

SWISS EPHEMERIS for the year 1072

JANUARY 1072 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇     | ♈      | ♉     | ♊    | ♋     | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|-------|---|---|---|---|---|---|---|---|--|
| S 1  | 7 2 39  | 16♁18'58 | 10♏1  | 7♁4   | 24♁55 | 19♎5  | 22♁28 | 15♎5  | 18♁25 | 3°R29 | 9♏50  | 14°R37 | 13♎20 | 3♁18 | 8♁56  |   |   |   |   |   |   |   |   |  |
| M 2  | 7 6 36  | 17°20'03 | 22°42 | 8°40  | 26°7  | 19°44 | 22°42 | 15°9  | 18°28 | 3♎28  | 9°51  | 14°D37 | 13°17 | 3°25 | 9°2   |   |   |   |   |   |   |   |   |  |
| T 3  | 7 10 33 | 18°21'07 | 5♁44  | 10°16 | 27°19 | 20°23 | 22°57 | 15°14 | 18°32 | 3°27  | 9°52  | 14♎38  | 13°14 | 3°32 | 9°8   |   |   |   |   |   |   |   |   |  |
| W 4  | 7 14 29 | 19°22'10 | 19°11 | 11°53 | 28°31 | 21°3  | 23°11 | 15°18 | 18°35 | 3°26  | 9°53  | 14°39  | 13°11 | 3°38 | 9°14  |   |   |   |   |   |   |   |   |  |
| T 5  | 7 18 26 | 20°23'12 | 3♎7   | 13°31 | 29°43 | 21°42 | 23°25 | 15°22 | 18°39 | 3°24  | 9°54  | 14°41  | 13°8  | 3°45 | 9°20  |   |   |   |   |   |   |   |   |  |
| F 6  | 7 22 22 | 21°24'13 | 17°30 | 15°9  | 0♏55  | 22°21 | 23°39 | 15°27 | 18°42 | 3°23  | 9°55  | 14°R41 | 13°4  | 3°52 | 9°26  |   |   |   |   |   |   |   |   |  |
| S 7  | 7 26 19 | 22°25'13 | 2♁18  | 16°47 | 2°6   | 23°0  | 23°53 | 15°31 | 18°46 | 3°22  | 9°56  | 14°40  | 13°1  | 3°58 | 9°32  |   |   |   |   |   |   |   |   |  |
| S 8  | 7 30 15 | 23°26'12 | 17°26 | 18°27 | 3°18  | 23°39 | 24°8  | 15°35 | 18°49 | 3°21  | 9°57  | 14°37  | 12°58 | 4°5  | 9°38  |   |   |   |   |   |   |   |   |  |
| M 9  | 7 34 12 | 24°27'10 | 2♎43  | 20°7  | 4°30  | 24°18 | 24°22 | 15°39 | 18°53 | 3°21  | 9°58  | 14°32  | 12°55 | 4°12 | 9°43  |   |   |   |   |   |   |   |   |  |
| T 10 | 7 38 9  | 25°28'07 | 17°59 | 21°47 | 5°41  | 24°58 | 24°36 | 15°43 | 18°57 | 3°20  | 10°0  | 14°26  | 12°52 | 4°19 | 9°49  |   |   |   |   |   |   |   |   |  |
| W11  | 7 42 5  | 26°29'03 | 3♎4   | 23°29 | 6°52  | 25°37 | 24°50 | 15°47 | 19°0  | 3°19  | 10°1  | 14°19  | 12°49 | 4°25 | 9°55  |   |   |   |   |   |   |   |   |  |
| T 12 | 7 46 2  | 27°29'58 | 17°49 | 25°11 | 8°4   | 26°16 | 25°5  | 15°50 | 19°4  | 3°18  | 10°2  | 14°13  | 12°45 | 4°32 | 10°0  |   |   |   |   |   |   |   |   |  |
| F 13 | 7 49 58 | 28°30'52 | 2♁7   | 26°53 | 9°15  | 26°55 | 25°19 | 15°54 | 19°7  | 3°17  | 10°3  | 14°8   | 12°42 | 4°39 | 10°6  |   |   |   |   |   |   |   |   |  |
| S 14 | 7 53 55 | 29°31'45 | 15°57 | 28°37 | 10°26 | 27°34 | 25°33 | 15°57 | 19°11 | 3°16  | 10°4  | 14°6   | 12°39 | 4°45 | 10°11 |   |   |   |   |   |   |   |   |  |
| S 15 | 7 57 51 | 0♁32'38  | 29°19 | 0♁21  | 11°37 | 28°13 | 25°47 | 16°1  | 19°14 | 3°15  | 10°6  | 14°D4  | 12°36 | 4°52 | 10°17 |   |   |   |   |   |   |   |   |  |
| M16  | 8 1 48  | 1°33'29  | 12♎15 | 2°6   | 12°48 | 28°52 | 26°1  | 16°4  | 19°17 | 3°15  | 10°7  | 14°5   | 12°33 | 4°59 | 10°22 |   |   |   |   |   |   |   |   |  |
| T 17 | 8 5 44  | 2°34'20  | 24°51 | 3°51  | 13°58 | 29°32 | 26°16 | 16°8  | 19°21 | 3°14  | 10°8  | 14°6   | 12°30 | 5°5  | 10°27 |   |   |   |   |   |   |   |   |  |
| W18  | 8 9 41  | 3°35'09  | 7♁9   | 5°38  | 15°9  | 0♁11  | 26°30 | 16°11 | 19°24 | 3°13  | 10°9  | 14°7   | 12°26 | 5°12 | 10°33 |   |   |   |   |   |   |   |   |  |
| T 19 | 8 13 38 | 4°35'58  | 19°15 | 7°25  | 16°19 | 0°50  | 26°44 | 16°14 | 19°28 | 3°13  | 10°11 | 14°R8  | 12°23 | 5°19 | 10°38 |   |   |   |   |   |   |   |   |  |
| F 20 | 8 17 34 | 5°36'45  | 1♁13  | 9°12  | 17°29 | 1°29  | 26°58 | 16°17 | 19°31 | 3°12  | 10°12 | 14°6   | 12°20 | 5°25 | 10°43 |   |   |   |   |   |   |   |   |  |
| S 21 | 8 21 31 | 6°37'32  | 13°5  | 11°0  | 18°40 | 2°8   | 27°12 | 16°20 | 19°35 | 3°11  | 10°13 | 14°2   | 12°17 | 5°32 | 10°48 |   |   |   |   |   |   |   |   |  |
| S 22 | 8 25 27 | 7°38'17  | 24°55 | 12°49 | 19°50 | 2°47  | 27°26 | 16°23 | 19°38 | 3°11  | 10°15 | 13°55  | 12°14 | 5°39 | 10°53 |   |   |   |   |   |   |   |   |  |
| M23  | 8 29 24 | 8°39'00  | 6♁45  | 14°39 | 21°0  | 3°27  | 27°41 | 16°25 | 19°42 | 3°10  | 10°16 | 13°46  | 12°10 | 5°46 | 10°58 |   |   |   |   |   |   |   |   |  |
| T 24 | 8 33 20 | 9°39'42  | 18°37 | 16°28 | 22°9  | 4°6   | 27°55 | 16°28 | 19°45 | 3°10  | 10°17 | 13°35  | 12°7  | 5°52 | 11°3  |   |   |   |   |   |   |   |   |  |
| W25  | 8 37 17 | 10°40'23 | 0♁31  | 18°18 | 23°19 | 4°45  | 28°9  | 16°30 | 19°48 | 3°9   | 10°19 | 13°23  | 12°4  | 5°59 | 11°7  |   |   |   |   |   |   |   |   |  |
| T 26 | 8 41 13 | 11°41'02 | 12°29 | 20°8  | 24°28 | 5°24  | 28°23 | 16°33 | 19°52 | 3°9   | 10°20 | 13°12  | 12°1  | 6°6  | 11°12 |   |   |   |   |   |   |   |   |  |
| F 27 | 8 45 10 | 12°41'39 | 24°34 | 21°58 | 25°38 | 6°3   | 28°37 | 16°35 | 19°55 | 3°9   | 10°21 | 13°1   | 11°58 | 6°12 | 11°17 |   |   |   |   |   |   |   |   |  |
| S 28 | 8 49 7  | 13°42'14 | 6♏47  | 23°48 | 26°47 | 6°42  | 28°51 | 16°38 | 19°58 | 3°8   | 10°23 | 12°53  | 11°55 | 6°19 | 11°21 |   |   |   |   |   |   |   |   |  |
| S 29 | 8 53 3  | 14°42'48 | 19°10 | 25°38 | 27°56 | 7°21  | 29°5  | 16°40 | 20°2  | 3°8   | 10°24 | 12°47  | 11°51 | 6°26 | 11°25 |   |   |   |   |   |   |   |   |  |
| M30  | 8 57 0  | 15°43'20 | 1♁49  | 27°27 | 29°5  | 8°0   | 29°19 | 16°42 | 20°5  | 3°8   | 10°26 | 12°44  | 11°48 | 6°32 | 11°30 |   |   |   |   |   |   |   |   |  |
| T 31 | 9 0 56  | 16♁43'50 | 14♁45 | 29♁15 | 0♏13  | 8♁39  | 29♁33 | 16♎44 | 20♁8  | 3♎7   | 10♏27 | 12°D43 | 11♎45 | 6♁39 | 11♁34 |   |   |   |   |   |   |   |   |  |

Delta T = 20m21s Julian Calendar 1 Jan. 1072 == Greg. Calendar 7 Jan. 1072

FEBRUARY 1072 JC

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| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♄     | ♅     | ♆    | ♇     | ♈      | ♉     | ♊    | ♋     | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|------|-------|--------|-------|------|-------|---|---|---|---|---|---|---|---|--|
| W 1  | 9 4 53   | 17♁44'18 | 28♁3  | 1♏2    | 1♏22  | 9♁18  | 29♁47 | 16♎46 | 20♁11 | 3°R7 | 10♏29 | 12♎43  | 11♎42 | 6♁46 | 11♁38 |   |   |   |   |   |   |   |   |  |
| T 2  | 9 8 49   | 18°44'44 | 11♎45 | 2°47   | 2°30  | 9°57  | 0♁0   | 16°47 | 20°15 | 3♎7  | 10°30 | 12°R44 | 11°39 | 6°53 | 11°42 |   |   |   |   |   |   |   |   |  |
| F 3  | 9 12 46  | 19°45'08 | 25°54 | 4°30   | 3°38  | 10°36 | 0°14  | 16°49 | 20°18 | 3°7  | 10°32 | 12°43  | 11°36 | 6°59 | 11°46 |   |   |   |   |   |   |   |   |  |
| S 4  | 9 16 42  | 20°45'31 | 10♁30 | 6°10   | 4°46  | 11°16 | 0°28  | 16°51 | 20°21 | 3°7  | 10°33 | 12°40  | 11°32 | 7°6  | 11°50 |   |   |   |   |   |   |   |   |  |
| S 5  | 9 20 39  | 21°45'51 | 25°28 | 7°47   | 5°54  | 11°55 | 0°42  | 16°52 | 20°24 | 3°7  | 10°34 | 12°35  | 11°29 | 7°13 | 11°54 |   |   |   |   |   |   |   |   |  |
| M 6  | 9 24 36  | 22°46'09 | 10♎41 | 9°21   | 7°1   | 12°34 | 0°56  | 16°53 | 20°27 | 3°7  | 10°36 | 12°27  | 11°26 | 7°19 | 11°58 |   |   |   |   |   |   |   |   |  |
| T 7  | 9 28 32  | 23°46'26 | 25°59 | 10°51  | 8°8   | 13°13 | 1°9   | 16°55 | 20°30 | 3°D7 | 10°37 | 12°17  | 11°23 | 7°26 | 12°2  |   |   |   |   |   |   |   |   |  |
| W 8  | 9 32 29  | 24°46'40 | 11♎12 | 12°15  | 9°15  | 13°52 | 1°23  | 16°56 | 20°33 | 3°7  | 10°39 | 12°6   | 11°20 | 7°33 | 12°5  |   |   |   |   |   |   |   |   |  |
| T 9  | 9 36 25  | 25°46'53 | 26°7  | 13°34  | 10°22 | 14°31 | 1°37  | 16°57 | 20°36 | 3°7  | 10°40 | 11°56  | 11°16 | 7°39 | 12°9  |   |   |   |   |   |   |   |   |  |
| F 10 | 9 40 22  | 26°47'04 | 10♁38 | 14°47  | 11°29 | 15°10 | 1°50  | 16°58 | 20°40 | 3°7  | 10°42 | 11°47  | 11°13 | 7°46 | 12°12 |   |   |   |   |   |   |   |   |  |
| S 11 | 9 44 18  | 27°47'14 | 24°39 | 15°54  | 12°35 | 15°49 | 2°4   | 16°59 | 20°43 | 3°7  | 10°43 | 11°41  | 11°10 | 7°53 | 12°16 |   |   |   |   |   |   |   |   |  |
| S 12 | 9 48 15  | 28°47'22 | 8♎10  | 16°53  | 13°41 | 16°28 | 2°17  | 16°59 | 20°45 | 3°7  | 10°45 | 11°37  | 11°7  | 8°0  | 12°19 |   |   |   |   |   |   |   |   |  |
| M13  | 9 52 11  | 29°47'28 | 21°12 | 17°44  | 14°47 | 17°6  | 2°31  | 17°0  | 20°48 | 3°7  | 10°46 | 11°35  | 11°4  | 8°6  | 12°22 |   |   |   |   |   |   |   |   |  |
| T 14 | 9 56 8   | 0♏47'33  | 3♁49  | 18°28  | 15°53 | 17°45 | 2°44  | 17°1  | 20°51 | 3°8  | 10°48 | 11°D35 | 11°1  | 8°13 | 12°25 |   |   |   |   |   |   |   |   |  |
| W15  | 10 0 5   | 1°47'36  | 16°7  | 19°3   | 16°58 | 18°24 | 2°58  | 17°1  | 20°54 | 3°8  | 10°50 | 11°R35 | 10°57 | 8°20 | 12°29 |   |   |   |   |   |   |   |   |  |
| T 16 | 10 4 1   | 2°47'37  | 28°10 | 19°29  | 18°3  | 19°3  | 3°11  | 17°2  | 20°57 | 3°8  | 10°51 | 11°34  | 10°54 | 8°26 | 12°31 |   |   |   |   |   |   |   |   |  |
| F 17 | 10 7 58  | 3°47'37  | 10♁5  | 19°46  | 19°8  | 19°42 | 3°24  | 17°2  | 21°0  | 3°8  | 10°53 | 11°31  | 10°51 | 8°33 | 12°34 |   |   |   |   |   |   |   |   |  |
| S 18 | 10 11 54 | 4°47'35  | 21°54 | 19°R54 | 20°13 | 20°21 | 3°37  | 17°2  | 21°3  | 3°9  | 10°54 | 11°25  | 10°48 | 8°40 | 12°37 |   |   |   |   |   |   |   |   |  |
| S 19 | 10 15 51 | 5°47'31  | 3♁42  | 19°53  | 21°17 | 21°0  | 3°51  | 17°R2 | 21°5  | 3°9  | 10°56 | 11°17  | 10°45 | 8°46 | 12°40 |   |   |   |   |   |   |   |   |  |
| M20  | 10 19 47 | 6°47'26  | 15°33 | 19°44  | 22°21 | 21°39 | 4°4   | 17°2  | 21°8  | 3°10 | 10°57 | 11°5   | 10°42 | 8°53 | 12°42 |   |   |   |   |   |   |   |   |  |
| T 21 | 10 23 44 | 7°47'18  | 27°28 | 19°26  | 23°24 | 22°18 | 4°17  | 17°2  | 21°11 | 3°10 | 10°59 | 10°52  | 10°38 | 9°0  | 12°45 |   |   |   |   |   |   |   |   |  |
| W22  | 10 27 40 | 8°47'08  | 9♏29  | 19°0   | 24°28 | 22°56 | 4°30  | 17°1  | 21°14 | 3°11 | 11°0  | 10°37  | 10°35 | 9°7  | 12°47 |   |   |   |   |   |   |   |   |  |
| T 23 | 10 31 37 | 9°46'57  | 21°36 | 18°27  | 25°31 | 23°35 | 4°43  | 17°1  | 21°16 | 3°11 | 11°2  | 10°23  | 10°32 | 9°13 | 12°49 |   |   |   |   |   |   |   |   |  |
| F 24 | 10 35 34 | 10°46'43 | 3♏52  | 17°47  | 26°34 | 24°14 | 4°56  | 17°1  | 21°19 | 3°12 | 11°3  | 10°9   | 10°29 | 9°20 | 12°52 |   |   |   |   |   |   |   |   |  |
| S 25 | 10 39 30 | 11°46'27 | 16°16 | 17°2   | 27°36 | 24°53 | 5°8   | 17°0  | 21°21 | 3°12 | 11°5  | 9°58   | 10°26 | 9°27 | 12°54 |   |   |   |   |   |   |   |   |  |
| S 26 | 10 43 27 | 12°46'09 | 28°51 | 16°13  | 28°38 | 25°31 | 5°21  | 16°59 | 21°24 | 3°13 | 11°7  | 9°51   | 10°22 | 9°33 | 12°56 |   |   |   |   |   |   |   |   |  |
| M27  | 10 47 23 | 13°45'49 | 11♁37 | 15°21  | 29°40 | 26°10 | 5°34  | 16°59 | 21°26 | 3°14 | 11°8  | 9°46   | 10°19 | 9°40 | 12°58 |   |   |   |   |   |   |   |   |  |
| T 28 | 10 51 20 | 14°45'26 | 24°36 | 14°26  | 0♁41  | 26°49 | 5°46  | 16°58 | 21°29 | 3°14 |       |        |       |      |       |   |   |   |   |   |   |   |   |  |

SWISS EPHEMERIS for the year 1072

MARCH 1072 JC

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| Day  | Sid.t    | ☉         | ☽      | ♀      | ♁     | ♂     | ♃     | ♄      | ♅     | ♆      | ♇     | ♈      | ♉       | ♊     | ♋      | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|-----------|--------|--------|-------|-------|-------|--------|-------|--------|-------|--------|---------|-------|--------|---|---|---|---|---|---|---|---|--|
| T 1  | 10 59 13 | 16°44'34  | 21°29  | 12°R36 | 28°42 | 28°42 | 6°11  | 16°R56 | 21°34 | 3°16   | 11°13 | 9°R43  | 10°II10 | 10°0  | 13°7   | 3 |   |   |   |   |   |   |   |  |
| F 2  | 11 3 9   | 17°44'04  | 5°26   | 11°43  | 3°42  | 28°45 | 6°24  | 16°L55 | 21°36 | 3°17   | 11°14 | 9°II42 | 10°7    | 10°7  | 13°4   |   |   |   |   |   |   |   |   |  |
| S 3  | 11 7 6   | 18°43'32  | 19°45  | 10°52  | 4°42  | 29°23 | 6°36  | 16°53  | 21°38 | 3°18   | 11°16 | 9°39   | 10°3    | 10°14 | 13°6   |   |   |   |   |   |   |   |   |  |
| S 4  | 11 11 3  | 19°42'58  | 4°23   | 10°4   | 5°41  | 0°3   | 6°48  | 16°52  | 21°41 | 3°18   | 11°17 | 9°34   | 10°0    | 10°20 | 13°7   |   |   |   |   |   |   |   |   |  |
| M 5  | 11 14 59 | 20°42'21  | 19°17  | 9°21   | 6°40  | 0°40  | 7°1   | 16°51  | 21°43 | 3°19   | 11°19 | 9°26   | 9°57    | 10°27 | 13°8   |   |   |   |   |   |   |   |   |  |
| T 6  | 11 18 56 | 21°41'42  | 4°19   | 8°42   | 7°38  | 1°19  | 7°13  | 16°49  | 21°45 | 3°20   | 11°20 | 9°16   | 9°54    | 10°34 | 13°10  |   |   |   |   |   |   |   |   |  |
| W 7  | 11 22 52 | 22°41'01  | 19°19  | 8°8    | 8°36  | 1°57  | 7°25  | 16°47  | 21°47 | 3°21   | 11°22 | 9°5    | 9°51    | 10°40 | 13°11  |   |   |   |   |   |   |   |   |  |
| T 8  | 11 26 49 | 23°40'17  | 4°8    | 7°40   | 9°33  | 2°36  | 7°37  | 16°46  | 21°49 | 3°22   | 11°23 | 8°54   | 9°47    | 10°47 | 13°12  |   |   |   |   |   |   |   |   |  |
| F 9  | 11 30 45 | 24°39'32  | 18°38  | 7°17   | 10°30 | 3°14  | 7°49  | 16°44  | 21°51 | 3°23   | 11°25 | 8°45   | 9°44    | 10°54 | 13°13  |   |   |   |   |   |   |   |   |  |
| S 10 | 11 34 42 | 25°38'44  | 2°41   | 7°0    | 11°26 | 3°52  | 8°1   | 16°42  | 21°53 | 3°24   | 11°27 | 8°38   | 9°41    | 11°1  | 13°13  |   |   |   |   |   |   |   |   |  |
| S 11 | 11 38 38 | 26°37'55  | 16°17  | 6°49   | 12°22 | 4°31  | 8°12  | 16°40  | 21°55 | 3°25   | 11°28 | 8°33   | 9°38    | 11°7  | 13°14  |   |   |   |   |   |   |   |   |  |
| M12  | 11 42 35 | 27°37'04  | 29°25  | 6°D44  | 13°17 | 5°9   | 8°24  | 16°38  | 21°57 | 3°26   | 11°30 | 8°31   | 9°35    | 11°14 | 13°15  |   |   |   |   |   |   |   |   |  |
| T 13 | 11 46 31 | 28°36'11  | 12°7   | 6°45   | 14°11 | 5°47  | 8°35  | 16°36  | 21°59 | 3°28   | 11°31 | 8°D31  | 9°32    | 11°21 | 13°15  |   |   |   |   |   |   |   |   |  |
| W14  | 11 50 28 | 29°35'16  | 24°29  | 6°51   | 15°5  | 6°26  | 8°47  | 16°34  | 22°1  | 3°29   | 11°32 | 8°R31  | 9°28    | 11°27 | 13°15  |   |   |   |   |   |   |   |   |  |
| T 15 | 11 54 25 | 0°Y34'20  | 6°35   | 7°2    | 15°58 | 7°4   | 8°58  | 16°31  | 22°3  | 3°30   | 11°34 | 8°31   | 9°25    | 11°34 | 13°16  |   |   |   |   |   |   |   |   |  |
| F 16 | 11 58 21 | 1°33'21   | 18°31  | 7°18   | 16°51 | 7°42  | 9°10  | 16°29  | 22°5  | 3°31   | 11°35 | 8°30   | 9°22    | 11°41 | 13°16  |   |   |   |   |   |   |   |   |  |
| S 17 | 12 2 18  | 2°32'21   | 0°21   | 7°39   | 17°43 | 8°20  | 9°21  | 16°26  | 22°6  | 3°32   | 11°37 | 8°26   | 9°19    | 11°47 | 13°R16 |   |   |   |   |   |   |   |   |  |
| S 18 | 12 6 14  | 3°31'19   | 12°11  | 8°5    | 18°34 | 8°58  | 9°32  | 16°24  | 22°8  | 3°34   | 11°38 | 8°20   | 9°16    | 11°54 | 13°16  |   |   |   |   |   |   |   |   |  |
| M19  | 12 10 11 | 4°30'15   | 24°4   | 8°35   | 19°25 | 9°36  | 9°43  | 16°21  | 22°10 | 3°35   | 11°40 | 8°11   | 9°13    | 12°1  | 13°16  |   |   |   |   |   |   |   |   |  |
| T 20 | 12 14 7  | 5°29'09   | 6°4    | 9°10   | 20°14 | 10°14 | 9°54  | 16°18  | 22°11 | 3°36   | 11°41 | 8°1    | 9°9     | 12°8  | 13°16  |   |   |   |   |   |   |   |   |  |
| W21  | 12 18 4  | 6°28'01   | 18°12  | 9°48   | 21°3  | 10°52 | 10°5  | 16°15  | 22°13 | 3°38   | 11°43 | 7°49   | 9°6     | 12°14 | 13°15  |   |   |   |   |   |   |   |   |  |
| T 22 | 12 22 0  | 7°26'51   | 0°Y31  | 10°30  | 21°52 | 11°30 | 10°15 | 16°12  | 22°14 | 3°39   | 11°44 | 7°38   | 9°3     | 12°21 | 13°15  |   |   |   |   |   |   |   |   |  |
| F 23 | 12 25 57 | 8°25'39   | 13°1   | 11°16  | 22°39 | 12°8  | 10°26 | 16°9   | 22°16 | 3°41   | 11°46 | 7°27   | 9°0     | 12°28 | 13°14  |   |   |   |   |   |   |   |   |  |
| S 24 | 12 29 54 | 9°24'25   | 25°42  | 12°5   | 23°25 | 12°45 | 10°37 | 16°6   | 22°17 | 3°42   | 11°47 | 7°19   | 8°57    | 12°34 | 13°14  |   |   |   |   |   |   |   |   |  |
| S 25 | 12 33 50 | 10°23'09  | 8°34   | 12°58  | 24°11 | 13°23 | 10°47 | 16°3   | 22°18 | 3°43   | 11°48 | 7°13   | 8°53    | 12°41 | 13°13  |   |   |   |   |   |   |   |   |  |
| M26  | 12 37 47 | 11°21'51  | 21°37  | 13°53  | 24°56 | 14°1  | 10°57 | 16°0   | 22°20 | 3°45   | 11°50 | 7°9    | 8°50    | 12°48 | 13°12  |   |   |   |   |   |   |   |   |  |
| T 27 | 12 41 43 | 12°20'31  | 4°II52 | 14°52  | 25°39 | 14°38 | 11°8  | 15°57  | 22°21 | 3°46   | 11°51 | 7°D8   | 8°47    | 12°55 | 13°12  |   |   |   |   |   |   |   |   |  |
| W28  | 12 45 40 | 13°19'09  | 18°20  | 15°53  | 26°22 | 15°16 | 11°18 | 15°53  | 22°22 | 3°48   | 11°52 | 7°9    | 8°44    | 13°1  | 13°11  |   |   |   |   |   |   |   |   |  |
| T 29 | 12 49 36 | 14°17'44  | 2°E1   | 16°57  | 27°3  | 15°53 | 11°28 | 15°50  | 22°23 | 3°50   | 11°54 | 7°9    | 8°41    | 13°8  | 13°10  |   |   |   |   |   |   |   |   |  |
| F 30 | 12 53 33 | 15°16'17  | 15°56  | 18°4   | 27°44 | 16°31 | 11°37 | 15°47  | 22°24 | 3°51   | 11°55 | 7°R10  | 8°38    | 13°15 | 13°8   |   |   |   |   |   |   |   |   |  |
| S 31 | 12 57 29 | 16°Y14'48 | 0°L5   | 19°13  | 28°23 | 17°3  | 11°47 | 15°43  | 22°25 | 3°II53 | 11°57 | 7°II9  | 8°II34  | 13°21 | 13°7   |   |   |   |   |   |   |   |   |  |

Delta T = 20m20s Julian Calendar 1 March 1072 == Greg. Calendar 7 March 1072

APRIL 1072 JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽       | ♀      | ♁      | ♂      | ♃     | ♄      | ♅      | ♆      | ♇     | ♈     | ♉      | ♊     | ♋     | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|-----------|---------|--------|--------|--------|-------|--------|--------|--------|-------|-------|--------|-------|-------|---|---|---|---|---|---|---|---|--|
| S 1  | 13 1 26  | 17°Y13'16 | 14°L27  | 20°K25 | 29°R1  | 17°345 | 11°57 | 15°R39 | 22°26  | 3°II54 | 11°58 | 7°R6  | 8°II31 | 13°28 | 13°R6 |   |   |   |   |   |   |   |   |  |
| M 2  | 13 5 23  | 18°11'43  | 28°58   | 21°39  | 29°38  | 18°23  | 12°6  | 15°L36 | 22°27  | 3°56   | 11°59 | 7°II1 | 8°28   | 13°35 | 13°4  |   |   |   |   |   |   |   |   |  |
| T 3  | 13 9 19  | 19°10'07  | 13°II34 | 22°55  | 0°II14 | 19°0   | 12°16 | 15°32  | 22°28  | 3°58   | 12°0  | 6°55  | 8°25   | 13°42 | 13°3  |   |   |   |   |   |   |   |   |  |
| W 4  | 13 13 16 | 20°8'28   | 28°9    | 24°13  | 0°48   | 19°37  | 12°25 | 15°28  | 22°29  | 4°0    | 12°2  | 6°48  | 8°22   | 13°48 | 13°1  |   |   |   |   |   |   |   |   |  |
| T 5  | 13 17 12 | 21°6'48   | 12°E36  | 25°33  | 1°21   | 20°14  | 12°34 | 15°24  | 22°30  | 4°1    | 12°3  | 6°41  | 8°18   | 13°55 | 13°0  |   |   |   |   |   |   |   |   |  |
| F 6  | 13 21 9  | 22°5'06   | 26°48   | 26°56  | 1°52   | 20°51  | 12°43 | 15°21  | 22°31  | 4°3    | 12°4  | 6°34  | 8°15   | 14°2  | 12°58 |   |   |   |   |   |   |   |   |  |
| S 7  | 13 25 5  | 23°3'22   | 10°L40  | 28°21  | 2°22   | 21°28  | 12°52 | 15°17  | 22°31  | 4°5    | 12°5  | 6°30  | 8°12   | 14°8  | 12°56 |   |   |   |   |   |   |   |   |  |
| S 8  | 13 29 2  | 24°1'37   | 24°10   | 29°47  | 2°50   | 22°4   | 13°1  | 15°13  | 22°32  | 4°7    | 12°7  | 6°27  | 8°9    | 14°15 | 12°54 |   |   |   |   |   |   |   |   |  |
| M 9  | 13 32 58 | 24°59'50  | 7°X16   | 1°Y16  | 3°17   | 22°41  | 13°10 | 15°9   | 22°33  | 4°8    | 12°8  | 6°D27 | 8°6    | 14°22 | 12°52 |   |   |   |   |   |   |   |   |  |
| T 10 | 13 36 55 | 25°58'01  | 20°0    | 2°46   | 3°42   | 23°18  | 13°18 | 15°5   | 22°33  | 4°10   | 12°9  | 6°27  | 8°3    | 14°28 | 12°50 |   |   |   |   |   |   |   |   |  |
| W11  | 13 40 52 | 26°56'11  | 2°Z25   | 4°19   | 4°6    | 23°54  | 13°27 | 15°0   | 22°34  | 4°12   | 12°10 | 6°29  | 7°59   | 14°35 | 12°48 |   |   |   |   |   |   |   |   |  |
| T 12 | 13 44 48 | 27°54'19  | 14°34   | 5°53   | 4°27   | 24°31  | 13°35 | 14°56  | 22°34  | 4°14   | 12°11 | 6°30  | 7°56   | 14°42 | 12°46 |   |   |   |   |   |   |   |   |  |
| F 13 | 13 48 45 | 28°52'26  | 26°33   | 7°29   | 4°47   | 25°7   | 13°43 | 14°52  | 22°35  | 4°16   | 12°13 | 6°R31 | 7°53   | 14°49 | 12°43 |   |   |   |   |   |   |   |   |  |
| S 14 | 13 52 41 | 29°50'31  | 8°25    | 9°7    | 5°5    | 25°43  | 13°51 | 14°48  | 22°35  | 4°18   | 12°14 | 6°31  | 7°50   | 14°55 | 12°41 |   |   |   |   |   |   |   |   |  |
| S 15 | 13 56 38 | 0°B48'34  | 20°18   | 10°47  | 5°21   | 26°20  | 13°59 | 14°44  | 22°35  | 4°20   | 12°15 | 6°29  | 7°47   | 15°2  | 12°39 |   |   |   |   |   |   |   |   |  |
| M16  | 14 0 34  | 1°46'37   | 2°K13   | 12°29  | 5°35   | 26°56  | 14°7  | 14°39  | 22°36  | 4°22   | 12°16 | 6°25  | 7°44   | 15°9  | 12°36 |   |   |   |   |   |   |   |   |  |
| T 17 | 14 4 31  | 2°44'37   | 14°17   | 14°13  | 5°47   | 27°32  | 14°14 | 14°35  | 22°36  | 4°24   | 12°17 | 6°21  | 7°40   | 15°15 | 12°33 |   |   |   |   |   |   |   |   |  |
| W18  | 14 8 27  | 3°42'37   | 26°32   | 15°59  | 5°57   | 28°7   | 14°22 | 14°31  | 22°36  | 4°25   | 12°18 | 6°15  | 7°37   | 15°22 | 12°31 |   |   |   |   |   |   |   |   |  |
| T 19 | 14 12 24 | 4°40'35   | 9°Y0    | 17°47  | 6°4    | 28°43  | 14°29 | 14°26  | 22°36  | 4°27   | 12°19 | 6°10  | 7°34   | 15°29 | 12°28 |   |   |   |   |   |   |   |   |  |
| F 20 | 14 16 21 | 5°38'31   | 21°43   | 19°36  | 6°10   | 29°19  | 14°36 | 14°22  | 22°36  | 4°29   | 12°20 | 6°5   | 7°31   | 15°36 | 12°25 |   |   |   |   |   |   |   |   |  |
| S 21 | 14 20 17 | 6°36'26   | 4°B41   | 21°28  | 6°13   | 29°54  | 14°43 | 14°18  | 22°R36 | 4°31   | 12°21 | 6°1   | 7°28   | 15°42 | 12°22 |   |   |   |   |   |   |   |   |  |
| S 22 | 14 24 14 | 7°34'19   | 17°54   | 23°21  | 6°R14  | 0°30   | 14°50 | 14°13  | 22°36  | 4°34   | 12°22 | 5°58  | 7°24   | 15°49 | 12°19 |   |   |   |   |   |   |   |   |  |
| M23  | 14 28 10 | 8°32'11   | 1°II21  | 25°16  | 6°12   | 1°5    | 14°57 | 14°9   | 22°36  | 4°36   | 12°23 | 5°D57 | 7°21   | 15°56 | 12°16 |   |   |   |   |   |   |   |   |  |
| T 24 | 14 32 7  | 9°30'01   | 15°0    | 27°13  | 6°8    | 1°40   | 15°3  | 14°4   | 22°36  | 4°38   | 12°24 | 5°57  | 7°18   | 16°2  | 12°13 |   |   |   |   |   |   |   |   |  |
| W25  | 14 36 3  | 10°27'50  | 28°49   | 29°12  | 6°2    | 2°15   | 15°9  | 14°0   | 22°36  | 4°40   | 12°25 | 5°59  | 7°15   | 16°9  | 12°10 |   |   |   |   |   |   |   |   |  |
| T 26 | 14 40 0  | 11°25'37  | 12°E47  | 1°L13  | 5°53   | 2°50   | 15°16 | 13°55  | 22°36  | 4°42   | 12°26 | 6°0   | 7°12   | 16°16 | 12°7  |   |   |   |   |   |   |   |   |  |
| F 27 | 14 43 56 | 12°23'22  | 26°53   | 3°16   | 5°42   | 3°25   | 15°22 | 13°51  | 22°35  | 4°44   | 12°27 | 6°1   | 7°9    | 16°23 | 12°3  |   |   |   |   |   |   |   |   |  |
| S 28 | 14 47 53 | 13°21'05  | 11°L3   | 5°20   | 5°28   | 3°59   | 15°28 | 13°46  | 22°35  | 4°46   | 12°28 | 6°R2  | 7°5    |       |       |   |   |   |   |   |   |   |   |  |

SWISS EPHEMERIS for the year 1072

MAY 1072 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂     | ♂     | ♂      | ♂      | ♂      | ♂    | ♂     | ♂     | ♂    | ♂      | ♂      | ♂ |
|------|----------|----------|-------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|--------|--------|---|
| T 1  | 14 59 43 | 16♄14'05 | 23♃45 | 11♂41 | 4°R33 | 5♁42  | 15♁44  | 13°R33 | 22°R34 | 4♂52 | 12♃30 | 5°R58 | 6♂56 | 16♁49  | 11°R50 |   |
| W 2  | 15 3 39  | 17°11'42 | 7♁52  | 13°50 | 4♂10  | 6°16  | 15°50  | 13♂29  | 22♃33  | 4°55 | 12°31 | 5♂56  | 6°53 | 16°56  | 11♁46  |   |
| T 3  | 15 7 36  | 18° 9'17 | 21°51 | 16° 1 | 3°44  | 6°50  | 15°55  | 13°24  | 22°33  | 4°57 | 12°32 | 5°53  | 6°50 | 17° 3  | 11°43  |   |
| F 4  | 15 11 32 | 19° 6'51 | 5♂37  | 18°12 | 3°17  | 7°23  | 16° 0  | 13°20  | 22°32  | 4°59 | 12°32 | 5°51  | 6°46 | 17°10  | 11°39  |   |
| S 5  | 15 15 29 | 20° 4'23 | 19° 7 | 20°24 | 2°48  | 7°57  | 16° 4  | 13°15  | 22°31  | 5° 1 | 12°33 | 5°50  | 6°43 | 17°16  | 11°35  |   |
| S 6  | 15 19 25 | 21° 1'55 | 2♂21  | 22°35 | 2°17  | 8°30  | 16° 9  | 13°11  | 22°31  | 5° 3 | 12°34 | 5°D49 | 6°40 | 17°23  | 11°32  |   |
| M 7  | 15 23 22 | 21°59'25 | 15°16 | 24°47 | 1°45  | 9° 3  | 16°14  | 13° 7  | 22°30  | 5° 5 | 12°35 | 5°49  | 6°37 | 17°30  | 11°28  |   |
| T 8  | 15 27 19 | 22°56'54 | 27°54 | 26°58 | 1°11  | 9°36  | 16°18  | 13° 2  | 22°29  | 5° 8 | 12°35 | 5°50  | 6°34 | 17°36  | 11°24  |   |
| W 9  | 15 31 15 | 23°54'23 | 10♃17 | 29° 9 | 0°35  | 10° 9 | 16°22  | 12°58  | 22°28  | 5°10 | 12°36 | 5°51  | 6°30 | 17°43  | 11°20  |   |
| T 10 | 15 35 12 | 24°51'50 | 22°26 | 1♂18  | 29♂59 | 10°42 | 16°26  | 12°53  | 22°27  | 5°12 | 12°37 | 5°52  | 6°27 | 17°50  | 11°16  |   |
| F 11 | 15 39 8  | 25°49'17 | 4♁26  | 3°27  | 29°23 | 11°14 | 16°29  | 12°49  | 22°26  | 5°14 | 12°37 | 5°53  | 6°24 | 17°57  | 11°12  |   |
| S 12 | 15 43 5  | 26°46'43 | 16°20 | 5°34  | 28°45 | 11°46 | 16°33  | 12°45  | 22°25  | 5°16 | 12°38 | 5°54  | 6°21 | 18° 3  | 11° 9  |   |
| S 13 | 15 47 1  | 27°44'08 | 28°13 | 7°40  | 28° 7 | 12°18 | 16°36  | 12°41  | 22°24  | 5°19 | 12°38 | 5°R54 | 6°18 | 18°10  | 11° 5  |   |
| M14  | 15 50 58 | 28°41'32 | 10♃10 | 9°44  | 27°30 | 12°50 | 16°40  | 12°36  | 22°23  | 5°21 | 12°39 | 5°54  | 6°15 | 18°17  | 11° 1  |   |
| T 15 | 15 54 54 | 29°38'55 | 22°15 | 11°45 | 26°52 | 13°22 | 16°43  | 12°32  | 22°22  | 5°23 | 12°39 | 5°53  | 6°11 | 18°23  | 10°57  |   |
| W16  | 15 58 51 | 0♂36'18  | 4♂32  | 13°45 | 26°15 | 13°53 | 16°45  | 12°28  | 22°21  | 5°25 | 12°40 | 5°53  | 6° 8 | 18°30  | 10°53  |   |
| T 17 | 16 2 48  | 1°33'40  | 17° 5 | 15°43 | 25°39 | 14°24 | 16°48  | 12°24  | 22°20  | 5°28 | 12°40 | 5°52  | 6° 5 | 18°37  | 10°49  |   |
| F 18 | 16 6 44  | 2°31'02  | 29°57 | 17°38 | 25° 3 | 14°55 | 16°50  | 12°20  | 22°19  | 5°30 | 12°41 | 5°52  | 6° 2 | 18°44  | 10°44  |   |
| S 19 | 16 10 41 | 3°28'23  | 13♂ 8 | 19°31 | 24°29 | 15°25 | 16°53  | 12°16  | 22°17  | 5°32 | 12°41 | 5°51  | 5°59 | 18°50  | 10°40  |   |
| S 20 | 16 14 37 | 4°25'43  | 26°39 | 21°21 | 23°56 | 15°55 | 16°55  | 12°12  | 22°16  | 5°34 | 12°42 | 5°51  | 5°56 | 18°57  | 10°36  |   |
| M21  | 16 18 34 | 5°23'03  | 10♂29 | 23°10 | 23°24 | 16°25 | 16°57  | 12° 8  | 22°15  | 5°37 | 12°42 | 5°51  | 5°52 | 19° 4  | 10°32  |   |
| T 22 | 16 22 30 | 6°20'21  | 24°34 | 24°55 | 22°54 | 16°55 | 16°58  | 12° 4  | 22°13  | 5°39 | 12°42 | 5°51  | 5°49 | 19°11  | 10°28  |   |
| W23  | 16 26 27 | 7°17'40  | 8♂51  | 26°38 | 22°26 | 17°25 | 17° 0  | 12° 0  | 22°12  | 5°41 | 12°43 | 5°51  | 5°46 | 19°17  | 10°24  |   |
| T 24 | 16 30 23 | 8°14'57  | 23°14 | 28°19 | 22° 0 | 17°54 | 17° 1  | 11°56  | 22°10  | 5°43 | 12°43 | 5°51  | 5°43 | 19°24  | 10°20  |   |
| F 25 | 16 34 20 | 9°12'13  | 7♂40  | 29°57 | 21°36 | 18°23 | 17° 2  | 11°53  | 22° 9  | 5°46 | 12°43 | 5°51  | 5°40 | 19°31  | 10°16  |   |
| S 26 | 16 38 17 | 10° 9'29 | 22° 3 | 1♂32  | 21°14 | 18°51 | 17° 3  | 11°49  | 22° 7  | 5°48 | 12°44 | 5°50  | 5°36 | 19°37  | 10°11  |   |
| S 27 | 16 42 13 | 11° 6'43 | 6♂21  | 3° 5  | 20°54 | 19°19 | 17° 4  | 11°45  | 22° 6  | 5°50 | 12°44 | 5°D50 | 5°33 | 19°44  | 10° 7  |   |
| M28  | 16 46 10 | 12° 3'57 | 20°29 | 4°35  | 20°37 | 19°47 | 17° 5  | 11°42  | 22° 4  | 5°52 | 12°44 | 5°50  | 5°30 | 19°51  | 10° 3  |   |
| T 29 | 16 50 6  | 13° 1'10 | 4♂27  | 6° 3  | 20°22 | 20°15 | 17° 5  | 11°38  | 22° 2  | 5°54 | 12°44 | 5°51  | 5°27 | 19°58  | 9°59   |   |
| W30  | 16 54 3  | 13°58'22 | 18°13 | 7°28  | 20° 9 | 20°42 | 17°R 5 | 11°35  | 22° 1  | 5°57 | 12°45 | 5°51  | 5°24 | 20° 4  | 9°55   |   |
| T 31 | 16 57 59 | 14♂55'33 | 1♂46  | 8♂50  | 19♂59 | 21° 9 | 17° 5  | 11♂32  | 21♂59  | 5♂59 | 12♃45 | 5♂52  | 5♂21 | 20° 11 | 9♂51   |   |

Delta T = 20m19s Julian Calendar 1 May 1072 == Greg. Calendar 7 May 1072

JUNE 1072 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♂      | ♂      | ♂      | ♂      | ♂      | ♂    | ♂      | ♂     | ♂    | ♂      | ♂     | ♂ |
|------|----------|----------|-------|--------|--------|--------|--------|--------|--------|------|--------|-------|------|--------|-------|---|
| F 1  | 17 1 56  | 15♂52'44 | 15♂ 5 | 10♂ 9  | 19°R51 | 21° 36 | 17°R 5 | 11°R28 | 21°R57 | 6♂ 1 | 12♃45  | 5♂53  | 5♂17 | 20° 18 | 9°R47 |   |
| S 2  | 17 5 52  | 16°49'54 | 28°11 | 11°26  | 19♂45  | 22° 2  | 17° 5  | 11♂25  | 21♂55  | 6° 3 | 12°45  | 5°53  | 5°14 | 20°24  | 9♂43  |   |
| S 3  | 17 9 49  | 17°47'04 | 11♂ 4 | 12°40  | 19°42  | 22°28  | 17° 4  | 11°22  | 21°54  | 6° 6 | 12°45  | 5°R53 | 5°11 | 20°31  | 9°39  |   |
| M 4  | 17 13 46 | 18°44'13 | 23°43 | 13°51  | 19°D41 | 22°53  | 17° 3  | 11°19  | 21°52  | 6° 8 | 12°45  | 5°53  | 5° 8 | 20°38  | 9°35  |   |
| T 5  | 17 17 42 | 19°41'23 | 6♃10  | 14°59  | 19°43  | 23°18  | 17° 2  | 11°16  | 21°50  | 6°10 | 12°45  | 5°52  | 5° 5 | 20°45  | 9°31  |   |
| W 6  | 17 21 39 | 20°38'32 | 18°25 | 16° 4  | 19°46  | 23°43  | 17° 1  | 11°13  | 21°48  | 6°12 | 12°45  | 5°50  | 5° 2 | 20°51  | 9°27  |   |
| T 7  | 17 25 35 | 21°35'41 | 0♁31  | 17° 6  | 19°52  | 24° 7  | 17° 0  | 11°10  | 21°46  | 6°14 | 12°R45 | 5°47  | 4°58 | 20°58  | 9°23  |   |
| F 8  | 17 29 32 | 22°32'50 | 12°29 | 18° 5  | 20° 1  | 24°31  | 16°58  | 11° 7  | 21°44  | 6°16 | 12°45  | 5°45  | 4°55 | 21° 5  | 9°19  |   |
| S 9  | 17 33 28 | 23°29'59 | 24°22 | 19° 0  | 20°11  | 24°55  | 16°56  | 11° 5  | 21°42  | 6°19 | 12°45  | 5°43  | 4°52 | 21°11  | 9°15  |   |
| S 10 | 17 37 25 | 24°27'08 | 6♃15  | 19°52  | 20°23  | 25°18  | 16°54  | 11° 2  | 21°40  | 6°21 | 12°45  | 5°41  | 4°49 | 21°18  | 9°11  |   |
| M11  | 17 41 21 | 25°24'17 | 18°11 | 20°41  | 20°38  | 25°40  | 16°52  | 10°59  | 21°38  | 6°23 | 12°45  | 5°40  | 4°46 | 21°25  | 9° 7  |   |
| T 12 | 17 45 18 | 26°21'27 | 0♂15  | 21°26  | 20°54  | 26° 2  | 16°50  | 10°57  | 21°36  | 6°25 | 12°45  | 5°D40 | 4°42 | 21°32  | 9° 3  |   |
| W13  | 17 49 15 | 27°18'36 | 12°31 | 22° 7  | 21°12  | 26°24  | 16°47  | 10°54  | 21°34  | 6°27 | 12°45  | 5°41  | 4°39 | 21°38  | 8°59  |   |
| T 14 | 17 53 11 | 28°15'46 | 25° 4 | 22°45  | 21°33  | 26°45  | 16°45  | 10°52  | 21°32  | 6°29 | 12°45  | 5°42  | 4°36 | 21°45  | 8°56  |   |
| F 15 | 17 57 8  | 29°12'56 | 7♂57  | 23°18  | 21°54  | 27° 5  | 16°42  | 10°50  | 21°29  | 6°31 | 12°44  | 5°43  | 4°33 | 21°52  | 8°52  |   |
| S 16 | 18 1 4   | 0♂10'07  | 21°13 | 23°47  | 22°18  | 27°25  | 16°39  | 10°48  | 21°27  | 6°34 | 12°44  | 5°45  | 4°30 | 21°59  | 8°48  |   |
| S 17 | 18 5 1   | 1° 7'18  | 4♂55  | 24°13  | 22°43  | 27°45  | 16°36  | 10°46  | 21°25  | 6°36 | 12°44  | 5°R45 | 4°27 | 22° 5  | 8°45  |   |
| M18  | 18 8 57  | 2° 4'29  | 19° 0 | 24°33  | 23°10  | 28° 4  | 16°32  | 10°44  | 21°23  | 6°38 | 12°44  | 5°45  | 4°23 | 22°12  | 8°41  |   |
| T 19 | 18 12 54 | 3° 1'41  | 3♂26  | 24°50  | 23°38  | 28°22  | 16°29  | 10°42  | 21°21  | 6°40 | 12°43  | 5°43  | 4°20 | 22°19  | 8°37  |   |
| W20  | 18 16 50 | 3°58'53  | 18° 8 | 25° 1  | 24° 8  | 28°40  | 16°25  | 10°40  | 21°18  | 6°42 | 12°43  | 5°40  | 4°17 | 22°25  | 8°34  |   |
| T 21 | 18 20 47 | 4°56'05  | 2♂58  | 25° 8  | 24°40  | 28°57  | 16°21  | 10°38  | 21°16  | 6°44 | 12°43  | 5°36  | 4°14 | 22°32  | 8°30  |   |
| F 22 | 18 24 44 | 5°53'17  | 17°48 | 25°R10 | 25°12  | 29°14  | 16°17  | 10°37  | 21°14  | 6°46 | 12°43  | 5°32  | 4°11 | 22°39  | 8°27  |   |
| S 23 | 18 28 40 | 6°50'29  | 2♂32  | 25° 8  | 25°46  | 29°30  | 16°12  | 10°35  | 21°12  | 6°48 | 12°42  | 5°28  | 4° 8 | 22°46  | 8°24  |   |
| S 24 | 18 32 37 | 7°47'41  | 17° 2 | 25° 1  | 26°21  | 29°45  | 16° 8  | 10°34  | 21° 9  | 6°50 | 12°42  | 5°25  | 4° 4 | 22°52  | 8°20  |   |
| M25  | 18 36 33 | 8°44'53  | 1♂14  | 24°49  | 26°58  | 0♂ 0   | 16° 3  | 10°32  | 21° 7  | 6°52 | 12°41  | 5°24  | 4° 1 | 22°59  | 8°17  |   |
| T 26 | 18 40 30 | 9°42'05  | 15° 8 | 24°32  | 27°35  | 0°14   | 15°59  | 10°31  | 21° 5  | 6°54 | 12°41  | 5°D24 | 3°58 | 23° 6  | 8°14  |   |
| W27  | 18 44 26 | 10°39'17 | 28°42 | 24°11  | 28°14  | 0°28   | 15°54  | 10°30  | 21° 2  | 6°56 | 12°41  | 5°25  | 3°55 | 23°12  | 8°11  |   |
| T 28 | 18 48 23 | 11°36'30 | 11♂57 | 23°45  | 28°54  | 0°41   | 15°49  | 10°29  | 21° 0  | 6°58 | 12°40  | 5°26  | 3°52 | 23°19  | 8° 8  |   |
| F 29 | 18 52 20 | 12°33'43 | 24°57 | 23°16  | 29°34  | 0°53   | 15°43  | 10°28  | 20°58  | 7° 0 | 12°40  | 5°28  | 3°48 | 23°26  | 8° 5  |   |
| S 30 | 18 56 16 | 13♂30'56 | 7♂42  | 22♂43  | 0♂16   | 1♂ 4   | 15° 38 | 10♂27  | 20♂55  | 7♂ 1 | 12♃39  | 5°R28 | 3♂45 | 23° 33 | 8♂ 2  |   |

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SWISS EPHEMERIS for the year 1072

JULY 1072 JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                   | ♀                   | ♁                   | ♂                  | ♃                   | ♄                   | ♅                   | ♆                  | ♇                   | ♈                  | ♉                 | ♊                   | ♋                  | ♌ | ♍ |
|------|----------|------------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|-------------------|---------------------|--------------------|---|---|
| S 1  | 19 0 13  | 14 <sup>52</sup> 28'10 | 20 <sup>27</sup> 16 | 22°R 6              | 0II59               | 1K15               | 15°R32              | 10°R26              | 20°R53              | 7II 3              | 12°R39              | 5°R27              | 3II42             | 23 <sup>33</sup> 39 | 7°R59              |   |   |
| M 2  | 19 4 9   | 15°25'24               | 2 <sup>33</sup> 38  | 21 <sup>52</sup> 28 | 1°43                | 1°25               | 15 <sup>22</sup> 27 | 10 <sup>10</sup> 26 | 20 <sup>35</sup> 50 | 7° 5               | 12 <sup>38</sup> 38 | 5 <sup>11</sup> 24 | 3°39              | 23°46               | 7 <sup>27</sup> 56 |   |   |
| T 3  | 19 8 6   | 16°22'39               | 14°52               | 20°47               | 2°27                | 1°35               | 15°21               | 10°25               | 20°48               | 7° 7               | 12°37               | 5°19               | 3°36              | 23°53               | 7°54               |   |   |
| W 4  | 19 12 2  | 17°19'54               | 26°58               | 20° 5               | 3°13                | 1°43               | 15°15               | 10°24               | 20°46               | 7° 9               | 12°37               | 5°13               | 3°33              | 24° 0               | 7°51               |   |   |
| T 5  | 19 15 59 | 18°17'10               | 8 <sup>22</sup> 58  | 19°22               | 3°59                | 1°51               | 15° 9               | 10°24               | 20°43               | 7°11               | 12°36               | 5° 5               | 3°29              | 24° 6               | 7°49               |   |   |
| F 6  | 19 19 55 | 19°14'27               | 20°53               | 18°39               | 4°46                | 1°58               | 15° 3               | 10°24               | 20°41               | 7°12               | 12°36               | 4°57               | 3°26              | 24°13               | 7°46               |   |   |
| S 7  | 19 23 52 | 20°11'45               | 2 <sup>38</sup> 45  | 17°57               | 5°34                | 2° 5               | 14°56               | 10°24               | 20°38               | 7°14               | 12°35               | 4°49               | 3°23              | 24°20               | 7°44               |   |   |
| S 8  | 19 27 49 | 21° 9'04               | 14°38               | 17°17               | 6°23                | 2°10               | 14°50               | 10°23               | 20°36               | 7°16               | 12°34               | 4°43               | 3°20              | 24°26               | 7°41               |   |   |
| M 9  | 19 31 45 | 22° 6'23               | 26°33               | 16°39               | 7°13                | 2°15               | 14°43               | 10°D23              | 20°34               | 7°18               | 12°34               | 4°38               | 3°17              | 24°33               | 7°39               |   |   |
| T 10 | 19 35 42 | 23° 3'44               | 8 <sup>39</sup> 35  | 16° 5               | 8° 3                | 2°19               | 14°36               | 10°23               | 20°31               | 7°19               | 12°33               | 4°34               | 3°14              | 24°40               | 7°37               |   |   |
| W11  | 19 39 38 | 24° 1'06               | 20°48               | 15°34               | 8°53                | 2°23               | 14°30               | 10°24               | 20°29               | 7°21               | 12°32               | 4°D33              | 3°10              | 24°47               | 7°35               |   |   |
| T 12 | 19 43 35 | 24°58'29               | 3 <sup>18</sup> 17  | 15° 7               | 9°45                | 2°25               | 14°23               | 10°24               | 20°26               | 7°23               | 12°31               | 4°33               | 3° 7              | 24°53               | 7°33               |   |   |
| F 13 | 19 47 31 | 25°55'53               | 16° 7               | 14°46               | 10°37               | 2°27               | 14°16               | 10°24               | 20°24               | 7°24               | 12°31               | 4°34               | 3° 4              | 25° 0               | 7°31               |   |   |
| S 14 | 19 51 28 | 26°53'19               | 29°21               | 14°30               | 11°30               | 2°R27              | 14° 9               | 10°25               | 20°22               | 7°26               | 12°30               | 4°R35              | 3° 1              | 25° 7               | 7°29               |   |   |
| S 15 | 19 55 24 | 27°50'46               | 13 <sup>11</sup> 2  | 14°20               | 12°23               | 2°27               | 14° 1               | 10°25               | 20°19               | 7°27               | 12°29               | 4°35               | 2°58              | 25°13               | 7°27               |   |   |
| M16  | 19 59 21 | 28°48'14               | 27°12               | 14°D16              | 13°17               | 2°27               | 13°54               | 10°26               | 20°17               | 7°29               | 12°28               | 4°33               | 2°54              | 25°20               | 7°25               |   |   |
| T 17 | 20 3 18  | 29°45'44               | 11 <sup>52</sup> 48 | 14°18               | 14°11               | 2°25               | 13°47               | 10°27               | 20°15               | 7°31               | 12°28               | 4°29               | 2°51              | 25°27               | 7°24               |   |   |
| W18  | 20 7 14  | 0 <sup>43</sup> 14     | 26°44               | 14°27               | 15° 6               | 2°22               | 13°39               | 10°28               | 20°12               | 7°32               | 12°27               | 4°22               | 2°48              | 25°34               | 7°22               |   |   |
| T 19 | 20 11 11 | 1°40'46                | 11 <sup>10</sup> 54 | 14°43               | 16° 2               | 2°19               | 13°32               | 10°29               | 20°10               | 7°34               | 12°26               | 4°14               | 2°45              | 25°40               | 7°21               |   |   |
| F 20 | 20 15 7  | 2°38'19                | 27° 5               | 15° 6               | 16°58               | 2°15               | 13°24               | 10°30               | 20° 8               | 7°35               | 12°25               | 4° 6               | 2°42              | 25°47               | 7°19               |   |   |
| S 21 | 20 19 4  | 3°35'53                | 12 <sup>17</sup> 9  | 15°35               | 17°54               | 2°10               | 13°17               | 10°31               | 20° 5               | 7°36               | 12°24               | 3°58               | 2°39              | 25°54               | 7°18               |   |   |
| S 22 | 20 23 0  | 4°33'27                | 26°55               | 16°11               | 18°51               | 2° 4               | 13° 9               | 10°32               | 20° 3               | 7°38               | 12°23               | 3°51               | 2°35              | 26° 1               | 7°17               |   |   |
| M23  | 20 26 57 | 5°31'03                | 11 <sup>12</sup> 19 | 16°54               | 19°48               | 1°58               | 13° 1               | 10°33               | 20° 1               | 7°39               | 12°22               | 3°46               | 2°32              | 26° 7               | 7°16               |   |   |
| T 24 | 20 30 53 | 6°28'40                | 25°17               | 17°44               | 20°46               | 1°51               | 12°54               | 10°35               | 19°58               | 7°41               | 12°21               | 3°44               | 2°29              | 26°14               | 7°15               |   |   |
| W25  | 20 34 50 | 7°26'17                | 8 <sup>11</sup> 49  | 18°40               | 21°44               | 1°43               | 12°46               | 10°36               | 19°56               | 7°42               | 12°20               | 3°D44              | 2°26              | 26°21               | 7°14               |   |   |
| T 26 | 20 38 47 | 8°23'56                | 21°58               | 19°43               | 22°43               | 1°34               | 12°38               | 10°38               | 19°54               | 7°43               | 12°19               | 3°44               | 2°23              | 26°27               | 7°13               |   |   |
| F 27 | 20 42 43 | 9°21'36                | 4 <sup>27</sup> 47  | 20°52               | 23°42               | 1°25               | 12°30               | 10°40               | 19°52               | 7°44               | 12°18               | 3°R44              | 2°20              | 26°34               | 7°12               |   |   |
| S 28 | 20 46 40 | 10°19'17               | 17°20               | 22° 6               | 24°41               | 1°15               | 12°22               | 10°41               | 19°49               | 7°46               | 12°17               | 3°44               | 2°16              | 26°41               | 7°11               |   |   |
| S 29 | 20 50 36 | 11°16'59               | 29°40               | 23°26               | 25°41               | 1° 4               | 12°14               | 10°43               | 19°47               | 7°47               | 12°16               | 3°41               | 2°13              | 26°48               | 7°11               |   |   |
| M30  | 20 54 33 | 12°14'42               | 11 <sup>35</sup> 50 | 24°52               | 26°41               | 0°53               | 12° 7               | 10°45               | 19°45               | 7°48               | 12°15               | 3°35               | 2°10              | 26°54               | 7°10               |   |   |
| T 31 | 20 58 29 | 13 <sup>12</sup> 27    | 23 <sup>35</sup> 53 | 26 <sup>52</sup> 22 | 27 <sup>11</sup> 41 | 0 <sup>41</sup> 41 | 11 <sup>59</sup> 59 | 10 <sup>14</sup> 47 | 19 <sup>34</sup> 43 | 7 <sup>11</sup> 49 | 12 <sup>14</sup> 14 | 3 <sup>11</sup> 27 | 2 <sup>11</sup> 7 | 27 <sup>33</sup> 1  | 7 <sup>27</sup> 10 |   |   |

Delta T = 20m18s Julian Calendar 1 July 1072 == Greg. Calendar 7 July 1072

AUGUST 1072 JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                   | ♀                   | ♁                   | ♂                   | ♃                   | ♄                   | ♅                   | ♆                  | ♇                   | ♈                   | ♉                  | ♊                  | ♋                  | ♌ | ♍ |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---|---|
| W 1  | 21 2 26  | 14 <sup>10</sup> 10'13 | 5 <sup>22</sup> 51  | 27 <sup>57</sup> 57 | 28 <sup>11</sup> 42 | 0°R29               | 11°R51              | 10 <sup>10</sup> 50 | 19°R41              | 7 <sup>11</sup> 50 | 12°R13              | 3°R16               | 2II 4              | 27 <sup>33</sup> 8 | 7°R10              |   |   |
| T 2  | 21 6 22  | 15° 8'00               | 17°46               | 29°36               | 29°43               | 0 <sup>16</sup> 16  | 11 <sup>33</sup> 43 | 10°52               | 19 <sup>39</sup> 39 | 7°52               | 12 <sup>12</sup> 12 | 3 <sup>11</sup> 4   | 2° 0               | 27°14              | 7 <sup>27</sup> 9  |   |   |
| F 3  | 21 10 19 | 16° 5'49               | 29°39               | 1 <sup>19</sup> 19  | 0 <sup>45</sup> 45  | 0° 2                | 11°35               | 10°54               | 19°37               | 7°53               | 12°11               | 2°51                | 1°57               | 27°21              | 7° 9               |   |   |
| S 4  | 21 14 16 | 17° 3'39               | 11 <sup>31</sup> 31 | 3° 6                | 1°47                | 29 <sup>33</sup> 48 | 11°27               | 10°57               | 19°35               | 7°54               | 12°10               | 2°38                | 1°54               | 27°28              | 7°D 9              |   |   |
| S 5  | 21 18 12 | 18° 1'31               | 23°25               | 4°55                | 2°49                | 29°34               | 11°20               | 10°59               | 19°33               | 7°55               | 12° 9               | 2°26                | 1°51               | 27°35              | 7° 9               |   |   |
| M 6  | 21 22 9  | 18°59'25               | 5 <sup>12</sup> 22  | 6°46                | 3°51                | 29°19               | 11°12               | 11° 2               | 19°31               | 7°56               | 12° 8               | 2°17                | 1°48               | 27°41              | 7° 9               |   |   |
| T 7  | 21 26 5  | 19°57'20               | 17°25               | 8°40                | 4°54                | 29° 4               | 11° 4               | 11° 5               | 19°29               | 7°57               | 12° 7               | 2°11                | 1°45               | 27°48              | 7°10               |   |   |
| W 8  | 21 30 2  | 20°55'17               | 29°38               | 10°35               | 5°57                | 28°49               | 10°57               | 11° 7               | 19°27               | 7°58               | 12° 6               | 2° 7                | 1°41               | 27°55              | 7°10               |   |   |
| T 9  | 21 33 58 | 21°53'17               | 12 <sup>3</sup> 5   | 12°31               | 7° 0                | 28°33               | 10°49               | 11°10               | 19°25               | 7°58               | 12° 5               | 2° 5                | 1°38               | 28° 2              | 7°10               |   |   |
| F 10 | 21 37 55 | 22°51'18               | 24°50               | 14°28               | 8° 4                | 28°17               | 10°41               | 11°13               | 19°23               | 7°59               | 12° 4               | 2° 5                | 1°35               | 28° 8              | 7°11               |   |   |
| S 11 | 21 41 51 | 23°49'21               | 7 <sup>11</sup> 58  | 16°25               | 9° 8                | 28° 1               | 10°34               | 11°16               | 19°21               | 8° 0               | 12° 2               | 2° 5                | 1°32               | 28°15              | 7°12               |   |   |
| S 12 | 21 45 48 | 24°47'27               | 21°33               | 18°23               | 10°12               | 27°45               | 10°27               | 11°20               | 19°19               | 8° 1               | 12° 1               | 2° 4                | 1°29               | 28°22              | 7°12               |   |   |
| M13  | 21 49 45 | 25°45'34               | 5 <sup>23</sup> 36  | 20°21               | 11°16               | 27°28               | 10°19               | 11°23               | 19°17               | 8° 2               | 12° 0               | 2° 1                | 1°25               | 28°28              | 7°13               |   |   |
| T 14 | 21 53 41 | 26°43'43               | 20° 8               | 22°18               | 12°21               | 27°12               | 10°12               | 11°26               | 19°16               | 8° 2               | 11°59               | 1°55                | 1°22               | 28°35              | 7°14               |   |   |
| W15  | 21 57 38 | 27°41'54               | 5 <sup>10</sup> 4   | 24°15               | 13°26               | 26°56               | 10° 5               | 11°30               | 19°14               | 8° 3               | 11°58               | 1°47                | 1°19               | 28°42              | 7°15               |   |   |
| T 16 | 22 1 34  | 28°40'07               | 20°18               | 26°12               | 14°31               | 26°39               | 9°58                | 11°33               | 19°12               | 8° 4               | 11°57               | 1°37                | 1°16               | 28°49              | 7°16               |   |   |
| F 17 | 22 5 31  | 29°38'22               | 5 <sup>17</sup> 38  | 28° 7               | 15°36               | 26°23               | 9°51                | 11°37               | 19°11               | 8° 4               | 11°55               | 1°26                | 1°13               | 28°55              | 7°17               |   |   |
| S 18 | 22 9 27  | 0 <sup>17</sup> 36'39  | 20°53               | 0 <sup>17</sup> 2   | 16°42               | 26° 7               | 9°44                | 11°40               | 19° 9               | 8° 5               | 11°54               | 1°15                | 1°10               | 29° 2              | 7°18               |   |   |
| S 19 | 22 13 24 | 1°34'57                | 5 <sup>15</sup> 53  | 1°56                | 17°48               | 25°51               | 9°37                | 11°44               | 19° 7               | 8° 6               | 11°53               | 1° 6                | 1° 6               | 29° 9              | 7°20               |   |   |
| M20  | 22 17 20 | 2°33'17                | 20°28               | 3°49                | 18°54               | 25°36               | 9°30                | 11°48               | 19° 6               | 8° 6               | 11°52               | 1° 0                | 1° 3               | 29°16              | 7°21               |   |   |
| T 21 | 22 21 17 | 3°31'39                | 4 <sup>11</sup> 36  | 5°41                | 20° 0               | 25°21               | 9°24                | 11°52               | 19° 4               | 8° 7               | 11°51               | 0°56                | 1° 0               | 29°22              | 7°23               |   |   |
| W22  | 22 25 14 | 4°30'02                | 18°14               | 7°33                | 21° 6               | 25° 6               | 9°17                | 11°56               | 19° 3               | 8° 7               | 11°49               | 0°54                | 0°57               | 29°29              | 7°24               |   |   |
| T 23 | 22 29 10 | 5°28'27                | 1 <sup>27</sup> 25  | 9°22                | 22°13               | 24°51               | 9°11                | 12° 0               | 19° 2               | 8° 8               | 11°48               | 0°54                | 0°54               | 29°36              | 7°26               |   |   |
| F 24 | 22 33 7  | 6°26'53                | 14°12               | 11°11               | 23°20               | 24°37               | 9° 5                | 12° 4               | 19° 0               | 8° 8               | 11°47               | 0°54                | 0°51               | 29°42              | 7°28               |   |   |
| S 25 | 22 37 3  | 7°25'21                | 26°40               | 12°59               | 24°27               | 24°24               | 8°59                | 12° 8               | 18°59               | 8° 8               | 11°46               | 0°53                | 0°47               | 29°49              | 7°30               |   |   |
| S 26 | 22 41 0  | 8°23'51                | 8 <sup>35</sup> 54  | 14°46               | 25°34               | 24°11               | 8°53                | 12°12               | 18°58               | 8° 9               | 11°45               | 0°49                | 0°44               | 29°56              | 7°32               |   |   |
| M27  | 22 44 56 | 9°22'23                | 20°57               | 16°31               | 26°41               | 23°58               | 8°47                | 12°17               | 18°56               | 8° 9               | 11°43               | 0°44                | 0°41               | 0 <sup>16</sup> 3  | 7°34               |   |   |
| T 28 | 22 48 53 | 10°20'56               | 2 <sup>22</sup> 54  | 18°16               | 27°49               | 23°46               | 8°41                | 12°21               | 18°55               | 8° 9               | 11°42               | 0°35                | 0°38               | 0° 9               | 7°36               |   |   |
| W29  | 22 52 49 | 11°19'31               | 14°48               | 20° 0               | 28°56               | 23°35               | 8°36                | 12°26               | 18°54               | 8°10               | 11°41               | 0°24                | 0°35               | 0°16               | 7°38               |   |   |
| T 30 | 22 56 46 | 12°18'08               | 26°40               | 21°42               | 0 <sup>10</sup> 4   | 23°24               | 8°31                | 12°30               | 18°53               | 8°10               | 11°40               | 0°11                | 0°31               | 0°23               | 7°40               |   |   |
| F 31 | 23 0 43  | 13 <sup>16</sup> 47    | 8 <sup>33</sup> 33  | 23 <sup>17</sup> 23 | 1 <sup>12</sup> 12  | 23 <sup>14</sup> 14 | 8 <sup>26</sup> 26  | 12 <sup>13</sup> 35 | 18 <sup>52</sup> 52 | 8 <sup>10</sup> 10 | 11 <sup>39</sup> 39 | 29 <sup>57</sup> 57 | 0 <sup>11</sup> 28 | 0 <sup>16</sup> 29 | 7 <sup>27</sup> 43 |   |   |

Delta T = 20m18s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 1072

SEPTEMBER 1072 JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                   | ♀                 | ♁                 | ♂                   | ♃                  | ♄                   | ♅                   | ♆                   | ♇                   | ♈                   | ♉                   | ♊                 | ♋                 | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|------------------------|---------------------|-------------------|-------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------------|---|---|---|---|---|---|---|---|
| S 1  | 23 4 39  | 14 <sup>h</sup> 15'28" | 20 <sup>h</sup> 28' | 25 <sup>h</sup> 4 | 2 <sup>h</sup> 21 | 23 <sup>h</sup> R 4 | 8 <sup>h</sup> R21 | 12 <sup>h</sup> M40 | 18 <sup>h</sup> R51 | 8 <sup>h</sup> II10 | 11 <sup>h</sup> R37 | 29 <sup>h</sup> R43 | 0 <sup>h</sup> II25 | 0 <sup>h</sup> 36 | 7 <sup>h</sup> 45 |   |   |   |   |   |   |   |   |
| S 2  | 23 8 36  | 15°14'10"              | 2 <sup>h</sup> 27'  | 26°43'            | 3°29'             | 22 <sup>h</sup> 56  | 8 <sup>h</sup> 16  | 12°44'              | 18 <sup>h</sup> 50  | 8°10'               | 11 <sup>h</sup> 36  | 29 <sup>h</sup> 31  | 0°22'               | 0°43'             | 7°48'             |   |   |   |   |   |   |   |   |
| M 3  | 23 12 32 | 16°12'55"              | 14°30'              | 28°22'            | 4°38'             | 22°48'              | 8°11'              | 12°49'              | 18°49'              | 8°10'               | 11°35'              | 29°22'              | 0°19'               | 0°50'             | 7°51'             |   |   |   |   |   |   |   |   |
| T 4  | 23 16 29 | 17°11'42"              | 26°40'              | 29°59'            | 5°46'             | 22°40'              | 8°6'               | 12°54'              | 18°48'              | 8°10'               | 11°34'              | 29°14'              | 0°16'               | 0°56'             | 7°53'             |   |   |   |   |   |   |   |   |
| W 5  | 23 20 25 | 18°10'31"              | 8 <sup>h</sup> 59'  | 1 <sup>h</sup> 36 | 6°55'             | 22°34'              | 8°2'               | 12°59'              | 18°47'              | 8 <sup>h</sup> R10  | 11°32'              | 29°10'              | 0°12'               | 1°3'              | 7°56'             |   |   |   |   |   |   |   |   |
| T 6  | 23 24 22 | 19°9'23"               | 21°30'              | 3°12'             | 8°4'              | 22°28'              | 7°58'              | 13°4'               | 18°46'              | 8°10'               | 11°31'              | 29°9'               | 0°9'                | 1°10'             | 7°59'             |   |   |   |   |   |   |   |   |
| F 7  | 23 28 18 | 20°8'17"               | 4 <sup>h</sup> II17 | 4°46'             | 9°14'             | 22°23'              | 7°54'              | 13°9'               | 18°45'              | 8°10'               | 11°30'              | 29°D 8              | 0°6'                | 1°17'             | 8°2'              |   |   |   |   |   |   |   |   |
| S 8  | 23 32 15 | 21°7'13"               | 17°22'              | 6°20'             | 10°23'            | 22°19'              | 7°50'              | 13°15'              | 18°45'              | 8°10'               | 11°29'              | 29°R 9              | 0°3'                | 1°23'             | 8°5'              |   |   |   |   |   |   |   |   |
| S 9  | 23 36 12 | 22°6'12"               | 0 <sup>h</sup> 50   | 7°53'             | 11°33'            | 22°15'              | 7°46'              | 13°20'              | 18°44'              | 8°10'               | 11°28'              | 29°9'               | 0°0'                | 1°30'             | 8°8'              |   |   |   |   |   |   |   |   |
| M10  | 23 40 8  | 23°5'13"               | 14°43'              | 9°25'             | 12°42'            | 22°12'              | 7°43'              | 13°25'              | 18°43'              | 8°10'               | 11°26'              | 29°7'               | 29 <sup>h</sup> 57  | 1°37'             | 8°12'             |   |   |   |   |   |   |   |   |
| T 11 | 23 44 5  | 24°4'16"               | 29°2                | 10°56'            | 13°52'            | 22°10'              | 7°40'              | 13°30'              | 18°43'              | 8°10'               | 11°25'              | 29°2                | 29°53               | 1°43'             | 8°15'             |   |   |   |   |   |   |   |   |
| W12  | 23 48 1  | 25°3'22"               | 13 <sup>h</sup> Ω45 | 12°27'            | 15°2'             | 22°9'               | 7°37'              | 13°36'              | 18°42'              | 8°10'               | 11°24'              | 28°56'              | 29°50'              | 1°50'             | 8°18'             |   |   |   |   |   |   |   |   |
| T 13 | 23 51 58 | 26°2'30"               | 28°46'              | 13°56'            | 16°12'            | 22°D 9              | 7°34'              | 13°41'              | 18°42'              | 8°9'                | 11°23'              | 28°47'              | 29°47'              | 1°57'             | 8°22'             |   |   |   |   |   |   |   |   |
| F 14 | 23 55 54 | 27°1'40"               | 13 <sup>h</sup> 57  | 15°25'            | 17°23'            | 22°9'               | 7°31'              | 13°47'              | 18°41'              | 8°9'                | 11°22'              | 28°38'              | 29°44'              | 2°4'              | 8°25'             |   |   |   |   |   |   |   |   |
| S 15 | 23 59 51 | 28°0'52"               | 29°8'               | 16°52'            | 18°33'            | 22°11'              | 7°29'              | 13°53'              | 18°41'              | 8°9'                | 11°21'              | 28°29'              | 29°41'              | 2°10'             | 8°29'             |   |   |   |   |   |   |   |   |
| S 16 | 0 3 47   | 29°0'07"               | 14 <sup>h</sup> Ω 8 | 18°19'            | 19°43'            | 22°13'              | 7°26'              | 13°58'              | 18°41'              | 8°8'                | 11°19'              | 28°21'              | 29°37'              | 2°17'             | 8°33'             |   |   |   |   |   |   |   |   |
| M17  | 0 7 44   | 29°59'23"              | 28°47'              | 19°45'            | 20°54'            | 22°15'              | 7°24'              | 14°4'               | 18°40'              | 8°8'                | 11°18'              | 28°15'              | 29°34'              | 2°24'             | 8°36'             |   |   |   |   |   |   |   |   |
| T 18 | 0 11 40  | 0 <sup>h</sup> 58'41"  | 13 <sup>h</sup> 11  | 21°10'            | 22°5'             | 22°19'              | 7°22'              | 14°10'              | 18°40'              | 8°8'                | 11°17'              | 28°12'              | 29°31'              | 2°31'             | 8°40'             |   |   |   |   |   |   |   |   |
| W19  | 0 15 37  | 1°58'02"               | 26°47'              | 22°34'            | 23°16'            | 22°23'              | 7°20'              | 14°15'              | 18°40'              | 8°7'                | 11°16'              | 28°D11              | 29°28'              | 2°37'             | 8°44'             |   |   |   |   |   |   |   |   |
| T 20 | 0 19 34  | 2°57'24"               | 10 <sup>h</sup> 7 4 | 23°57'            | 24°27'            | 22°29'              | 7°19'              | 14°21'              | 18°40'              | 8°7'                | 11°15'              | 28°11'              | 29°25'              | 2°44'             | 8°48'             |   |   |   |   |   |   |   |   |
| F 21 | 0 23 30  | 3°56'48"               | 22°56'              | 25°19'            | 25°38'            | 22°35'              | 7°18'              | 14°27'              | 18°40'              | 8°6'                | 11°14'              | 28°12'              | 29°22'              | 2°51'             | 8°52'             |   |   |   |   |   |   |   |   |
| S 22 | 0 27 27  | 4°56'13"               | 5 <sup>h</sup> 30   | 26°40'            | 26°49'            | 22°41'              | 7°16'              | 14°33'              | 18°D40              | 8°6'                | 11°13'              | 28°R13              | 29°18'              | 2°57'             | 8°56'             |   |   |   |   |   |   |   |   |
| S 23 | 0 31 23  | 5°55'41"               | 17°40'              | 28°0'             | 28°0'             | 22°49'              | 7°15'              | 14°39'              | 18°40'              | 8°5'                | 11°12'              | 28°12'              | 29°15'              | 3°4'              | 9°1'              |   |   |   |   |   |   |   |   |
| M24  | 0 35 20  | 6°55'10"               | 29°42'              | 29°19'            | 29°12'            | 22°57'              | 7°15'              | 14°45'              | 18°40'              | 8°4'                | 11°11'              | 28°9'               | 29°12'              | 3°11'             | 9°5'              |   |   |   |   |   |   |   |   |
| T 25 | 0 39 16  | 7°54'42"               | 11 <sup>h</sup> 37  | 0 <sup>h</sup> 36 | 0 <sup>h</sup> 23 | 23°6'               | 7°14'              | 14°51'              | 18°40'              | 8°4'                | 11°9'               | 28°4'               | 29°9'               | 3°18'             | 9°9'              |   |   |   |   |   |   |   |   |
| W26  | 0 43 13  | 8°54'15"               | 23°29'              | 1°52'             | 1°35'             | 23°16'              | 7°14'              | 14°58'              | 18°40'              | 8°3'                | 11°8'               | 27°57'              | 29°6'               | 3°24'             | 9°14'             |   |   |   |   |   |   |   |   |
| T 27 | 0 47 9   | 9°53'49"               | 5 <sup>h</sup> 22   | 3°7'              | 2°47'             | 23°26'              | 7°D14              | 15°4'               | 18°40'              | 8°2'                | 11°7'               | 27°49'              | 29°3'               | 3°31'             | 9°18'             |   |   |   |   |   |   |   |   |
| F 28 | 0 51 6   | 10°53'26"              | 17°17'              | 4°20'             | 3°58'             | 23°37'              | 7°14'              | 15°10'              | 18°41'              | 8°2'                | 11°6'               | 27°39'              | 28°59'              | 3°38'             | 9°23'             |   |   |   |   |   |   |   |   |
| S 29 | 0 55 3   | 11°53'05"              | 29°17'              | 5°32'             | 5°10'             | 23°49'              | 7°14'              | 15°16'              | 18°41'              | 8°1'                | 11°5'               | 27°30'              | 28°56'              | 3°44'             | 9°27'             |   |   |   |   |   |   |   |   |
| S 30 | 0 58 59  | 12 <sup>h</sup> Ω2'45" | 11 <sup>h</sup> 24  | 6 <sup>h</sup> 42 | 6 <sup>h</sup> 22 | 24 <sup>h</sup> 1   | 7 <sup>h</sup> 15  | 15 <sup>h</sup> 23  | 18 <sup>h</sup> 41  | 8 <sup>h</sup> II 0 | 11 <sup>h</sup> 4   | 27 <sup>h</sup> 22  | 28 <sup>h</sup> 53  | 3 <sup>h</sup> 51 | 9 <sup>h</sup> 32 |   |   |   |   |   |   |   |   |

Delta T = 20m17s Julian Calendar 1 Sept. 1072 == Greg. Calendar 7 Sept. 1072

OCTOBER 1072 JC

00:00 UT

| Day  | Sid.t   | ☉                       | ☽                   | ♀                  | ♁                  | ♂                  | ♃                 | ♄                   | ♅                  | ♆                   | ♇                  | ♈                  | ♉                  | ♊                 | ♋                  | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|-------------------------|---------------------|--------------------|--------------------|--------------------|-------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|-------------------|--------------------|---|---|---|---|---|---|---|---|
| M 1  | 1 2 56  | 13 <sup>h</sup> Ω2'28"  | 23 <sup>h</sup> 39' | 7 <sup>h</sup> M49 | 7 <sup>h</sup> 35  | 24 <sup>h</sup> 14 | 7 <sup>h</sup> 15 | 15 <sup>h</sup> M29 | 18 <sup>h</sup> 42 | 7 <sup>h</sup> R59  | 11°R 3             | 27°R16             | 28 <sup>h</sup> 50 | 3 <sup>h</sup> 58 | 9 <sup>h</sup> 37  |   |   |   |   |   |   |   |   |
| T 2  | 1 6 52  | 14°52'13"               | 6 <sup>h</sup> 8 2  | 8°55'              | 8°47'              | 24°28'             | 7°16'             | 15°35'              | 18°42'             | 7 <sup>h</sup> II58 | 11 <sup>h</sup> 2  | 27 <sup>h</sup> 12 | 28°47'             | 4°5'              | 9°42'              |   |   |   |   |   |   |   |   |
| W 3  | 1 10 49 | 15°52'00"               | 18°35'              | 9°58'              | 9°59'              | 24°42'             | 7°17'             | 15°42'              | 18°43'             | 7°57'               | 11°1               | 27°9               | 28°43'             | 4°11'             | 9°47'              |   |   |   |   |   |   |   |   |
| T 4  | 1 14 45 | 16°51'49"               | 1 <sup>h</sup> II20 | 10°59'             | 11°12'             | 24°57'             | 7°19'             | 15°48'              | 18°43'             | 7°57'               | 11°0               | 27°D 9             | 28°40'             | 4°18'             | 9°52'              |   |   |   |   |   |   |   |   |
| F 5  | 1 18 42 | 17°51'40"               | 14°17'              | 11°57'             | 12°24'             | 25°13'             | 7°20'             | 15°55'              | 18°44'             | 7°56'               | 10°59'             | 27°10              | 28°37'             | 4°25'             | 9°57'              |   |   |   |   |   |   |   |   |
| S 6  | 1 22 38 | 18°51'34"               | 27°30'              | 12°51'             | 13°37'             | 25°29'             | 7°22'             | 16°1'               | 18°45'             | 7°55'               | 10°59'             | 27°12              | 28°34'             | 4°32'             | 10°2'              |   |   |   |   |   |   |   |   |
| S 7  | 1 26 35 | 19°51'30"               | 10 <sup>h</sup> 59  | 13°42'             | 14°49'             | 25°45'             | 7°24'             | 16°8'               | 18°45'             | 7°54'               | 10°58'             | 27°13              | 28°31'             | 4°38'             | 10°7'              |   |   |   |   |   |   |   |   |
| M 8  | 1 30 32 | 20°51'28"               | 24°47'              | 14°29'             | 16°2'              | 26°3'              | 7°26'             | 16°15'              | 18°46'             | 7°53'               | 10°57'             | 27°R13             | 28°28'             | 4°45'             | 10°12'             |   |   |   |   |   |   |   |   |
| T 9  | 1 34 28 | 21°51'28"               | 8 <sup>h</sup> Ω54  | 15°12'             | 17°15'             | 26°20'             | 7°28'             | 16°21'              | 18°47'             | 7°52'               | 10°56'             | 27°12              | 28°24'             | 4°52'             | 10°17'             |   |   |   |   |   |   |   |   |
| W10  | 1 38 25 | 22°51'31"               | 23°18'              | 15°50'             | 18°28'             | 26°39'             | 7°30'             | 16°28'              | 18°48'             | 7°50'               | 10°55'             | 27°9               | 28°21'             | 4°58'             | 10°22'             |   |   |   |   |   |   |   |   |
| T 11 | 1 42 21 | 23°51'35"               | 7 <sup>h</sup> 57   | 16°23'             | 19°41'             | 26°58'             | 7°33'             | 16°35'              | 18°49'             | 7°49'               | 10°54'             | 27°5               | 28°18'             | 5°5'              | 10°28'             |   |   |   |   |   |   |   |   |
| F 12 | 1 46 18 | 24°51'42"               | 22°44'              | 16°50'             | 20°54'             | 27°17'             | 7°36'             | 16°41'              | 18°50'             | 7°48'               | 10°53'             | 27°0               | 28°15'             | 5°12'             | 10°33'             |   |   |   |   |   |   |   |   |
| S 13 | 1 50 14 | 25°51'51"               | 7 <sup>h</sup> 34   | 17°10'             | 22°7'              | 27°37'             | 7°39'             | 16°48'              | 18°51'             | 7°47'               | 10°52'             | 26°55'             | 28°12'             | 5°19'             | 10°39'             |   |   |   |   |   |   |   |   |
| S 14 | 1 54 11 | 26°52'02"               | 22°17'              | 17°23'             | 23°21'             | 27°57'             | 7°42'             | 16°55'              | 18°52'             | 7°46'               | 10°52'             | 26°51'             | 28°8'              | 5°25'             | 10°44'             |   |   |   |   |   |   |   |   |
| M15  | 1 58 7  | 27°52'15"               | 6 <sup>h</sup> 47   | 17°R28             | 24°34'             | 28°18'             | 7°46'             | 17°2'               | 18°53'             | 7°45'               | 10°51'             | 26°49'             | 28°5'              | 5°32'             | 10°50'             |   |   |   |   |   |   |   |   |
| T 16 | 2 2 4   | 28°52'29"               | 20°56'              | 17°24'             | 25°47'             | 28°39'             | 7°49'             | 17°9'               | 18°54'             | 7°43'               | 10°50'             | 26°D47             | 28°2'              | 5°39'             | 10°55'             |   |   |   |   |   |   |   |   |
| W17  | 2 6 1   | 29°52'45"               | 4 <sup>h</sup> 42   | 17°12'             | 27°1'              | 29°1'              | 7°53'             | 17°16'              | 18°56'             | 7°42'               | 10°49'             | 26°47'             | 27°59'             | 5°45'             | 11°1'              |   |   |   |   |   |   |   |   |
| T 18 | 2 9 57  | 0 <sup>h</sup> 53'03"   | 18°2                | 16°50'             | 28°14'             | 29°24'             | 7°57'             | 17°23'              | 18°57'             | 7°41'               | 10°49'             | 26°49'             | 27°56'             | 5°52'             | 11°7'              |   |   |   |   |   |   |   |   |
| F 19 | 2 13 54 | 1°53'23"                | 0 <sup>h</sup> 59   | 16°18'             | 29°28'             | 29°46'             | 8°1'              | 17°29'              | 18°58'             | 7°40'               | 10°48'             | 26°50'             | 27°53'             | 5°59'             | 11°12'             |   |   |   |   |   |   |   |   |
| S 20 | 2 17 50 | 2°53'44"                | 13°34'              | 15°36'             | 0 <sup>h</sup> 42  | 0 <sup>h</sup> 9   | 8°6'              | 17°36'              | 19°0'              | 7°38'               | 10°47'             | 26°52'             | 27°49'             | 6°6'              | 11°18'             |   |   |   |   |   |   |   |   |
| S 21 | 2 21 47 | 3°54'07"                | 25°52'              | 14°45'             | 1°55'              | 0°33'              | 8°10'             | 17°43'              | 19°1'              | 7°37'               | 10°47'             | 26°53'             | 27°46'             | 6°12'             | 11°24'             |   |   |   |   |   |   |   |   |
| M22  | 2 25 43 | 4°54'31"                | 7 <sup>h</sup> 56   | 13°45'             | 3°9'               | 0°57'              | 8°15'             | 17°50'              | 19°3'              | 7°36'               | 10°46'             | 26°R53             | 27°43'             | 6°19'             | 11°30'             |   |   |   |   |   |   |   |   |
| T 23 | 2 29 40 | 5°54'56"                | 19°52'              | 12°36'             | 4°23'              | 1°21'              | 8°20'             | 17°57'              | 19°4'              | 7°34'               | 10°45'             | 26°52'             | 27°40'             | 6°26'             | 11°36'             |   |   |   |   |   |   |   |   |
| W24  | 2 33 36 | 6°55'23"                | 1 <sup>h</sup> 44   | 11°22'             | 5°37'              | 1°46'              | 8°25'             | 18°4'               | 19°6'              | 7°33'               | 10°45'             | 26°51'             | 27°37'             | 6°33'             | 11°42'             |   |   |   |   |   |   |   |   |
| T 25 | 2 37 33 | 7°55'51"                | 13°38'              | 10°3'              | 6°51'              | 2°11'              | 8°30'             | 18°11'              | 19°7'              | 7°31'               | 10°44'             | 26°48'             | 27°34'             | 6°39'             | 11°48'             |   |   |   |   |   |   |   |   |
| F 26 | 2 41 30 | 8°56'21"                | 25°35'              | 8°42'              | 8°5'               | 2°37'              | 8°36'             | 18°18'              | 19°9'              | 7°30'               | 10°44'             | 26°45'             | 27°30'             | 6°46'             | 11°54'             |   |   |   |   |   |   |   |   |
| S 27 | 2 45 26 | 9°56'52"                | 7 <sup>h</sup> 40   | 7°22'              | 9°19'              | 3°3'               | 8°41'             | 18°25'              | 19°11'             | 7°29'               | 10°43'             | 26°42'             | 27°27'             | 6°53'             | 12°0'              |   |   |   |   |   |   |   |   |
| S 28 | 2 49 23 | 10°57'24"               | 19°56'              | 6°6'               | 10°33'             | 3°29'              | 8°47'             | 18°32'              | 19°12'             | 7°27'               | 10°43'             | 26°40'             | 27°24'             | 6°59'             | 12°6'              |   |   |   |   |   |   |   |   |
| M29  | 2 53 19 | 11°57'58"               | 2 <sup>h</sup> 23   | 4°55'              | 11°47'             | 3°56'              | 8°53'             | 18°40'              | 19°14'             | 7°26'               | 10°42'             | 26°38'             | 27°21'             | 7°6'              | 12°12'             |   |   |   |   |   |   |   |   |
| T 30 | 2 57 16 | 12°58'33"               | 15°4'               | 3°52'              | 13°1'              | 4°23'              | 8°59'             | 18°47'              | 19°16'             | 7°24'               | 10°42'             | 26°37'             | 27°18'             | 7°13'             | 12°18'             |   |   |   |   |   |   |   |   |
| W31  | 3 1 12  | 13 <sup>h</sup> M59'10" | 27 <sup>h</sup> 57  | 3 <sup>h</sup> M 0 | 14 <sup>h</sup> 15 | 4 <sup>h</sup> 50  | 9 <sup>h</sup> 6  | 18 <sup>h</sup> M54 | 19 <sup>h</sup> 18 | 7 <sup>h</sup> II23 | 10 <sup>h</sup> 41 | 26°D37             | 27 <sup>h</sup> 14 | 7 <sup>h</sup> 20 | 12 <sup>h</sup> 25 |   |   |   |   |   |   |   |   |

Delta T = 20m17s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1072

NOVEMBER 1072 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽      | ♀     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂      | ♂      | ♂     | ♂     | ♂     |
|------|---------|----------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| T 1  | 3 5 9   | 14M59'49 | 11II 4 | 2°R18 | 15Ω30 | 5H17  | 9∞12  | 19M 1 | 19Ω20 | 7°R21 | 10°R41 | 26Ω37  | 27Ω11 | 7H26  | 12∞31 |
| F 2  | 3 9 5   | 16° 0'29 | 24°23  | 1M48  | 16°44 | 5°45  | 9°19  | 19° 8 | 19°22 | 7II19 | 10H40  | 26°38  | 27° 8 | 7°33  | 12°37 |
| S 3  | 3 13 2  | 17° 1'11 | 7Ω55   | 1°29  | 17°58 | 6°13  | 9°26  | 19°15 | 19°24 | 7°18  | 10°40  | 26°39  | 27° 5 | 7°40  | 12°43 |
| S 4  | 3 16 59 | 18° 1'54 | 21°39  | 1°D22 | 19°13 | 6°42  | 9°33  | 19°22 | 19°26 | 7°16  | 10°40  | 26°40  | 27° 2 | 7°46  | 12°50 |
| M 5  | 3 20 55 | 19° 2'39 | 5Ω33   | 1°26  | 20°27 | 7°10  | 9°40  | 19°29 | 19°28 | 7°15  | 10°39  | 26°40  | 26°59 | 7°53  | 12°56 |
| T 6  | 3 24 52 | 20° 3'26 | 19°37  | 1°40  | 21°42 | 7°39  | 9°47  | 19°36 | 19°30 | 7°13  | 10°39  | 26°R40 | 26°55 | 8° 0  | 13° 2 |
| W 7  | 3 28 48 | 21° 4'14 | 3M49   | 2° 3  | 22°56 | 8° 8  | 9°54  | 19°43 | 19°32 | 7°12  | 10°39  | 26°40  | 26°52 | 8° 7  | 13° 9 |
| T 8  | 3 32 45 | 22° 5'04 | 18° 7  | 2°35  | 24°11 | 8°38  | 10° 2 | 19°50 | 19°35 | 7°10  | 10°39  | 26°40  | 26°49 | 8°13  | 13°15 |
| F 9  | 3 36 41 | 23° 5'55 | 2Ω28   | 3°15  | 25°25 | 9° 8  | 10°10 | 19°58 | 19°37 | 7° 8  | 10°38  | 26°39  | 26°46 | 8°20  | 13°22 |
| S 10 | 3 40 38 | 24° 6'48 | 16°48  | 4° 2  | 26°40 | 9°38  | 10°18 | 20° 5 | 19°39 | 7° 7  | 10°38  | 26°39  | 26°43 | 8°27  | 13°28 |
| S 11 | 3 44 34 | 25° 7'42 | 1M 3   | 4°55  | 27°55 | 10° 8 | 10°26 | 20°12 | 19°42 | 7° 5  | 10°38  | 26°39  | 26°40 | 8°34  | 13°35 |
| M12  | 3 48 31 | 26° 8'38 | 15° 8  | 5°53  | 29° 9 | 10°38 | 10°34 | 20°19 | 19°44 | 7° 3  | 10°38  | 26°39  | 26°36 | 8°40  | 13°41 |
| T 13 | 3 52 28 | 27° 9'35 | 28°59  | 6°55  | 0M24  | 11° 9 | 10°42 | 20°26 | 19°46 | 7° 2  | 10°38  | 26°39  | 26°33 | 8°47  | 13°48 |
| W14  | 3 56 24 | 28°10'32 | 12∞33  | 8° 2  | 1°39  | 11°40 | 10°51 | 20°33 | 19°49 | 7° 0  | 10°37  | 26°39  | 26°30 | 8°54  | 13°54 |
| T 15 | 4 0 21  | 29°11'31 | 25°48  | 9°12  | 2°54  | 12°11 | 10°59 | 20°40 | 19°51 | 6°58  | 10°37  | 26°39  | 26°27 | 9° 0  | 14° 1 |
| F 16 | 4 4 17  | 0∞12'31  | 8Ω44   | 10°25 | 4° 9  | 12°42 | 11° 8 | 20°47 | 19°54 | 6°57  | 10°37  | 26°38  | 26°24 | 9° 7  | 14° 8 |
| S 17 | 4 8 14  | 1°13'32  | 21°20  | 11°40 | 5°23  | 13°14 | 11°17 | 20°54 | 19°57 | 6°55  | 10°37  | 26°38  | 26°20 | 9°14  | 14°14 |
| S 18 | 4 12 10 | 2°14'33  | 3∞40   | 12°58 | 6°38  | 13°46 | 11°26 | 21° 1 | 19°59 | 6°53  | 10°D37 | 26°37  | 26°17 | 9°21  | 14°21 |
| M19  | 4 16 7  | 3°15'35  | 15°47  | 14°18 | 7°53  | 14°18 | 11°35 | 21° 8 | 20° 2 | 6°51  | 10°37  | 26°36  | 26°14 | 9°27  | 14°28 |
| T 20 | 4 20 3  | 4°16'37  | 27°44  | 15°39 | 9° 8  | 14°50 | 11°45 | 21°15 | 20° 4 | 6°50  | 10°37  | 26°36  | 26°11 | 9°34  | 14°34 |
| W21  | 4 24 0  | 5°17'40  | 9H37   | 17° 2 | 10°23 | 15°22 | 11°54 | 21°22 | 20° 7 | 6°48  | 10°37  | 26°D36 | 26° 8 | 9°41  | 14°41 |
| T 22 | 4 27 57 | 6°18'44  | 21°30  | 18°26 | 11°38 | 15°55 | 12° 4 | 21°29 | 20°10 | 6°46  | 10°37  | 26°36  | 26° 5 | 9°47  | 14°48 |
| F 23 | 4 31 53 | 7°19'48  | 3Y27   | 19°51 | 12°53 | 16°28 | 12°13 | 21°36 | 20°13 | 6°45  | 10°38  | 26°37  | 26° 1 | 9°54  | 14°54 |
| S 24 | 4 35 50 | 8°20'52  | 15°34  | 21°17 | 14° 8 | 17° 0 | 12°23 | 21°43 | 20°16 | 6°43  | 10°38  | 26°38  | 25°58 | 10° 1 | 15° 1 |
| S 25 | 4 39 46 | 9°21'58  | 27°54  | 22°44 | 15°23 | 17°34 | 12°33 | 21°50 | 20°18 | 6°41  | 10°38  | 26°40  | 25°55 | 10° 8 | 15° 8 |
| M26  | 4 43 43 | 10°23'03 | 10Ω30  | 24°11 | 16°38 | 18° 7 | 12°43 | 21°57 | 20°21 | 6°40  | 10°38  | 26°41  | 25°52 | 10°14 | 15°14 |
| T 27 | 4 47 39 | 11°24'09 | 23°25  | 25°39 | 17°53 | 18°40 | 12°53 | 22° 4 | 20°24 | 6°38  | 10°38  | 26°R41 | 25°49 | 10°21 | 15°21 |
| W28  | 4 51 36 | 12°25'16 | 6II38  | 27° 8 | 19° 8 | 19°14 | 13° 4 | 22°10 | 20°27 | 6°36  | 10°38  | 26°41  | 25°46 | 10°28 | 15°28 |
| T 29 | 4 55 32 | 13°26'23 | 20°10  | 28°37 | 20°23 | 19°47 | 13°14 | 22°17 | 20°30 | 6°34  | 10°39  | 26°40  | 25°42 | 10°35 | 15°35 |
| F 30 | 4 59 29 | 14∞27'31 | 3Ω58   | 0∞6   | 21M38 | 20H21 | 13∞24 | 22M24 | 20Ω33 | 6II33 | 10H39  | 26Ω38  | 25Ω39 | 10H41 | 15∞41 |

Delta T = 20m17s

Julian Calendar 1 Nov. 1072 == Greg. Calendar 7 Nov. 1072

DECEMBER 1072 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂     |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| S 1  | 5 3 26  | 15∞28'39 | 17Ω58 | 1∞36  | 22M53 | 20H55 | 13∞35 | 22M31 | 20Ω36 | 6°R31 | 10H39 | 26°R35 | 25Ω36 | 10H48 | 15∞48 |
| S 2  | 5 7 22  | 16°29'48 | 2Ω 8  | 3° 7  | 24° 8 | 21°29 | 13°46 | 22°37 | 20°39 | 6II29 | 10°40 | 26Ω32  | 25°33 | 10°55 | 15°55 |
| M 3  | 5 11 19 | 17°30'58 | 16°23 | 4°37  | 25°23 | 22° 3 | 13°57 | 22°44 | 20°42 | 6°28  | 10°40 | 26°30  | 25°30 | 11° 1 | 16° 1 |
| T 4  | 5 15 15 | 18°32'08 | 0M39  | 6° 8  | 26°38 | 22°37 | 14° 8 | 22°51 | 20°45 | 6°26  | 10°40 | 26°28  | 25°26 | 11° 8 | 16° 8 |
| W 5  | 5 19 12 | 19°33'19 | 14°52 | 7°40  | 27°54 | 23°12 | 14°19 | 22°57 | 20°48 | 6°24  | 10°41 | 26°D27 | 25°23 | 11°15 | 16°15 |
| T 6  | 5 23 8  | 20°34'30 | 29° 1 | 9°11  | 29° 9 | 23°46 | 14°30 | 23° 4 | 20°52 | 6°23  | 10°41 | 26°27  | 25°20 | 11°22 | 16°22 |
| F 7  | 5 27 5  | 21°35'42 | 13Ω 3 | 10°43 | 0∞24  | 24°21 | 14°41 | 23°11 | 20°55 | 6°21  | 10°41 | 26°28  | 25°17 | 11°28 | 16°28 |
| S 8  | 5 31 1  | 22°36'54 | 26°58 | 12°15 | 1°39  | 24°56 | 14°53 | 23°17 | 20°58 | 6°20  | 10°42 | 26°30  | 25°14 | 11°35 | 16°35 |
| S 9  | 5 34 58 | 23°38'07 | 10M44 | 13°48 | 2°54  | 25°31 | 15° 4 | 23°24 | 21° 1 | 6°18  | 10°42 | 26°31  | 25°11 | 11°42 | 16°42 |
| M10  | 5 38 55 | 24°39'20 | 24°20 | 15°21 | 4°10  | 26° 6 | 15°16 | 23°30 | 21° 4 | 6°16  | 10°43 | 26°R32 | 25° 7 | 11°48 | 16°48 |
| T 11 | 5 42 51 | 25°40'34 | 7∞45  | 16°54 | 5°25  | 26°41 | 15°27 | 23°36 | 21° 8 | 6°15  | 10°43 | 26°31  | 25° 4 | 11°55 | 16°55 |
| W12  | 5 46 48 | 26°41'48 | 20°57 | 18°27 | 6°40  | 27°16 | 15°39 | 23°43 | 21°11 | 6°13  | 10°44 | 26°29  | 25° 1 | 12° 2 | 17° 2 |
| T 13 | 5 50 44 | 27°43'01 | 3Ω57  | 20° 1 | 7°55  | 27°51 | 15°51 | 23°49 | 21°14 | 6°12  | 10°45 | 26°26  | 24°58 | 12° 9 | 17° 8 |
| F 14 | 5 54 41 | 28°44'15 | 16°42 | 21°35 | 9°10  | 28°27 | 16° 3 | 23°55 | 21°18 | 6°10  | 10°45 | 26°20  | 24°55 | 12°15 | 17°15 |
| S 15 | 5 58 37 | 29°45'29 | 29°12 | 23° 9 | 10°26 | 29° 2 | 16°15 | 24° 2 | 21°21 | 6° 8  | 10°46 | 26°14  | 24°52 | 12°22 | 17°21 |
| S 16 | 6 2 34  | 0Ω46'42  | 11∞30 | 24°44 | 11°41 | 29°38 | 16°27 | 24° 8 | 21°24 | 6° 7  | 10°47 | 26° 8  | 24°48 | 12°29 | 17°28 |
| M17  | 6 6 31  | 1°47'55  | 23°36 | 26°19 | 12°56 | 0Y14  | 16°39 | 24°14 | 21°28 | 6° 5  | 10°47 | 26° 2  | 24°45 | 12°35 | 17°35 |
| T 18 | 6 10 27 | 2°49'07  | 5H33  | 27°55 | 14°11 | 0°50  | 16°51 | 24°20 | 21°31 | 6° 4  | 10°48 | 25°57  | 24°42 | 12°42 | 17°41 |
| W19  | 6 14 24 | 3°50'19  | 17°25 | 29°31 | 15°26 | 1°25  | 17° 4 | 24°26 | 21°34 | 6° 3  | 10°49 | 25°54  | 24°39 | 12°49 | 17°48 |
| T 20 | 6 18 20 | 4°51'31  | 29°16 | 1Ω 7  | 16°42 | 2° 1  | 17°16 | 24°32 | 21°38 | 6° 1  | 10°49 | 25°52  | 24°36 | 12°56 | 17°54 |
| F 21 | 6 22 17 | 5°52'42  | 11Y12 | 2°44  | 17°57 | 2°37  | 17°29 | 24°38 | 21°41 | 6° 0  | 10°50 | 25°D52 | 24°32 | 13° 2 | 18° 1 |
| S 22 | 6 26 13 | 6°53'52  | 23°16 | 4°21  | 19°12 | 3°14  | 17°41 | 24°44 | 21°45 | 5°58  | 10°51 | 25°53  | 24°29 | 13° 9 | 18° 7 |
| S 23 | 6 30 10 | 7°55'02  | 5Ω35  | 5°59  | 20°27 | 3°50  | 17°54 | 24°50 | 21°48 | 5°57  | 10°52 | 25°55  | 24°26 | 13°16 | 18°14 |
| M24  | 6 34 6  | 8°56'11  | 18°12 | 7°37  | 21°43 | 4°26  | 18° 7 | 24°56 | 21°51 | 5°55  | 10°53 | 25°56  | 24°23 | 13°22 | 18°20 |
| T 25 | 6 38 3  | 9°57'19  | 1II12 | 9°15  | 22°58 | 5° 2  | 18°20 | 25° 1 | 21°55 | 5°54  | 10°53 | 25°R56 | 24°20 | 13°29 | 18°26 |
| W26  | 6 42 0  | 10°58'27 | 14°37 | 10°54 | 24°13 | 5°39  | 18°32 | 25° 7 | 21°58 | 5°53  | 10°54 | 25°55  | 24°17 | 13°36 | 18°33 |
| T 27 | 6 45 56 | 11°59'34 | 28°26 | 12°34 | 25°28 | 6°15  | 18°45 | 25°13 | 22° 2 | 5°51  | 10°55 | 25°51  | 24°13 | 13°43 | 18°39 |
| F 28 | 6 49 53 | 13° 0'41 | 12Ω38 | 14°14 | 26°43 | 6°52  | 18°58 | 25°18 | 22° 5 | 5°50  | 10°56 | 25°45  | 24°10 | 13°49 | 18°45 |
| S 29 | 6 53 49 | 14° 1'47 | 27° 8 | 15°55 | 27°59 | 7°28  | 19°12 | 25°24 | 22° 9 | 5°49  | 10°57 | 25°37  | 24° 7 | 13°56 | 18°52 |
| S 30 | 6 57 46 | 15° 2'52 | 11Ω48 | 17°36 | 29°14 | 8° 5  | 19°25 | 25°29 | 22°12 | 5°48  | 10°58 | 25°29  | 24° 4 | 14° 3 | 18°58 |
| M31  | 7 1 42  | 16Ω 3'57 | 26Ω32 | 19Ω18 | 0Ω29  | 8Y42  | 19∞38 | 25M34 | 22Ω16 | 5II46 | 10H59 | 25Ω21  | 24Ω 1 | 14H10 | 19∞4  |

Delta T = 20m16s

Julian Calendar

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