

JANUARY 2002

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|--------|--------|-------|-------|--------|-------|-------|------|-------|--------|-------|------|
| T 1 | 6 41 53 | 10°23'02 | 1♁ 7 | 25♁35 | 7♁10 | 16♁53 | 10°R40 | 9°R19 | 22°28 | 7°27 | 16♁ 2 | 27°R10 | 26♁21 | 2♁10 |
| W 2 | 6 45 50 | 11°24'10 | 15°40 | 27° 7 | 8°25 | 17°37 | 10°32 | 9♁16 | 22°30 | 7°29 | 16° 4 | 27♁ 8 | 26°18 | 2°16 |
| T 3 | 6 49 46 | 12°25'18 | 0♁16 | 28°39 | 9°41 | 18°21 | 10°24 | 9°12 | 22°33 | 7°31 | 16° 6 | 27° 6 | 26°15 | 2°23 |
| F 4 | 6 53 43 | 13°26'26 | 14°47 | 0° 9 | 10°56 | 19° 5 | 10°16 | 9° 8 | 22°36 | 7°33 | 16° 9 | 27° 5 | 26°12 | 2°29 |
| S 5 | 6 57 39 | 14°27'35 | 29°10 | 1°37 | 12°12 | 19°48 | 10° 8 | 9° 5 | 22°39 | 7°35 | 16°11 | 27° 3 | 26° 9 | 2°36 |
| S 6 | 7 1 36 | 15°28'44 | 13♁21 | 3° 4 | 13°27 | 20°32 | 9°59 | 9° 1 | 22°42 | 7°37 | 16°13 | 27°D 3 | 26° 6 | 2°42 |
| M 7 | 7 5 33 | 16°29'53 | 27°18 | 4°28 | 14°43 | 21°16 | 9°51 | 8°58 | 22°45 | 7°39 | 16°15 | 27° 3 | 26° 2 | 2°48 |
| T 8 | 7 9 29 | 17°31'02 | 11♁ 1 | 5°49 | 15°58 | 22° 0 | 9°43 | 8°55 | 22°48 | 7°42 | 16°17 | 27° 4 | 25°59 | 2°55 |
| W 9 | 7 13 26 | 18°32'12 | 24°29 | 7° 7 | 17°14 | 22°44 | 9°35 | 8°51 | 22°51 | 7°44 | 16°19 | 27° 6 | 25°56 | 3° 1 |
| T 10 | 7 17 22 | 19°33'21 | 7♁43 | 8°22 | 18°29 | 23°28 | 9°28 | 8°48 | 22°54 | 7°46 | 16°21 | 27° 7 | 25°53 | 3° 7 |
| F 11 | 7 21 19 | 20°34'31 | 20°44 | 9°31 | 19°45 | 24°12 | 9°20 | 8°45 | 22°57 | 7°48 | 16°23 | 27°R 8 | 25°50 | 3°13 |
| S 12 | 7 25 15 | 21°35'40 | 3♁33 | 10°36 | 21° 0 | 24°56 | 9°12 | 8°42 | 23° 0 | 7°50 | 16°25 | 27° 8 | 25°46 | 3°20 |
| S 13 | 7 29 12 | 22°36'50 | 16°11 | 11°34 | 22°16 | 25°39 | 9° 4 | 8°39 | 23° 3 | 7°52 | 16°27 | 27° 7 | 25°43 | 3°26 |
| M14 | 7 33 8 | 23°37'58 | 28°37 | 12°25 | 23°31 | 26°23 | 8°57 | 8°37 | 23° 6 | 7°55 | 16°29 | 27° 4 | 25°40 | 3°32 |
| T 15 | 7 37 5 | 24°39'07 | 10°53 | 13° 9 | 24°47 | 27° 7 | 8°49 | 8°34 | 23° 9 | 7°57 | 16°31 | 27° 0 | 25°37 | 3°38 |
| W16 | 7 41 2 | 25°40'15 | 23° 0 | 13°44 | 26° 2 | 27°51 | 8°41 | 8°31 | 23°12 | 7°59 | 16°33 | 26°55 | 25°34 | 3°45 |
| T 17 | 7 44 58 | 26°41'22 | 4♁59 | 14°10 | 27°17 | 28°35 | 8°34 | 8°29 | 23°16 | 8° 1 | 16°35 | 26°49 | 25°31 | 3°51 |
| F 18 | 7 48 55 | 27°42'28 | 16°52 | 14°25 | 28°33 | 29°18 | 8°27 | 8°27 | 23°19 | 8° 4 | 16°36 | 26°44 | 25°27 | 3°57 |
| S 19 | 7 52 51 | 28°43'34 | 28°44 | 14°R29 | 29°48 | 0°Y 2 | 8°20 | 8°24 | 23°22 | 8° 6 | 16°38 | 26°39 | 25°24 | 4° 3 |
| S 20 | 7 56 48 | 29°44'39 | 10°Y36 | 14°22 | 1° 4 | 0°46 | 8°12 | 8°22 | 23°25 | 8° 8 | 16°40 | 26°36 | 25°21 | 4° 9 |
| M21 | 8 0 44 | 0°45'43 | 22°33 | 14° 3 | 2°19 | 1°29 | 8° 5 | 8°20 | 23°28 | 8°10 | 16°42 | 26°34 | 25°18 | 4°15 |
| T 22 | 8 4 41 | 1°46'46 | 4♁41 | 13°32 | 3°35 | 2°13 | 7°59 | 8°18 | 23°32 | 8°13 | 16°44 | 26°D33 | 25°15 | 4°21 |
| W23 | 8 8 37 | 2°47'48 | 17° 3 | 12°51 | 4°50 | 2°57 | 7°52 | 8°16 | 23°35 | 8°15 | 16°45 | 26°34 | 25°12 | 4°27 |
| T 24 | 8 12 34 | 3°48'50 | 29°45 | 11°59 | 6° 5 | 3°40 | 7°45 | 8°15 | 23°38 | 8°17 | 16°47 | 26°36 | 25° 8 | 4°33 |
| F 25 | 8 16 31 | 4°49'50 | 12♁51 | 10°59 | 7°21 | 4°24 | 7°39 | 8°13 | 23°42 | 8°20 | 16°49 | 26°37 | 25° 5 | 4°38 |
| S 26 | 8 20 27 | 5°50'49 | 26°23 | 9°51 | 8°36 | 5° 8 | 7°32 | 8°12 | 23°45 | 8°22 | 16°51 | 26°R38 | 25° 2 | 4°44 |
| S 27 | 8 24 24 | 6°51'47 | 10°22 | 8°39 | 9°52 | 5°51 | 7°26 | 8°10 | 23°48 | 8°24 | 16°52 | 26°37 | 24°59 | 4°50 |
| M28 | 8 28 20 | 7°52'45 | 24°48 | 7°24 | 11° 7 | 6°35 | 7°20 | 8° 9 | 23°52 | 8°26 | 16°54 | 26°35 | 24°56 | 4°56 |
| T 29 | 8 32 17 | 8°53'41 | 9♁34 | 6° 8 | 12°22 | 7°18 | 7°14 | 8° 8 | 23°55 | 8°29 | 16°56 | 26°30 | 24°52 | 5° 2 |
| W30 | 8 36 13 | 9°54'36 | 24°34 | 4°54 | 13°38 | 8° 2 | 7° 8 | 8° 7 | 23°58 | 8°31 | 16°57 | 26°23 | 24°49 | 5° 7 |
| T 31 | 8 40 10 | 10°55'30 | 9♁38 | 3°44 | 14°53 | 8°Y45 | 7°3 | 8♁ 6 | 24° 2 | 8°33 | 16°59 | 26♁16 | 24♁46 | 5♁13 |

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FEBRUARY 2002

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|--------|-------|--------|-------|-------|-------|------|-------|--------|-------|------|
| F 1 | 8 44 7 | 11°56'24 | 24♁36 | 2°R39 | 16° 8 | 9°Y29 | 6°R57 | 8°R 5 | 24° 5 | 8°35 | 17° 0 | 26°R10 | 24♁43 | 5♁18 |
| S 2 | 8 48 3 | 12°57'16 | 9♁21 | 1°40 | 17°23 | 10°12 | 6°52 | 8♁ 4 | 24° 9 | 8°38 | 17° 2 | 26♁ 4 | 24°40 | 5°24 |
| S 3 | 8 52 0 | 13°58'08 | 23°46 | 0°50 | 18°39 | 10°55 | 6°47 | 8° 3 | 24°12 | 8°40 | 17° 3 | 26° 0 | 24°37 | 5°29 |
| M 4 | 8 55 56 | 14°58'59 | 7♁48 | 0° 7 | 19°54 | 11°39 | 6°42 | 8° 3 | 24°16 | 8°42 | 17° 5 | 25°58 | 24°33 | 5°35 |
| T 5 | 8 59 53 | 15°59'49 | 21°27 | 29♁32 | 21° 9 | 12°22 | 6°37 | 8° 2 | 24°19 | 8°45 | 17° 6 | 25°D58 | 24°30 | 5°40 |
| W 6 | 9 3 49 | 17° 0'39 | 4♁45 | 29° 7 | 22°25 | 13° 5 | 6°32 | 8° 2 | 24°22 | 8°47 | 17° 7 | 25°59 | 24°27 | 5°46 |
| T 7 | 9 7 46 | 18° 1'27 | 17°44 | 28°49 | 23°40 | 13°49 | 6°28 | 8° 2 | 24°26 | 8°49 | 17° 9 | 26° 0 | 24°24 | 5°51 |
| F 8 | 9 11 42 | 19° 2'15 | 0♁27 | 28°40 | 24°55 | 14°32 | 6°24 | 8°D 2 | 24°29 | 8°51 | 17°10 | 26°R 0 | 24°21 | 5°56 |
| S 9 | 9 15 39 | 20° 3'02 | 12°57 | 28°D38 | 26°10 | 15°15 | 6°19 | 8° 2 | 24°33 | 8°54 | 17°11 | 25°58 | 24°18 | 6° 1 |
| S 10 | 9 19 36 | 21° 3'47 | 25°17 | 28°44 | 27°26 | 15°58 | 6°15 | 8° 2 | 24°36 | 8°56 | 17°13 | 25°54 | 24°14 | 6° 6 |
| M11 | 9 23 32 | 22° 4'31 | 7°29 | 28°56 | 28°41 | 16°42 | 6°12 | 8° 2 | 24°40 | 8°58 | 17°14 | 25°48 | 24°11 | 6°12 |
| T 12 | 9 27 29 | 23° 5'14 | 19°34 | 29°15 | 29°56 | 17°25 | 6° 8 | 8° 3 | 24°43 | 9° 0 | 17°15 | 25°38 | 24° 8 | 6°17 |
| W13 | 9 31 25 | 24° 5'56 | 1♁33 | 29°39 | 1♁11 | 18° 8 | 6° 5 | 8° 3 | 24°47 | 9° 3 | 17°16 | 25°27 | 24° 5 | 6°22 |
| T 14 | 9 35 22 | 25° 6'36 | 13°28 | 0° 9 | 2°26 | 18°51 | 6° 2 | 8° 4 | 24°50 | 9° 5 | 17°18 | 25°15 | 24° 2 | 6°26 |
| F 15 | 9 39 18 | 26° 7'14 | 25°21 | 0°44 | 3°41 | 19°34 | 5°59 | 8° 5 | 24°54 | 9° 7 | 17°19 | 25° 3 | 23°58 | 6°31 |
| S 16 | 9 43 15 | 27° 7'51 | 7°Y12 | 1°23 | 4°57 | 20°17 | 5°56 | 8° 5 | 24°57 | 9° 9 | 17°20 | 24°52 | 23°55 | 6°36 |
| S 17 | 9 47 11 | 28° 8'26 | 19° 4 | 2° 6 | 6°12 | 21° 0 | 5°53 | 8° 6 | 25° 1 | 9°11 | 17°21 | 24°43 | 23°52 | 6°41 |
| M18 | 9 51 8 | 29° 9'00 | 1♁ 1 | 2°54 | 7°27 | 21°43 | 5°51 | 8° 7 | 25° 4 | 9°13 | 17°22 | 24°36 | 23°49 | 6°46 |
| T 19 | 9 55 4 | 0♁ 9'32 | 13° 6 | 3°45 | 8°42 | 22°26 | 5°49 | 8° 9 | 25° 8 | 9°16 | 17°23 | 24°32 | 23°46 | 6°50 |
| W20 | 9 59 1 | 1°10'02 | 25°24 | 4°39 | 9°57 | 23° 9 | 5°47 | 8°10 | 25°11 | 9°18 | 17°24 | 24°31 | 23°43 | 6°55 |
| T 21 | 10 2 58 | 2°10'30 | 8♁ 1 | 5°36 | 11°12 | 23°52 | 5°45 | 8°11 | 25°14 | 9°20 | 17°25 | 24°D31 | 23°39 | 6°59 |
| F 22 | 10 6 54 | 3°10'57 | 20°58 | 6°36 | 12°27 | 24°34 | 5°43 | 8°13 | 25°18 | 9°22 | 17°26 | 24°R31 | 23°36 | 7° 4 |
| S 23 | 10 10 51 | 4°11'21 | 4♁23 | 7°38 | 13°42 | 25°17 | 5°42 | 8°15 | 25°21 | 9°24 | 17°27 | 24°31 | 23°33 | 7° 8 |
| S 24 | 10 14 47 | 5°11'44 | 18°17 | 8°43 | 14°57 | 26° 0 | 5°41 | 8°16 | 25°25 | 9°26 | 17°27 | 24°29 | 23°30 | 7°12 |
| M25 | 10 18 44 | 6°12'05 | 2♁40 | 9°50 | 16°12 | 26°43 | 5°40 | 8°18 | 25°28 | 9°28 | 17°28 | 24°24 | 23°27 | 7°17 |
| T 26 | 10 22 40 | 7°12'23 | 17°31 | 11° 0 | 17°27 | 27°25 | 5°39 | 8°20 | 25°32 | 9°30 | 17°29 | 24°17 | 23°24 | 7°21 |
| W27 | 10 26 37 | 8°12'40 | 2♁41 | 12°11 | 18°42 | 28° 8 | 5°38 | 8°22 | 25°35 | 9°33 | 17°30 | 24° 7 | 23°20 | 7°25 |
| T 28 | 10 30 33 | 9♁12'55 | 18♁ 1 | 13°24 | 19♁56 | 28°Y51 | 5°38 | 8♁24 | 25°38 | 9°35 | 17°31 | 23♁56 | 23♁17 | 7♁29 |

Delta T = 68.19 sec.

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MARCH 2002

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|------|
| F 1 | 10 34 30 | 10♋13'09 | 3♌19 | 14♍39 | 21♎11 | 29♏33 | 5°R37 | 8♐27 | 25♑42 | 9♒37 | 17♓31 | 23°R45 | 23♈14 | 7♉33 |
| S 2 | 10 38 27 | 11°13'21 | 18°24 | 15°56 | 22°26 | 0♐16 | 5°D37 | 8°29 | 25°45 | 9°39 | 17°32 | 23♈36 | 23°11 | 7°37 |
| S 3 | 10 42 23 | 12°13'31 | 3♌ 7 | 17°14 | 23°41 | 0°58 | 5♌38 | 8°31 | 25°49 | 9°41 | 17°32 | 23°29 | 23° 8 | 7°40 |
| M 4 | 10 46 20 | 13°13'40 | 17°23 | 18°34 | 24°56 | 1°41 | 5°38 | 8°34 | 25°52 | 9°43 | 17°33 | 23°24 | 23° 4 | 7°44 |
| T 5 | 10 50 16 | 14°13'47 | 1♌11 | 19°55 | 26°11 | 2°23 | 5°39 | 8°37 | 25°55 | 9°45 | 17°34 | 23°22 | 23° 1 | 7°48 |
| W 6 | 10 54 13 | 15°13'53 | 14°31 | 21°18 | 27°25 | 3° 6 | 5°39 | 8°39 | 25°59 | 9°47 | 17°34 | 23°D22 | 22°58 | 7°52 |
| T 7 | 10 58 9 | 16°13'57 | 27°27 | 22°42 | 28°40 | 3°48 | 5°40 | 8°42 | 26° 2 | 9°48 | 17°35 | 23°R22 | 22°55 | 7°55 |
| F 8 | 11 2 6 | 17°13'59 | 10♌ 4 | 24° 7 | 29°55 | 4°30 | 5°41 | 8°45 | 26° 5 | 9°50 | 17°35 | 23°21 | 22°52 | 7°58 |
| S 9 | 11 6 2 | 18°14'00 | 22°25 | 25°34 | 1♌ 9 | 5°13 | 5°43 | 8°48 | 26° 9 | 9°52 | 17°35 | 23°18 | 22°49 | 8° 2 |
| S 10 | 11 9 59 | 19°14'00 | 4♌34 | 27° 2 | 2°24 | 5°55 | 5°44 | 8°52 | 26°12 | 9°54 | 17°36 | 23°13 | 22°45 | 8° 5 |
| M11 | 11 13 56 | 20°13'57 | 16°36 | 28°31 | 3°39 | 6°37 | 5°46 | 8°55 | 26°15 | 9°56 | 17°36 | 23° 4 | 22°42 | 8° 8 |
| T 12 | 11 17 52 | 21°13'53 | 28°32 | 0♌ 2 | 4°53 | 7°19 | 5°48 | 8°58 | 26°18 | 9°58 | 17°36 | 22°53 | 22°39 | 8°12 |
| W13 | 11 21 49 | 22°13'47 | 10♌26 | 1°33 | 6° 8 | 8° 1 | 5°50 | 9° 2 | 26°21 | 10° 0 | 17°37 | 22°39 | 22°36 | 8°15 |
| T 14 | 11 25 45 | 23°13'39 | 22°18 | 3° 6 | 7°22 | 8°44 | 5°52 | 9° 5 | 26°25 | 10° 1 | 17°37 | 22°24 | 22°33 | 8°18 |
| F 15 | 11 29 42 | 24°13'29 | 4♌10 | 4°41 | 8°37 | 9°26 | 5°55 | 9° 9 | 26°28 | 10° 3 | 17°37 | 22° 9 | 22°29 | 8°21 |
| S 16 | 11 33 38 | 25°13'17 | 16° 4 | 6°16 | 9°52 | 10° 8 | 5°58 | 9°13 | 26°31 | 10° 5 | 17°37 | 21°56 | 22°26 | 8°23 |
| S 17 | 11 37 35 | 26°13'03 | 28° 0 | 7°53 | 11° 6 | 10°50 | 6° 0 | 9°17 | 26°34 | 10° 7 | 17°38 | 21°44 | 22°23 | 8°26 |
| M18 | 11 41 31 | 27°12'47 | 10♌ 1 | 9°31 | 12°20 | 11°32 | 6° 4 | 9°21 | 26°37 | 10° 8 | 17°38 | 21°36 | 22°20 | 8°29 |
| T 19 | 11 45 28 | 28°12'28 | 22° 9 | 11°10 | 13°35 | 12°14 | 6° 7 | 9°25 | 26°40 | 10°10 | 17°38 | 21°30 | 22°17 | 8°31 |
| W20 | 11 49 25 | 29°12'08 | 4♌29 | 12°50 | 14°49 | 12°56 | 6°10 | 9°29 | 26°43 | 10°12 | 17°38 | 21°27 | 22°14 | 8°34 |
| T 21 | 11 53 21 | 0♌11'45 | 17° 3 | 14°32 | 16° 4 | 13°37 | 6°14 | 9°33 | 26°46 | 10°13 | 17°R38 | 21°D26 | 22°10 | 8°36 |
| F 22 | 11 57 18 | 1°11'20 | 29°57 | 16°15 | 17°18 | 14°19 | 6°18 | 9°38 | 26°49 | 10°15 | 17°38 | 21°R26 | 22° 7 | 8°39 |
| S 23 | 12 1 14 | 2°10'53 | 13♌14 | 17°59 | 18°32 | 15° 1 | 6°22 | 9°42 | 26°52 | 10°17 | 17°38 | 21°26 | 22° 4 | 8°41 |
| S 24 | 12 5 11 | 3°10'23 | 26°57 | 19°44 | 19°47 | 15°43 | 6°26 | 9°46 | 26°55 | 10°18 | 17°38 | 21°24 | 22° 1 | 8°43 |
| M25 | 12 9 7 | 4° 9'52 | 11♌10 | 21°31 | 21° 1 | 16°25 | 6°30 | 9°51 | 26°58 | 10°20 | 17°37 | 21°20 | 21°58 | 8°45 |
| T 26 | 12 13 4 | 5° 9'17 | 25°49 | 23°19 | 22°15 | 17° 6 | 6°34 | 9°56 | 27° 1 | 10°21 | 17°37 | 21°13 | 21°55 | 8°47 |
| W27 | 12 17 0 | 6° 8'41 | 10♌51 | 25° 8 | 23°29 | 17°48 | 6°39 | 10° 0 | 27° 4 | 10°23 | 17°37 | 21° 4 | 21°51 | 8°49 |
| T 28 | 12 20 57 | 7° 8'02 | 26° 8 | 26°59 | 24°43 | 18°29 | 6°44 | 10° 5 | 27° 7 | 10°24 | 17°37 | 20°54 | 21°48 | 8°51 |
| F 29 | 12 24 54 | 8° 7'21 | 11♌27 | 28°51 | 25°57 | 19°11 | 6°49 | 10°10 | 27°10 | 10°26 | 17°37 | 20°43 | 21°45 | 8°53 |
| S 30 | 12 28 50 | 9° 6'38 | 26°39 | 0♌44 | 27°11 | 19°52 | 6°54 | 10°15 | 27°13 | 10°27 | 17°36 | 20°34 | 21°42 | 8°54 |
| S 31 | 12 32 47 | 10♌ 5'53 | 11♌32 | 2♌38 | 28♌25 | 20♌34 | 6♌59 | 10♌20 | 27♌15 | 10♌28 | 17♌36 | 20♌26 | 21♌39 | 8♌56 |

Delta T = 68.27 sec.

APRIL 2002

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| M 1 | 12 36 43 | 11♌ 5'07 | 26♌ 0 | 4♌34 | 29♌39 | 21♌15 | 7♌ 5 | 10♌25 | 27♌18 | 10♌30 | 17°R36 | 20°R22 | 21♌35 | 8♌57 |
| T 2 | 12 40 40 | 12° 4'18 | 9♌58 | 6°32 | 0♌53 | 21°57 | 7°11 | 10°31 | 27°21 | 10°31 | 17°R35 | 20♌19 | 21°32 | 8°59 |
| W 3 | 12 44 36 | 13° 3'28 | 23°27 | 8°30 | 2° 7 | 22°38 | 7°16 | 10°36 | 27°24 | 10°32 | 17°35 | 20°D19 | 21°29 | 9° 0 |
| T 4 | 12 48 33 | 14° 2'37 | 6♌29 | 10°30 | 3°21 | 23°20 | 7°22 | 10°41 | 27°26 | 10°34 | 17°34 | 20°20 | 21°26 | 9° 1 |
| F 5 | 12 52 29 | 15° 1'43 | 19° 8 | 12°31 | 4°35 | 24° 1 | 7°28 | 10°47 | 27°29 | 10°35 | 17°34 | 20°R20 | 21°23 | 9° 2 |
| S 6 | 12 56 26 | 16° 0'48 | 1♌28 | 14°33 | 5°49 | 24°42 | 7°35 | 10°52 | 27°31 | 10°36 | 17°33 | 20°18 | 21°20 | 9° 3 |
| S 7 | 13 0 23 | 16°59'50 | 13°35 | 16°36 | 7° 3 | 25°23 | 7°41 | 10°58 | 27°34 | 10°37 | 17°33 | 20°15 | 21°16 | 9° 4 |
| M 8 | 13 4 19 | 17°58'51 | 25°34 | 18°40 | 8°17 | 26° 4 | 7°48 | 11° 3 | 27°36 | 10°38 | 17°32 | 20° 9 | 21°13 | 9° 5 |
| T 9 | 13 8 16 | 18°57'50 | 7♌26 | 20°44 | 9°30 | 26°46 | 7°54 | 11° 9 | 27°39 | 10°39 | 17°32 | 20° 1 | 21°10 | 9° 6 |
| W10 | 13 12 12 | 19°56'48 | 19°17 | 22°50 | 10°44 | 27°27 | 8° 1 | 11°15 | 27°41 | 10°41 | 17°31 | 19°50 | 21° 7 | 9° 7 |
| T 11 | 13 16 9 | 20°55'43 | 1♌ 9 | 24°55 | 11°58 | 28° 8 | 8° 8 | 11°21 | 27°44 | 10°42 | 17°30 | 19°39 | 21° 4 | 9° 7 |
| F 12 | 13 20 5 | 21°54'37 | 13° 3 | 27° 1 | 13°11 | 28°49 | 8°15 | 11°27 | 27°46 | 10°43 | 17°30 | 19°28 | 21° 1 | 9° 8 |
| S 13 | 13 24 2 | 22°53'28 | 25° 2 | 29° 7 | 14°25 | 29°30 | 8°23 | 11°33 | 27°48 | 10°44 | 17°29 | 19°17 | 20°57 | 9° 8 |
| S 14 | 13 27 58 | 23°52'18 | 7♌ 5 | 1♌12 | 15°39 | 0♌11 | 8°30 | 11°39 | 27°51 | 10°45 | 17°28 | 19° 8 | 20°54 | 9° 8 |
| M15 | 13 31 55 | 24°51'05 | 19°16 | 3°17 | 16°52 | 0°52 | 8°38 | 11°45 | 27°53 | 10°46 | 17°27 | 19° 2 | 20°51 | 9° 9 |
| T 16 | 13 35 51 | 25°49'51 | 1♌35 | 5°20 | 18° 6 | 1°33 | 8°45 | 11°51 | 27°55 | 10°46 | 17°26 | 18°58 | 20°48 | 9° 9 |
| W17 | 13 39 48 | 26°48'34 | 14° 4 | 7°23 | 19°19 | 2°14 | 8°53 | 11°57 | 27°57 | 10°47 | 17°26 | 18°D56 | 20°45 | 9°R 9 |
| T 18 | 13 43 45 | 27°47'15 | 26°47 | 9°23 | 20°33 | 2°55 | 9° 1 | 12° 4 | 28° 0 | 10°48 | 17°25 | 18°56 | 20°41 | 9° 9 |
| F 19 | 13 47 41 | 28°45'54 | 9♌45 | 11°22 | 21°46 | 3°35 | 9° 9 | 12°10 | 28° 2 | 10°49 | 17°24 | 18°57 | 20°38 | 9° 9 |
| S 20 | 13 51 38 | 29°44'31 | 23° 2 | 13°19 | 22°59 | 4°16 | 9°17 | 12°16 | 28° 4 | 10°50 | 17°23 | 18°58 | 20°35 | 9° 9 |
| S 21 | 13 55 34 | 0♌43'06 | 6♌40 | 15°12 | 24°13 | 4°57 | 9°26 | 12°23 | 28° 6 | 10°51 | 17°22 | 18°R58 | 20°32 | 9° 8 |
| M22 | 13 59 31 | 1°41'38 | 20°42 | 17° 3 | 25°26 | 5°38 | 9°34 | 12°29 | 28° 8 | 10°51 | 17°21 | 18°57 | 20°29 | 9° 8 |
| T 23 | 14 3 27 | 2°40'09 | 5♌ 6 | 18°51 | 26°39 | 6°18 | 9°43 | 12°36 | 28°10 | 10°52 | 17°20 | 18°53 | 20°26 | 9° 8 |
| W24 | 14 7 24 | 3°38'36 | 19°49 | 20°35 | 27°52 | 6°59 | 9°52 | 12°43 | 28°12 | 10°53 | 17°19 | 18°48 | 20°22 | 9° 7 |
| T 25 | 14 11 20 | 4°37'02 | 4♌47 | 22°15 | 29° 5 | 7°39 | 10° 0 | 12°49 | 28°13 | 10°53 | 17°18 | 18°42 | 20°19 | 9° 6 |
| F 26 | 14 15 17 | 5°35'26 | 19°50 | 23°52 | 0♌18 | 8°20 | 10° 9 | 12°56 | 28°15 | 10°54 | 17°17 | 18°35 | 20°16 | 9° 6 |
| S 27 | 14 19 14 | 6°33'48 | 4♌49 | 25°24 | 1°31 | 9° 0 | 10°18 | 13° 3 | 28°17 | 10°54 | 17°16 | 18°29 | 20°13 | 9° 5 |
| S 28 | 14 23 10 | 7°32'08 | 19°36 | 26°53 | 2°44 | 9°41 | 10°27 | 13°10 | 28°19 | 10°55 | 17°15 | 18°25 | 20°10 | 9° 4 |
| M29 | 14 27 7 | 8°30'27 | 4♌ 3 | 28°17 | 3°57 | 10°21 | 10°37 | 13°16 | 28°20 | 10°55 | 17°14 | 18°22 | 20° 6 | 9° 3 |
| T 30 | 14 31 3 | 9♌28'43 | 18♌ 4 | 29♌37 | 5♌10 | 11♌ 2 | 10♌46 | 13♌23 | 28♌22 | 10♌56 | 17♌12 | 18°D21 | 20♌ 3 | 9♌ 2 |

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MAY 2002

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ |
|------|----------|-----------|---------|--------|--------|---------|-------|---------|-------|--------|--------|---------|---------|-------|
| W 1 | 14 35 0 | 10♌26'59 | 1♌39 | 0♏II52 | 6♏II23 | 11♏II42 | 10♌56 | 13♏II30 | 28♌24 | 10♌56 | 17°R11 | 18♏II22 | 20♏II 0 | 9°R 1 |
| T 2 | 14 38 56 | 11°25'12 | 14°47 | 2° 3 | 7°36 | 12°23 | 11° 5 | 13°37 | 28°25 | 10°57 | 17♌10 | 18°23 | 19°57 | 9♌ 0 |
| F 3 | 14 42 53 | 12°23'25 | 27°32 | 3° 9 | 8°49 | 13° 3 | 11°15 | 13°44 | 28°27 | 10°57 | 17° 9 | 18°25 | 19°54 | 8°58 |
| S 4 | 14 46 49 | 13°21'35 | 9♌57 | 4°10 | 10° 2 | 13°43 | 11°25 | 13°51 | 28°28 | 10°57 | 17° 8 | 18°R26 | 19°51 | 8°57 |
| S 5 | 14 50 46 | 14°19'45 | 22° 7 | 5° 7 | 11°14 | 14°23 | 11°35 | 13°58 | 28°30 | 10°58 | 17° 6 | 18°25 | 19°47 | 8°55 |
| M 6 | 14 54 43 | 15°17'52 | 4♌ 6 | 5°58 | 12°27 | 15° 4 | 11°45 | 14° 6 | 28°31 | 10°58 | 17° 5 | 18°24 | 19°44 | 8°54 |
| T 7 | 14 58 39 | 16°15'59 | 15°59 | 6°45 | 13°40 | 15°44 | 11°55 | 14°13 | 28°32 | 10°58 | 17° 4 | 18°21 | 19°41 | 8°52 |
| W 8 | 15 2 36 | 17°14'03 | 27°50 | 7°27 | 14°52 | 16°24 | 12° 5 | 14°20 | 28°34 | 10°58 | 17° 2 | 18°16 | 19°38 | 8°51 |
| T 9 | 15 6 32 | 18°12'07 | 9♏44 | 8° 4 | 16° 5 | 17° 4 | 12°15 | 14°27 | 28°35 | 10°59 | 17° 1 | 18°11 | 19°35 | 8°49 |
| F 10 | 15 10 29 | 19°10'09 | 21°41 | 8°35 | 17°17 | 17°44 | 12°26 | 14°35 | 28°36 | 10°59 | 17° 0 | 18° 6 | 19°32 | 8°47 |
| S 11 | 15 14 25 | 20° 8'09 | 3♌46 | 9° 2 | 18°30 | 18°24 | 12°36 | 14°42 | 28°37 | 10°59 | 16°58 | 18° 1 | 19°28 | 8°45 |
| S 12 | 15 18 22 | 21° 6'08 | 16° 0 | 9°24 | 19°42 | 19° 4 | 12°47 | 14°49 | 28°38 | 10°59 | 16°57 | 17°57 | 19°25 | 8°43 |
| M 13 | 15 22 18 | 22° 4'06 | 28°24 | 9°40 | 20°54 | 19°44 | 12°57 | 14°57 | 28°39 | 10°59 | 16°55 | 17°55 | 19°22 | 8°41 |
| T 14 | 15 26 15 | 23° 2'02 | 10♏II59 | 9°51 | 22° 7 | 20°24 | 13° 8 | 15° 4 | 28°40 | 10°R59 | 16°54 | 17°54 | 19°19 | 8°39 |
| W 15 | 15 30 12 | 23°59'57 | 23°46 | 9°58 | 23°19 | 21° 4 | 13°19 | 15°12 | 28°41 | 10°59 | 16°53 | 17°D53 | 19°16 | 8°37 |
| T 16 | 15 34 8 | 24°57'50 | 6♌46 | 9°R59 | 24°31 | 21°44 | 13°30 | 15°19 | 28°42 | 10°59 | 16°51 | 17°54 | 19°12 | 8°34 |
| F 17 | 15 38 5 | 25°55'41 | 20° 0 | 9°56 | 25°43 | 22°24 | 13°41 | 15°26 | 28°43 | 10°59 | 16°50 | 17°56 | 19° 9 | 8°32 |
| S 18 | 15 42 1 | 26°53'30 | 3♏28 | 9°48 | 26°56 | 23° 4 | 13°52 | 15°34 | 28°44 | 10°59 | 16°48 | 17°57 | 19° 6 | 8°30 |
| S 19 | 15 45 58 | 27°51'18 | 17°11 | 9°35 | 28° 8 | 23°44 | 14° 3 | 15°42 | 28°45 | 10°58 | 16°47 | 17°58 | 19° 3 | 8°27 |
| M 20 | 15 49 54 | 28°49'04 | 1♏10 | 9°19 | 29°20 | 24°23 | 14°14 | 15°49 | 28°45 | 10°58 | 16°45 | 17°R58 | 19° 0 | 8°25 |
| T 21 | 15 53 51 | 29°46'49 | 15°23 | 8°58 | 0♌32 | 25° 3 | 14°26 | 15°57 | 28°46 | 10°58 | 16°44 | 17°58 | 18°57 | 8°22 |
| W 22 | 15 57 47 | 0♏II44'31 | 29°49 | 8°34 | 1°44 | 25°43 | 14°37 | 16° 4 | 28°47 | 10°58 | 16°42 | 17°56 | 18°53 | 8°19 |
| T 23 | 16 1 44 | 1°42'12 | 14♌23 | 8° 7 | 2°55 | 26°23 | 14°48 | 16°12 | 28°47 | 10°57 | 16°41 | 17°55 | 18°50 | 8°17 |
| F 24 | 16 5 41 | 2°39'52 | 29° 0 | 7°38 | 4° 7 | 27° 2 | 15° 0 | 16°20 | 28°48 | 10°57 | 16°39 | 17°53 | 18°47 | 8°14 |
| S 25 | 16 9 37 | 3°37'30 | 13♏35 | 7° 7 | 5°19 | 27°42 | 15°12 | 16°27 | 28°48 | 10°57 | 16°38 | 17°51 | 18°44 | 8°11 |
| S 26 | 16 13 34 | 4°35'07 | 28° 1 | 6°34 | 6°31 | 28°22 | 15°23 | 16°35 | 28°49 | 10°56 | 16°36 | 17°50 | 18°41 | 8° 8 |
| M 27 | 16 17 30 | 5°32'43 | 12♌12 | 6° 0 | 7°42 | 29° 1 | 15°35 | 16°43 | 28°49 | 10°56 | 16°34 | 17°D49 | 18°38 | 8° 5 |
| T 28 | 16 21 27 | 6°30'17 | 26° 5 | 5°26 | 8°54 | 29°41 | 15°47 | 16°50 | 28°49 | 10°55 | 16°33 | 17°49 | 18°34 | 8° 2 |
| W 29 | 16 25 23 | 7°27'51 | 9♌35 | 4°52 | 10° 5 | 0♌20 | 15°59 | 16°58 | 28°50 | 10°55 | 16°31 | 17°50 | 18°31 | 7°59 |
| T 30 | 16 29 20 | 8°25'23 | 22°44 | 4°19 | 11°17 | 1° 0 | 16°10 | 17° 6 | 28°50 | 10°55 | 16°30 | 17°51 | 18°28 | 7°56 |
| F 31 | 16 33 16 | 9♏II22'55 | 5♌31 | 3♏II48 | 12♌28 | 1♌39 | 16♌22 | 17♏II14 | 28♌50 | 10♌54 | 16♌28 | 17♏II51 | 18♏II25 | 7♌53 |

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|------|----------|------------|-------|---------|---------|-------|-------|---------|--------|--------|--------|---------|---------|-------|
| S 1 | 16 37 13 | 10♏II20'26 | 17♌59 | 3°R19 | 13♌39 | 2♌19 | 16♌34 | 17♏II21 | 28♌50 | 10°R53 | 16°R27 | 17♏II52 | 18♏II22 | 7°R49 |
| S 2 | 16 41 10 | 11°17'56 | 0♌12 | 2♏II52 | 14°51 | 2°58 | 16°47 | 17°29 | 28°50 | 10♌53 | 16♌25 | 17°53 | 18°18 | 7♌46 |
| M 3 | 16 45 6 | 12°15'25 | 12°13 | 2°28 | 16° 2 | 3°37 | 16°59 | 17°37 | 28°R50 | 10°52 | 16°23 | 17°R53 | 18°15 | 7°43 |
| T 4 | 16 49 3 | 13°12'53 | 24° 8 | 2° 7 | 17°13 | 4°17 | 17°11 | 17°45 | 28°50 | 10°52 | 16°22 | 17°53 | 18°12 | 7°39 |
| W 5 | 16 52 59 | 14°10'21 | 6♏ 1 | 1°50 | 18°24 | 4°56 | 17°23 | 17°52 | 28°50 | 10°51 | 16°20 | 17°52 | 18° 9 | 7°36 |
| T 6 | 16 56 56 | 15° 7'47 | 17°56 | 1°36 | 19°35 | 5°36 | 17°35 | 18° 0 | 28°50 | 10°50 | 16°18 | 17°52 | 18° 6 | 7°32 |
| F 7 | 17 0 52 | 16° 5'14 | 29°57 | 1°27 | 20°46 | 6°15 | 17°48 | 18° 8 | 28°50 | 10°49 | 16°17 | 17°52 | 18° 3 | 7°29 |
| S 8 | 17 4 49 | 17° 2'39 | 12♌ 8 | 1°22 | 21°57 | 6°54 | 18° 0 | 18°16 | 28°50 | 10°49 | 16°15 | 17°52 | 17°59 | 7°25 |
| S 9 | 17 8 45 | 18° 0'04 | 24°31 | 1°D22 | 23° 8 | 7°33 | 18°13 | 18°24 | 28°49 | 10°48 | 16°14 | 17°D52 | 17°56 | 7°22 |
| M 10 | 17 12 42 | 18°57'28 | 7♏ 9 | 1°25 | 24°18 | 8°13 | 18°25 | 18°31 | 28°49 | 10°47 | 16°12 | 17°52 | 17°53 | 7°18 |
| T 11 | 17 16 39 | 19°54'52 | 20° 2 | 1°34 | 25°29 | 8°52 | 18°38 | 18°39 | 28°49 | 10°46 | 16°10 | 17°R52 | 17°50 | 7°15 |
| W 12 | 17 20 35 | 20°52'15 | 3♌10 | 1°47 | 26°40 | 9°31 | 18°50 | 18°47 | 28°48 | 10°45 | 16° 9 | 17°52 | 17°47 | 7°11 |
| T 13 | 17 24 32 | 21°49'37 | 16°34 | 2° 4 | 27°50 | 10°10 | 19° 3 | 18°55 | 28°48 | 10°44 | 16° 7 | 17°51 | 17°44 | 7° 7 |
| F 14 | 17 28 28 | 22°46'58 | 0♏12 | 2°26 | 29° 1 | 10°49 | 19°16 | 19° 3 | 28°47 | 10°43 | 16° 6 | 17°51 | 17°40 | 7° 3 |
| S 15 | 17 32 25 | 23°44'18 | 14° 1 | 2°53 | 0♏11 | 11°28 | 19°28 | 19°10 | 28°47 | 10°42 | 16° 4 | 17°50 | 17°37 | 7° 0 |
| S 16 | 17 36 21 | 24°41'38 | 28° 1 | 3°23 | 1°21 | 12° 7 | 19°41 | 19°18 | 28°46 | 10°41 | 16° 2 | 17°50 | 17°34 | 6°56 |
| M 17 | 17 40 18 | 25°38'56 | 12♏ 8 | 3°58 | 2°31 | 12°47 | 19°54 | 19°26 | 28°45 | 10°40 | 16° 1 | 17°49 | 17°31 | 6°52 |
| T 18 | 17 44 15 | 26°36'14 | 26°20 | 4°38 | 3°42 | 13°26 | 20° 7 | 19°34 | 28°45 | 10°39 | 15°59 | 17°D49 | 17°28 | 6°48 |
| W 19 | 17 48 11 | 27°33'31 | 10♌35 | 5°21 | 4°52 | 14° 5 | 20°20 | 19°41 | 28°44 | 10°38 | 15°58 | 17°49 | 17°24 | 6°44 |
| T 20 | 17 52 8 | 28°30'46 | 24°50 | 6° 9 | 6° 2 | 14°44 | 20°33 | 19°49 | 28°43 | 10°37 | 15°56 | 17°50 | 17°21 | 6°41 |
| F 21 | 17 56 4 | 29°28'02 | 9♏ 3 | 7° 0 | 7°11 | 15°23 | 20°45 | 19°57 | 28°42 | 10°36 | 15°55 | 17°51 | 17°18 | 6°37 |
| S 22 | 18 0 1 | 0♌25'16 | 23°10 | 7°56 | 8°21 | 16° 2 | 20°58 | 20° 5 | 28°42 | 10°35 | 15°53 | 17°52 | 17°15 | 6°33 |
| S 23 | 18 3 57 | 1°22'30 | 7♌ 9 | 8°56 | 9°31 | 16°40 | 21°11 | 20°12 | 28°41 | 10°34 | 15°52 | 17°52 | 17°12 | 6°29 |
| M 24 | 18 7 54 | 2°19'43 | 20°56 | 9°59 | 10°41 | 17°19 | 21°24 | 20°20 | 28°40 | 10°33 | 15°50 | 17°R52 | 17° 9 | 6°25 |
| T 25 | 18 11 50 | 3°16'57 | 4♌29 | 11° 6 | 11°50 | 17°58 | 21°38 | 20°28 | 28°39 | 10°32 | 15°48 | 17°52 | 17° 5 | 6°21 |
| W 26 | 18 15 47 | 4°14'09 | 17°45 | 12°17 | 12°59 | 18°37 | 21°51 | 20°35 | 28°38 | 10°30 | 15°47 | 17°51 | 17° 2 | 6°17 |
| T 27 | 18 19 44 | 5°11'22 | 0♌45 | 13°32 | 14° 9 | 19°16 | 22° 4 | 20°43 | 28°37 | 10°29 | 15°45 | 17°48 | 16°59 | 6°13 |
| F 28 | 18 23 40 | 6° 8'34 | 13°28 | 14°50 | 15°18 | 19°55 | 22°17 | 20°51 | 28°35 | 10°28 | 15°44 | 17°46 | 16°56 | 6°10 |
| S 29 | 18 27 37 | 7° 5'46 | 25°54 | 16°12 | 16°27 | 20°34 | 22°30 | 20°58 | 28°34 | 10°27 | 15°43 | 17°43 | 16°53 | 6° 6 |
| S 30 | 18 31 33 | 8♌ 2'59 | 8♌ 7 | 17♏II37 | 17♏II36 | 21♌12 | 22♌43 | 21♏II 6 | 28♌33 | 10♌25 | 15♌41 | 17♏II41 | 16♏II50 | 6♌ 2 |

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JULY 2002

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

Delta T = 68.62 sec.

AUGUST 2002

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|---------|
| T 1 | 20 37 43 | 8°03'52 | 3°08'50 | 20°02'12 | 23°02'15 | 11°04'46 | 29°05'50 | 24°02'52 | 27°08'36 | 9°08'37 | 15°08'04 | 16°02'24 | 15°08'08 | 4°08'10 |
| F 2 | 20 41 40 | 9°32'45 | 15°51'15 | 22°05'24 | 24°19'12 | 12°24'04 | 0°04'24 | 24°58'27 | 27°03'34 | 9°03'35 | 15°07'03 | 16°02'24 | 15°05'05 | 4°07'07 |
| S 3 | 20 45 36 | 10°30'11 | 28°03'23 | 23°55'25 | 25°23'13 | 13°02'00 | 0°17'25 | 25°05'27 | 27°31'09 | 9°33'15 | 15°03'16 | 16°25'15 | 15°02'02 | 4°04'04 |
| S 4 | 20 49 33 | 11°27'38 | 10°02'33 | 25°44'26 | 26°27'13 | 13°41'00 | 0°30'25 | 25°11'27 | 27°29'09 | 9°32'15 | 15°02'16 | 16°26'14 | 14°58'58 | 4°01'01 |
| M 5 | 20 53 29 | 12°25'06 | 23°24'27 | 27°31'27 | 27°30'14 | 14°19'00 | 0°43'25 | 25°17'27 | 27°27'09 | 9°30'15 | 15°01'16 | 16°26'14 | 14°55'55 | 3°59'59 |
| T 6 | 20 57 26 | 13°22'35 | 6°04'29 | 29°17'28 | 28°33'14 | 14°57'00 | 0°57'25 | 25°23'27 | 27°24'09 | 9°29'15 | 15°00'16 | 16°24'14 | 14°52'52 | 3°56'56 |
| W 7 | 21 01 22 | 14°20'05 | 20°22'11 | 29°36'15 | 29°36'15 | 15°36'10 | 1°10'25 | 25°29'27 | 27°22'09 | 9°27'15 | 15°00'16 | 16°20'14 | 14°49'49 | 3°54'54 |
| T 8 | 21 05 19 | 15°17'37 | 4°02'29 | 0°04'39 | 16°14'12 | 1°23'25 | 25°35'27 | 27°20'09 | 27°20'09 | 9°25'14 | 14°59'16 | 16°13'14 | 14°46'46 | 3°51'51 |
| F 9 | 21 09 16 | 16°15'09 | 18°57'04 | 4°25'14 | 1°41'16 | 16°52'13 | 1°36'25 | 25°41'27 | 27°18'09 | 9°24'14 | 14°59'16 | 16°05'14 | 14°42'42 | 3°49'49 |
| S 10 | 21 13 12 | 17°12'43 | 3°04'40 | 6°04'24 | 2°43'17 | 17°31'01 | 1°49'25 | 25°47'27 | 27°15'09 | 9°22'14 | 14°58'15 | 15°56'14 | 14°39'39 | 3°47'47 |
| S 11 | 21 17 09 | 18°10'17 | 18°30'07 | 7°42'34 | 3°45'18 | 18°09'02 | 2°03'25 | 25°53'27 | 27°13'09 | 9°20'14 | 14°58'15 | 15°47'14 | 14°36'36 | 3°44'44 |
| M12 | 21 21 05 | 19°07'52 | 3°01'18 | 9°18'04 | 4°46'18 | 18°47'02 | 2°16'25 | 25°58'27 | 27°10'09 | 9°19'14 | 14°57'15 | 15°39'14 | 14°33'33 | 3°42'42 |
| T 13 | 21 25 02 | 20°05'29 | 17°58'10 | 10°53'05 | 5°48'19 | 19°25'02 | 2°29'26 | 26°04'27 | 27°08'09 | 9°17'14 | 14°57'15 | 15°33'14 | 14°30'30 | 3°40'40 |
| W14 | 21 28 58 | 21°03'06 | 2°02'23 | 12°26'06 | 6°49'20 | 20°04'02 | 2°42'26 | 26°10'27 | 27°06'09 | 9°16'14 | 14°57'15 | 15°30'14 | 14°27'27 | 3°38'38 |
| T 15 | 21 32 55 | 22°00'44 | 16°30'13 | 13°58'07 | 7°49'20 | 20°42'02 | 2°55'26 | 26°15'27 | 27°03'09 | 9°14'14 | 14°56'15 | 15°28'14 | 14°23'23 | 3°36'36 |
| F 16 | 21 36 51 | 22°58'23 | 0°07'20 | 15°28'08 | 8°49'21 | 21°20'03 | 3°08'26 | 26°21'27 | 27°01'09 | 9°12'14 | 14°56'15 | 15°28'14 | 14°20'20 | 3°34'34 |
| S 17 | 21 40 48 | 23°56'04 | 13°52'13 | 16°56'09 | 9°49'21 | 21°58'03 | 3°21'26 | 26°26'27 | 26°59'09 | 9°11'14 | 14°55'15 | 15°29'14 | 14°17'17 | 3°33'33 |
| S 18 | 21 44 44 | 24°53'45 | 27°08'18 | 18°23'10 | 10°49'22 | 22°37'03 | 3°34'26 | 26°31'26 | 26°56'09 | 9°09'14 | 14°55'15 | 15°28'14 | 14°14'14 | 3°31'31 |
| M19 | 21 48 41 | 25°51'27 | 10°03'10 | 19°48'11 | 11°48'23 | 23°15'03 | 3°46'26 | 26°37'26 | 26°54'09 | 9°08'14 | 14°55'15 | 15°26'14 | 14°11'11 | 3°29'29 |
| T 20 | 21 52 38 | 26°49'10 | 22°59'21 | 12°47'23 | 12°47'23 | 23°53'03 | 3°59'26 | 26°42'26 | 26°51'09 | 9°06'14 | 14°55'15 | 15°21'14 | 14°08'08 | 3°28'28 |
| W21 | 21 56 34 | 27°46'55 | 5°03'22 | 22°34'13 | 13°45'24 | 24°31'04 | 4°12'26 | 26°47'26 | 26°49'09 | 9°05'14 | 14°55'15 | 15°13'14 | 14°04'04 | 3°26'26 |
| T 22 | 22 00 31 | 28°44'41 | 18°06'23 | 23°54'14 | 14°43'25 | 25°09'04 | 4°25'26 | 26°52'26 | 26°47'09 | 9°03'14 | 14°54'15 | 15°03'14 | 14°01'01 | 3°25'25 |
| F 23 | 22 04 27 | 29°42'28 | 0°08'25 | 25°13'15 | 15°41'25 | 25°48'04 | 4°37'26 | 26°57'26 | 26°44'09 | 9°02'14 | 14°54'15 | 14°50'14 | 13°58'58 | 3°23'23 |
| S 24 | 22 08 24 | 0°04'16 | 12°35'26 | 26°29'16 | 16°38'26 | 26°26'04 | 4°50'27 | 27°02'26 | 26°42'09 | 9°00'14 | 14°54'15 | 14°37'14 | 13°55'55 | 3°22'22 |
| S 25 | 22 12 20 | 1°38'06 | 24°38'27 | 17°35'27 | 17°35'27 | 27°04'05 | 5°03'27 | 27°06'26 | 26°39'09 | 8°59'14 | 14°54'15 | 14°24'14 | 13°52'52 | 3°21'21 |
| M26 | 22 16 17 | 2°35'58 | 6°09'33 | 28°57'18 | 18°31'27 | 27°42'05 | 5°15'27 | 27°11'26 | 26°37'09 | 8°57'14 | 14°54'15 | 14°13'14 | 13°48'48 | 3°20'20 |
| T 27 | 22 20 13 | 3°33'51 | 18°24'08 | 0°08'19 | 19°27'28 | 28°20'05 | 5°28'27 | 27°16'26 | 26°35'09 | 8°56'14 | 14°54'15 | 14°03'14 | 13°45'45 | 3°19'19 |
| W28 | 22 24 10 | 4°31'46 | 0°08'14 | 1°17'28 | 20°22'28 | 28°59'05 | 5°40'27 | 27°20'26 | 26°32'09 | 8°54'14 | 14°54'15 | 13°56'14 | 13°42'42 | 3°18'18 |
| T 29 | 22 28 07 | 5°29'43 | 12°06'21 | 2°24'21 | 21°17'29 | 29°37'05 | 5°53'27 | 27°25'26 | 26°30'09 | 8°53'14 | 14°54'15 | 13°52'14 | 13°39'39 | 3°17'17 |
| F 30 | 22 32 03 | 6°27'41 | 24°04'22 | 3°29'22 | 22°11'00 | 0°02'15 | 6°05'27 | 27'29'26 | 26°28'09 | 8°52'14 | 14°54'15 | 13°50'14 | 13°36'36 | 3°16'16 |
| S 31 | 22 36 00 | 7°02'54 | 6°02'14 | 4°03'23 | 23°05'00 | 0°02'53 | 6°02'27 | 27'33'26 | 26°02'08 | 8°50'14 | 14°54'15 | 13° | | |

SEPTEMBER 2002

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|
| S 1 | 22 39 56 | 8♍23'44 | 18♊41 | 5♋31 | 23♌58 | 1♍31 | 6♎30 | 27♏37 | 26♐R23 | 8♑R49 | 14♒55 | 13♓R50 | 13♊29 | 3♈R15 |
| M 2 | 22 43 53 | 9°21'48 | 18♊30 | 6°28 | 24°51 | 2° 9 | 6°42 | 27°42 | 26♐21 | 8♑47 | 14°55 | 13♊49 | 13°26 | 3♈15 |
| T 3 | 22 47 49 | 10°19'54 | 14°45 | 7°22 | 25°43 | 2°48 | 6°54 | 27°46 | 26°18 | 8°46 | 14°55 | 13°47 | 13°23 | 3°14 |
| W 4 | 22 51 46 | 11°18'03 | 28°29 | 8°14 | 26°35 | 3°26 | 7° 6 | 27°50 | 26°16 | 8°45 | 14°55 | 13°42 | 13°20 | 3°14 |
| T 5 | 22 55 42 | 12°16'13 | 12♎42 | 9° 2 | 27°25 | 4° 4 | 7°19 | 27°53 | 26°14 | 8°44 | 14°56 | 13°34 | 13°17 | 3°14 |
| F 6 | 22 59 39 | 13°14'24 | 27°21 | 9°47 | 28°16 | 4°42 | 7°31 | 27°57 | 26°12 | 8°42 | 14°56 | 13°24 | 13°13 | 3°13 |
| S 7 | 23 3 36 | 14°12'38 | 12♍21 | 10°28 | 29° 5 | 5°20 | 7°43 | 28° 1 | 26° 9 | 8°41 | 14°56 | 13°13 | 13°10 | 3°13 |
| S 8 | 23 7 32 | 15°10'53 | 27°30 | 11° 5 | 29°54 | 5°59 | 7°54 | 28° 4 | 26° 7 | 8°40 | 14°57 | 13° 2 | 13° 7 | 3°D13 |
| M 9 | 23 11 29 | 16° 9'10 | 12♌40 | 11°39 | 0♍42 | 6°37 | 8° 6 | 28° 8 | 26° 5 | 8°39 | 14°57 | 12°52 | 13° 4 | 3°13 |
| T 10 | 23 15 25 | 17° 7'29 | 27°39 | 12° 8 | 1°29 | 7°15 | 8°18 | 28°11 | 26° 3 | 8°37 | 14°58 | 12°45 | 13° 1 | 3°14 |
| W11 | 23 19 22 | 18° 5'49 | 12♌20 | 12°32 | 2°15 | 7°53 | 8°30 | 28°15 | 26° 0 | 8°36 | 14°58 | 12°40 | 12°58 | 3°14 |
| T 12 | 23 23 18 | 19° 4'11 | 26°38 | 12°51 | 3° 1 | 8°31 | 8°41 | 28°18 | 25°58 | 8°35 | 14°59 | 12°37 | 12°54 | 3°14 |
| F 13 | 23 27 15 | 20° 2'34 | 10♌32 | 13° 5 | 3°46 | 9° 9 | 8°53 | 28°21 | 25°56 | 8°34 | 14°59 | 12°D37 | 12°51 | 3°15 |
| S 14 | 23 31 11 | 21° 0'59 | 24° 3 | 13°13 | 4°30 | 9°48 | 9° 4 | 28°24 | 25°54 | 8°33 | 15° 0 | 12°R37 | 12°48 | 3°15 |
| S 15 | 23 35 8 | 21°59'26 | 7♋12 | 13°R15 | 5°12 | 10°26 | 9°16 | 28°27 | 25°52 | 8°32 | 15° 0 | 12°36 | 12°45 | 3°16 |
| M16 | 23 39 5 | 22°57'54 | 20° 3 | 13°10 | 5°54 | 11° 4 | 9°27 | 28°29 | 25°50 | 8°31 | 15° 1 | 12°34 | 12°42 | 3°16 |
| T 17 | 23 43 1 | 23°56'23 | 2♌40 | 12°59 | 6°35 | 11°42 | 9°38 | 28°32 | 25°48 | 8°30 | 15° 2 | 12°29 | 12°39 | 3°17 |
| W18 | 23 46 58 | 24°54'55 | 15° 4 | 12°41 | 7°15 | 12°20 | 9°50 | 28°35 | 25°46 | 8°29 | 15° 2 | 12°21 | 12°35 | 3°18 |
| T 19 | 23 50 54 | 25°53'28 | 27°19 | 12°17 | 7°53 | 12°58 | 10° 1 | 28°37 | 25°44 | 8°28 | 15° 3 | 12°10 | 12°32 | 3°19 |
| F 20 | 23 54 51 | 26°52'02 | 9♌26 | 11°45 | 8°31 | 13°37 | 10°12 | 28°40 | 25°42 | 8°27 | 15° 4 | 11°58 | 12°29 | 3°20 |
| S 21 | 23 58 47 | 27°50'39 | 21°27 | 11° 6 | 9° 7 | 14°15 | 10°23 | 28°42 | 25°40 | 8°26 | 15° 5 | 11°44 | 12°26 | 3°21 |
| S 22 | 0 2 44 | 28°49'17 | 3♍23 | 10°21 | 9°42 | 14°53 | 10°34 | 28°44 | 25°38 | 8°25 | 15° 6 | 11°31 | 12°23 | 3°22 |
| M23 | 0 6 40 | 29°47'58 | 15°15 | 9°29 | 10°16 | 15°31 | 10°44 | 28°46 | 25°36 | 8°24 | 15° 6 | 11°19 | 12°19 | 3°23 |
| T 24 | 0 10 37 | 0♌46'40 | 27° 5 | 8°32 | 10°48 | 16° 9 | 10°55 | 28°48 | 25°35 | 8°23 | 15° 7 | 11° 9 | 12°16 | 3°25 |
| W25 | 0 14 34 | 1°45'25 | 8♌55 | 7°31 | 11°19 | 16°47 | 11° 6 | 28°50 | 25°33 | 8°22 | 15° 8 | 11° 2 | 12°13 | 3°26 |
| T 26 | 0 18 30 | 2°44'12 | 20°48 | 6°26 | 11°49 | 17°26 | 11°16 | 28°52 | 25°31 | 8°21 | 15° 9 | 10°58 | 12°10 | 3°28 |
| F 27 | 0 22 27 | 3°43'01 | 2♌47 | 5°20 | 12°17 | 18° 4 | 11°27 | 28°53 | 25°29 | 8°21 | 15°10 | 10°56 | 12° 7 | 3°29 |
| S 28 | 0 26 23 | 4°41'52 | 14°57 | 4°13 | 12°43 | 18°42 | 11°37 | 28°55 | 25°28 | 8°20 | 15°11 | 10°D56 | 12° 4 | 3°31 |
| S 29 | 0 30 20 | 5°40'45 | 27°22 | 3° 8 | 13° 8 | 19°20 | 11°47 | 28°56 | 25°26 | 8°19 | 15°12 | 10°56 | 12° 0 | 3°33 |
| M30 | 0 34 16 | 6♌39'41 | 10♌ 7 | 2♌ 6 | 13♌31 | 19♍58 | 11♎57 | 28♏58 | 25♐24 | 8♑19 | 15♒14 | 10♓R56 | 11♊57 | 3♈35 |

Delta T = 68.80 sec.

OCTOBER 2002

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-------|------|
| T 1 | 0 38 13 | 7♌38'39 | 23♌16 | 1°R 9 | 13♌52 | 20♍37 | 12♎ 7 | 28♏59 | 25°R23 | 8°R18 | 15♒15 | 10°R55 | 11♊54 | 3♈37 |
| W 2 | 0 42 9 | 8°37'40 | 6♌53 | 0♌18 | 14°12 | 21°15 | 12°17 | 29° 0 | 25°21 | 8°17 | 15°16 | 10♊52 | 11°51 | 3°39 |
| T 3 | 0 46 6 | 9°36'42 | 21° 1 | 29♍35 | 14°29 | 21°53 | 12°27 | 29° 1 | 25°20 | 8°17 | 15°17 | 10°46 | 11°48 | 3°41 |
| F 4 | 0 50 3 | 10°35'47 | 5♍36 | 29° 1 | 14°45 | 22°31 | 12°37 | 29° 2 | 25°18 | 8°16 | 15°18 | 10°39 | 11°45 | 3°43 |
| S 5 | 0 53 59 | 11°34'54 | 20°35 | 28°37 | 14°59 | 23° 9 | 12°47 | 29° 3 | 25°17 | 8°16 | 15°19 | 10°30 | 11°41 | 3°45 |
| S 6 | 0 57 56 | 12°34'03 | 5♌50 | 28°23 | 15°11 | 23°48 | 12°56 | 29° 3 | 25°15 | 8°15 | 15°21 | 10°21 | 11°38 | 3°47 |
| M 7 | 1 1 52 | 13°33'15 | 21° 8 | 28°D19 | 15°20 | 24°26 | 13° 6 | 29° 4 | 25°14 | 8°15 | 15°22 | 10°13 | 11°35 | 3°50 |
| T 8 | 1 5 49 | 14°32'28 | 6♌20 | 28°27 | 15°28 | 25° 4 | 13°15 | 29° 4 | 25°13 | 8°14 | 15°23 | 10° 7 | 11°32 | 3°52 |
| W 9 | 1 9 45 | 15°31'43 | 21°16 | 28°44 | 15°33 | 25°42 | 13°24 | 29° 5 | 25°11 | 8°14 | 15°25 | 10° 3 | 11°29 | 3°55 |
| T 10 | 1 13 42 | 16°31'00 | 5♌7 | 29°12 | 15°36 | 26°21 | 13°33 | 29° 5 | 25°10 | 8°14 | 15°26 | 10°D 2 | 11°25 | 3°58 |
| F 11 | 1 17 38 | 17°30'19 | 19°53 | 29°49 | 15°R37 | 26°59 | 13°42 | 29° 5 | 25° 9 | 8°13 | 15°27 | 10° 2 | 11°22 | 4° 0 |
| S 12 | 1 21 35 | 18°29'40 | 3♋31 | 0♌35 | 15°35 | 27°37 | 13°51 | 29°R 5 | 25° 8 | 8°13 | 15°29 | 10° 3 | 11°19 | 4° 3 |
| S 13 | 1 25 31 | 19°29'03 | 16°43 | 1°29 | 15°31 | 28°15 | 14° 0 | 29° 5 | 25° 7 | 8°13 | 15°30 | 10°R 4 | 11°16 | 4° 6 |
| M14 | 1 29 28 | 20°28'27 | 29°33 | 2°31 | 15°24 | 28°54 | 14° 8 | 29° 5 | 25° 6 | 8°12 | 15°32 | 10° 3 | 11°13 | 4° 9 |
| T 15 | 1 33 25 | 21°27'53 | 12♌ 5 | 3°39 | 15°15 | 29°32 | 14°17 | 29° 4 | 25° 5 | 8°12 | 15°33 | 10° 1 | 11°10 | 4°12 |
| W16 | 1 37 21 | 22°27'21 | 24°22 | 4°52 | 15° 4 | 0♌10 | 14°25 | 29° 4 | 25° 4 | 8°12 | 15°35 | 9°56 | 11° 6 | 4°15 |
| T 17 | 1 41 18 | 23°26'50 | 6♌29 | 6°11 | 14°50 | 0°48 | 14°33 | 29° 3 | 25° 3 | 8°12 | 15°36 | 9°50 | 11° 3 | 4°18 |
| F 18 | 1 45 14 | 24°26'21 | 18°29 | 7°33 | 14°34 | 1°27 | 14°42 | 29° 3 | 25° 2 | 8°12 | 15°38 | 9°42 | 11° 0 | 4°21 |
| S 19 | 1 49 11 | 25°25'54 | 0♍23 | 9° 0 | 14°15 | 2° 5 | 14°50 | 29° 2 | 25° 1 | 8°12 | 15°40 | 9°34 | 10°57 | 4°25 |
| S 20 | 1 53 7 | 26°25'29 | 12°15 | 10°29 | 13°54 | 2°43 | 14°57 | 29° 1 | 25° 0 | 8°12 | 15°41 | 9°25 | 10°54 | 4°28 |
| M21 | 1 57 4 | 27°25'06 | 24° 6 | 12° 1 | 13°31 | 3°22 | 15° 5 | 29° 0 | 25° 0 | 8°D12 | 15°43 | 9°17 | 10°50 | 4°31 |
| T 22 | 2 1 0 | 28°24'45 | 5♌58 | 13°36 | 13° 6 | 4° 0 | 15°13 | 28°59 | 24°59 | 8°12 | 15°45 | 9°11 | 10°47 | 4°35 |
| W23 | 2 4 57 | 29°24'26 | 17°52 | 15°11 | 12°39 | 4°38 | 15°20 | 28°58 | 24°58 | 8°12 | 15°46 | 9° 7 | 10°44 | 4°39 |
| T 24 | 2 8 54 | 0♌24'09 | 29°51 | 16°49 | 12°10 | 5°16 | 15°27 | 28°57 | 24°58 | 8°12 | 15°48 | 9° 5 | 10°41 | 4°42 |
| F 25 | 2 12 50 | 1°23'54 | 11♊57 | 18°27 | 11°40 | 5°55 | 15°35 | 28°55 | 24°57 | 8°12 | 15°50 | 9°D 4 | 10°38 | 4°46 |
| S 26 | 2 16 47 | 2°23'42 | 24°13 | 20° 6 | 11° 8 | 6°33 | 15°42 | 28°54 | 24°57 | 8°12 | 15°52 | 9° 5 | 10°35 | 4°50 |
| S 27 | 2 20 43 | 3°23'31 | 6♌42 | 21°45 | 10°34 | 7°11 | 15°49 | 28°52 | 24°56 | 8°12 | 15°53 | 9° 7 | 10°31 | 4°54 |
| M28 | 2 24 40 | 4°23'23 | 19°28 | 23°25 | 10° 0 | 7°50 | 15°55 | 28°50 | 24°56 | 8°13 | 15°55 | 9° 8 | 10°28 | 4°57 |
| T 29 | 2 28 36 | 5°23'17 | 2♌35 | 25° 5 | 9°24 | 8°28 | 16° 2 | 28°48 | 24°55 | 8°13 | 15°57 | 9°R 9 | 10°25 | 5° 1 |
| W30 | 2 32 33 | 6°23'13 | 16° 5 | 26°45 | 8°48 | 9° 6 | 16° 8 | 28°46 | 24°55 | 8°13 | 15°59 | 9° 9 | 10°22 | 5° 5 |
| T 31 | 2 36 29 | 7♌23'12 | 0♍ 0 | 28♌25 | 8♌12 | 9♌45 | 16♎15 | 28♏44 | 24♐55 | 8♑14 | 16♒ 1 | 9♓ 7 | 10♊19 | 5♈10 |

Delta T = 68.88 sec.

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NOVEMBER 2002

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|-------|-------|-------|-------|--------|--------|------|-------|-------|-------|------|
| F 1 | 2 40 26 | 8♉23'12 | 14♏21 | 0♈ 5 | 7°R35 | 10♉23 | 16♏21 | 28°R42 | 24°R55 | 8♉14 | 16♏ 3 | 9°R 4 | 10♏16 | 5♉14 |
| S 2 | 2 44 23 | 9°23'15 | 29° 5 | 1°45 | 6♈59 | 11° 2 | 16°27 | 28♏40 | 24♉55 | 8°14 | 16° 5 | 9♏ 0 | 10°12 | 5°18 |
| S 3 | 2 48 19 | 10°23'19 | 14♉ 6 | 3°25 | 6°23 | 11°40 | 16°33 | 28°38 | 24°55 | 8°15 | 16° 7 | 8°56 | 10° 9 | 5°22 |
| M 4 | 2 52 16 | 11°23'26 | 29°16 | 5° 4 | 5°47 | 12°18 | 16°38 | 28°35 | 24°D54 | 8°15 | 16° 9 | 8°52 | 10° 6 | 5°27 |
| T 5 | 2 56 12 | 12°23'35 | 14♏24 | 6°43 | 5°13 | 12°57 | 16°44 | 28°33 | 24°55 | 8°16 | 16°11 | 8°49 | 10° 3 | 5°31 |
| W 6 | 3 0 9 | 13°23'45 | 29°22 | 8°22 | 4°39 | 13°35 | 16°49 | 28°30 | 24°55 | 8°16 | 16°13 | 8°47 | 10° 0 | 5°35 |
| T 7 | 3 4 5 | 14°23'58 | 14♏ 1 | 10° 0 | 4° 7 | 14°13 | 16°54 | 28°27 | 24°55 | 8°17 | 16°15 | 8°D47 | 9°56 | 5°40 |
| F 8 | 3 8 2 | 15°24'11 | 28°16 | 11°38 | 3°36 | 14°52 | 16°59 | 28°24 | 24°55 | 8°17 | 16°17 | 8°48 | 9°53 | 5°44 |
| S 9 | 3 11 58 | 16°24'27 | 12♉ 4 | 13°16 | 3° 6 | 15°30 | 17° 4 | 28°21 | 24°55 | 8°18 | 16°19 | 8°50 | 9°50 | 5°49 |
| S 10 | 3 15 55 | 17°24'44 | 25°24 | 14°53 | 2°39 | 16° 9 | 17° 9 | 28°18 | 24°55 | 8°19 | 16°21 | 8°51 | 9°47 | 5°54 |
| M11 | 3 19 52 | 18°25'02 | 8♉20 | 16°30 | 2°13 | 16°47 | 17°13 | 28°15 | 24°56 | 8°20 | 16°23 | 8°52 | 9°44 | 5°58 |
| T 12 | 3 23 48 | 19°25'22 | 20°55 | 18° 7 | 1°50 | 17°26 | 17°18 | 28°12 | 24°56 | 8°20 | 16°25 | 8°R52 | 9°41 | 6° 3 |
| W13 | 3 27 45 | 20°25'43 | 3♏12 | 19°43 | 1°28 | 18° 4 | 17°22 | 28° 9 | 24°56 | 8°21 | 16°27 | 8°52 | 9°37 | 6° 8 |
| T 14 | 3 31 41 | 21°26'06 | 15°17 | 21°19 | 1° 9 | 18°42 | 17°26 | 28° 5 | 24°57 | 8°22 | 16°29 | 8°50 | 9°34 | 6°13 |
| F 15 | 3 35 38 | 22°26'30 | 27°13 | 22°55 | 0°52 | 19°21 | 17°29 | 28° 2 | 24°57 | 8°23 | 16°31 | 8°48 | 9°31 | 6°18 |
| S 16 | 3 39 34 | 23°26'55 | 9♏ 4 | 24°30 | 0°38 | 19°59 | 17°33 | 27°58 | 24°58 | 8°24 | 16°33 | 8°46 | 9°28 | 6°23 |
| S 17 | 3 43 31 | 24°27'22 | 20°55 | 26° 5 | 0°26 | 20°38 | 17°36 | 27°55 | 24°59 | 8°24 | 16°35 | 8°43 | 9°25 | 6°28 |
| M18 | 3 47 27 | 25°27'50 | 2♉47 | 27°40 | 0°17 | 21°16 | 17°40 | 27°51 | 24°59 | 8°25 | 16°38 | 8°41 | 9°22 | 6°33 |
| T 19 | 3 51 24 | 26°28'20 | 14°43 | 29°15 | 0°10 | 21°55 | 17°43 | 27°47 | 25° 0 | 8°26 | 16°40 | 8°40 | 9°18 | 6°38 |
| W20 | 3 55 21 | 27°28'51 | 26°46 | 0♏49 | 0° 5 | 22°33 | 17°46 | 27°43 | 25° 1 | 8°27 | 16°42 | 8°39 | 9°15 | 6°43 |
| T 21 | 3 59 17 | 28°29'24 | 8♏56 | 2°23 | 0°D 3 | 23°12 | 17°48 | 27°39 | 25° 2 | 8°28 | 16°44 | 8°D39 | 9°12 | 6°48 |
| F 22 | 4 3 14 | 29°29'58 | 21°16 | 3°57 | 0° 4 | 23°50 | 17°51 | 27°35 | 25° 3 | 8°29 | 16°46 | 8°39 | 9° 9 | 6°54 |
| S 23 | 4 7 10 | 0♏30'34 | 3♉47 | 5°31 | 0° 7 | 24°29 | 17°53 | 27°31 | 25° 4 | 8°31 | 16°49 | 8°39 | 9° 6 | 6°59 |
| S 24 | 4 11 7 | 1°31'12 | 16°30 | 7° 5 | 0°12 | 25° 7 | 17°55 | 27°27 | 25° 4 | 8°32 | 16°51 | 8°40 | 9° 2 | 7° 4 |
| M25 | 4 15 3 | 2°31'51 | 29°27 | 8°38 | 0°20 | 25°46 | 17°57 | 27°23 | 25° 6 | 8°33 | 16°53 | 8°41 | 8°59 | 7° 9 |
| T 26 | 4 19 0 | 3°32'32 | 12♏41 | 10°11 | 0°30 | 26°24 | 17°59 | 27°19 | 25° 7 | 8°34 | 16°55 | 8°41 | 8°56 | 7°15 |
| W27 | 4 22 56 | 4°33'14 | 26°11 | 11°45 | 0°42 | 27° 3 | 18° 1 | 27°14 | 25° 8 | 8°35 | 16°58 | 8°42 | 8°53 | 7°20 |
| T 28 | 4 26 53 | 5°33'58 | 9♏59 | 13°18 | 0°56 | 27°41 | 18° 2 | 27°10 | 25° 9 | 8°36 | 17° 0 | 8°R42 | 8°50 | 7°26 |
| F 29 | 4 30 50 | 6°34'43 | 24° 6 | 14°51 | 1°12 | 28°20 | 18° 3 | 27° 6 | 25°10 | 8°38 | 17° 2 | 8°42 | 8°47 | 7°31 |
| S 30 | 4 34 46 | 7♏35'30 | 8♏29 | 16♏23 | 1♈31 | 28♏58 | 18♏ 4 | 27♏ 1 | 25♏11 | 8♏39 | 17♏ 4 | 8♏42 | 8♏43 | 7♏37 |

Delta T = 68.97 sec.

DECEMBER 2002

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|-------|-------|-------|--------|--------|-------|------|-------|-------|------|-------|
| S 1 | 4 38 43 | 8♏36'19 | 23♉ 6 | 17♏56 | 1♈51 | 29♉37 | 18♏ 5 | 26°R57 | 25♏13 | 8♏40 | 17♏ 7 | 8♏41 | 8♏40 | 7♏42 |
| M 2 | 4 42 39 | 9°37'09 | 7♏51 | 19°29 | 2°14 | 0♈15 | 18° 6 | 26♏52 | 25°14 | 8°42 | 17° 9 | 8°42 | 8°37 | 7°48 |
| T 3 | 4 46 36 | 10°38'00 | 22°39 | 21° 1 | 2°38 | 0°54 | 18° 6 | 26°47 | 25°16 | 8°43 | 17°11 | 8°42 | 8°34 | 7°54 |
| W 4 | 4 50 32 | 11°38'53 | 7♏22 | 22°34 | 3° 4 | 1°33 | 18° 6 | 26°43 | 25°17 | 8°44 | 17°13 | 8°R42 | 8°31 | 7°59 |
| T 5 | 4 54 29 | 12°39'47 | 21°53 | 24° 6 | 3°32 | 2°11 | 18°R 6 | 26°38 | 25°19 | 8°46 | 17°16 | 8°42 | 8°28 | 8° 5 |
| F 6 | 4 58 26 | 13°40'42 | 6♉ 6 | 25°38 | 4° 1 | 2°50 | 18° 6 | 26°33 | 25°20 | 8°47 | 17°18 | 8°41 | 8°24 | 8°11 |
| S 7 | 5 2 22 | 14°41'38 | 19°56 | 27°10 | 4°32 | 3°28 | 18° 6 | 26°28 | 25°22 | 8°49 | 17°20 | 8°41 | 8°21 | 8°16 |
| S 8 | 5 6 19 | 15°42'34 | 3♉23 | 28°42 | 5° 4 | 4° 7 | 18° 5 | 26°24 | 25°23 | 8°50 | 17°23 | 8°40 | 8°18 | 8°22 |
| M 9 | 5 10 15 | 16°43'32 | 16°25 | 0♉14 | 5°38 | 4°45 | 18° 4 | 26°19 | 25°25 | 8°52 | 17°25 | 8°39 | 8°15 | 8°28 |
| T 10 | 5 14 12 | 17°44'30 | 29° 5 | 1°45 | 6°14 | 5°24 | 18° 3 | 26°14 | 25°27 | 8°54 | 17°27 | 8°38 | 8°12 | 8°34 |
| W11 | 5 18 8 | 18°45'28 | 11♏26 | 3°16 | 6°50 | 6° 3 | 18° 2 | 26° 9 | 25°29 | 8°55 | 17°30 | 8°37 | 8° 8 | 8°40 |
| T 12 | 5 22 5 | 19°46'28 | 23°32 | 4°47 | 7°28 | 6°41 | 18° 1 | 26° 4 | 25°30 | 8°57 | 17°32 | 8°D37 | 8° 5 | 8°45 |
| F 13 | 5 26 1 | 20°47'27 | 5♏28 | 6°17 | 8° 8 | 7°20 | 17°59 | 25°59 | 25°32 | 8°58 | 17°34 | 8°38 | 8° 2 | 8°51 |
| S 14 | 5 29 58 | 21°48'28 | 17°19 | 7°47 | 8°48 | 7°58 | 17°57 | 25°54 | 25°34 | 9° 0 | 17°36 | 8°39 | 7°59 | 8°57 |
| S 15 | 5 33 55 | 22°49'29 | 29° 9 | 9°16 | 9°30 | 8°37 | 17°55 | 25°49 | 25°36 | 9° 2 | 17°39 | 8°40 | 7°56 | 9° 3 |
| M16 | 5 37 51 | 23°50'30 | 11♉ 3 | 10°44 | 10°13 | 9°16 | 17°53 | 25°44 | 25°38 | 9° 4 | 17°41 | 8°42 | 7°53 | 9° 9 |
| T 17 | 5 41 48 | 24°51'32 | 23° 4 | 12°11 | 10°56 | 9°54 | 17°51 | 25°40 | 25°40 | 9° 5 | 17°43 | 8°43 | 7°49 | 9°15 |
| W18 | 5 45 44 | 25°52'35 | 5♏15 | 13°38 | 11°41 | 10°33 | 17°48 | 25°35 | 25°42 | 9° 7 | 17°46 | 8°R43 | 7°46 | 9°21 |
| T 19 | 5 49 41 | 26°53'38 | 17°38 | 15° 2 | 12°27 | 11°11 | 17°46 | 25°30 | 25°44 | 9° 9 | 17°48 | 8°43 | 7°43 | 9°27 |
| F 20 | 5 53 37 | 27°54'42 | 0♉16 | 16°25 | 13°14 | 11°50 | 17°43 | 25°25 | 25°47 | 9°11 | 17°50 | 8°42 | 7°40 | 9°33 |
| S 21 | 5 57 34 | 28°55'46 | 13° 8 | 17°47 | 14° 2 | 12°29 | 17°40 | 25°20 | 25°49 | 9°12 | 17°52 | 8°40 | 7°37 | 9°39 |
| S 22 | 6 1 30 | 29°56'51 | 26°15 | 19° 6 | 14°51 | 13° 7 | 17°36 | 25°15 | 25°51 | 9°14 | 17°55 | 8°37 | 7°34 | 9°45 |
| M23 | 6 5 27 | 0♉57'56 | 9♏34 | 20°22 | 15°40 | 13°46 | 17°33 | 25°10 | 25°53 | 9°16 | 17°57 | 8°33 | 7°30 | 9°51 |
| T 24 | 6 9 24 | 1°59'03 | 23° 7 | 21°35 | 16°31 | 14°25 | 17°29 | 25° 5 | 25°56 | 9°18 | 17°59 | 8°30 | 7°27 | 9°57 |
| W25 | 6 13 20 | 3° 0'09 | 6♏50 | 22°44 | 17°22 | 15° 3 | 17°25 | 25° 0 | 25°58 | 9°20 | 18° 1 | 8°27 | 7°24 | 10° 3 |
| T 26 | 6 17 17 | 4° 1'17 | 20°44 | 23°50 | 18°14 | 15°42 | 17°21 | 24°55 | 26° 1 | 9°22 | 18° 4 | 8°25 | 7°21 | 10° 9 |
| F 27 | 6 21 13 | 5° 2'24 | 4♏46 | 24°50 | 19° 7 | 16°21 | 17°17 | 24°50 | 26° 3 | 9°24 | 18° 6 | 8°D24 | 7°18 | 10°15 |
| S 28 | 6 25 10 | 6° 3'33 | 18°55 | 25°45 | 20° 0 | 16°59 | 17°13 | 24°46 | 26° 5 | 9°26 | 18° 8 | 8°25 | 7°14 | 10°21 |
| S 29 | 6 29 6 | 7° 4'42 | 3♏10 | 26°33 | 20°54 | 17°38 | 17° 8 | 24°41 | 26° 8 | 9°28 | 18°10 | 8°26 | 7°11 | 10°27 |
| M30 | 6 33 3 | 8° 5'52 | 17°28 | 27°14 | 21°49 | 18°17 | 17° 3 | 24°36 | 26°11 | 9°30 | 18°12 | 8°28 | 7° 8 | 10°33 |
| T 31 | 6 36 59 | 9♉ 7'02 | 1♏47 | 27♏47 | 22♏44 | 18♏55 | 16♏58 | 24♏31 | 26♏13 | 9♏32 | 18♏15 | 8°R29 | 7♏ 5 | 10♏39 |

Delta T = 69.06 sec.

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