



# Astrodienst Ephemeris Tables for the year 1574

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 D5EPH

ASTRODIENST EPHEMERIS for the year 1574  
geocentric

JANUARY 1574 JC

00:00 UT

| Day  | Sid.t   | ☉         | ☽        | ♀      | ♂       | ♂        | ♂      | ♂       | ♂        | ♂       | ♂        | ♂       | ♂       | ♂      | ♂       | Day  |
|------|---------|-----------|----------|--------|---------|----------|--------|---------|----------|---------|----------|---------|---------|--------|---------|------|
| F 1  | 7 19 59 | 20°32'19" | 27°33'   | 7°38'  | 0°51'   | 29°48'   | 26°R21 | 5°15'   | 16°349   | 28°R18  | 24°16'   | 24°II51 | 23°II49 | 0°43'  | 6°40'   | F 1  |
| S 2  | 7 23 56 | 21°30'25" | 11°44'   | 9° 4'  | 1°17'   | 0°20'    | 26°B19 | 5°21'   | 16°53'   | 28°II17 | 24°17'   | 24°52'  | 23°45'  | 0°50'  | 6°43'   | S 2  |
| S 3  | 7 27 53 | 22°31'30" | 25°57'   | 10°27' | 2°29'   | 0°51'    | 26°18' | 5°27'   | 16°56'   | 28°15'  | 24°18'   | 24°54'  | 23°42'  | 0°57'  | 6°46'   | S 3  |
| M 4  | 7 31 49 | 23°32'35" | 10°II 7  | 11°45' | 3°41'   | 1°22'    | 26°16' | 5°32'   | 17° 0'   | 28°14'  | 24°18'   | 24°55'  | 23°39'  | 1° 4'  | 6°49'   | M 4  |
| T 5  | 7 35 46 | 24°33'38" | 24°14'   | 13° 0' | 4°52'   | 1°53'    | 26°15' | 5°38'   | 17° 4'   | 28°12'  | 24°19'   | 24°R56  | 23°36'  | 1°10'  | 6°52'   | T 5  |
| W 6  | 7 39 42 | 25°34'41" | 8°32'12  | 14° 9' | 6° 4'   | 2°23'    | 26°14' | 5°43'   | 17° 7'   | 28°11'  | 24°20'   | 24°55'  | 23°33'  | 1°17'  | 6°55'   | W 6  |
| T 7  | 7 43 39 | 26°35'43" | 22° 0'   | 15°11' | 7°15'   | 2°54'    | 26°13' | 5°48'   | 17°11'   | 28° 9'  | 24°21'   | 24°53'  | 23°30'  | 1°24'  | 6°59'   | T 7  |
| F 8  | 7 47 35 | 27°36'44" | 5°23'33  | 16° 7' | 8°27'   | 3°25'    | 26°12' | 5°54'   | 17°14'   | 28° 8'  | 24°22'   | 24°49'  | 23°26'  | 1°30'  | 7° 2'   | F 8  |
| S 9  | 7 51 32 | 28°37'44" | 18°49'   | 16°56' | 9°38'   | 3°55'    | 26°12' | 5°59'   | 17°18'   | 28° 7'  | 24°23'   | 24°43'  | 23°23'  | 1°37'  | 7° 5'   | S 9  |
| S 10 | 7 55 28 | 29°38'43" | 1°17'48  | 17°36' | 10°49'  | 4°25'    | 26°11' | 6° 4'   | 17°21'   | 28° 5'  | 24°24'   | 24°37'  | 23°20'  | 1°44'  | 7° 8'   | S 10 |
| M 11 | 7 59 25 | 0°39'42   | 14°28'   | 18° 6' | 12° 0'  | 4°55'    | 26°D11 | 6° 9'   | 17°25'   | 28° 4'  | 24°25'   | 24°31'  | 23°17'  | 1°50'  | 7°11'   | M 11 |
| T 12 | 8 3 22  | 1°40'40"  | 26°51'   | 18°26' | 13°11'  | 5°25'    | 26°11' | 6°14'   | 17°28'   | 28° 2'  | 24°26'   | 24°25'  | 23°14'  | 1°57'  | 7°15'   | T 12 |
| W 13 | 8 7 18  | 2°41'37"  | 8°45'59  | 18°R36 | 14°21'  | 5°55'    | 26°12' | 6°19'   | 17°32'   | 28° 1'  | 24°27'   | 24°21'  | 23°10'  | 2° 4'  | 7°18'   | W 13 |
| T 14 | 8 11 15 | 3°42'33"  | 20°57'   | 18°35' | 15°32'  | 6°25'    | 26°12' | 6°24'   | 17°35'   | 28° 0'  | 24°28'   | 24°18'  | 23° 7'  | 2°10'  | 7°22'   | T 14 |
| F 15 | 8 15 11 | 4°43'29"  | 2°14'49  | 18°22' | 16°43'  | 6°54'    | 26°13' | 6°29'   | 17°38'   | 27°58'  | 24°29'   | 24°D17  | 23° 4'  | 2°17'  | 7°25'   | F 15 |
| S 16 | 8 19 8  | 5°44'24"  | 14°39'   | 17°58' | 17°53'  | 7°23'    | 26°14' | 6°33'   | 17°42'   | 27°57'  | 24°30'   | 24°17'  | 23° 1'  | 2°24'  | 7°28'   | S 16 |
| S 17 | 8 23 4  | 6°45'18"  | 26°34'   | 17°23' | 19° 3'  | 7°52'    | 26°15' | 6°38'   | 17°45'   | 27°56'  | 24°31'   | 24°19'  | 22°58'  | 2°31'  | 7°32'   | S 17 |
| M 18 | 8 27 1  | 7°46'11"  | 8°37'37  | 16°39' | 20°13'  | 8°21'    | 26°17' | 6°43'   | 17°49'   | 27°55'  | 24°32'   | 24°20'  | 22°55'  | 2°37'  | 7°35'   | M 18 |
| T 19 | 8 30 57 | 8°47'03"  | 20°54'   | 15°45' | 21°23'  | 8°50'    | 26°18' | 6°47'   | 17°52'   | 27°54'  | 24°33'   | 24°R21  | 22°51'  | 2°44'  | 7°39'   | T 19 |
| W 20 | 8 34 54 | 9°47'55"  | 3°32'29  | 14°44' | 22°33'  | 9°19'    | 26°20' | 6°52'   | 17°55'   | 27°52'  | 24°34'   | 24°21'  | 22°48'  | 2°51'  | 7°42'   | W 20 |
| T 21 | 8 38 51 | 10°48'45" | 16°23'   | 13°38' | 23°43'  | 9°47'    | 26°22' | 6°56'   | 17°59'   | 27°51'  | 24°35'   | 24°19'  | 22°45'  | 2°57'  | 7°46'   | T 21 |
| F 22 | 8 42 47 | 11°49'34" | 29°40'   | 12°27' | 24°52'  | 10°15'   | 26°24' | 7° 0'   | 18° 2'   | 27°50'  | 24°37'   | 24°14'  | 22°42'  | 3° 4'  | 7°49'   | F 22 |
| S 23 | 8 46 44 | 12°50'22" | 13°31'17 | 11°15' | 26° 2'  | 10°44'   | 26°26' | 7° 4'   | 18° 6'   | 27°49'  | 24°38'   | 24° 7'  | 22°39'  | 3°11'  | 7°53'   | S 23 |
| S 24 | 8 50 40 | 13°51'09" | 27°12'   | 10° 4' | 27°11'  | 11°11'   | 26°29' | 7° 8'   | 18° 9'   | 27°48'  | 24°39'   | 23°59'  | 22°36'  | 3°17'  | 7°57'   | S 24 |
| M 25 | 8 54 37 | 14°51'54" | 11°22'42 | 8°55'  | 28°20'  | 11°39'   | 26°32' | 7°13'   | 18°12'   | 27°47'  | 24°40'   | 23°50'  | 22°32'  | 3°24'  | 8° 0'   | M 25 |
| T 26 | 8 58 33 | 15°52'38" | 25°40'   | 7°49'  | 29°29'  | 12° 6'   | 26°35' | 7°16'   | 18°15'   | 27°46'  | 24°41'   | 23°42'  | 22°29'  | 3°31'  | 8° 4'   | T 26 |
| W 27 | 9 2 30  | 16°53'20" | 10°11'1  | 6°49'  | 0°38'38 | 12°34'   | 26°38' | 7°20'   | 18°19'   | 27°45'  | 24°43'   | 23°35'  | 22°26'  | 3°37'  | 8° 8'   | W 27 |
| T 28 | 9 6 26  | 17°54'01" | 24°20'   | 5°55'  | 1°46'   | 13° 1'   | 26°41' | 7°24'   | 18°22'   | 27°44'  | 24°44'   | 23°30'  | 22°23'  | 3°44'  | 8°11'   | T 28 |
| F 29 | 9 10 23 | 18°54'39" | 8°35'35  | 5° 8'  | 2°54'   | 13°28'   | 26°45' | 7°28'   | 18°25'   | 27°43'  | 24°45'   | 23°28'  | 22°20'  | 3°51'  | 8°15'   | F 29 |
| S 30 | 9 14 20 | 19°55'16" | 22°42'   | 4°29'  | 4° 3'   | 13°54'   | 26°48' | 7°31'   | 18°28'   | 27°42'  | 24°46'   | 23°D28  | 22°16'  | 3°58'  | 8°19'   | S 30 |
| S 31 | 9 18 16 | 20°55'51" | 6°11'42  | 3°55'7 | 5°11'11 | 14°12'21 | 26°B52 | 7°35'35 | 18°33'31 | 27°II41 | 24°48'48 | 23°II28 | 22°II13 | 4°11'4 | 8°23'23 | S 31 |

Delta T = 130.93 sec

Julian Calendar 1 Jan. 1574 == Greg. Calendar 11 Jan. 1574

FEBRUARY 1574 JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽        | ♀        | ♂        | ♂        | ♂        | ♂       | ♂        | ♂        | ♂        | ♂        | ♂        | ♂       | ♂        | Day  |
|------|----------|-----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|---------|----------|------|
| M 1  | 9 22 13  | 21°56'25" | 20°II30  | 3°R33    | 6°18'18  | 14°14'47 | 26°B56   | 7°38'38 | 18°33'34 | 27°R40   | 24°49'49 | 23°R29   | 22°II10  | 4°11'11 | 8°26'26  | M 1  |
| T 2  | 9 26 9   | 22°56'57" | 4°32'10  | 3°17'38  | 7°26'26  | 15°13'13 | 27° 0'   | 7°42'42 | 18°38'38 | 27°II39  | 24°50'50 | 23°II28  | 22° 7'   | 4°18'18 | 8°30'30  | T 2  |
| W 3  | 9 30 6   | 23°57'26" | 17°41'   | 3° 9'    | 8°33'33  | 15°38'38 | 27° 5'   | 7°45'45 | 18°41'41 | 27°39'39 | 24°52'52 | 23°26'26 | 22° 4'   | 4°24'24 | 8°34'34  | W 3  |
| T 4  | 9 34 2   | 24°57'54" | 1°12'3   | 3°D 7    | 9°40'40  | 16° 4'   | 27°10'10 | 7°48'48 | 18°44'44 | 27°38'38 | 24°53'53 | 23°21'21 | 22° 1'   | 4°31'31 | 8°38'38  | T 4  |
| F 5  | 9 37 59  | 25°58'21" | 14°13'   | 3°12'12  | 10°47'47 | 16°29'29 | 27°14'14 | 7°51'51 | 18°47'47 | 27°37'37 | 24°54'54 | 23°13'13 | 21°57'57 | 4°38'38 | 8°42'42  | F 5  |
| S 6  | 9 41 55  | 26°58'45" | 27°12'   | 3°24'24  | 11°54'54 | 16°54'54 | 27°19'19 | 7°54'54 | 18°50'50 | 27°36'36 | 24°56'56 | 23° 2'   | 21°54'54 | 4°44'44 | 8°45'45  | S 6  |
| S 7  | 9 45 52  | 27°59'08" | 9°17'57  | 3°42'42  | 13° 1'   | 17°18'18 | 27°24'24 | 7°57'57 | 18°53'53 | 27°36'36 | 24°57'57 | 22°50'50 | 21°51'51 | 4°51'51 | 8°49'49  | S 7  |
| M 8  | 9 49 49  | 28°59'29" | 22°28'   | 4° 5'    | 14° 7'   | 17°43'43 | 27°30'30 | 8° 0'   | 18°56'56 | 27°35'35 | 24°58'58 | 22°38'38 | 21°48'48 | 4°58'58 | 8°53'53  | M 8  |
| T 9  | 9 53 45  | 29°59'48" | 4°42'46  | 4°34'34  | 15°13'13 | 18° 7'   | 27°35'35 | 8° 3'   | 18°58'58 | 27°34'34 | 25° 0'   | 22°26'26 | 21°45'45 | 5° 4'   | 8°57'57  | T 9  |
| W 10 | 9 57 42  | 1°00'6    | 16°53'   | 5° 7'    | 16°18'18 | 18°31'31 | 27°41'41 | 8° 5'   | 19° 1'   | 27°34'34 | 25° 1'   | 22°16'16 | 21°42'42 | 5°11'11 | 9° 1'    | W 10 |
| T 11 | 10 1 38  | 2° 0'23   | 28°49'   | 5°45'45  | 17°24'24 | 18°54'54 | 27°47'47 | 8° 8'   | 19° 4'   | 27°33'33 | 25° 2'   | 22° 9'   | 21°38'38 | 5°18'18 | 9° 5'    | T 11 |
| F 12 | 10 5 35  | 3° 0'38   | 10°14'40 | 6°27'27  | 18°29'29 | 19°18'18 | 27°53'53 | 8°11'11 | 19° 7'   | 27°33'33 | 25° 4'   | 22° 4'   | 21°35'35 | 5°24'24 | 9° 9'    | F 12 |
| S 13 | 10 9 31  | 4° 0'51   | 22°29'   | 7°12'12  | 19°34'34 | 19°41'41 | 27°59'59 | 8°13'13 | 19°10'10 | 27°32'32 | 25° 5'   | 22° 2'   | 21°32'32 | 5°31'31 | 9°12'12  | S 13 |
| S 14 | 10 13 28 | 5° 1'03   | 4°17'22  | 8° 2'    | 20°39'39 | 20° 3'   | 28° 5'   | 8°15'15 | 19°12'12 | 27°32'32 | 25° 7'   | 22°D 1   | 21°29'29 | 5°38'38 | 9°16'16  | S 14 |
| M 15 | 10 17 24 | 6° 1'13   | 16°23'   | 8°54'54  | 21°43'43 | 20°26'26 | 28°12'12 | 8°17'17 | 19°15'15 | 27°31'31 | 25° 8'   | 22°R 1   | 21°26'26 | 5°45'45 | 9°20'20  | M 15 |
| T 16 | 10 21 21 | 7° 1'22   | 28°39'   | 9°50'50  | 22°47'47 | 20°48'48 | 28°18'18 | 8°19'19 | 19°18'18 | 27°31'31 | 25°10'10 | 22° 1'   | 21°22'22 | 5°51'51 | 9°24'24  | T 16 |
| W 17 | 10 25 18 | 8° 1'29   | 11°31'51 | 10°49'49 | 23°51'51 | 21°10'10 | 28°25'25 | 8°21'21 | 19°21'21 | 27°31'31 | 25°11'11 | 22° 0'   | 21°19'19 | 5°58'58 | 9°28'28  | W 17 |
| T 18 | 10 29 14 | 9° 1'35   | 24°14'   | 11°50'50 | 24°54'54 | 21°31'31 | 28°32'32 | 8°23'23 | 19°23'23 | 27°30'30 | 25°12'12 | 21°56'56 | 21°16'16 | 6° 5'   | 9°32'32  | T 18 |
| F 19 | 10 33 11 | 10° 1'39  | 7°33'39  | 12°54'54 | 25°57'57 | 21°52'52 | 28°39'39 | 8°25'25 | 19°26'26 | 27°30'30 | 25°14'14 | 21°49'49 | 21°13'13 | 6°11'11 | 9°36'36  | F 19 |
| S 20 | 10 37 7  | 11° 1'41  | 21°30'   | 14° 0'   | 27° 0'   | 22°13'13 | 28°46'46 | 8°27'27 | 19°28'28 | 27°30'30 | 25°15'15 | 21°40'40 | 21°10'10 | 6°18'18 | 9°40'40  | S 20 |
| S 21 | 10 41 4  | 12° 1'41  | 5°11'46  | 15° 8'   | 28° 3'   | 22°33'33 | 28°54'54 | 8°28'28 | 19°31'31 | 27°30'30 | 25°17'17 | 21°29'29 | 21° 7'   | 6°25'25 | 9°44'44  | S 21 |
| M 22 | 10 45 0  | 13° 1'39  | 20°20'   | 16°19'19 | 29° 5'   | 22°53'53 | 29° 1'   | 8°30'30 | 19°33'33 | 27°29'29 | 25°18'18 | 21°17'17 | 21° 3'   | 6°31'31 | 9°47'47  | M 22 |
| T 23 | 10 48 57 | 14° 1'35  | 5°11'6   | 17°31'31 | 0°8 6    | 23°12'12 | 29° 9'   | 8°31'31 | 19°36'36 | 27°29'29 | 25°20'20 | 21° 6'   | 21° 0'   | 6°38'38 | 9°51'51  | T 23 |
| W 24 | 10 52 53 | 15° 1'30  | 19°54'   | 18°45'45 | 1° 8'    | 23°32'32 | 29°17'17 | 8°32'32 | 19°38'38 | 27°29'29 | 25°21'21 | 20°56'56 | 20°57'57 | 6°45'45 | 9°55'55  | W 24 |
| T 25 | 10 56 50 | 16° 1'22  | 4°33'37  | 20° 1'   | 2° 9'    | 23°50'50 | 29°25'25 | 8°34'34 | 19°40'40 | 27°29'29 | 25°23'23 | 20°49'49 | 20°54'54 | 6°51'51 | 9°59'59  | T 25 |
| F 26 | 11 0 46  | 17° 1'12  | 19° 9'   | 21°19'19 | 3° 9'    | 24° 9'   | 29°33'33 | 8°35'35 | 19°43'43 | 27°29'29 | 25°24'24 | 20°44'44 | 20°51'51 | 6°58'58 | 10° 3'   | F 26 |
| S 27 | 11 4 43  | 18° 0'59  | 3°II25   | 22°39'39 | 4° 9'    | 24°27'27 | 29°41'41 | 8°36'36 | 19°45'45 | 27°D29   | 25°26'26 | 20°42'42 | 20°47'47 | 7° 5'   | 10° 7'   | S 27 |
| S 28 | 11 8 40  | 19°11'45  | 17°II24  | 24°38'38 | 5°8 9    | 24°14'44 | 29°B50   | 8°37'37 | 19°37'37 | 27°II29  | 25°27'27 | 20°II42  | 20°II44  | 7°11'11 | 10°11'11 | S 28 |

Delta T = 130.77 sec

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1574

## geocentric

MARCH 1574 JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽         | ♀         | ♂         | ♂         | ♂         | ♂        | ♂         | ♂         | ♂         | ♂         | ♂         | ♂         | ♂         | Day  |
|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| M 1  | 11 12 36 | 20°08'28" | 1°07'47"  | 25°23'08" | 6°08'08"  | 25°11'01" | 29°08'58" | 8°37'19" | 19°34'49" | 27°11'29" | 25°11'29" | 20°14'42" | 20°11'41" | 7°18'18"  | 10°14'14" | M 1  |
| T 2  | 11 16 33 | 21°00'09" | 14°34'47" | 26°47'07" | 7°07'07"  | 25°18'07" | 0°11'07"  | 8°38'19" | 19°52'27" | 27°29'25" | 25°30'20" | 20°11'41" | 20°38'7"  | 7°25'10"  | 10°18'18" | T 2  |
| W 3  | 11 20 29 | 21°59'47" | 27°47'28" | 28°12'08" | 8°05'25"  | 25°34'00" | 0°15'00"  | 8°39'19" | 19°54'27" | 27°29'25" | 25°32'20" | 20°37'30" | 20°35'7"  | 7°31'10"  | 10°22'10" | W 3  |
| T 4  | 11 24 26 | 22°59'23" | 10°04'47" | 29°40'09" | 9°03'25"  | 25°50'00" | 0°24'00"  | 8°39'19" | 19°56'27" | 27°29'25" | 25°33'20" | 20°31'30" | 20°32'7"  | 7°38'10"  | 10°26'10" | T 4  |
| F 5  | 11 28 22 | 23°58'57" | 23°36'11" | 10°01'26" | 10°01'26" | 26°05'00" | 0°33'00"  | 8°40'19" | 19°58'27" | 27°30'25" | 25°35'20" | 20°22'20" | 20°28'7"  | 7°45'10"  | 10°30'10" | F 5  |
| S 6  | 11 32 19 | 24°58'29" | 6°11'15"  | 2°38'10"  | 10°57'26" | 26°20'00" | 0°43'00"  | 8°40'20" | 19°58'27" | 27°30'25" | 25°36'20" | 20°10'20" | 20°25'7"  | 7°52'10"  | 10°34'10" | S 6  |
| S 7  | 11 36 15 | 25°57'58" | 18°43'04" | 4°09'11"  | 11°54'26" | 26°35'00" | 0°52'00"  | 8°40'20" | 19°58'27" | 27°30'25" | 25°38'19" | 20°22'20" | 20°22'7"  | 7°58'10"  | 10°37'10" | S 7  |
| M 8  | 11 40 12 | 26°57'26" | 1°01'41"  | 5°42'12"  | 12°49'26" | 26°48'01" | 1°01'00"  | 8°40'20" | 19°58'27" | 27°30'25" | 25°39'19" | 20°19'20" | 20°19'8"  | 8°05'10"  | 10°41'10" | M 8  |
| T 9  | 11 44 09 | 27°56'51" | 13°10'07" | 7°16'13"  | 13°44'27" | 27°02'11" | 1°11'00"  | 8°40'20" | 19°58'27" | 27°30'25" | 25°41'19" | 20°16'20" | 20°16'8"  | 8°12'10"  | 10°45'10" | T 9  |
| W10  | 11 48 05 | 28°56'15" | 25°10'08" | 8°51'14"  | 14°39'27" | 27°15'12" | 1°20'00"  | 8°40'20" | 19°58'27" | 27°30'25" | 25°42'19" | 20°13'20" | 20°13'8"  | 8°18'10"  | 10°49'10" | W10  |
| T 11 | 11 52 02 | 29°55'36" | 7°11'03"  | 10°28'15" | 15°33'27" | 27°27'13" | 1°30'00"  | 8°40'20" | 19°58'27" | 27°30'25" | 25°44'19" | 20°09'20" | 20°09'8"  | 8°25'10"  | 10°52'10" | T 11 |
| F 12 | 11 55 58 | 0°15'54"  | 18°52'12" | 12°06'16" | 16°26'27" | 27°39'14" | 1°40'00"  | 8°40'20" | 19°58'27" | 27°30'25" | 25°45'19" | 20°06'20" | 20°06'8"  | 8°32'10"  | 10°56'10" | F 12 |
| S 13 | 11 59 55 | 1°54'13"  | 0°14'41"  | 13°46'17" | 17°19'27" | 27°50'15" | 1°50'00"  | 8°39'20" | 19°58'27" | 27°30'25" | 25°47'18" | 20°03'20" | 20°03'8"  | 8°38'11"  | 11°00'10" | S 13 |
| S 14 | 12 03 51 | 2°53'29"  | 12°32'15" | 15°27'18" | 18°10'28" | 28°00'20" | 2°00'00"  | 8°39'20" | 19°58'27" | 27°30'25" | 25°48'18" | 20°00'20" | 20°00'8"  | 8°45'11"  | 11°03'10" | S 14 |
| M15  | 12 07 48 | 3°52'44"  | 24°32'17" | 17°09'19" | 19°02'28" | 28°11'20" | 2°10'00"  | 8°38'20" | 19°58'27" | 27°30'25" | 25°50'18" | 19°57'20" | 19°57'8"  | 8°52'11"  | 11°07'10" | M15  |
| T 16 | 12 11 44 | 4°51'56"  | 6°34'46"  | 18°53'19" | 19°52'28" | 28°20'20" | 2°20'00"  | 8°37'20" | 19°58'27" | 27°30'25" | 25°51'18" | 19°53'20" | 19°53'8"  | 8°58'11"  | 11°11'10" | T 16 |
| W17  | 12 15 41 | 5°51'07"  | 19°18'20" | 20°38'20" | 20°42'28" | 28°29'20" | 2°31'00"  | 8°37'20" | 19°58'27" | 27°30'25" | 25°53'18" | 19°50'20" | 19°50'8"  | 9°05'11"  | 11°14'10" | W17  |
| T 18 | 12 19 38 | 6°50'15"  | 2°14'22"  | 22°24'21" | 21°30'28" | 28°37'20" | 2°41'00"  | 8°36'20" | 19°58'27" | 27°30'25" | 25°54'18" | 19°47'20" | 19°47'8"  | 9°12'11"  | 11°18'10" | T 18 |
| F 19 | 12 23 34 | 7°49'22"  | 15°38'24" | 22°12'22" | 22°19'28" | 28°45'20" | 2°52'00"  | 8°35'20" | 19°58'27" | 27°30'25" | 25°56'18" | 19°44'20" | 19°44'8"  | 9°18'11"  | 11°21'10" | F 19 |
| S 20 | 12 27 31 | 8°48'28"  | 29°32'26" | 23°01'23" | 23°06'28" | 28°52'30" | 3°02'00"  | 8°34'20" | 19°58'27" | 27°30'25" | 25°57'18" | 19°41'20" | 19°41'8"  | 9°25'11"  | 11°25'10" | S 20 |
| S 21 | 12 31 27 | 9°47'31"  | 13°11'53" | 27°52'23" | 23°52'28" | 28°58'30" | 3°13'00"  | 8°32'20" | 19°58'27" | 27°30'25" | 25°59'18" | 19°38'20" | 19°38'8"  | 9°32'11"  | 11°29'10" | S 21 |
| M22  | 12 35 24 | 10°46'32" | 28°39'29" | 24°44'24" | 24°37'29" | 29°04'30" | 3°24'00"  | 8°31'20" | 19°58'27" | 27°30'25" | 26°00'18" | 19°34'20" | 19°34'8"  | 9°38'11"  | 11°32'10" | M22  |
| T 23 | 12 39 20 | 11°45'31" | 13°11'40" | 1°13'38"  | 25°22'29" | 29°09'30" | 3°35'00"  | 8°30'20" | 19°58'27" | 27°30'25" | 26°02'18" | 19°31'20" | 19°31'8"  | 9°45'11"  | 11°36'10" | T 23 |
| W24  | 12 43 17 | 12°44'29" | 28°49'33" | 26°05'29" | 26°05'29" | 29°13'30" | 3°46'00"  | 8°28'20" | 19°58'27" | 27°30'25" | 26°03'18" | 19°28'20" | 19°28'8"  | 9°52'11"  | 11°39'10" | W24  |
| T 25 | 12 47 13 | 13°43'24" | 13°43'24" | 5°29'26"  | 26°48'29" | 29°17'30" | 3°57'00"  | 8°27'20" | 19°58'27" | 27°30'25" | 26°05'17" | 19°25'20" | 19°25'8"  | 9°58'11"  | 11°42'10" | T 25 |
| F 26 | 12 51 10 | 14°42'17" | 28°46'07" | 7°27'27"  | 27°29'29" | 29°20'40" | 4°08'00"  | 8°25'20" | 19°58'27" | 27°30'25" | 26°06'17" | 19°22'20" | 19°22'8"  | 10°05'11" | 11°46'10" | F 26 |
| S 27 | 12 55 07 | 15°41'08" | 13°11'19" | 9°26'28"  | 28°09'29" | 29°22'40" | 4°20'00"  | 8°23'20" | 19°58'27" | 27°30'25" | 26°07'17" | 19°18'20" | 19°18'8"  | 10°12'11" | 11°49'10" | S 27 |
| S 28 | 12 59 03 | 16°39'56" | 27°30'11" | 11°27'28" | 28°48'29" | 29°23'40" | 4°31'00"  | 8°21'20" | 19°58'27" | 27°30'25" | 26°09'17" | 19°15'20" | 19°15'8"  | 10°18'11" | 11°53'10" | S 28 |
| M29  | 13 03 00 | 17°38'43" | 11°01'11" | 13°29'15" | 29°24'24" | 29°24'40" | 4°43'00"  | 8°19'20" | 19°58'27" | 27°30'25" | 26°10'17" | 19°12'20" | 19°12'8"  | 10°25'11" | 11°56'10" | M29  |
| T 30 | 13 06 56 | 18°37'27" | 24°18'15" | 15°32'01" | 30°01'29" | 29°24'40" | 4°54'00"  | 8°17'20" | 19°58'27" | 27°30'25" | 26°12'17" | 19°09'20" | 19°09'8"  | 10°32'11" | 11°59'10" | T 30 |
| W31  | 13 10 53 | 19°36'08" | 7°02'50"  | 17°13'36" | 0°11'38"  | 29°24'40" | 5°05'00"  | 8°15'20" | 19°58'27" | 27°30'25" | 26°13'17" | 19°06'20" | 19°06'8"  | 10°38'11" | 12°02'10" | W31  |

Delta T = 130.63 sec

Julian Calendar 1 March 1574 == Greg. Calendar 11 March 1574

APRIL 1574 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽        | ♀        | ♂       | ♂        | ♂        | ♂       | ♂      | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | Day  |
|------|----------|----------|----------|----------|---------|----------|----------|---------|--------|----------|----------|----------|----------|----------|----------|------|
| T 1  | 13 14 49 | 20°34'48 | 20°04'40 | 19°41'   | 1°12'   | 29°R22   | 5°11'17  | 8°R13   | 20°35' | 27°11'47 | 26°15'   | 17°R47   | 19°11' 3 | 10°M45   | 12°11' 6 | T 1  |
| F 2  | 13 18 46 | 21°33'25 | 3°11'15  | 21°47'   | 1°45'   | 29°M20   | 5°29'    | 8°11'   | 20°36' | 27°48'   | 26°16'   | 17°11'40 | 18°59'   | 10°52'   | 12° 9    | F 2  |
| S 3  | 13 22 42 | 22°32'00 | 15°39'   | 23°54'   | 2°16'   | 29°17'   | 5°41'    | 8° 9    | 20°36' | 27°49'   | 26°17'   | 17°32'   | 18°56'   | 10°58'   | 12°12'   | S 3  |
| S 4  | 13 26 39 | 23°30'33 | 27°53'   | 26° 2    | 2°46'   | 29°13'   | 5°53'    | 8° 6    | 20°37' | 27°51'   | 26°19'   | 17°22'   | 18°53'   | 11° 5    | 12°15'   | S 4  |
| M 5  | 13 30 36 | 24°29'03 | 9°11'58  | 28° 9    | 3°14'   | 29° 9    | 6° 5     | 8° 4    | 20°37' | 27°52'   | 26°20'   | 17°12'   | 18°50'   | 11°12'   | 12°18'   | M 5  |
| T 6  | 13 34 32 | 25°27'32 | 21°57'   | 0°11'17  | 3°40'   | 29° 4    | 6°17'    | 8° 1    | 20°38' | 27°53'   | 26°21'   | 17° 2    | 18°47'   | 11°18'   | 12°21'   | T 6  |
| W 7  | 13 38 29 | 26°25'59 | 3°11'51  | 2°25'    | 4° 5    | 28°58'   | 6°29'    | 7°58'   | 20°38' | 27°54'   | 26°23'   | 16°54'   | 18°44'   | 11°25'   | 12°24'   | W 7  |
| T 8  | 13 42 25 | 27°24'24 | 15°41'   | 4°32'    | 4°27'   | 28°51'   | 6°41'    | 7°55'   | 20°39' | 27°55'   | 26°24'   | 16°47'   | 18°40'   | 11°32'   | 12°27'   | T 8  |
| F 9  | 13 46 22 | 28°22'47 | 27°29'   | 6°38'    | 4°49'   | 28°44'   | 6°54'    | 7°53'   | 20°39' | 27°57'   | 26°25'   | 16°43'   | 18°37'   | 11°38'   | 12°30'   | F 9  |
| S 10 | 13 50 18 | 29°21'09 | 9°11'19  | 8°43'    | 5° 8    | 28°35'   | 7° 6     | 7°50'   | 20°39' | 27°58'   | 26°27'   | 16°41'   | 18°34'   | 11°45'   | 12°33'   | S 10 |
| S 11 | 13 54 15 | 0°11'29  | 21°13'   | 10°47'   | 5°25'   | 28°26'   | 7°18'    | 7°47'   | 20°40' | 27°59'   | 26°28'   | 16°D41   | 18°31'   | 11°52'   | 12°36'   | S 11 |
| M12  | 13 58 11 | 1°17'47  | 3°11'14  | 12°49'   | 5°41'   | 28°17'   | 7°31'    | 7°44'   | 20°40' | 28° 1    | 26°29'   | 16°42'   | 18°28'   | 11°59'   | 12°39'   | M12  |
| T 13 | 14 02 08 | 2°16'04  | 15°29'   | 14°49'   | 5°54'   | 28° 6    | 7°43'    | 7°41'   | 20°40' | 28° 2    | 26°31'   | 16°43'   | 18°24'   | 12° 5    | 12°42'   | T 13 |
| W14  | 14 06 05 | 3°14'19  | 28° 0    | 16°46'   | 6° 5    | 27°55'   | 7°56'    | 7°37'   | 20°40' | 28° 4    | 26°32'   | 16°R44   | 18°21'   | 12°12'   | 12°45'   | W14  |
| T 15 | 14 10 01 | 4°12'33  | 10°11'53 | 18°41'   | 6°14'   | 27°43'   | 8° 8     | 7°34'   | 20°R40 | 28° 5    | 26°33'   | 16°44'   | 18°18'   | 12°19'   | 12°47'   | T 15 |
| F 16 | 14 13 58 | 5°10'45  | 24°11'   | 20°34'   | 6°21'   | 27°30'   | 8°21'    | 7°31'   | 20°40' | 28° 7    | 26°34'   | 16°43'   | 18°15'   | 12°25'   | 12°50'   | F 16 |
| S 17 | 14 17 54 | 6° 8'56  | 7°11'58  | 22°23'   | 6°26'   | 27°17'   | 8°34'    | 7°27'   | 20°40' | 28° 8    | 26°35'   | 16°39'   | 18°12'   | 12°32'   | 12°53'   | S 17 |
| S 18 | 14 21 51 | 7° 7'05  | 22°13'   | 24° 9    | 6°R28   | 27° 3    | 8°47'    | 7°24'   | 20°40' | 28°10'   | 26°37'   | 16°35'   | 18° 9    | 12°39'   | 12°55'   | S 18 |
| M19  | 14 25 47 | 8° 5'12  | 6°11'55  | 25°51'   | 6°28'   | 26°48'   | 9° 0     | 7°20'   | 20°40' | 28°11'   | 26°38'   | 16°29'   | 18° 5    | 12°45'   | 12°58'   | M19  |
| T 20 | 14 29 44 | 9° 3'19  | 21°56'   | 27°31'   | 6°26'   | 26°33'   | 9°12'    | 7°17'   | 20°40' | 28°13'   | 26°39'   | 16°23'   | 18° 2    | 12°52'   | 13° 0    | T 20 |
| W21  | 14 33 40 | 10° 1'23 | 7°11' 9  | 29° 6    | 6°21'   | 26°17'   | 9°25'    | 7°13'   | 20°39' | 28°14'   | 26°40'   | 16°19'   | 17°59'   | 12°59'   | 13° 3    | W21  |
| T 22 | 14 37 37 | 10°59'26 | 22°23'   | 0°11'38  | 6°14'   | 26° 0    | 9°38'    | 7° 9    | 20°39' | 28°16'   | 26°41'   | 16°15'   | 17°56'   | 13° 5    | 13° 5    | T 22 |
| F 23 | 14 41 33 | 11°57'28 | 7°11'28  | 2° 6     | 6° 4    | 25°43'   | 9°51'    | 7° 6    | 20°39' | 28°18'   | 26°42'   | 16°14'   | 17°53'   | 13°12'   | 13° 8    | F 23 |
| S 24 | 14 45 30 | 12°55'27 | 22°16'   | 3°30'    | 5°52'   | 25°26'   | 10° 4    | 7° 2    | 20°38' | 28°19'   | 26°44'   | 16°D13   | 17°50'   | 13°19'   | 13°10'   | S 24 |
| S 25 | 14 49 27 | 13°53'25 | 6°11'41  | 4°51'    | 5°37'   | 25° 7    | 10°18'   | 6°58'   | 20°38' | 28°21'   | 26°45'   | 16°14'   | 17°46'   | 13°25'   | 13°12'   | S 25 |
| M26  | 14 53 23 | 14°51'21 | 20°40'   | 6° 7     | 5°20'   | 24°49'   | 10°31'   | 6°54'   | 20°37' | 28°23'   | 26°46'   | 16°16'   | 17°43'   | 13°32'   | 13°15'   | M26  |
| T 27 | 14 57 20 | 15°49'15 | 4°11'14  | 7°19'    | 5° 1    | 24°30'   | 10°44'   | 6°50'   | 20°37' | 28°24'   | 26°47'   | 16°17'   | 17°40'   | 13°39'   | 13°17'   | T 27 |
| W28  | 15 01 16 | 16°47'08 | 17°23'   | 8°27'    | 4°40'   | 24°10'   | 10°57'   | 6°46'   | 20°36' | 28°26'   | 26°48'   | 16°R18   | 17°37'   | 13°45'   | 13°19'   | W28  |
| T 29 | 15 05 13 | 17°44'58 | 0°11' 9  | 9°31'    | 4°16'   | 23°50'   | 11°10'   | 6°42'   | 20°36' | 28°28'   | 26°49'   | 16°17'   | 17°34'   | 13°52'   | 13°21'   | T 29 |
| F 30 | 15 09 9  | 18°42'47 | 12°11'41 | 10°11'31 | 3°11'50 | 23°11'30 | 11°11'24 | 6°11'38 | 20°35' | 28°11'30 | 26°11'50 | 16°11'15 | 17°11'30 | 13°11'59 | 13°11'23 | F 30 |

## ASTRODIENST EPHEMERIS for the year 1574

geocentric

MAY 1574 JC

00:00 UT

| Day  | Sid.t    | ☉          | ☽        | ♀        | ♂      | ♂      | ♂       | ♂     | ♂      | ♂       | ♂      | ♂       | ♂       | ♂      | ♂      | Day  |
|------|----------|------------|----------|----------|--------|--------|---------|-------|--------|---------|--------|---------|---------|--------|--------|------|
| S 1  | 15 13 6  | 19°34'03.4 | 24°57'57 | 11°11'26 | 3°R22  | 23°R10 | 11°II37 | 6°R34 | 20°R34 | 28°II32 | 26°H51 | 16°R12  | 17°II27 | 14°M 5 | 13°K25 | S 1  |
| S 2  | 15 17 3  | 20°38'19   | 7°A 2    | 12°17    | 2°II52 | 22°M49 | 11°50   | 6°A30 | 20°B33 | 28°33   | 26°52  | 16°II 8 | 17°24   | 14°12  | 13°27  | S 2  |
| M 3  | 15 20 59 | 21°36'03   | 19° 0    | 13° 3    | 2°21   | 22°28  | 12° 4   | 6°25  | 20°33  | 28°35   | 26°53  | 16° 4   | 17°21   | 14°19  | 13°29  | M 3  |
| T 4  | 15 24 56 | 22°33'45   | 0°M52    | 13°45    | 1°48   | 22° 7  | 12°17   | 6°21  | 20°32  | 28°37   | 26°54  | 16° 0   | 17°18   | 14°25  | 13°31  | T 4  |
| W 5  | 15 28 52 | 23°31'26   | 12°42    | 14°22    | 1°13   | 21°46  | 12°31   | 6°17  | 20°31  | 28°39   | 26°55  | 15°57   | 17°15   | 14°32  | 13°33  | W 5  |
| T 6  | 15 32 49 | 24°29'06   | 24°31    | 14°55    | 0°38   | 21°25  | 12°44   | 6°13  | 20°30  | 28°41   | 26°56  | 15°54   | 17°11   | 14°39  | 13°35  | T 6  |
| F 7  | 15 36 45 | 25°26'44   | 6°A22    | 15°23    | 0° 1   | 21° 4  | 12°58   | 6° 8  | 20°29  | 28°43   | 26°57  | 15°53   | 17° 8   | 14°45  | 13°37  | F 7  |
| S 8  | 15 40 42 | 26°24'21   | 18°16    | 15°46    | 29°B24 | 20°43  | 13°11   | 6° 4  | 20°28  | 28°45   | 26°58  | 15°D53  | 17° 5   | 14°52  | 13°38  | S 8  |
| S 9  | 15 44 38 | 27°21'57   | 0°B17    | 16° 5    | 28°46  | 20°22  | 13°25   | 6° 0  | 20°27  | 28°47   | 26°58  | 15°53   | 17° 2   | 14°59  | 13°40  | S 9  |
| M10  | 15 48 35 | 28°19'32   | 12°26    | 16°19    | 28° 9  | 20° 1  | 13°38   | 5°55  | 20°26  | 28°49   | 26°59  | 15°54   | 16°59   | 15° 5  | 13°41  | M10  |
| T 11 | 15 52 32 | 29°17'05   | 24°47    | 16°28    | 27°31  | 19°40  | 13°52   | 5°51  | 20°24  | 28°51   | 27° 0  | 15°56   | 16°56   | 15°12  | 13°43  | T 11 |
| W12  | 15 56 28 | 0°II14'38  | 7°A23    | 16°R32   | 26°53  | 19°20  | 14° 6   | 5°47  | 20°23  | 28°53   | 27° 1  | 15°57   | 16°52   | 15°19  | 13°44  | W12  |
| T 13 | 16 0 25  | 1°12'10    | 20°18    | 16°32    | 26°16  | 18°59  | 14°19   | 5°42  | 20°22  | 28°55   | 27° 2  | 15°58   | 16°49   | 15°25  | 13°46  | T 13 |
| F 14 | 16 4 21  | 2° 9'41    | 3°H34    | 16°27    | 25°40  | 18°39  | 14°33   | 5°38  | 20°21  | 28°57   | 27° 2  | 15°R58  | 16°46   | 15°32  | 13°47  | F 14 |
| S 15 | 16 8 18  | 3° 7'12    | 17°14    | 16°18    | 25° 5  | 18°20  | 14°47   | 5°33  | 20°19  | 28°59   | 27° 3  | 15°58   | 16°43   | 15°39  | 13°49  | S 15 |
| S 16 | 16 12 14 | 4° 4'41    | 1°V18    | 16° 5    | 24°31  | 18° 0  | 15° 0   | 5°29  | 20°18  | 29° 1   | 27° 4  | 15°57   | 16°40   | 15°45  | 13°50  | S 16 |
| M17  | 16 16 11 | 5° 2'10    | 15°45    | 15°48    | 23°59  | 17°41  | 15°14   | 5°24  | 20°16  | 29° 3   | 27° 5  | 15°56   | 16°36   | 15°52  | 13°51  | M17  |
| T 18 | 16 20 7  | 5°59'38    | 0°B33    | 15°27    | 23°28  | 17°23  | 15°28   | 5°20  | 20°15  | 29° 5   | 27° 5  | 15°54   | 16°33   | 15°59  | 13°52  | T 18 |
| W19  | 16 24 4  | 6°57'05    | 15°34    | 15° 3    | 22°59  | 17° 5  | 15°41   | 5°16  | 20°13  | 29° 7   | 27° 6  | 15°53   | 16°30   | 16° 5  | 13°53  | W19  |
| T 20 | 16 28 1  | 7°54'31    | 0°II41   | 14°36    | 22°31  | 16°48  | 15°55   | 5°11  | 20°12  | 29° 9   | 27° 7  | 15°53   | 16°27   | 16°12  | 13°54  | T 20 |
| F 21 | 16 31 57 | 8°51'57    | 15°44    | 14° 7    | 22° 6  | 16°31  | 16° 9   | 5° 7  | 20°10  | 29°11   | 27° 7  | 15°D53  | 16°24   | 16°19  | 13°55  | F 21 |
| S 22 | 16 35 54 | 9°49'22    | 0°B35    | 13°36    | 21°43  | 16°15  | 16°23   | 5° 2  | 20° 9  | 29°13   | 27° 8  | 15°53   | 16°21   | 16°25  | 13°56  | S 22 |
| S 23 | 16 39 50 | 10°46'45   | 15° 8    | 13° 3    | 21°22  | 15°59  | 16°37   | 4°58  | 20° 7  | 29°16   | 27° 8  | 15°53   | 16°17   | 16°32  | 13°57  | S 23 |
| M24  | 16 43 47 | 11°44'08   | 29°16    | 12°30    | 21° 3  | 15°44  | 16°50   | 4°53  | 20° 5  | 29°18   | 27° 9  | 15°54   | 16°14   | 16°39  | 13°58  | M24  |
| T 25 | 16 47 43 | 12°41'30   | 12°U57   | 11°56    | 20°47  | 15°30  | 17° 4   | 4°49  | 20° 4  | 29°20   | 27° 9  | 15°54   | 16°11   | 16°45  | 13°59  | T 25 |
| W26  | 16 51 40 | 13°38'51   | 26°13    | 11°23    | 20°32  | 15°16  | 17°18   | 4°45  | 20° 2  | 29°22   | 27°10  | 15°54   | 16° 8   | 16°52  | 14° 0  | W26  |
| T 27 | 16 55 36 | 14°36'10   | 9°M 5    | 10°51    | 20°21  | 15° 3  | 17°32   | 4°40  | 20° 0  | 29°24   | 27°10  | 15°54   | 16° 5   | 16°59  | 14° 0  | T 27 |
| F 28 | 16 59 33 | 15°33'29   | 21°36    | 10°20    | 20°11  | 14°51  | 17°46   | 4°36  | 19°58  | 29°26   | 27°11  | 15°54   | 16° 2   | 17° 5  | 14° 1  | F 28 |
| S 29 | 17 3 30  | 16°30'46   | 3°A51    | 9°51     | 20° 4  | 14°40  | 17°59   | 4°32  | 19°56  | 29°28   | 27°11  | 15°54   | 15°58   | 17°12  | 14° 2  | S 29 |
| S 30 | 17 7 26  | 17°28'03   | 15°53    | 9°24     | 20° 0  | 14°30  | 18°13   | 4°27  | 19°54  | 29°31   | 27°12  | 15°54   | 15°55   | 17°19  | 14° 2  | S 30 |
| M31  | 17 11 23 | 18°II25'19 | 27°A46   | 9°II 1   | 19°D58 | 14°M20 | 18°II27 | 4°A23 | 19°B53 | 29°II33 | 27°H12 | 15°II55 | 15°II52 | 17°M25 | 14°K 2 | M31  |

Delta T = 130.31 sec

Julian Calendar 1 May 1574 == Greg. Calendar 11 May 1574

JUNE 1574 JC

00:00 UT

| Day  | Sid.t    | ☉          | ☽      | ♀      | ♂      | ♂      | ♂       | ♂     | ♂      | ♂       | ♂      | ♂       | ♂       | ♂      | ♂      | Day  |
|------|----------|------------|--------|--------|--------|--------|---------|-------|--------|---------|--------|---------|---------|--------|--------|------|
| T 1  | 17 15 19 | 19°II22'34 | 9°M36  | 8°R40  | 19°B58 | 14°R11 | 18°II41 | 4°R19 | 19°R51 | 29°II35 | 27°H13 | 15°II55 | 15°II49 | 17°M32 | 14°K 3 | T 1  |
| W 2  | 17 19 16 | 20°19'48   | 21°25  | 8°II24 | 20° 0  | 14°M 3 | 18°55   | 4°A15 | 19°B49 | 29°37   | 27°13  | 15°55   | 15°46   | 17°39  | 14° 3  | W 2  |
| T 3  | 17 23 12 | 21°17'02   | 3°A16  | 8°11   | 20° 5  | 13°56  | 19° 8   | 4°11  | 19°47  | 29°40   | 27°13  | 15°56   | 15°42   | 17°45  | 14° 4  | T 3  |
| F 4  | 17 27 9  | 22°14'15   | 15°12  | 8° 3   | 20°12  | 13°49  | 19°22   | 4° 6  | 19°45  | 29°42   | 27°14  | 15°R56  | 15°39   | 17°52  | 14° 4  | F 4  |
| S 5  | 17 31 5  | 23°11'28   | 27°15  | 7°D59  | 20°21  | 13°44  | 19°36   | 4° 2  | 19°43  | 29°44   | 27°14  | 15°56   | 15°36   | 17°59  | 14° 4  | S 5  |
| S 6  | 17 35 2  | 24° 8'41   | 9°B28  | 7°59   | 20°32  | 13°39  | 19°50   | 3°58  | 19°40  | 29°46   | 27°14  | 15°55   | 15°33   | 18° 5  | 14° 4  | S 6  |
| M 7  | 17 38 59 | 25° 5'53   | 21°51  | 8° 4   | 20°45  | 13°35  | 20° 4   | 3°54  | 19°38  | 29°48   | 27°14  | 15°54   | 15°30   | 18°12  | 14° 4  | M 7  |
| T 8  | 17 42 55 | 26° 3'05   | 4°A26  | 8°14   | 21° 1  | 13°32  | 20°17   | 3°50  | 19°36  | 29°51   | 27°15  | 15°53   | 15°27   | 18°19  | 14°R 4 | T 8  |
| W 9  | 17 46 52 | 27° 0'16   | 17°16  | 8°28   | 21°18  | 13°30  | 20°31   | 3°47  | 19°34  | 29°53   | 27°15  | 15°52   | 15°23   | 18°25  | 14° 4  | W 9  |
| T 10 | 17 50 48 | 27°57'28   | 0°H20  | 8°48   | 21°37  | 13°28  | 20°45   | 3°43  | 19°32  | 29°55   | 27°15  | 15°50   | 15°20   | 18°32  | 14° 4  | T 10 |
| F 11 | 17 54 45 | 28°54'39   | 13°42  | 9°12   | 21°58  | 13°D27 | 20°59   | 3°39  | 19°30  | 29°57   | 27°15  | 15°49   | 15°17   | 18°39  | 14° 4  | F 11 |
| S 12 | 17 58 41 | 29°51'51   | 27°20  | 9°40   | 22°20  | 13°28  | 21°12   | 3°35  | 19°28  | 29°59   | 27°15  | 15°D49  | 15°14   | 18°45  | 14° 4  | S 12 |
| S 13 | 18 2 38  | 0°A49'03   | 11°V16 | 10°14  | 22°45  | 13°29  | 21°26   | 3°31  | 19°25  | 0°B 2   | 27°16  | 15°49   | 15°11   | 18°52  | 14° 3  | S 13 |
| M14  | 18 6 34  | 1°46'14    | 25°30  | 10°52  | 23°11  | 13°30  | 21°40   | 3°28  | 19°23  | 0° 4    | 27°16  | 15°50   | 15° 8   | 18°59  | 14° 3  | M14  |
| T 15 | 18 10 31 | 2°43'26    | 9°B58  | 11°35  | 23°38  | 13°33  | 21°53   | 3°24  | 19°21  | 0° 6    | 27°16  | 15°51   | 15° 4   | 19° 5  | 14° 3  | T 15 |
| W16  | 18 14 28 | 3°40'39    | 24°39  | 12°22  | 24° 7  | 13°36  | 22° 7   | 3°21  | 19°19  | 0° 8    | 27°16  | 15°52   | 15° 1   | 19°12  | 14° 2  | W16  |
| T 17 | 18 18 24 | 4°37'51    | 9°II26 | 13°13  | 24°38  | 13°41  | 22°21   | 3°17  | 19°16  | 0°11    | 27°16  | 15°R53  | 14°58   | 19°18  | 14° 2  | T 17 |
| F 18 | 18 22 21 | 5°35'04    | 24°13  | 14° 9  | 25°10  | 13°46  | 22°34   | 3°14  | 19°14  | 0°13    | 27°R16 | 15°53   | 14°55   | 19°25  | 14° 1  | F 18 |
| S 19 | 18 26 17 | 6°32'16    | 8°B53  | 15°10  | 25°43  | 13°51  | 22°48   | 3°10  | 19°12  | 0°15    | 27°16  | 15°52   | 14°52   | 19°32  | 14° 0  | S 19 |
| S 20 | 18 30 14 | 7°29'29    | 23°19  | 16°15  | 26°17  | 13°58  | 23° 1   | 3° 7  | 19° 9  | 0°17    | 27°16  | 15°50   | 14°48   | 19°38  | 14° 0  | S 20 |
| M21  | 18 34 10 | 8°26'42    | 7°D26  | 17°24  | 26°53  | 14° 5  | 23°15   | 3° 4  | 19° 7  | 0°20    | 27°16  | 15°47   | 14°45   | 19°45  | 13°59  | M21  |
| T 22 | 18 38 7  | 9°23'54    | 21°10  | 18°37  | 27°30  | 14°13  | 23°28   | 3° 1  | 19° 5  | 0°22    | 27°16  | 15°43   | 14°42   | 19°52  | 13°58  | T 22 |
| W23  | 18 42 4  | 10°21'07   | 4°M30  | 19°54  | 28° 8  | 14°22  | 23°42   | 2°58  | 19° 2  | 0°24    | 27°15  | 15°40   | 14°39   | 19°58  | 13°57  | W23  |
| T 24 | 18 46 0  | 11°18'19   | 17°25  | 21°15  | 28°47  | 14°32  | 23°55   | 2°55  | 19° 0  | 0°26    | 27°15  | 15°37   | 14°36   | 20° 5  | 13°57  | T 24 |
| F 25 | 18 49 57 | 12°15'31   | 29°59  | 22°41  | 29°27  | 14°42  | 24° 9   | 2°52  | 18°57  | 0°28    | 27°15  | 15°36   | 14°33   | 20°12  | 13°56  | F 25 |
| S 26 | 18 53 53 | 13°12'43   | 12°A14 | 24°10  | 0°II 9 | 14°53  | 24°22   | 2°49  | 18°55  | 0°31    | 27°15  | 15°D35  | 14°29   | 20°18  | 13°55  | S 26 |
| S 27 | 18 57 50 | 14° 9'55   | 24°16  | 25°43  | 0°51   | 15° 5  | 24°36   | 2°46  | 18°53  | 0°33    | 27°15  | 15°35   | 14°26   | 20°25  | 13°54  | S 27 |
| M28  | 19 1 46  | 15° 7'07   | 6°M 9  | 27°20  | 1°34   | 15°17  | 24°49   | 2°43  | 18°50  | 0°35    | 27°15  | 15°37   | 14°23   | 20°32  | 13°52  | M28  |
| T 29 | 19 5 43  | 16° 4'20   | 17°58  | 29° 0  | 2°18   | 15°30  | 25° 2   | 2°41  | 18°48  | 0°37    | 27°14  | 15°38   | 14°20   | 20°38  | 13°51  | T 29 |
| W30  | 19 9 39  | 17°B1'32   | 29°M48 | 0°B44  | 3°II 3 | 15°M44 | 25°II15 | 2°A38 | 18°B45 | 0°B39   | 27°H14 | 15°II40 | 14°II17 | 20°M45 | 13°K50 | W30  |

Delta T = 130.16 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1574  
geocentric

JULY 1574 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀     | ♂     | ♂      | ♂     | ♂     | ♂      | ♂    | ♂      | ♂       | ♂       | ♂      | ♂      | Day  |
|------|----------|----------|--------|-------|-------|--------|-------|-------|--------|------|--------|---------|---------|--------|--------|------|
| T 1  | 19 13 36 | 17°58'45 | 11°43  | 2°31  | 3°49  | 15°59  | 25°29 | 2°R36 | 18°R43 | 0°42 | 27°R14 | 15°R41  | 14°II14 | 20°M52 | 13°R49 | T 1  |
| F 2  | 19 17 33 | 18°55'58 | 23°46  | 4°22  | 4°36  | 16°14  | 25°42 | 2°R33 | 18°R41 | 0°44 | 27°R14 | 15°II41 | 14°10   | 20°58  | 13°R48 | F 2  |
| S 3  | 19 21 29 | 19°53'11 | 6°30   | 6°15  | 5°23  | 16°29  | 25°55 | 2°31  | 18°38  | 0°46 | 27°13  | 15°39   | 14° 7   | 21° 5  | 13°46  | S 3  |
| S 4  | 19 25 26 | 20°50'25 | 18°27  | 8°11  | 6°11  | 16°45  | 26° 8 | 2°29  | 18°36  | 0°48 | 27°13  | 15°36   | 14° 4   | 21°12  | 13°45  | S 4  |
| M 5  | 19 29 22 | 21°47'39 | 1°8    | 10°10 | 7° 0  | 17° 2  | 26°21 | 2°27  | 18°33  | 0°50 | 27°13  | 15°31   | 14° 1   | 21°18  | 13°43  | M 5  |
| T 6  | 19 33 19 | 22°44'54 | 14° 4  | 12°10 | 7°50  | 17°20  | 26°34 | 2°25  | 18°31  | 0°52 | 27°12  | 15°25   | 13°58   | 21°25  | 13°42  | T 6  |
| W 7  | 19 37 15 | 23°42'10 | 27°15  | 14°13 | 8°40  | 17°38  | 26°47 | 2°23  | 18°29  | 0°54 | 27°12  | 15°19   | 13°54   | 21°32  | 13°40  | W 7  |
| T 8  | 19 41 12 | 24°39'26 | 10°38  | 16°17 | 9°31  | 17°56  | 27° 0 | 2°21  | 18°26  | 0°56 | 27°11  | 15°13   | 13°51   | 21°38  | 13°39  | T 8  |
| F 9  | 19 45 8  | 25°36'43 | 24°14  | 18°22 | 10°23 | 18°15  | 27°13 | 2°19  | 18°24  | 0°58 | 27°11  | 15° 8   | 13°48   | 21°45  | 13°37  | F 9  |
| S 10 | 19 49 5  | 26°34'01 | 8°Y 0  | 20°28 | 11°15 | 18°35  | 27°26 | 2°17  | 18°21  | 1° 1 | 27°10  | 15° 5   | 13°45   | 21°52  | 13°35  | S 10 |
| S 11 | 19 53 2  | 27°31'20 | 21°57  | 22°34 | 12° 8 | 18°55  | 27°39 | 2°16  | 18°19  | 1° 3 | 27°10  | 15°D 3  | 13°42   | 21°58  | 13°34  | S 11 |
| M12  | 19 56 58 | 28°28'40 | 6°3    | 24°41 | 13° 2 | 19°16  | 27°51 | 2°14  | 18°17  | 1° 5 | 27° 9  | 15° 4   | 13°39   | 22° 5  | 13°32  | M12  |
| T 13 | 20 0 55  | 29°26'01 | 20°16  | 26°48 | 13°56 | 19°37  | 28° 4 | 2°13  | 18°14  | 1° 7 | 27° 9  | 15° 5   | 13°35   | 22°12  | 13°30  | T 13 |
| W14  | 20 4 51  | 0°23'23  | 4°II36 | 28°54 | 14°50 | 19°59  | 28°17 | 2°11  | 18°12  | 1° 9 | 27° 8  | 15° 6   | 13°32   | 22°18  | 13°28  | W14  |
| T 15 | 20 8 48  | 1°20'46  | 18°59  | 1°0   | 15°46 | 20°21  | 28°29 | 2°10  | 18°10  | 1°11 | 27° 8  | 15°R 6  | 13°29   | 22°25  | 13°26  | T 15 |
| F 16 | 20 12 44 | 2°18'11  | 3°21   | 3° 5  | 16°41 | 20°44  | 28°42 | 2° 9  | 18° 7  | 1°13 | 27° 7  | 15° 5   | 13°26   | 22°32  | 13°24  | F 16 |
| S 17 | 20 16 41 | 3°15'36  | 17°39  | 5° 9  | 17°37 | 21° 7  | 28°54 | 2° 8  | 18° 5  | 1°15 | 27° 7  | 15° 1   | 13°23   | 22°38  | 13°22  | S 17 |
| S 18 | 20 20 37 | 4°13'03  | 1°048  | 7°12  | 18°34 | 21°31  | 29° 7 | 2° 7  | 18° 3  | 1°17 | 27° 6  | 14°56   | 13°20   | 22°45  | 13°20  | S 18 |
| M19  | 20 24 34 | 5°10'30  | 15°42  | 9°14  | 19°31 | 21°55  | 29°19 | 2° 6  | 18° 0  | 1°18 | 27° 5  | 14°48   | 13°16   | 22°52  | 13°18  | M19  |
| T 20 | 20 28 31 | 6° 7'58  | 29°18  | 11°15 | 20°28 | 22°20  | 29°32 | 2° 5  | 17°58  | 1°20 | 27° 5  | 14°40   | 13°13   | 22°58  | 13°16  | T 20 |
| W21  | 20 32 27 | 7° 5'28  | 12°33  | 13°14 | 21°26 | 22°45  | 29°44 | 2° 5  | 17°56  | 1°22 | 27° 4  | 14°31   | 13°10   | 23° 5  | 13°14  | W21  |
| T 22 | 20 36 24 | 8° 2'57  | 25°27  | 15°12 | 22°24 | 23°10  | 29°56 | 2° 4  | 17°54  | 1°24 | 27° 3  | 14°23   | 13° 7   | 23°11  | 13°12  | T 22 |
| F 23 | 20 40 20 | 9° 0'28  | 8°0    | 17° 9 | 23°23 | 23°36  | 0°58  | 2° 4  | 17°51  | 1°26 | 27° 3  | 14°17   | 13° 4   | 23°18  | 13°10  | F 23 |
| S 24 | 20 44 17 | 9°58'00  | 20°16  | 19° 4 | 24°22 | 24° 3  | 0°20  | 2° 3  | 17°49  | 1°28 | 27° 2  | 14°13   | 13° 0   | 23°25  | 13° 7  | S 24 |
| S 25 | 20 48 13 | 10°55'32 | 2°M18  | 20°57 | 25°21 | 24°29  | 0°32  | 2° 3  | 17°47  | 1°30 | 27° 1  | 14°11   | 12°57   | 23°31  | 13° 5  | S 25 |
| M26  | 20 52 10 | 11°53'06 | 14°11  | 22°49 | 26°21 | 24°56  | 0°44  | 2° 3  | 17°45  | 1°32 | 27° 0  | 14°D10  | 12°54   | 23°38  | 13° 3  | M26  |
| T 27 | 20 56 6  | 12°50'40 | 26° 0  | 24°40 | 27°21 | 25°24  | 0°56  | 2° 2  | 17°43  | 1°33 | 26°59  | 14°11   | 12°51   | 23°45  | 13° 0  | T 27 |
| W28  | 21 0 3   | 13°48'15 | 7°R50  | 26°29 | 28°22 | 25°52  | 1° 8  | 2°D 2 | 17°41  | 1°35 | 26°59  | 14°12   | 12°48   | 23°51  | 12°58  | W28  |
| T 29 | 21 4 0   | 14°45'52 | 19°48  | 28°16 | 29°23 | 26°20  | 1°19  | 2° 3  | 17°39  | 1°37 | 26°58  | 14°R12  | 12°45   | 23°58  | 12°55  | T 29 |
| F 30 | 21 7 56  | 15°43'29 | 1°356  | 0°M2  | 0°224 | 26°49  | 1°31  | 2° 3  | 17°37  | 1°39 | 26°57  | 14°10   | 12°41   | 24° 5  | 12°53  | F 30 |
| S 31 | 21 11 53 | 16°41'08 | 14°R19 | 1°M47 | 1°225 | 27°M18 | 1°243 | 2°R 3 | 17°R35 | 1°40 | 26°R56 | 14°II 6 | 12°II38 | 24°M11 | 12°R50 | S 31 |

Delta T = 130.00 sec Julian Calendar 1 July 1574 == Greg. Calendar 11 July 1574

AUGUST 1574 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀     | ♂     | ♂      | ♂    | ♂     | ♂      | ♂    | ♂      | ♂       | ♂       | ♂      | ♂      | Day  |
|------|----------|----------|--------|-------|-------|--------|------|-------|--------|------|--------|---------|---------|--------|--------|------|
| S 1  | 21 15 49 | 17°38'47 | 27°30  | 3°M30 | 2°27  | 27°M47 | 1°54 | 2°R 3 | 17°R33 | 1°42 | 26°R55 | 14°R 0  | 12°II35 | 24°M18 | 12°R48 | S 1  |
| M 2  | 21 19 46 | 18°36'28 | 10°30  | 5°11  | 3°29  | 28°17  | 2° 5 | 2° 4  | 17°R31 | 1°44 | 26°R54 | 13°II52 | 12°32   | 24°25  | 12°R45 | M 2  |
| T 3  | 21 23 42 | 19°34'10 | 23°18  | 6°52  | 4°31  | 28°47  | 2°17 | 2° 4  | 17°29  | 1°45 | 26°54  | 13°41   | 12°29   | 24°31  | 12°43  | T 3  |
| W 4  | 21 27 39 | 20°31'54 | 6°R53  | 8°30  | 5°34  | 29°18  | 2°28 | 2° 5  | 17°27  | 1°47 | 26°53  | 13°31   | 12°25   | 24°38  | 12°40  | W 4  |
| T 5  | 21 31 35 | 21°29'39 | 20°42  | 10° 8 | 6°37  | 29°49  | 2°39 | 2° 6  | 17°25  | 1°48 | 26°52  | 13°20   | 12°22   | 24°45  | 12°38  | T 5  |
| F 6  | 21 35 32 | 22°27'25 | 4°Y40  | 11°44 | 7°40  | 0°R20  | 2°50 | 2° 7  | 17°23  | 1°50 | 26°51  | 13°12   | 12°19   | 24°51  | 12°35  | F 6  |
| S 7  | 21 39 29 | 23°25'13 | 18°45  | 13°18 | 8°44  | 0°51   | 3° 1 | 2° 8  | 17°21  | 1°52 | 26°50  | 13° 5   | 12°16   | 24°58  | 12°32  | S 7  |
| S 8  | 21 43 25 | 24°23'03 | 2°R53  | 14°51 | 9°48  | 1°23   | 3°12 | 2° 9  | 17°20  | 1°53 | 26°49  | 13° 1   | 12°13   | 25° 5  | 12°30  | S 8  |
| M 9  | 21 47 22 | 25°20'55 | 17° 2  | 16°23 | 10°52 | 1°55   | 3°23 | 2°10  | 17°18  | 1°55 | 26°48  | 12°59   | 12°10   | 25°11  | 12°27  | M 9  |
| T 10 | 21 51 18 | 26°18'48 | 1°II 9 | 17°53 | 11°56 | 2°27   | 3°33 | 2°11  | 17°16  | 1°56 | 26°47  | 12°D59  | 12° 6   | 25°18  | 12°24  | T 10 |
| W11  | 21 55 15 | 27°16'44 | 15°15  | 19°22 | 13° 0 | 2°59   | 3°44 | 2°12  | 17°15  | 1°57 | 26°46  | 12°R59  | 12° 3   | 25°25  | 12°21  | W11  |
| T 12 | 21 59 11 | 28°14'41 | 29°18  | 20°50 | 14° 5 | 3°32   | 3°55 | 2°14  | 17°13  | 1°59 | 26°45  | 12°59   | 12° 0   | 25°31  | 12°19  | T 12 |
| F 13 | 22 3 8   | 29°12'41 | 13°217 | 22°16 | 15°10 | 4° 5   | 4° 5 | 2°15  | 17°11  | 2° 0 | 26°44  | 12°56   | 11°57   | 25°38  | 12°16  | F 13 |
| S 14 | 22 7 4   | 0°M10'42 | 27°10  | 23°41 | 16°15 | 4°39   | 4°15 | 2°17  | 17°10  | 2° 2 | 26°43  | 12°50   | 11°54   | 25°45  | 12°13  | S 14 |
| S 15 | 22 11 1  | 1° 8'44  | 10°054 | 25° 4 | 17°21 | 5°13   | 4°26 | 2°19  | 17° 8  | 2° 3 | 26°42  | 12°42   | 11°51   | 25°51  | 12°10  | S 15 |
| M16  | 22 14 58 | 2° 6'49  | 24°27  | 26°26 | 18°27 | 5°47   | 4°36 | 2°21  | 17° 7  | 2° 4 | 26°41  | 12°31   | 11°47   | 25°58  | 12° 7  | M16  |
| T 17 | 22 18 54 | 3° 4'55  | 7°M45  | 27°46 | 19°32 | 6°21   | 4°46 | 2°22  | 17° 5  | 2° 6 | 26°40  | 12°18   | 11°44   | 26° 4  | 12° 5  | T 17 |
| W18  | 22 22 51 | 4° 3'03  | 20°48  | 29° 4 | 20°39 | 6°55   | 4°56 | 2°24  | 17° 4  | 2° 7 | 26°38  | 12° 6   | 11°41   | 26°11  | 12° 2  | W18  |
| T 19 | 22 26 47 | 5° 1'12  | 3°232  | 0°21  | 21°45 | 7°30   | 5° 5 | 2°27  | 17° 3  | 2° 8 | 26°37  | 11°54   | 11°38   | 26°18  | 11°59  | T 19 |
| F 20 | 22 30 44 | 5°59'23  | 16° 0  | 1°36  | 22°51 | 8° 5   | 5°15 | 2°29  | 17° 1  | 2° 9 | 26°36  | 11°44   | 11°35   | 26°24  | 11°56  | F 20 |
| S 21 | 22 34 40 | 6°57'36  | 28°12  | 2°50  | 23°58 | 8°40   | 5°25 | 2°31  | 17° 0  | 2°11 | 26°35  | 11°37   | 11°31   | 26°31  | 11°53  | S 21 |
| S 22 | 22 38 37 | 7°55'50  | 10°M12 | 4° 2  | 25° 5 | 9°16   | 5°34 | 2°33  | 16°59  | 2°12 | 26°34  | 11°32   | 11°28   | 26°38  | 11°50  | S 22 |
| M23  | 22 42 33 | 8°54'06  | 22° 4  | 5°11  | 26°12 | 9°52   | 5°44 | 2°36  | 16°57  | 2°13 | 26°33  | 11°30   | 11°25   | 26°44  | 11°47  | M23  |
| T 24 | 22 46 30 | 9°52'23  | 3°R52  | 6°19  | 27°19 | 10°27  | 5°53 | 2°38  | 16°56  | 2°14 | 26°32  | 11°29   | 11°22   | 26°51  | 11°45  | T 24 |
| W25  | 22 50 27 | 10°50'42 | 15°42  | 7°25  | 28°27 | 11° 4  | 6° 2 | 2°41  | 16°55  | 2°15 | 26°31  | 11°29   | 11°19   | 26°58  | 11°42  | W25  |
| T 26 | 22 54 23 | 11°49'03 | 27°39  | 8°28  | 29°34 | 11°40  | 6°11 | 2°44  | 16°54  | 2°16 | 26°30  | 11°28   | 11°16   | 27° 4  | 11°39  | T 26 |
| F 27 | 22 58 20 | 12°47'25 | 9°R49  | 9°29  | 0°042 | 12°17  | 6°20 | 2°47  | 16°53  | 2°17 | 26°28  | 11°26   | 11°12   | 27°11  | 11°36  | F 27 |
| S 28 | 23 2 16  | 13°45'49 | 22°17  | 10°28 | 1°50  | 12°54  | 6°29 | 2°49  | 16°52  | 2°18 | 26°27  | 11°22   | 11° 9   | 27°18  | 11°33  | S 28 |
| S 29 | 23 6 13  | 14°44'14 | 5°36   | 11°23 | 2°58  | 13°31  | 6°37 | 2°52  | 16°51  | 2°19 | 26°26  | 11°15   | 11° 6   | 27°24  | 11°30  | S 29 |
| M30  | 23 10 9  | 15°42'41 | 18°19  | 12°16 | 4° 6  | 14° 8  | 6°46 | 2°56  | 16°50  | 2°20 | 26°25  | 11° 6   | 11° 3   | 27°31  | 11°27  | M30  |
| T 31 | 23 14 6  | 16°41'10 | 1°R54  | 13°26 | 5°04  | 14°R45 | 6°54 | 2°R59 | 16°R49 | 2°21 | 26°R24 | 10°II55 | 11°II 0 | 27°M38 | 11°R24 | T 31 |

Delta T = 129.84 sec Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1574

## geocentric

SEPTEMBER 1574 JC

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                    | ♀                   | ♂                   | ♂                  | ♂                 | ♂                 | ♂                   | ♂                  | ♂                   | ♂                    | ♂                    | ♂                    | ♂                   | Day  |
|------|----------|-----------------------|----------------------|---------------------|---------------------|--------------------|-------------------|-------------------|---------------------|--------------------|---------------------|----------------------|----------------------|----------------------|---------------------|------|
| W 1  | 23 18 2  | 17 <sup>h</sup> 39'40 | 15 <sup>h</sup> 51   | 13 <sup>h</sup> 52  | 6 <sup>h</sup> 23   | 15 <sup>h</sup> 23 | 7 <sup>h</sup> 3  | 3 <sup>h</sup> 2  | 16 <sup>h</sup> R49 | 2 <sup>h</sup> 22  | 26 <sup>h</sup> R23 | 10 <sup>h</sup> R43  | 10 <sup>h</sup> II57 | 27 <sup>h</sup> ML44 | 11 <sup>h</sup> R22 | W 1  |
| T 2  | 23 21 59 | 18 <sup>h</sup> 38'13 | 0 <sup>h</sup> Y 5   | 14 <sup>h</sup> 35  | 7 <sup>h</sup> 32   | 16 <sup>h</sup> 1  | 7 <sup>h</sup> 11 | 3 <sup>h</sup> 5  | 16 <sup>h</sup> 348 | 2 <sup>h</sup> 22  | 26 <sup>h</sup> 21  | 10 <sup>h</sup> II31 | 10 <sup>h</sup> 53   | 27 <sup>h</sup> 51   | 11 <sup>h</sup> 19  | T 2  |
| F 3  | 23 25 55 | 19 <sup>h</sup> 36'47 | 14 <sup>h</sup> 30   | 15 <sup>h</sup> 14  | 8 <sup>h</sup> 41   | 16 <sup>h</sup> 39 | 7 <sup>h</sup> 19 | 3 <sup>h</sup> 9  | 16 <sup>h</sup> 47  | 2 <sup>h</sup> 23  | 26 <sup>h</sup> 20  | 10 <sup>h</sup> 21   | 10 <sup>h</sup> 50   | 27 <sup>h</sup> 57   | 11 <sup>h</sup> 16  | F 3  |
| S 4  | 23 29 52 | 20 <sup>h</sup> 35'24 | 29 <sup>h</sup> 0    | 15 <sup>h</sup> 49  | 9 <sup>h</sup> 50   | 17 <sup>h</sup> 17 | 7 <sup>h</sup> 27 | 3 <sup>h</sup> 12 | 16 <sup>h</sup> 47  | 2 <sup>h</sup> 24  | 26 <sup>h</sup> 19  | 10 <sup>h</sup> 14   | 10 <sup>h</sup> 47   | 28 <sup>h</sup> 4    | 11 <sup>h</sup> 13  | S 4  |
| S 5  | 23 33 49 | 21 <sup>h</sup> 34'03 | 13 <sup>h</sup> 29   | 16 <sup>h</sup> 20  | 10 <sup>h</sup> 59  | 17 <sup>h</sup> 55 | 7 <sup>h</sup> 34 | 3 <sup>h</sup> 16 | 16 <sup>h</sup> 46  | 2 <sup>h</sup> 25  | 26 <sup>h</sup> 18  | 10 <sup>h</sup> 9    | 10 <sup>h</sup> 44   | 28 <sup>h</sup> 11   | 11 <sup>h</sup> 10  | S 5  |
| M 6  | 23 37 45 | 22 <sup>h</sup> 32'44 | 27 <sup>h</sup> 52   | 16 <sup>h</sup> 45  | 12 <sup>h</sup> 8   | 18 <sup>h</sup> 34 | 7 <sup>h</sup> 42 | 3 <sup>h</sup> 19 | 16 <sup>h</sup> 45  | 2 <sup>h</sup> 25  | 26 <sup>h</sup> 17  | 10 <sup>h</sup> 7    | 10 <sup>h</sup> 41   | 28 <sup>h</sup> 17   | 11 <sup>h</sup> 7   | M 6  |
| T 7  | 23 41 42 | 23 <sup>h</sup> 31'27 | 12 <sup>h</sup> II 6 | 17 <sup>h</sup> 5   | 13 <sup>h</sup> 18  | 19 <sup>h</sup> 12 | 7 <sup>h</sup> 49 | 3 <sup>h</sup> 23 | 16 <sup>h</sup> 45  | 2 <sup>h</sup> 26  | 26 <sup>h</sup> 15  | 10 <sup>h</sup> D 7  | 10 <sup>h</sup> 37   | 28 <sup>h</sup> 24   | 11 <sup>h</sup> 5   | T 7  |
| W 8  | 23 45 38 | 24 <sup>h</sup> 30'13 | 26 <sup>h</sup> 10   | 17 <sup>h</sup> 20  | 14 <sup>h</sup> 27  | 19 <sup>h</sup> 51 | 7 <sup>h</sup> 57 | 3 <sup>h</sup> 27 | 16 <sup>h</sup> 44  | 2 <sup>h</sup> 27  | 26 <sup>h</sup> 14  | 10 <sup>h</sup> R 7  | 10 <sup>h</sup> 34   | 28 <sup>h</sup> 31   | 11 <sup>h</sup> 2   | W 8  |
| T 9  | 23 49 35 | 25 <sup>h</sup> 29'01 | 10 <sup>h</sup> 3    | 17 <sup>h</sup> 29  | 15 <sup>h</sup> 37  | 20 <sup>h</sup> 30 | 8 <sup>h</sup> 4  | 3 <sup>h</sup> 31 | 16 <sup>h</sup> 44  | 2 <sup>h</sup> 27  | 26 <sup>h</sup> 13  | 10 <sup>h</sup> 6    | 10 <sup>h</sup> 31   | 28 <sup>h</sup> 37   | 10 <sup>h</sup> 59  | T 9  |
| F 10 | 23 53 31 | 26 <sup>h</sup> 27'51 | 23 <sup>h</sup> 45   | 17 <sup>h</sup> R31 | 16 <sup>h</sup> 47  | 21 <sup>h</sup> 10 | 8 <sup>h</sup> 11 | 3 <sup>h</sup> 35 | 16 <sup>h</sup> 44  | 2 <sup>h</sup> 28  | 26 <sup>h</sup> 12  | 10 <sup>h</sup> 3    | 10 <sup>h</sup> 28   | 28 <sup>h</sup> 44   | 10 <sup>h</sup> 56  | F 10 |
| S 11 | 23 57 28 | 27 <sup>h</sup> 26'44 | 7 <sup>h</sup> 16    | 17 <sup>h</sup> 27  | 17 <sup>h</sup> 57  | 21 <sup>h</sup> 49 | 8 <sup>h</sup> 18 | 3 <sup>h</sup> 39 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 28  | 26 <sup>h</sup> 11  | 9 <sup>h</sup> 58    | 10 <sup>h</sup> 25   | 28 <sup>h</sup> 51   | 10 <sup>h</sup> 54  | S 11 |
| S 12 | 0 1 24   | 28 <sup>h</sup> 25'39 | 20 <sup>h</sup> 37   | 17 <sup>h</sup> 16  | 19 <sup>h</sup> 7   | 22 <sup>h</sup> 29 | 8 <sup>h</sup> 24 | 3 <sup>h</sup> 43 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 29  | 26 <sup>h</sup> 9   | 9 <sup>h</sup> 50    | 10 <sup>h</sup> 22   | 28 <sup>h</sup> 57   | 10 <sup>h</sup> 51  | S 12 |
| M13  | 0 5 21   | 29 <sup>h</sup> 24'36 | 3 <sup>h</sup> 46    | 16 <sup>h</sup> 57  | 20 <sup>h</sup> 18  | 23 <sup>h</sup> 8  | 8 <sup>h</sup> 31 | 3 <sup>h</sup> 47 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 29  | 26 <sup>h</sup> 8   | 9 <sup>h</sup> 40    | 10 <sup>h</sup> 18   | 29 <sup>h</sup> 4    | 10 <sup>h</sup> 48  | M13  |
| T 14 | 0 9 18   | 0 <sup>h</sup> 23'35  | 16 <sup>h</sup> 43   | 16 <sup>h</sup> 31  | 21 <sup>h</sup> 28  | 23 <sup>h</sup> 48 | 8 <sup>h</sup> 37 | 3 <sup>h</sup> 52 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 30  | 26 <sup>h</sup> 7   | 9 <sup>h</sup> 28    | 10 <sup>h</sup> 15   | 29 <sup>h</sup> 11   | 10 <sup>h</sup> 45  | T 14 |
| W15  | 0 13 14  | 1 <sup>h</sup> 22'36  | 29 <sup>h</sup> 28   | 15 <sup>h</sup> 57  | 22 <sup>h</sup> 39  | 24 <sup>h</sup> 28 | 8 <sup>h</sup> 44 | 3 <sup>h</sup> 56 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 30  | 26 <sup>h</sup> 6   | 9 <sup>h</sup> 16    | 10 <sup>h</sup> 12   | 29 <sup>h</sup> 17   | 10 <sup>h</sup> 43  | W15  |
| T 16 | 0 17 11  | 2 <sup>h</sup> 21'39  | 11 <sup>h</sup> 58   | 15 <sup>h</sup> 15  | 23 <sup>h</sup> 49  | 25 <sup>h</sup> 8  | 8 <sup>h</sup> 50 | 4 <sup>h</sup> 0  | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 30  | 26 <sup>h</sup> 5   | 9 <sup>h</sup> 4     | 10 <sup>h</sup> 9    | 29 <sup>h</sup> 24   | 10 <sup>h</sup> 40  | T 16 |
| F 17 | 0 21 7   | 3 <sup>h</sup> 20'44  | 24 <sup>h</sup> 16   | 14 <sup>h</sup> 27  | 25 <sup>h</sup> 0   | 25 <sup>h</sup> 49 | 8 <sup>h</sup> 56 | 4 <sup>h</sup> 5  | 16 <sup>h</sup> D43 | 2 <sup>h</sup> 31  | 26 <sup>h</sup> 3   | 8 <sup>h</sup> 54    | 10 <sup>h</sup> 6    | 29 <sup>h</sup> 31   | 10 <sup>h</sup> 38  | F 17 |
| S 18 | 0 25 4   | 4 <sup>h</sup> 19'52  | 6 <sup>h</sup> ML21  | 13 <sup>h</sup> 32  | 26 <sup>h</sup> 11  | 26 <sup>h</sup> 29 | 9 <sup>h</sup> 2  | 4 <sup>h</sup> 9  | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 31  | 26 <sup>h</sup> 2   | 8 <sup>h</sup> 47    | 10 <sup>h</sup> 2    | 29 <sup>h</sup> 37   | 10 <sup>h</sup> 35  | S 18 |
| S 19 | 0 29 0   | 5 <sup>h</sup> 19'01  | 18 <sup>h</sup> 17   | 12 <sup>h</sup> 31  | 27 <sup>h</sup> 22  | 27 <sup>h</sup> 10 | 9 <sup>h</sup> 7  | 4 <sup>h</sup> 14 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 31  | 26 <sup>h</sup> 1   | 8 <sup>h</sup> 42    | 9 <sup>h</sup> 59    | 29 <sup>h</sup> 44   | 10 <sup>h</sup> 32  | S 19 |
| M20  | 0 32 57  | 6 <sup>h</sup> 18'12  | 0 <sup>h</sup> 17    | 11 <sup>h</sup> 25  | 28 <sup>h</sup> 33  | 27 <sup>h</sup> 51 | 9 <sup>h</sup> 13 | 4 <sup>h</sup> 19 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 31  | 26 <sup>h</sup> 0   | 8 <sup>h</sup> 40    | 9 <sup>h</sup> 56    | 29 <sup>h</sup> 50   | 10 <sup>h</sup> 30  | M20  |
| T 21 | 0 36 53  | 7 <sup>h</sup> 17'25  | 11 <sup>h</sup> 52   | 10 <sup>h</sup> 16  | 29 <sup>h</sup> 44  | 28 <sup>h</sup> 32 | 9 <sup>h</sup> 18 | 4 <sup>h</sup> 24 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 59  | 8 <sup>h</sup> D40   | 9 <sup>h</sup> 53    | 29 <sup>h</sup> 57   | 10 <sup>h</sup> 27  | T 21 |
| W22  | 0 40 50  | 8 <sup>h</sup> 16'40  | 23 <sup>h</sup> 41   | 9 <sup>h</sup> 5    | 0 <sup>h</sup> ML56 | 29 <sup>h</sup> 13 | 9 <sup>h</sup> 23 | 4 <sup>h</sup> 28 | 16 <sup>h</sup> 43  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 58  | 8 <sup>h</sup> 40    | 9 <sup>h</sup> 50    | 0 <sup>h</sup> 17    | 10 <sup>h</sup> 25  | W22  |
| T 23 | 0 44 47  | 9 <sup>h</sup> 15'57  | 5 <sup>h</sup> 36    | 7 <sup>h</sup> 55   | 2 <sup>h</sup> 7    | 29 <sup>h</sup> 54 | 9 <sup>h</sup> 28 | 4 <sup>h</sup> 33 | 16 <sup>h</sup> 44  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 56  | 8 <sup>h</sup> R41   | 9 <sup>h</sup> 47    | 0 <sup>h</sup> 10    | 10 <sup>h</sup> 23  | T 23 |
| F 24 | 0 48 43  | 10 <sup>h</sup> 15'15 | 17 <sup>h</sup> 45   | 6 <sup>h</sup> 47   | 3 <sup>h</sup> 19   | 0 <sup>h</sup> 35  | 9 <sup>h</sup> 33 | 4 <sup>h</sup> 38 | 16 <sup>h</sup> 44  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 55  | 8 <sup>h</sup> 41    | 9 <sup>h</sup> 43    | 0 <sup>h</sup> 17    | 10 <sup>h</sup> 20  | F 24 |
| S 25 | 0 52 40  | 11 <sup>h</sup> 14'35 | 0 <sup>h</sup> 11    | 5 <sup>h</sup> 43   | 4 <sup>h</sup> 30   | 1 <sup>h</sup> 17  | 9 <sup>h</sup> 37 | 4 <sup>h</sup> 43 | 16 <sup>h</sup> 44  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 54  | 8 <sup>h</sup> 39    | 9 <sup>h</sup> 40    | 0 <sup>h</sup> 24    | 10 <sup>h</sup> 18  | S 25 |
| S 26 | 0 56 36  | 12 <sup>h</sup> 13'57 | 13 <sup>h</sup> 0    | 4 <sup>h</sup> 45   | 5 <sup>h</sup> 42   | 1 <sup>h</sup> 58  | 9 <sup>h</sup> 42 | 4 <sup>h</sup> 49 | 16 <sup>h</sup> 45  | 2 <sup>h</sup> R32 | 25 <sup>h</sup> 53  | 8 <sup>h</sup> 35    | 9 <sup>h</sup> 37    | 0 <sup>h</sup> 30    | 10 <sup>h</sup> 15  | S 26 |
| M27  | 1 0 33   | 13 <sup>h</sup> 13'21 | 26 <sup>h</sup> 15   | 3 <sup>h</sup> 55   | 6 <sup>h</sup> 54   | 2 <sup>h</sup> 40  | 9 <sup>h</sup> 46 | 4 <sup>h</sup> 54 | 16 <sup>h</sup> 45  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 52  | 8 <sup>h</sup> 29    | 9 <sup>h</sup> 34    | 0 <sup>h</sup> 37    | 10 <sup>h</sup> 13  | M27  |
| T 28 | 1 4 29   | 14 <sup>h</sup> 12'47 | 9 <sup>h</sup> 57    | 3 <sup>h</sup> 14   | 8 <sup>h</sup> 6    | 3 <sup>h</sup> 21  | 9 <sup>h</sup> 50 | 4 <sup>h</sup> 59 | 16 <sup>h</sup> 46  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 51  | 8 <sup>h</sup> 21    | 9 <sup>h</sup> 31    | 0 <sup>h</sup> 44    | 10 <sup>h</sup> 11  | T 28 |
| W29  | 1 8 26   | 15 <sup>h</sup> 12'14 | 24 <sup>h</sup> 6    | 2 <sup>h</sup> 43   | 9 <sup>h</sup> 18   | 4 <sup>h</sup> 3   | 9 <sup>h</sup> 54 | 5 <sup>h</sup> 4  | 16 <sup>h</sup> 47  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 50  | 8 <sup>h</sup> 12    | 9 <sup>h</sup> 28    | 0 <sup>h</sup> 50    | 10 <sup>h</sup> 9   | W29  |
| T 30 | 1 12 22  | 16 <sup>h</sup> 11'43 | 8 <sup>h</sup> Y37   | 2 <sup>h</sup> 22   | 10 <sup>h</sup> 30  | 4 <sup>h</sup> 35  | 9 <sup>h</sup> 58 | 5 <sup>h</sup> 10 | 16 <sup>h</sup> 47  | 2 <sup>h</sup> 32  | 25 <sup>h</sup> 49  | 8 <sup>h</sup> II 3  | 9 <sup>h</sup> II24  | 0 <sup>h</sup> 17    | 10 <sup>h</sup> 18  | T 30 |

Delta T = 129.69 sec

Julian Calendar 1 Sept. 1574 == Greg. Calendar 11 Sept. 1574

OCTOBER 1574 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♀     | ♂     | ♂      | ♂    | ♂     | ♂     | ♂      | ♂     | ♂    | ♂    | ♂      | Day  |
|------|---------|----------|-------|-------|-------|-------|--------|------|-------|-------|--------|-------|------|------|--------|------|
| F 1  | 1 16 19 | 17♏11'15 | 23♊23 | 2°D13 | 11♋42 | 5♌27  | 10♍2   | 5♎15 | 16♏48 | 2°R32 | 25°R47 | 7°R56 | 9♐21 | 1♑4  | 10°R 4 | F 1  |
| S 2  | 1 20 16 | 18°10'48 | 8♏18  | 2♏15  | 12°54 | 6°10  | 10°5   | 5°21 | 16°49 | 2♏32  | 25♋46  | 7♐51  | 9°18 | 1°10 | 10♋2   | S 2  |
| S 3  | 1 24 12 | 19°10'24 | 23°11 | 2°27  | 14°7  | 6°52  | 10°8   | 5°26 | 16°49 | 2°31  | 25°45  | 7°48  | 9°15 | 1°17 | 10°0   | S 3  |
| M 4  | 1 28 9  | 20°10'02 | 7♐56  | 2°50  | 15°19 | 7°34  | 10°11  | 5°32 | 16°50 | 2°31  | 25°44  | 7°D47 | 9°12 | 1°24 | 9°58   | M 4  |
| T 5  | 1 32 5  | 21°9'42  | 22°28 | 3°23  | 16°32 | 8°17  | 10°14  | 5°37 | 16°51 | 2°31  | 25°43  | 7°48  | 9°8  | 1°30 | 9°56   | T 5  |
| W 6  | 1 36 2  | 22°9'25  | 6♏42  | 4°5   | 17°45 | 8°59  | 10°17  | 5°43 | 16°52 | 2°30  | 25°42  | 7°49  | 9°5  | 1°37 | 9°54   | W 6  |
| T 7  | 1 39 58 | 23°9'10  | 20°38 | 4°55  | 18°57 | 9°42  | 10°19  | 5°49 | 16°53 | 2°30  | 25°41  | 7°R50 | 9°2  | 1°43 | 9°52   | T 7  |
| F 8  | 1 43 55 | 24°8'57  | 4♏15  | 5°53  | 20°10 | 10°25 | 10°21  | 5°55 | 16°54 | 2°30  | 25°40  | 7°49  | 8°59 | 1°50 | 9°51   | F 8  |
| S 9  | 1 47 51 | 25°8'46  | 17°35 | 6°57  | 21°23 | 11°8  | 10°23  | 6°1  | 16°55 | 2°29  | 25°39  | 7°47  | 8°56 | 1°57 | 9°49   | S 9  |
| S 10 | 1 51 48 | 26°8'38  | 0♋40  | 8°6   | 22°36 | 11°51 | 10°25  | 6°6  | 16°57 | 2°29  | 25°38  | 7°43  | 8°53 | 2°3  | 9°47   | S 10 |
| M11  | 1 55 45 | 27°8'32  | 13°30 | 9°21  | 23°49 | 12°34 | 10°27  | 6°12 | 16°58 | 2°28  | 25°37  | 7°37  | 8°49 | 2°10 | 9°45   | M11  |
| T 12 | 1 59 41 | 28°8'27  | 26°7  | 10°40 | 25°2  | 13°17 | 10°28  | 6°18 | 16°59 | 2°28  | 25°36  | 7°30  | 8°46 | 2°17 | 9°44   | T 12 |
| W13  | 2 3 38  | 29°8'25  | 8♏33  | 12°3  | 26°16 | 14°0  | 10°30  | 6°24 | 17°0  | 2°27  | 25°35  | 7°22  | 8°43 | 2°23 | 9°42   | W13  |
| T 14 | 2 7 34  | 0♌8'25   | 20°48 | 13°28 | 27°29 | 14°44 | 10°31  | 6°31 | 17°2  | 2°27  | 25°34  | 7°16  | 8°40 | 2°30 | 9°40   | T 14 |
| F 15 | 2 11 31 | 1°8'27   | 2♌53  | 14°56 | 28°42 | 15°27 | 10°32  | 6°37 | 17°3  | 2°26  | 25°33  | 7°10  | 8°37 | 2°37 | 9°39   | F 15 |
| S 16 | 2 15 27 | 2°8'31   | 14°51 | 16°27 | 29°56 | 16°11 | 10°32  | 6°43 | 17°5  | 2°26  | 25°32  | 7°6   | 8°34 | 2°43 | 9°38   | S 16 |
| S 17 | 2 19 24 | 3°8'37   | 26°41 | 17°59 | 1♏9   | 16°54 | 10°33  | 6°49 | 17°6  | 2°25  | 25°31  | 7°4   | 8°30 | 2°50 | 9°36   | S 17 |
| M18  | 2 23 20 | 4°8'45   | 8♏28  | 19°32 | 2°23  | 17°38 | 10°33  | 6°55 | 17°8  | 2°24  | 25°30  | 7°D 3 | 8°27 | 2°57 | 9°35   | M18  |
| T 19 | 2 27 17 | 5°8'54   | 20°14 | 21°7  | 3°36  | 18°22 | 10°R33 | 7°2  | 17°9  | 2°23  | 25°29  | 7°4   | 8°24 | 3°3  | 9°33   | T 19 |
| W20  | 2 31 13 | 6°9'05   | 2♌3   | 22°42 | 4°50  | 19°5  | 10°33  | 7°8  | 17°11 | 2°23  | 25°29  | 7°5   | 8°21 | 3°10 | 9°32   | W20  |
| T 21 | 2 35 10 | 7°9'18   | 13°58 | 24°18 | 6°4   | 19°49 | 10°33  | 7°15 | 17°13 | 2°22  | 25°28  | 7°7   | 8°18 | 3°16 | 9°31   | T 21 |
| F 22 | 2 39 7  | 8°9'32   | 26°4  | 25°55 | 7°18  | 20°33 | 10°32  | 7°21 | 17°14 | 2°21  | 25°27  | 7°9   | 8°14 | 3°23 | 9°30   | F 22 |
| S 23 | 2 43 3  | 9°9'47   | 8♏27  | 27°32 | 8°31  | 21°17 | 10°31  | 7°28 | 17°16 | 2°20  | 25°26  | 7°R 9 | 8°11 | 3°30 | 9°29   | S 23 |
| S 24 | 2 47 0  | 10°10'04 | 21°11 | 29°9  | 9°45  | 22°1  | 10°30  | 7°34 | 17°18 | 2°19  | 25°25  | 7°9   | 8°8  | 3°36 | 9°28   | S 24 |
| M25  | 2 50 56 | 11°10'23 | 4♏21  | 0♌46  | 10°59 | 22°46 | 10°29  | 7°41 | 17°20 | 2°18  | 25°25  | 7°7   | 8°5  | 3°43 | 9°27   | M25  |
| T 26 | 2 54 53 | 12°10'43 | 17°57 | 2°23  | 12°13 | 23°30 | 10°28  | 7°47 | 17°22 | 2°17  | 25°24  | 7°4   | 8°2  | 3°50 | 9°26   | T 26 |
| W27  | 2 58 49 | 13°11'04 | 2♊3   | 4°1   | 13°27 | 24°14 | 10°26  | 7°54 | 17°24 | 2°16  | 25°23  | 7°1   | 7°59 | 3°56 | 9°25   | W27  |
| T 28 | 3 2 46  | 14°11'27 | 16°34 | 5°38  | 14°41 | 24°58 | 10°25  | 8°0  | 17°26 | 2°15  | 25°22  | 6°58  | 7°55 | 4°3  | 9°24   | T 28 |
| F 29 | 3 6 42  | 15°11'52 | 1♏28  | 7°15  | 15°56 | 25°43 | 10°23  | 8°7  | 17°28 | 2°14  | 25°22  | 6°55  | 7°52 | 4°10 | 9°23   | F 29 |
| S 30 | 3 10 39 | 16°12'18 | 16°35 | 8°52  | 17°10 | 26°27 | 10°21  | 8°14 | 17°30 | 2°13  | 25°21  | 6°53  | 7°49 | 4°16 | 9°23   | S 30 |
| S 31 | 3 14 36 | 17♌12'45 | 1♐46  | 10♌28 | 18♏24 | 27♌12 | 10♏18  | 8♏21 | 17♌32 | 2♏12  | 25♋20  | 6°D52 | 7♐46 | 4♏23 | 9♋22   | S 31 |

# ASTRODIENST EPHEMERIS for the year 1574

## geocentric

NOVEMBER 1574 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂     | ♂      | ♂     | ♂    | ♂    | ♂     | Day  |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|------|------|-------|------|
| M 1  | 3 18 32 | 18♐13'15 | 16♐52 | 12♐ 5 | 19♐38 | 27♐56 | 10°R16 | 8♐27  | 17♐34 | 2°R11 | 25°R20 | 6♐52  | 7♐43 | 4♐30 | 9°R21 | M 1  |
| T 2  | 3 22 29 | 19°13'46 | 1♐45  | 13°41 | 20°53 | 28°41 | 10♐13  | 8°34  | 17°36 | 2♐10  | 25°R19 | 6°53  | 7°40 | 4°36 | 9°R21 | T 2  |
| W 3  | 3 26 25 | 20°14'19 | 16°18 | 15°17 | 22° 7 | 29°25 | 10°10  | 8°41  | 17°39 | 2° 9  | 25°18  | 6°54  | 7°36 | 4°43 | 9°20  | W 3  |
| T 4  | 3 30 22 | 21°14'54 | 0♐27  | 16°53 | 23°21 | 0♐10  | 10° 7  | 8°48  | 17°41 | 2° 8  | 25°18  | 6°55  | 7°33 | 4°50 | 9°20  | T 4  |
| F 5  | 3 34 18 | 22°15'30 | 14°12 | 18°29 | 24°36 | 0°55  | 10° 4  | 8°55  | 17°43 | 2° 7  | 25°17  | 6°56  | 7°30 | 4°56 | 9°20  | F 5  |
| S 6  | 3 38 15 | 23°16'08 | 27°32 | 20° 4 | 25°50 | 1°39  | 10° 0  | 9° 1  | 17°46 | 2° 5  | 25°17  | 6°R56 | 7°27 | 5° 3 | 9°19  | S 6  |
| S 7  | 3 42 12 | 24°16'48 | 10♐31 | 21°39 | 27° 5 | 2°24  | 9°57   | 9° 8  | 17°48 | 2° 4  | 25°16  | 6°56  | 7°24 | 5° 9 | 9°19  | S 7  |
| M 8  | 3 46 8  | 25°17'30 | 23°12 | 23°14 | 28°19 | 3° 9  | 9°53   | 9°15  | 17°50 | 2° 3  | 25°16  | 6°54  | 7°20 | 5°16 | 9°19  | M 8  |
| T 9  | 3 50 5  | 26°18'13 | 5♐36  | 24°49 | 29°34 | 3°54  | 9°49   | 9°22  | 17°53 | 2° 2  | 25°15  | 6°53  | 7°17 | 5°23 | 9°19  | T 9  |
| W10  | 3 54 1  | 27°18'58 | 17°48 | 26°24 | 0♐49  | 4°39  | 9°45   | 9°29  | 17°55 | 2° 0  | 25°15  | 6°51  | 7°14 | 5°29 | 9°D19 | W10  |
| T 11 | 3 57 58 | 28°19'44 | 29°50 | 27°59 | 2° 3  | 5°24  | 9°40   | 9°36  | 17°58 | 1°59  | 25°14  | 6°50  | 7°11 | 5°36 | 9°19  | T 11 |
| F 12 | 4 1 54  | 29°20'32 | 11♐45 | 29°33 | 3°18  | 6° 9  | 9°36   | 9°43  | 18° 1 | 1°58  | 25°14  | 6°49  | 7° 8 | 5°43 | 9°19  | F 12 |
| S 13 | 4 5 51  | 0♐21'21  | 23°36 | 1♐ 8  | 4°33  | 6°54  | 9°31   | 9°50  | 18° 3 | 1°56  | 25°13  | 6°49  | 7° 5 | 5°49 | 9°19  | S 13 |
| S 14 | 4 9 47  | 1°22'11  | 5♐23  | 2°42  | 5°48  | 7°39  | 9°26   | 9°57  | 18° 6 | 1°55  | 25°13  | 6°D48 | 7° 1 | 5°56 | 9°19  | S 14 |
| M15  | 4 13 44 | 2°23'03  | 17°10 | 4°16  | 7° 3  | 8°24  | 9°21   | 10° 4 | 18° 9 | 1°53  | 25°13  | 6°48  | 6°58 | 6° 3 | 9°19  | M15  |
| T 16 | 4 17 41 | 3°23'55  | 28°59 | 5°50  | 8°17  | 9° 9  | 9°16   | 10°11 | 18°11 | 1°52  | 25°12  | 6°49  | 6°55 | 6° 9 | 9°20  | T 16 |
| W17  | 4 21 37 | 4°24'49  | 10♐52 | 7°24  | 9°32  | 9°54  | 9°10   | 10°18 | 18°14 | 1°50  | 25°12  | 6°49  | 6°52 | 6°16 | 9°20  | W17  |
| T 18 | 4 25 34 | 5°25'44  | 22°51 | 8°58  | 10°47 | 10°39 | 9° 5   | 10°25 | 18°17 | 1°49  | 25°12  | 6°49  | 6°49 | 6°23 | 9°21  | T 18 |
| F 19 | 4 29 30 | 6°26'40  | 5♐ 1  | 10°32 | 12° 2 | 11°24 | 8°59   | 10°32 | 18°20 | 1°47  | 25°11  | 6°R49 | 6°46 | 6°29 | 9°21  | F 19 |
| S 20 | 4 33 27 | 7°27'36  | 17°25 | 12° 6 | 13°17 | 12° 9 | 8°53   | 10°39 | 18°23 | 1°46  | 25°11  | 6°49  | 6°42 | 6°36 | 9°22  | S 20 |
| S 21 | 4 37 23 | 8°28'33  | 0♐ 6  | 13°40 | 14°32 | 12°55 | 8°47   | 10°46 | 18°25 | 1°44  | 25°11  | 6°49  | 6°39 | 6°42 | 9°22  | S 21 |
| M22  | 4 41 20 | 9°29'31  | 13° 8 | 15°14 | 15°47 | 13°40 | 8°41   | 10°54 | 18°28 | 1°43  | 25°11  | 6°D49 | 6°36 | 6°49 | 9°23  | M22  |
| T 23 | 4 45 16 | 10°30'30 | 26°34 | 16°48 | 17° 2 | 14°25 | 8°35   | 11° 1 | 18°31 | 1°41  | 25°11  | 6°49  | 6°33 | 6°56 | 9°24  | T 23 |
| W24  | 4 49 13 | 11°31'29 | 10♐26 | 18°22 | 18°17 | 15°10 | 8°28   | 11° 8 | 18°34 | 1°40  | 25°10  | 6°50  | 6°30 | 7° 2 | 9°24  | W24  |
| T 25 | 4 53 10 | 12°32'28 | 24°44 | 19°56 | 19°32 | 15°56 | 8°21   | 11°15 | 18°37 | 1°38  | 25°10  | 6°50  | 6°26 | 7° 9 | 9°25  | T 25 |
| F 26 | 4 57 6  | 13°33'28 | 9♐26  | 21°31 | 20°47 | 16°41 | 8°15   | 11°22 | 18°40 | 1°37  | 25°10  | 6°51  | 6°23 | 7°16 | 9°26  | F 26 |
| S 27 | 5 1 3   | 14°34'29 | 24°27 | 23° 5 | 22° 2 | 17°26 | 8° 8   | 11°29 | 18°43 | 1°35  | 25°10  | 6°51  | 6°20 | 7°22 | 9°27  | S 27 |
| S 28 | 5 4 59  | 15°35'31 | 9♐39  | 24°39 | 23°17 | 18°12 | 8° 1   | 11°36 | 18°47 | 1°33  | 25°10  | 6°R51 | 6°17 | 7°29 | 9°28  | S 28 |
| M29  | 5 8 56  | 16°36'34 | 24°53 | 26°13 | 24°32 | 18°57 | 7°54   | 11°43 | 18°50 | 1°32  | 25°10  | 6°51  | 6°14 | 7°36 | 9°29  | M29  |
| T 30 | 5 12 52 | 17°37'37 | 9♐58  | 27°47 | 25♐47 | 19°42 | 7°54   | 11°50 | 18°53 | 1°30  | 25°D10 | 6♐50  | 6♐11 | 7°42 | 9°R30 | T 30 |

Delta T = 129.38 sec

Julian Calendar 1 Nov. 1574 == Greg. Calendar 11 Nov. 1574

DECEMBER 1574 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♂      | ♂     | ♂     | ♂     | ♂     | ♂      | ♂     | ♂    | ♂      | ♂      | Day  |
|------|---------|----------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|------|--------|--------|------|
| W 1  | 5 16 49 | 18♐38'41 | 24♐47 | 29♐22 | 27♐ 2 | 20°R28 | 7°R40 | 11♐57 | 18♐56 | 1°R29 | 25°R10 | 6°R49 | 6♐ 7 | 7♐49   | 9°R31  | W 1  |
| T 2  | 5 20 45 | 19°39'46 | 9♐13  | 0♐56  | 28°17 | 21°13  | 7°53  | 12° 4 | 18°59 | 1♐27  | 25°10  | 6♐47  | 6° 4 | 7°56   | 9°33   | T 2  |
| F 3  | 5 24 42 | 20°40'51 | 23°11 | 2°30  | 29°32 | 21°58  | 7°25  | 12°11 | 19° 2 | 1°25  | 25°10  | 6°46  | 6° 1 | 8° 2   | 9°34   | F 3  |
| S 4  | 5 28 39 | 21°41'58 | 6♐41  | 4° 4  | 0♐48  | 22°44  | 7°17  | 12°18 | 19° 6 | 1°24  | 25°10  | 6°44  | 5°58 | 8° 9   | 9°35   | S 4  |
| S 5  | 5 32 35 | 22°43'05 | 19°44 | 5°38  | 2° 3  | 23°29  | 7°10  | 12°25 | 19° 9 | 1°22  | 25°10  | 6°D44 | 5°55 | 8°16   | 9°37   | S 5  |
| M 6  | 5 36 32 | 23°44'13 | 2♐24  | 7°12  | 3°18  | 24°14  | 7° 2  | 12°32 | 19°12 | 1°20  | 25°10  | 6°44  | 5°52 | 8°22   | 9°38   | M 6  |
| T 7  | 5 40 28 | 24°45'21 | 14°44 | 8°45  | 4°33  | 25° 0  | 6°54  | 12°39 | 19°15 | 1°19  | 25°11  | 6°45  | 5°48 | 8°29   | 9°40   | T 7  |
| W 8  | 5 44 25 | 25°46'30 | 26°50 | 10°18 | 5°48  | 25°45  | 6°46  | 12°46 | 19°19 | 1°17  | 25°11  | 6°46  | 5°45 | 8°35   | 9°41   | W 8  |
| T 9  | 5 48 21 | 26°47'40 | 8♐45  | 11°50 | 7° 4  | 26°31  | 6°38  | 12°53 | 19°22 | 1°15  | 25°11  | 6°48  | 5°42 | 8°42   | 9°43   | T 9  |
| F 10 | 5 52 18 | 27°48'51 | 20°34 | 13°22 | 8°19  | 27°16  | 6°30  | 13° 0 | 19°25 | 1°13  | 25°11  | 6°50  | 5°39 | 8°49   | 9°44   | F 10 |
| S 11 | 5 56 14 | 28°50'02 | 2♐21  | 14°53 | 9°34  | 28° 1  | 6°22  | 13° 7 | 19°29 | 1°12  | 25°11  | 6°R51 | 5°36 | 8°55   | 9°46   | S 11 |
| S 12 | 6 0 11  | 29°51'13 | 14° 8 | 16°23 | 10°49 | 28°47  | 6°14  | 13°14 | 19°32 | 1°10  | 25°12  | 6°50  | 5°32 | 9° 2   | 9°48   | S 12 |
| M13  | 6 4 8   | 0♐52'25  | 25°58 | 17°52 | 12° 5 | 29°32  | 6° 6  | 13°21 | 19°36 | 1° 8  | 25°12  | 6°49  | 5°29 | 9° 9   | 9°50   | M13  |
| T 14 | 6 8 4   | 1°53'37  | 7♐53  | 19°20 | 13°20 | 0♐18   | 5°58  | 13°27 | 19°39 | 1° 7  | 25°12  | 6°46  | 5°26 | 9°15   | 9°52   | T 14 |
| W15  | 6 12 1  | 2°54'49  | 19°55 | 20°45 | 14°35 | 1° 3   | 5°50  | 13°34 | 19°42 | 1° 5  | 25°13  | 6°42  | 5°23 | 9°22   | 9°54   | W15  |
| T 16 | 6 15 57 | 3°56'01  | 2♐ 6  | 22° 8 | 15°50 | 1°48   | 5°42  | 13°41 | 19°46 | 1° 3  | 25°13  | 6°38  | 5°20 | 9°29   | 9°56   | T 16 |
| F 17 | 6 19 54 | 4°57'12  | 14°27 | 23°29 | 17° 6 | 2°34   | 5°34  | 13°48 | 19°49 | 1° 2  | 25°14  | 6°32  | 5°17 | 9°35   | 9°58   | F 17 |
| S 18 | 6 23 50 | 5°58'24  | 27° 0 | 24°47 | 18°21 | 3°19   | 5°26  | 13°55 | 19°53 | 1° 0  | 25°14  | 6°28  | 5°13 | 9°42   | 10° 0  | S 18 |
| S 19 | 6 27 47 | 6°59'36  | 9♐47  | 26° 1 | 19°36 | 4° 4   | 5°18  | 14° 1 | 19°56 | 0°58  | 25°14  | 6°24  | 5°10 | 9°49   | 10° 2  | S 19 |
| M20  | 6 31 44 | 8° 0'47  | 22°49 | 27°12 | 20°52 | 4°50   | 5°10  | 14° 8 | 20° 0 | 0°56  | 25°15  | 6°21  | 5° 7 | 9°55   | 10° 4  | M20  |
| T 21 | 6 35 40 | 9° 1'57  | 6♐ 9  | 28°17 | 22° 7 | 5°35   | 5° 1  | 14°15 | 20° 3 | 0°55  | 25°15  | 6°D20 | 5° 4 | 10° 2  | 10° 6  | T 21 |
| W22  | 6 39 37 | 10° 3'07 | 19°49 | 29°16 | 23°22 | 6°20   | 4°53  | 14°21 | 20° 7 | 0°53  | 25°16  | 6°20  | 5° 1 | 10° 9  | 10° 9  | W22  |
| T 23 | 6 43 33 | 11° 4'17 | 3♐50  | 0♐10  | 24°37 | 7° 6   | 4°45  | 14°28 | 20°10 | 0°51  | 25°16  | 6°22  | 4°57 | 10°15  | 10°11  | T 23 |
| F 24 | 6 47 30 | 12° 5'27 | 18°12 | 0°55  | 25°53 | 7°51   | 4°37  | 14°34 | 20°14 | 0°50  | 25°17  | 6°23  | 4°54 | 10°22  | 10°13  | F 24 |
| S 25 | 6 51 26 | 13° 6'35 | 2♐52  | 1°33  | 27° 8 | 8°36   | 4°29  | 14°41 | 20°17 | 0°48  | 25°18  | 6°R24 | 4°51 | 10°28  | 10°16  | S 25 |
| S 26 | 6 55 23 | 14° 7'44 | 17°46 | 2° 2  | 28°23 | 9°21   | 4°21  | 14°47 | 20°21 | 0°46  | 25°18  | 6°24  | 4°48 | 10°35  | 10°18  | S 26 |
| M27  | 6 59 19 | 15° 8'52 | 2♐48  | 2°20  | 29°38 | 10° 7  | 4°14  | 14°54 | 20°24 | 0°45  | 25°19  | 6°21  | 4°45 | 10°42  | 10°21  | M27  |
| T 28 | 7 3 16  | 16°10'00 | 17°48 | 2°R28 | 0♐54  | 10°52  | 4° 6  | 15° 0 | 20°28 | 0°43  | 25°19  | 6°17  | 4°42 | 10°48  | 10°23  | T 28 |
| W29  | 7 7 13  | 17°11'07 | 2♐38  | 2°25  | 2° 9  | 11°37  | 3°58  | 15° 7 | 20°31 | 0°42  | 25°20  | 6°11  | 4°38 | 10°55  | 10°26  | W29  |
| T 30 | 7 11 9  | 18°12'13 | 17°10 | 2°10  | 3°24  | 12°22  | 3°50  | 15°13 | 20°35 | 0°40  | 25°21  | 6° 4  | 4°35 | 11° 2  | 10°28  | T 30 |
| F 31 | 7 15 6  | 19°13'20 | 1♐16  | 1♐43  | 4♐40  | 13°R 7 | 3°54  | 15°19 | 20°38 | 0°38  | 25°R21 | 5♐57  | 4♐32 | 11°R 8 | 10°R31 | F 31 |

Delta T = 129.22 sec

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