | 4 52 | 1 8  | 21 14 | 1 38 | 9 29 | 0 34 | 10 19 | 0 44 | 20 53 | 2 19 | 17 3  | 16 50 | 14 45 | 3 53 | 5 6  |     |      |     |
| F 28 | 21 19 | 9 35  | 4 27 | 25 36 | 2 20 | 18 23 | 0 48 | 7 18  | 1 2  | 4 50 | 1 8  | 21 14 | 1 38 | 9 28 | 0 34 | 10 18 | 0 44 | 20 53 | 2 19 | 17 4  | 16 51 | 14 42 | 3 53 | 5 6  |     |      |     |
| S 29 | 21 29 | 14 51 | 4 52 | 25 41 | 2 21 | 18 43 | 0 46 | 7 3   | 1 0  | 4 47 | 1 8  | 21 13 | 1 38 | 9 27 | 0 34 | 10 18 | 0 44 | 20 53 | 2 19 | 17 7  | 16 52 | 14 40 | 3 53 | 5 6  |     |      |     |
| S 30 | 21s39 | 19s36 | 5s 3 | 25s46 | 2s22 | 19s 2 | 0n44 | 6s47  | 0s58 | 4n45 | 1n 8 | 21n13 | 1s38 | 9n27 | 0s34 | 10n18 | 0n44 | 20s53 | 2n19 | 17s10 | 16s53 | 14n37 | 3s53 | 5n 5 |     |      |     |

ASTRODIENST EPHEMERIS for the year 1766  
geocentric

DECEMBER 1766

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♊      | ♋     | ♌     | ♍     | ♎      | ♏      | ♐     | ♑    | ♒      | ♓     | ♈     | ♉    | Day  |
|------|---------|----------|-------|--------|-------|-------|-------|--------|--------|-------|------|--------|-------|-------|------|------|
| M 1  | 4 39 22 | 8♌53'19  | 23♋32 | 26♊59  | 29♋17 | 15♌39 | 20♎47 | 16°R57 | 25°R46 | 5♏11  | 8♌35 | 12°R 1 | 13♋9  | 19♏13 | 7♌55 | M 1  |
| T 2  | 4 43 18 | 9°54'15  | 7♌28  | 28°23  | 0♌33  | 16°15 | 20°54 | 16♋53  | 25°Y44 | 5°12  | 8°36 | 11°50  | 13° 6 | 19°20 | 7°56 | T 2  |
| W 3  | 4 47 15 | 10°55'12 | 21°40 | 29°46  | 1°48  | 16°50 | 21° 0 | 16°48  | 25°43  | 5°12  | 8°38 | 11°41  | 13° 2 | 19°26 | 7°57 | W 3  |
| T 4  | 4 51 12 | 11°56'10 | 6♌3   | 1♌7    | 3° 4  | 17°26 | 21° 6 | 16°43  | 25°41  | 5°12  | 8°40 | 11°34  | 12°59 | 19°33 | 7°58 | T 4  |
| F 5  | 4 55 8  | 12°57'08 | 20°30 | 2°27   | 4°19  | 18° 1 | 21°12 | 16°38  | 25°40  | 5°12  | 8°42 | 11°29  | 12°56 | 19°40 | 7°59 | F 5  |
| S 6  | 4 59 5  | 13°58'08 | 4♌57  | 3°45   | 5°35  | 18°37 | 21°18 | 16°33  | 25°38  | 5°12  | 8°44 | 11°D28 | 12°53 | 19°46 | 8° 0 | S 6  |
| S 7  | 5 3 1   | 14°59'08 | 19°18 | 5° 1   | 6°50  | 19°13 | 21°24 | 16°28  | 25°37  | 5°R12 | 8°46 | 11°28  | 12°50 | 19°53 | 8° 1 | S 7  |
| M 8  | 5 6 58  | 16° 0'08 | 3♌31  | 6°14   | 8° 6  | 19°49 | 21°29 | 16°23  | 25°36  | 5°12  | 8°48 | 11°28  | 12°46 | 19°59 | 8° 2 | M 8  |
| T 9  | 5 10 54 | 17° 1'09 | 17°35 | 7°24   | 9°21  | 20°26 | 21°35 | 16°18  | 25°34  | 5°12  | 8°50 | 11°R29 | 12°43 | 20° 6 | 8° 3 | T 9  |
| W10  | 5 14 51 | 18° 2'10 | 1°Y29 | 8°30   | 10°37 | 21° 2 | 21°40 | 16°13  | 25°33  | 5°12  | 8°52 | 11°28  | 12°40 | 20°13 | 8° 4 | W10  |
| T 11 | 5 18 48 | 19° 3'12 | 15°12 | 9°33   | 11°52 | 21°38 | 21°45 | 16° 8  | 25°32  | 5°12  | 8°54 | 11°25  | 12°37 | 20°19 | 8° 6 | T 11 |
| F 12 | 5 22 44 | 20° 4'14 | 28°45 | 10°30  | 13° 8 | 22°15 | 21°50 | 16° 3  | 25°31  | 5°12  | 8°56 | 11°20  | 12°34 | 20°26 | 8° 7 | F 12 |
| S 13 | 5 26 41 | 21° 5'17 | 12♌7  | 11°23  | 14°23 | 22°52 | 21°55 | 15°58  | 25°30  | 5°11  | 8°58 | 11°12  | 12°31 | 20°33 | 8° 8 | S 13 |
| S 14 | 5 30 37 | 22° 6'21 | 25°17 | 12° 9  | 15°39 | 23°28 | 21°59 | 15°53  | 25°29  | 5°11  | 9° 0 | 11° 3  | 12°27 | 20°39 | 8°10 | S 14 |
| M15  | 5 34 34 | 23° 7'24 | 8♋15  | 12°49  | 16°54 | 24° 5 | 22° 4 | 15°48  | 25°28  | 5°11  | 9° 2 | 10°54  | 12°24 | 20°46 | 8°11 | M15  |
| T 16 | 5 38 30 | 24° 8'29 | 20°59 | 13°20  | 18°10 | 24°42 | 22° 8 | 15°44  | 25°27  | 5°11  | 9° 4 | 10°46  | 12°21 | 20°53 | 8°13 | T 16 |
| W17  | 5 42 27 | 25° 9'34 | 3♌29  | 13°44  | 19°25 | 25°19 | 22°12 | 15°39  | 25°26  | 5°10  | 9° 6 | 10°38  | 12°18 | 20°59 | 8°15 | W17  |
| T 18 | 5 46 23 | 26°10'39 | 15°46 | 13°57  | 20°41 | 25°56 | 22°16 | 15°34  | 25°25  | 5°10  | 9° 8 | 10°33  | 12°15 | 21° 6 | 8°16 | T 18 |
| F 19 | 5 50 20 | 27°11'45 | 27°52 | 14°R 0 | 21°56 | 26°33 | 22°20 | 15°29  | 25°24  | 5°10  | 9°10 | 10°30  | 12°12 | 21°13 | 8°18 | F 19 |
| S 20 | 5 54 17 | 28°12'52 | 9♏47  | 13°52  | 23°12 | 27°11 | 22°23 | 15°24  | 25°23  | 5° 9  | 9°12 | 10°D29 | 12° 8 | 21°19 | 8°20 | S 20 |
| S 21 | 5 58 13 | 29°13'59 | 21°37 | 13°33  | 24°27 | 27°48 | 22°27 | 15°20  | 25°23  | 5° 9  | 9°14 | 10°30  | 12° 5 | 21°26 | 8°22 | S 21 |
| M22  | 6 2 10  | 0♌15'07  | 3♏23  | 13° 1  | 25°43 | 28°25 | 22°30 | 15°15  | 25°22  | 5° 8  | 9°16 | 10°31  | 12° 2 | 21°33 | 8°23 | M22  |
| T 23 | 6 6 6   | 1°16'15  | 15°12 | 12°18  | 26°58 | 29° 3 | 22°33 | 15°10  | 25°21  | 5° 8  | 9°18 | 10°33  | 11°59 | 21°39 | 8°25 | T 23 |
| W24  | 6 10 3  | 2°17'23  | 27° 9 | 11°24  | 28°14 | 29°40 | 22°36 | 15° 6  | 25°21  | 5° 7  | 9°21 | 10°R34 | 11°56 | 21°46 | 8°27 | W24  |
| T 25 | 6 13 59 | 3°18'33  | 9♌17  | 10°20  | 29°29 | 0°Y18 | 22°38 | 15° 1  | 25°20  | 5° 7  | 9°23 | 10°34  | 11°52 | 21°52 | 8°29 | T 25 |
| F 26 | 6 17 56 | 4°19'42  | 21°43 | 9° 9   | 0♌45  | 0°56  | 22°41 | 14°56  | 25°20  | 5° 6  | 9°25 | 10°33  | 11°49 | 21°59 | 8°32 | F 26 |
| S 27 | 6 21 52 | 5°20'53  | 4♋31  | 7°51   | 2° 0  | 1°33  | 22°43 | 14°52  | 25°19  | 5° 6  | 9°27 | 10°29  | 11°46 | 22° 6 | 8°34 | S 27 |
| S 28 | 6 25 49 | 6°22'03  | 17°44 | 6°30   | 3°16  | 2°11  | 22°45 | 14°48  | 25°19  | 5° 5  | 9°29 | 10°25  | 11°43 | 22°12 | 8°36 | S 28 |
| M29  | 6 29 46 | 7°23'14  | 1♌24  | 5° 8   | 4°31  | 2°49  | 22°47 | 14°43  | 25°19  | 5° 4  | 9°31 | 10°19  | 11°40 | 22°19 | 8°38 | M29  |
| T 30 | 6 33 42 | 8°24'26  | 15°29 | 3°49   | 5°47  | 3°27  | 22°49 | 14°39  | 25°18  | 5° 3  | 9°33 | 10°14  | 11°37 | 22°26 | 8°40 | T 30 |
| W31  | 6 37 39 | 9♌25'37  | 29♌56 | 2♌34   | 7♌3   | 4°Y 5 | 22♏50 | 14♋35  | 25°Y18 | 5♏3   | 9♌35 | 10♋9   | 11♋33 | 22♏32 | 8♌43 | 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  | 21s49 | 23s29    | 4s57     | 25s49    | 2s23     | 19s21    | 0n42     | 6s31     | 0s56     | 4n42     | 1n 9     | 21n13    | 1s38     | 9n26     |
| T 2  | 21 58 | 26 5     | 4 34     | 25 50    | 2 23     | 19 39    | 0 40     | 6 16     | 0 54     | 4 40     | 1 9      | 21 12    | 1 38     | 9 26     |
| W 3  | 22 7  | 27 6     | 3 53     | 25 50    | 2 22     | 19 56    | 0 37     | 6 0      | 0 52     | 4 38     | 1 9      | 21 12    | 1 38     | 9 25     |
| T 4  | 22 15 | 26 17    | 2 58     | 25 49    | 2 21     | 20 13    | 0 35     | 5 44     | 0 50     | 4 36     | 1 9      | 21 11    | 1 38     | 9 25     |
| F 5  | 22 23 | 23 43    | 1 50     | 25 46    | 2 19     | 20 30    | 0 33     | 5 29     | 0 48     | 4 33     | 1 10     | 21 11    | 1 38     | 9 24     |
| S 6  | 22 30 | 19 37    | 0 35     | 25 42    | 2 16     | 20 46    | 0 31     | 5 13     | 0 46     | 4 31     | 1 10     | 21 10    | 1 37     | 9 24     |
| S 7  | 22 37 | 14 23    | 0n42     | 25 36    | 2 13     | 21 1     | 0 28     | 4 57     | 0 44     | 4 29     | 1 10     | 21 10    | 1 37     | 9 23     |
| M 8  | 22 44 | 8 26     | 1 56     | 25 29    | 2 9      | 21 16    | 0 26     | 4 41     | 0 42     | 4 27     | 1 10     | 21 10    | 1 37     | 9 23     |
| T 9  | 22 50 | 2 8      | 3 1      | 25 20    | 2 4      | 21 30    | 0 24     | 4 25     | 0 40     | 4 25     | 1 11     | 21 9     | 1 37     | 9 22     |
| W10  | 22 56 | 4n12     | 3 56     | 25 10    | 1 59     | 21 43    | 0 21     | 4 9      | 0 38     | 4 24     | 1 11     | 21 9     | 1 37     | 9 22     |
| T 11 | 23 1  | 10 14    | 4 36     | 24 59    | 1 52     | 21 56    | 0 19     | 3 53     | 0 36     | 4 22     | 1 11     | 21 8     | 1 37     | 9 22     |
| F 12 | 23 6  | 15 42    | 5 0      | 24 47    | 1 44     | 22 8     | 0 16     | 3 37     | 0 35     | 4 20     | 1 11     | 21 8     | 1 37     | 9 21     |
| S 13 | 23 10 | 20 21    | 5 7      | 24 34    | 1 35     | 22 19    | 0 14     | 3 20     | 0 33     | 4 19     | 1 12     | 21 8     | 1 37     | 9 21     |
| S 14 | 23 14 | 23 55    | 4 58     | 24 19    | 1 25     | 22 30    | 0 12     | 3 4      | 0 31     | 4 17     | 1 12     | 21 7     | 1 37     | 9 20     |
| M15  | 23 18 | 26 12    | 4 33     | 24 5     | 1 14     | 22 40    | 0 9      | 2 48     | 0 29     | 4 15     | 1 12     | 21 7     | 1 37     | 9 20     |
| T 16 | 23 20 | 27 5     | 3 55     | 23 49    | 1        | 1        | 22 50    | 0 7      | 2 32     | 0 28     | 4 14     | 1 12     | 21 6     | 1 36     |
| W17  | 23 23 | 26 32    | 3 7      | 23 33    | 0 47     | 22 58    | 0 4      | 2 16     | 0 26     | 4 13     | 1 13     | 21 6     | 1 36     | 9 20     |
| T 18 | 23 25 | 24 41    | 2 10     | 23 16    | 0 32     | 23 7     | 0 2      | 1 59     | 0 24     | 4 11     | 1 13     | 21 6     | 1 36     | 9 19     |
| F 19 | 23 26 | 21 44    | 1 8      | 23 0     | 0 16     | 23 14    | 0s 0     | 1 43     | 0 23     | 4 10     | 1 13     | 21 5     | 1 36     | 9 19     |
| S 20 | 23 28 | 17 53    | 0 4      | 22 43    | 0n 2     | 23 21    | 0 3      | 1 27     | 0 21     | 4 9      | 1 13     | 21 5     | 1 36     | 9 19     |
| S 21 | 23 28 | 13 22    | 1s 0     | 22 27    | 0 20     | 23 26    | 0 5      | 1 11     | 0 20     | 4 8      | 1 14     | 21 4     | 1 36     | 9 18     |
| M22  | 23 28 | 8 23     | 2 1      | 22 11    | 0 39     | 23 32    | 0 8      | 0 54     | 0 18     | 4 7      | 1 14     | 21 4     | 1 36     | 9 18     |
| T 23 | 23 28 | 3 6      | 2 58     | 21 55    | 0 59     | 23 36    | 0 10     | 0 38     | 0 16     | 4 6      | 1 14     | 21 4     | 1 36     | 9 18     |
| W24  | 23 27 | 2s20     | 3 47     | 21 40    | 1 19     | 23 40    | 0 12     | 0 21     | 0 15     | 4 5      | 1 15     | 21 3     | 1 35     | 9 18     |
| T 25 | 23 26 | 7 46     | 4 27     | 21 26    | 1 38     | 23 43    | 0 15     | 0 5      | 0 13     | 4 4      | 1 15     | 21 3     | 1 35     | 9 18     |
| F 26 | 23 24 | 13 2     | 4 56     | 21 13    | 1 57     | 23 45    | 0 17     | 0n11     | 0 12     | 4 4      | 1 15     | 21 3     | 1 35     | 9 18     |
| S 27 | 23 22 | 17 55    | 5 10     | 21 0     | 2 14     | 23 47    | 0 19     | 0 28     | 0 10     | 4 3      | 1 15     | 21 2     | 1 35     | 9 17     |
| S 28 | 23 19 | 22 5     | 5 10     | 20 49    | 2 30     | 23 48    | 0 22     | 0 44     | 0 9      | 4 2      | 1 16     | 21 2     | 1 35     | 9 17     |
| M29  | 23 16 | 25 13    | 4 52     | 20 39    | 2 44     | 23 48    | 0 24     | 1 0      | 0 8      | 4 2      | 1 16     | 21 2     | 1 35     | 9 17     |
| T 30 | 23 12 | 26 55    | 4 15     | 20 30    | 2 55     | 23 47    | 0 26     | 1 17     | 0 6      | 4 1      | 1 16     | 21 1     | 1 34     | 9 17     |
| W31  | 23s 8 | 26s51    | 3s22     | 20s23    | 3n 4     | 23s46    | 0s29     | 1n33     | 0s 5     | 4n 1     | 1n17     | 21n 1    | 1s34     | 9n17     |

Julian Day Number = 2366412.5, Delta T = 20.52 sec  
Ecliptic obliquity = 23°28'16", Nutation = 0°00'11", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 21°29'10", Lahiri = 20°36'10"Greg. Calendar