

Eclipse partielle de Soleil

29 mars 2006

Ephémérides du Soleil et de la Lune *de 9h00 à 12h30 TU*

- Coordonnées équatoriales (Observatoire Saint Genis Laval)
- Coordonnées locales (Observatoire Saint Genis Laval)
- Coordonnées écliptiques (géocentriques)
- Temps sidéral (Saint Genis Laval)

Les éphémérides sont calculées à partir du générateur d'éphémérides de l'IMCCE. (<http://www.imcce.fr>).

Remarque I : les coordonnées locales (azimut et hauteur) sont valables pour le lieu de l'Observatoire. Pour la région lyonnaise, leur utilisation n'entraîne qu'un minime décalage des valeurs.

Remarque II : la remarque I s'applique aussi aux coordonnées équatoriales, car elles sont topocentriques (Saint Genis Laval). La aussi, les différences engendrées par le choix d'un autre lieu de la région n'affectent pas beaucoup les éphémérides, d'autant plus que l'on se sert des positions relatives du Soleil et de la Lune.

On rappelle que les instruments d'observation astronomiques utilisent les coordonnées horaires. Elles se déduisent des coordonnées équatoriales et du temps sidéral en appliquant la simple formule

$$H = T - \alpha$$

H étant l'angle horaire, T le temps sidéral, α l'ascension droite. La déclinaison étant commune aux deux systèmes de coordonnées.

Lexique :

Pour les coordonnées, ascension droite (R.A.), déclinaison (Dec.), longitude (λ) et latitude écliptique (β), azimut (a) et hauteur (h), voir les documents de repérage à

http://www-obs.univ-lyon1.fr/fc/cdroms/docu_astro/reperage/reperage.pdf

Phase (angle de) : pour la Lune et les planètes, angle entre la direction objet-Soleil et objet- Terre. Permet de calculer le pourcentage visible éclairé.

Elongation : angle entre la direction du Soleil et la direction de l'objet, pour la Lune et les planètes. Pour les planètes inférieures, l'élongation ne dépasse jamais une certaine valeur (plus grande élongation Ouest ou Est).

Unité astronomique u.a. : distance moyenne Terre-Soleil, environ 150 000 000 km

Magnitude : échelle logarithmique d'intensité des objets célestes, en référence à l'échelle des anciens, dont les valeurs croissent avec la diminution de l'éclat. Les objets très brillants ont une magnitude négative.

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#####
# Coordonnées équatoriales (R.A, Dec.)
# Soleil et Lune
# Coordonnées Apparentes (équateur vrai ; équinoxe de la date)
# Centre du repère : topocentre : ST-GENIS-LAVAL : 0 h 19 m 8.004 s E ; 45 d 42 ' 0.004 " N
#####
#          Date          #          Soleil          #          Lune          #
#####
#          Date UTC          R.A          Dec.          Distance          V.Mag          R.A          Dec.          Distance          V.Mag          Phase          Elong.
#          ua.              h              o              u.a.              V.Mag          H              o              u.a.              V.Mag          o              o
29 3 2006 9 4 0.00      0 31 21.79160 +03 22 58.7640      0.998412404 -26.74      0 30 8.21463 +02 42 44.4091      0.002383459      6.96 179.26 359.32
29 3 2006 9 8 0.00      0 31 22.39314 +03 23 2.6662      0.998412865 -26.74      0 30 14.79359 +02 43 58.2712      0.002383165      7.09 179.29 359.35
29 3 2006 9 12 0.00     0 31 22.99459 +03 23 6.5682      0.998413334 -26.74      0 30 21.34111 +02 45 12.1186      0.002382877      7.22 179.32 359.37
29 3 2006 9 16 0.00     0 31 23.59597 +03 23 10.4702      0.998413809 -26.74      0 30 27.85788 +02 46 25.9505      0.002382597      7.35 179.34 359.40
29 3 2006 9 20 0.00     0 31 24.19727 +03 23 14.3720      0.998414291 -26.74      0 30 34.34452 +02 47 39.7656      0.002382323      7.49 179.37 359.42
29 3 2006 9 24 0.00     0 31 24.79849 +03 23 18.2738      0.998414781 -26.74      0 30 40.80167 +02 48 53.5625      0.002382056      7.62 179.40 359.45
29 3 2006 9 28 0.00     0 31 25.39965 +03 23 22.1754      0.998415278 -26.74      0 30 47.23008 +02 50 7.3409      0.002381797      7.77 179.42 359.47
29 3 2006 9 32 0.00     0 31 26.00073 +03 23 26.0769      0.998415782 -26.74      0 30 53.63041 +02 51 21.0993      0.002381544      7.91 179.45 359.49
29 3 2006 9 36 0.00     0 31 26.60174 +03 23 29.9782      0.998416294 -26.74      0 31 0.00335 +02 52 34.8367      0.002381299      8.06 179.47 359.52
29 3 2006 9 40 0.00     0 31 27.20269 +03 23 33.8795      0.998416814 -26.74      0 31 6.34962 +02 53 48.5520      0.002381061      8.21 179.50 359.54
29 3 2006 9 44 0.00     0 31 27.80358 +03 23 37.7806      0.998417341 -26.74      0 31 12.66991 +02 55 2.2441      0.002380831      8.36 179.52 0.44
29 3 2006 9 48 0.00     0 31 28.40439 +03 23 41.6816      0.998417876 -26.74      0 31 18.96498 +02 56 15.9121      0.002380608      8.51 179.54 0.43
29 3 2006 9 52 0.00     0 31 29.00515 +03 23 45.5825      0.998418420 -26.74      0 31 25.23557 +02 57 29.5551      0.002380392      8.66 179.56 0.41
29 3 2006 9 56 0.00     0 31 29.60585 +03 23 49.4832      0.998418971 -26.74      0 31 31.48236 +02 58 43.1716      0.002380184      8.81 179.58 0.39
29 3 2006 10 0 0.00      0 31 30.20649 +03 23 53.3838      0.998419530 -26.74      0 31 37.70618 +02 59 56.7609      0.002379984      8.95 179.60 0.38
29 3 2006 10 4 0.00      0 31 30.80708 +03 23 57.2843      0.998420097 -26.74      0 31 43.90770 +03 1 10.3216      0.002379792      9.09 179.62 0.37
29 3 2006 10 8 0.00      0 31 31.40761 +03 24 1.1847      0.998420673 -26.74      0 31 50.08776 +03 2 23.8530      0.002379608      9.22 179.63 0.36
29 3 2006 10 12 0.00     0 31 32.00809 +03 24 5.0849      0.998421256 -26.74      0 31 56.24709 +03 3 37.3540      0.002379431      9.34 179.64 0.35
29 3 2006 10 16 0.00     0 31 32.60853 +03 24 8.9850      0.998421848 -26.74      0 32 2.38647 +03 4 50.8234      0.002379262      9.44 179.65 0.35
29 3 2006 10 20 0.00     0 31 33.20891 +03 24 12.8850      0.998422449 -26.74      0 32 8.50668 +03 6 4.2601      0.002379102      9.52 179.66 0.35
29 3 2006 10 24 0.00     0 31 33.80925 +03 24 16.7848      0.998423058 -26.74      0 32 14.60852 +03 7 17.6633      0.002378949      9.58 179.67 0.35
29 3 2006 10 28 0.00     0 31 34.40955 +03 24 20.6846      0.998423675 -26.74      0 32 20.69278 +03 8 31.0317      0.002378805      9.62 179.67 0.35
29 3 2006 10 32 0.00     0 31 35.00980 +03 24 24.5841      0.998424301 -26.74      0 32 26.76025 +03 9 44.3645      0.002378669      9.62 179.67 0.36
29 3 2006 10 36 0.00     0 31 35.61002 +03 24 28.4836      0.998424935 -26.74      0 32 32.81179 +03 10 57.6608      0.002378541      9.61 179.67 0.37
29 3 2006 10 40 0.00     0 31 36.21019 +03 24 32.3829      0.998425578 -26.74      0 32 38.84813 +03 12 10.9191      0.002378421      9.56 179.67 0.38
29 3 2006 10 44 0.00     0 31 36.81034 +03 24 36.2820      0.998426230 -26.74      0 32 44.87017 +03 13 24.1389      0.002378309      9.49 179.66 0.39
29 3 2006 10 48 0.00     0 31 37.41045 +03 24 40.1811      0.998426891 -26.74      0 32 50.87864 +03 14 37.3187      0.002378206      9.40 179.65 0.40
29 3 2006 10 52 0.00     0 31 38.01053 +03 24 44.0800      0.998427560 -26.74      0 32 56.87446 +03 15 50.4580      0.002378111      9.30 179.64 0.42
29 3 2006 10 56 0.00     0 31 38.61058 +03 24 47.9787      0.998428238 -26.74      0 33 2.85841 +03 17 3.5555      0.002378025      9.18 179.63 0.44
29 3 2006 11 0 0.00      0 31 39.21060 +03 24 51.8773      0.998428925 -26.74      0 33 8.83133 +03 18 16.6104      0.002377947      9.05 179.61 0.45
29 3 2006 11 4 0.00      0 31 39.81060 +03 24 55.7758      0.998429621 -26.74      0 33 14.79406 +03 19 29.6215      0.002377878      8.91 179.59 0.47
29 3 2006 11 8 0.00      0 31 40.41058 +03 24 59.6741      0.998430326 -26.74      0 33 20.74747 +03 20 42.5883      0.002377817      8.77 179.58 0.49
29 3 2006 11 12 0.00     0 31 41.01053 +03 25 3.5723      0.998431040 -26.74      0 33 26.69234 +03 21 55.5092      0.002377765      8.62 179.56 0.51
29 3 2006 11 16 0.00     0 31 41.61047 +03 25 7.4704      0.998431763 -26.74      0 33 32.62954 +03 23 8.3836      0.002377721      8.48 179.54 0.54
29 3 2006 11 20 0.00     0 31 42.21040 +03 25 11.3683      0.998432494 -26.74      0 33 38.55998 +03 24 21.2108      0.002377686      8.33 179.51 0.56
29 3 2006 11 24 0.00     0 31 42.81031 +03 25 15.2661      0.998433235 -26.74      0 33 44.48446 +03 25 33.9896      0.002377659      8.19 179.49 0.58
29 3 2006 11 28 0.00     0 31 43.41020 +03 25 19.1637      0.998433985 -26.74      0 33 50.40379 +03 26 46.7189      0.002377642      8.04 179.47 0.61
29 3 2006 11 32 0.00     0 31 44.01009 +03 25 23.0612      0.998434744 -26.74      0 33 56.31891 +03 27 59.3982      0.002377632      7.90 179.45 0.63
29 3 2006 11 36 0.00     0 31 44.60998 +03 25 26.9586      0.998435511 -26.74      0 34 2.23065 +03 29 12.0265      0.002377632      7.77 179.42 0.65
29 3 2006 11 40 0.00     0 31 45.20985 +03 25 30.8558      0.998436288 -26.74      0 34 8.13985 +03 30 24.6028      0.002377640      7.63 179.40 0.68
#
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(1x,I2,1x,I2,1x,I5,1x,I2,1x,I2,1x,I2,1x,F5.2,3x,I2,1x,I2,1x,F8.5,1x,A1,I2.2,1x,I2,1x,F7.4,2x,F13.9,2x,F6.2,2x,F6.2,3x,F6.2,3x,E10.3,1x,E10.3,1x,A)

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#####
# Coordonnées écliptiques (lambda, beta)
# Soleil et Lune
# Coordonnées Astrometriques J2000
# Centre du repère : géocentre
#####
#          Date          #          Soleil          #          Lune
#####
#          Date UTC          Long.          Lat.          Distance          V.Mag          Long.          Lat.          Distance          V.Mag          Phase          Elong.
#          h m s          o ' "          o ' "          ua.          V.Mag          o ' "          o ' "          Rt.          V.Mag          o          o
29 3 2006 9 0 0.00 8 26 43.6086 -00 0 0.8110 0.998436068 -26.74 7 43 15.9451 +00 19 5.8670 56.476696156 6.73 179.20 359.20
29 3 2006 9 4 0.00 8 26 53.4989 -00 0 0.8107 0.998436863 -26.74 7 45 45.5580 +00 19 19.6981 56.477547764 6.88 179.24 359.24
29 3 2006 9 8 0.00 8 27 3.3892 -00 0 0.8105 0.998437658 -26.74 7 48 15.1672 +00 19 33.5282 56.478401516 7.02 179.27 359.27
29 3 2006 9 12 0.00 8 27 13.2795 -00 0 0.8102 0.998438454 -26.74 7 50 44.7713 +00 19 47.3572 56.479257410 7.17 179.30 359.30
29 3 2006 9 16 0.00 8 27 23.1698 -00 0 0.8099 0.998439249 -26.74 7 53 14.3716 +00 20 1.1852 56.480115449 7.32 179.33 359.34
29 3 2006 9 20 0.00 8 27 33.0601 -00 0 0.8097 0.998440044 -26.74 7 55 43.9669 +00 20 15.0121 56.480975629 7.48 179.36 359.37
29 3 2006 9 24 0.00 8 27 42.9503 -00 0 0.8094 0.998440839 -26.74 7 58 13.5578 +00 20 28.8380 56.481837950 7.64 179.40 359.40
29 3 2006 9 28 0.00 8 27 52.8406 -00 0 0.8091 0.998441634 -26.74 8 0 43.1449 +00 20 42.6628 56.482702414 7.80 179.42 359.43
29 3 2006 9 32 0.00 8 28 2.7308 -00 0 0.8089 0.998442429 -26.74 8 3 12.7269 +00 20 56.4865 56.483569018 7.97 179.45 359.45
29 3 2006 9 36 0.00 8 28 12.6210 -00 0 0.8086 0.998443224 -26.74 8 5 42.3051 +00 21 10.3091 56.484437764 8.13 179.48 359.48
29 3 2006 9 40 0.00 8 28 22.5112 -00 0 0.8083 0.998444020 -26.74 8 8 11.8782 +00 21 24.1306 56.485308647 8.29 179.50 359.51
29 3 2006 9 44 0.00 8 28 32.4013 -00 0 0.8081 0.998444815 -26.74 8 10 41.4475 +00 21 37.9510 56.486181672 8.45 179.53 359.53
29 3 2006 9 48 0.00 8 28 42.2915 -00 0 0.8078 0.998445610 -26.74 8 13 11.0116 +00 21 51.7702 56.487056834 8.59 179.55 359.55
29 3 2006 9 52 0.00 8 28 52.1816 -00 0 0.8075 0.998446405 -26.74 8 15 40.5719 +00 22 5.5884 56.487934136 8.73 179.57 359.57
29 3 2006 9 56 0.00 8 29 2.0718 -00 0 0.8073 0.998447200 -26.74 8 18 10.1271 +00 22 19.4054 56.488813574 8.85 179.58 359.58
29 3 2006 10 0 0.00 8 29 11.9619 -00 0 0.8070 0.998447995 -26.74 8 20 39.6783 +00 22 33.2212 56.489695152 8.95 179.59 359.60
29 3 2006 10 4 0.00 8 29 21.8520 -00 0 0.8067 0.998448790 -26.74 8 23 9.2244 +00 22 47.0360 56.490578863 9.02 179.60 359.60
29 3 2006 10 8 0.00 8 29 31.7420 -00 0 0.8065 0.998449585 -26.74 8 25 38.7666 +00 23 0.8495 56.491464714 9.06 179.61 359.61
29 3 2006 10 12 0.00 8 29 41.6321 -00 0 0.8062 0.998450380 -26.74 8 28 8.3036 +00 23 14.6619 56.492352698 9.07 179.61 359.61
29 3 2006 10 16 0.00 8 29 51.5222 -00 0 0.8060 0.998451175 -26.74 8 30 37.8360 +00 23 28.4731 56.493242816 9.05 179.61 359.61
29 3 2006 10 20 0.00 8 30 1.4122 -00 0 0.8057 0.998451970 -26.74 8 33 7.3646 +00 23 42.2831 56.494135073 9.00 179.60 359.60
29 3 2006 10 24 0.00 8 30 11.3022 -00 0 0.8054 0.998452765 -26.74 8 35 36.8879 +00 23 56.0919 56.495029460 8.92 179.59 359.59
29 3 2006 10 28 0.00 8 30 21.1922 -00 0 0.8052 0.998453560 -26.74 8 38 6.4072 +00 24 9.8996 56.495925984 8.81 179.58 359.58
29 3 2006 10 32 0.00 8 30 31.0822 -00 0 0.8049 0.998454355 -26.74 8 40 35.9213 +00 24 23.7060 56.496824638 8.69 179.56 359.56
29 3 2006 10 36 0.00 8 30 40.9722 -00 0 0.8046 0.998455150 -26.74 8 43 5.4314 +00 24 37.5112 56.497725428 8.55 179.54 0.46
29 3 2006 10 40 0.00 8 30 50.8621 -00 0 0.8044 0.998455945 -26.74 8 45 34.9363 +00 24 51.3151 56.498628347 8.40 179.52 0.48
29 3 2006 10 44 0.00 8 31 0.7520 -00 0 0.8041 0.998456740 -26.74 8 48 4.4371 +00 25 5.1178 56.499533400 8.24 179.50 0.50
29 3 2006 10 48 0.00 8 31 10.6420 -00 0 0.8038 0.998457535 -26.74 8 50 33.9327 +00 25 18.9193 56.500440581 8.08 179.47 0.53
29 3 2006 10 52 0.00 8 31 20.5319 -00 0 0.8036 0.998458330 -26.74 8 53 3.4243 +00 25 32.7196 56.501349896 7.91 179.44 0.56
29 3 2006 10 56 0.00 8 31 30.4218 -00 0 0.8033 0.998459125 -26.74 8 55 32.9105 +00 25 46.5185 56.502261336 7.75 179.41 0.58
29 3 2006 11 0 0.00 8 31 40.3116 -00 0 0.8030 0.998459920 -26.74 8 58 2.3927 +00 26 0.3162 56.503174911 7.59 179.39 0.61
29 3 2006 11 4 0.00 8 31 50.2015 -00 0 0.8028 0.998460715 -26.74 9 0 31.8696 +00 26 14.1127 56.504090609 7.43 179.35 0.64
29 3 2006 11 8 0.00 8 32 0.0913 -00 0 0.8025 0.998461510 -26.74 9 3 1.3424 +00 26 27.9078 56.505008441 7.27 179.32 0.68
29 3 2006 11 12 0.00 8 32 9.9812 -00 0 0.8023 0.998462305 -26.74 9 5 30.8099 +00 26 41.7017 56.505928395 7.12 179.29 0.71
29 3 2006 11 16 0.00 8 32 19.8710 -00 0 0.8020 0.998463099 -26.74 9 8 0.2733 +00 26 55.4942 56.506850481 6.97 179.26 0.74
29 3 2006 11 20 0.00 8 32 29.7608 -00 0 0.8017 0.998463894 -26.74 9 10 29.7313 +00 27 9.2854 56.507774689 6.83 179.22 0.77
29 3 2006 11 24 0.00 8 32 39.6505 -00 0 0.8015 0.998464689 -26.74 9 12 59.1853 +00 27 23.0754 56.508701028 6.69 179.19 0.81
29 3 2006 11 28 0.00 8 32 49.5403 -00 0 0.8012 0.998465484 -26.74 9 15 28.6338 +00 27 36.8640 56.509629487 6.55 179.16 0.84
29 3 2006 11 32 0.00 8 32 59.4300 -00 0 0.8009 0.998466279 -26.74 9 17 58.0782 +00 27 50.6512 56.510560076 6.42 179.12 0.88
29 3 2006 11 36 0.00 8 33 9.3198 -00 0 0.8007 0.998467074 -26.74 9 20 27.5172 +00 28 4.4371 56.511492784 6.29 179.09 0.91
29 3 2006 11 40 0.00 8 33 19.2095 -00 0 0.8004 0.998467868 -26.74 9 22 56.9520 +00 28 18.2217 56.512427621 6.17 179.05 0.95
#
# > Format des donnees : (1x,I2,1x,I2,1x,I5,1x,I2,1x,I2,1x,F5.2,2x,I3,1x,I2,1x,F7.4,2x,A1,I2.2,1x,I2,1x,F7.4,2x,F13.9,2x,F6.2,2x,F6.2,3x,F6.2)

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#####
# Coordonnées locales (Az, h) [azimut comptee a partir du nord]
# Soleil et Lune
# Coordonnées Apparentes (équateur vrai ; équinoxe de la date)
# Centre du repère : topocentre : ST-GENIS-LAVAL : 0 h 19 m 8.004 s E ; 45 d 42 ' 0.004 " N
#####
#          Date          #          Soleil          #          Lune
#####
#          Date UTC          Azimut          Hauteur          Distance          V.Mag          Azimut          Hauteur          Distance          V.Mag          Phase          Elong.
#          h m s          o ' "          o ' "          ua.          V.Mag          o ' "          o ' "          ua.          V.Mag          o          o
29 3 2006 9 0 0.00 126 49 10.783 +34 24 1.78 0.998412 -26.74 127 37 1.055 +34 0 42.39 0.002384 6.84 179.23 359.29
29 3 2006 9 4 0.00 127 49 40.265 +34 57 24.91 0.998412 -26.74 128 35 16.119 +34 33 53.52 0.002383 6.96 179.26 359.32
29 3 2006 9 8 0.00 128 50 56.505 +35 30 20.74 0.998413 -26.74 129 34 16.174 +35 6 39.17 0.002383 7.09 179.29 359.35
29 3 2006 9 12 0.00 129 53 0.470 +36 2 48.30 0.998413 -26.74 130 34 2.150 +35 38 58.45 0.002383 7.22 179.32 359.37
29 3 2006 9 16 0.00 130 55 53.094 +36 34 46.57 0.998414 -26.74 131 34 34.951 +36 10 50.41 0.002383 7.35 179.34 359.40
29 3 2006 9 20 0.00 131 59 35.274 +37 6 14.53 0.998414 -26.74 132 35 55.451 +36 42 14.10 0.002382 7.49 179.37 359.42
29 3 2006 9 24 0.00 133 4 7.859 +37 37 11.13 0.998415 -26.74 133 38 4.485 +37 13 8.56 0.002382 7.62 179.40 359.45
29 3 2006 9 28 0.00 134 9 31.651 +38 7 35.29 0.998415 -26.74 134 41 2.847 +37 43 32.79 0.002382 7.77 179.42 359.47
29 3 2006 9 32 0.00 135 15 47.393 +38 37 25.92 0.998416 -26.74 135 44 51.286 +38 13 25.76 0.002382 7.91 179.45 359.49
29 3 2006 9 36 0.00 136 22 55.767 +39 6 41.91 0.998416 -26.74 136 49 30.497 +38 42 46.47 0.002381 8.06 179.47 359.52
29 3 2006 9 40 0.00 137 30 57.383 +39 35 22.13 0.998417 -26.74 137 55 1.116 +39 11 33.84 0.002381 8.21 179.50 359.54
29 3 2006 9 44 0.00 138 39 52.775 +40 3 25.43 0.998417 -26.74 139 1 23.713 +39 39 46.81 0.002381 8.36 179.52 0.44
29 3 2006 9 48 0.00 139 49 42.391 +40 30 50.65 0.998418 -26.74 140 8 38.789 +40 7 24.30 0.002381 8.51 179.54 0.43
29 3 2006 9 52 0.00 141 0 26.587 +40 57 36.59 0.998418 -26.74 141 16 46.763 +40 34 25.21 0.002380 8.66 179.56 0.41
29 3 2006 9 56 0.00 142 12 5.619 +41 23 42.09 0.998419 -26.74 142 25 47.972 +41 0 48.42 0.002380 8.81 179.58 0.39
29 3 2006 10 0 0.00 143 24 39.633 +41 49 5.91 0.998420 -26.74 143 35 42.656 +41 26 32.80 0.002380 8.95 179.60 0.38
29 3 2006 10 4 0.00 144 38 8.660 +42 13 46.87 0.998420 -26.74 144 46 30.959 +41 51 37.23 0.002380 9.09 179.62 0.37
29 3 2006 10 8 0.00 145 52 32.606 +42 37 43.74 0.998421 -26.74 145 58 12.913 +42 16 0.56 0.002380 9.22 179.63 0.36
29 3 2006 10 12 0.00 147 7 51.244 +43 0 55.29 0.998421 -26.74 147 10 48.438 +42 39 41.63 0.002379 9.34 179.64 0.35
29 3 2006 10 16 0.00 148 24 4.207 +43 23 20.31 0.998422 -26.74 148 24 17.330 +43 2 39.30 0.002379 9.44 179.65 0.35
29 3 2006 10 20 0.00 149 41 10.980 +43 44 57.59 0.998422 -26.74 149 38 39.257 +43 24 52.41 0.002379 9.52 179.66 0.35
29 3 2006 10 24 0.00 150 59 10.894 +44 5 45.90 0.998423 -26.74 150 53 53.750 +43 46 19.81 0.002379 9.58 179.67 0.35
29 3 2006 10 28 0.00 152 18 3.118 +44 25 44.06 0.998424 -26.74 152 10 0.196 +44 7 0.37 0.002379 9.62 179.67 0.35
29 3 2006 10 32 0.00 153 37 46.654 +44 44 50.87 0.998424 -26.74 153 26 57.835 +44 26 52.94 0.002379 9.62 179.67 0.36
29 3 2006 10 36 0.00 154 58 20.333 +45 3 5.17 0.998425 -26.74 154 44 45.750 +44 45 56.40 0.002379 9.61 179.67 0.37
29 3 2006 10 40 0.00 156 19 42.810 +45 20 25.82 0.998426 -26.74 156 3 22.868 +45 4 9.65 0.002378 9.56 179.67 0.38
29 3 2006 10 44 0.00 157 41 52.560 +45 36 51.71 0.998426 -26.74 157 22 47.951 +45 21 31.61 0.002378 9.49 179.66 0.39
29 3 2006 10 48 0.00 159 4 47.879 +45 52 21.74 0.998427 -26.74 158 42 59.598 +45 38 1.21 0.002378 9.40 179.65 0.40
29 3 2006 10 52 0.00 160 28 26.880 +46 6 54.87 0.998428 -26.74 160 3 56.234 +45 53 37.43 0.002378 9.30 179.64 0.42
29 3 2006 10 56 0.00 161 52 47.499 +46 20 30.11 0.998428 -26.74 161 25 36.122 +46 8 19.27 0.002378 9.18 179.63 0.44
29 3 2006 11 0 0.00 163 17 47.492 +46 33 6.49 0.998429 -26.74 162 47 57.353 +46 22 5.78 0.002378 9.05 179.61 0.45
29 3 2006 11 4 0.00 164 43 24.441 +46 44 43.11 0.998430 -26.74 164 10 57.854 +46 34 56.03 0.002378 8.91 179.59 0.47
29 3 2006 11 8 0.00 166 9 35.764 +46 55 19.12 0.998430 -26.74 165 34 35.384 +46 46 49.17 0.002378 8.77 179.58 0.49
29 3 2006 11 12 0.00 167 36 18.715 +47 4 53.73 0.998431 -26.74 166 58 47.552 +46 57 44.36 0.002378 8.62 179.56 0.51
29 3 2006 11 16 0.00 169 3 30.399 +47 13 26.22 0.998432 -26.74 168 23 31.806 +47 7 40.86 0.002378 8.48 179.54 0.54
29 3 2006 11 20 0.00 170 31 7.780 +47 20 55.94 0.998432 -26.74 169 48 45.455 +47 16 37.96 0.002378 8.33 179.51 0.56
29 3 2006 11 24 0.00 171 59 7.693 +47 27 22.31 0.998433 -26.74 171 14 25.670 +47 24 35.01 0.002378 8.19 179.49 0.58
29 3 2006 11 28 0.00 173 27 26.861 +47 32 44.82 0.998434 -26.74 172 40 29.499 +47 31 31.45 0.002378 8.04 179.47 0.61
29 3 2006 11 32 0.00 174 56 1.906 +47 37 3.05 0.998435 -26.74 174 6 53.875 +47 37 26.78 0.002378 7.90 179.45 0.63
29 3 2006 11 36 0.00 176 24 49.368 +47 40 16.66 0.998436 -26.74 175 33 35.635 +47 42 20.56 0.002378 7.77 179.42 0.65
29 3 2006 11 40 0.00 177 53 45.721 +47 42 25.39 0.998436 -26.74 177 0 31.528 +47 46 12.44 0.002378 7.63 179.40 0.68
#
# > Format des donnees : (1x,I2,1x,I2,1x,I5,1x,I2,1x,I2,1x,I2,1x,F5.2,2x,I3,1x,I2,1x,F6.3,1x,A1,I2.2,1x,I2,1x,F5.2,2x,F9.6,2x,F6.2,2x,F6.2,3x,F6.2)
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Temps sidéral à l'Observatoire de Lyon (Saint Genis Laval)

* * Temps sidéral pour la Longitude E 4°47.1 * *

Date				Temps			Temps sidéral Greenwich			Local Apparent					
Date	Julienne	Ann.	Mo. Da	h	m	s	Apparent			Moyen			Temps sidéral		
							h	m	s	h	m	s	h	m	s
2453823.87500	2006	Mar	29	9	00	00	21	26	30.5681	21	26	30.6628	21	45	39.0881
2453823.87778	2006	Mar	29	9	04	00	21	30	31.2252	21	30	31.3199	21	49	39.7452
2453823.88056	2006	Mar	29	9	08	00	21	34	31.8822	21	34	31.9770	21	53	40.4022
2453823.88333	2006	Mar	29	9	12	00	21	38	32.5393	21	38	32.6341	21	57	41.0593
2453823.88611	2006	Mar	29	9	16	00	21	42	33.1964	21	42	33.2912	22	01	41.7164
2453823.88889	2006	Mar	29	9	20	00	21	46	33.8534	21	46	33.9482	22	05	42.3734
2453823.89167	2006	Mar	29	9	24	00	21	50	34.5105	21	50	34.6053	22	09	43.0305
2453823.89444	2006	Mar	29	9	28	00	21	54	35.1675	21	54	35.2624	22	13	43.6875
2453823.89722	2006	Mar	29	9	32	00	21	58	35.8246	21	58	35.9195	22	17	44.3446
2453823.90000	2006	Mar	29	9	36	00	22	02	36.4817	22	02	36.5766	22	21	45.0017
2453823.90278	2006	Mar	29	9	40	00	22	06	37.1387	22	06	37.2337	22	25	45.6587
2453823.90556	2006	Mar	29	9	44	00	22	10	37.7958	22	10	37.8907	22	29	46.3158
2453823.90833	2006	Mar	29	9	48	00	22	14	38.4528	22	14	38.5478	22	33	46.9728
2453823.91111	2006	Mar	29	9	52	00	22	18	39.1099	22	18	39.2049	22	37	47.6299
2453823.91389	2006	Mar	29	9	56	00	22	22	39.7670	22	22	39.8620	22	41	48.2870
2453823.91667	2006	Mar	29	10	00	00	22	26	40.4240	22	26	40.5191	22	45	48.9440
2453823.91944	2006	Mar	29	10	04	00	22	30	41.0811	22	30	41.1762	22	49	49.6011
2453823.92222	2006	Mar	29	10	08	00	22	34	41.7381	22	34	41.8332	22	53	50.2581
2453823.92500	2006	Mar	29	10	12	00	22	38	42.3952	22	38	42.4903	22	57	50.9152
2453823.92778	2006	Mar	29	10	16	00	22	42	43.0522	22	42	43.1474	23	01	51.5722
2453823.93056	2006	Mar	29	10	20	00	22	46	43.7093	22	46	43.8045	23	05	52.2293
2453823.93333	2006	Mar	29	10	24	00	22	50	44.3664	22	50	44.4616	23	09	52.8864
2453823.93611	2006	Mar	29	10	28	00	22	54	45.0234	22	54	45.1187	23	13	53.5434
2453823.93889	2006	Mar	29	10	32	00	22	58	45.6805	22	58	45.7757	23	17	54.2005
2453823.94167	2006	Mar	29	10	36	00	23	02	46.3375	23	02	46.4328	23	21	54.8575
2453823.94444	2006	Mar	29	10	40	00	23	06	46.9946	23	06	47.0899	23	25	55.5146
2453823.94722	2006	Mar	29	10	44	00	23	10	47.6517	23	10	47.7470	23	29	56.1717
2453823.95000	2006	Mar	29	10	48	00	23	14	48.3087	23	14	48.4041	23	33	56.8287
2453823.95278	2006	Mar	29	10	52	00	23	18	48.9658	23	18	49.0612	23	37	57.4858
2453823.95556	2006	Mar	29	10	56	00	23	22	49.6228	23	22	49.7182	23	41	58.1428
2453823.95833	2006	Mar	29	11	00	00	23	26	50.2799	23	26	50.3753	23	45	58.7999
2453823.96111	2006	Mar	29	11	04	00	23	30	50.9370	23	30	51.0324	23	49	59.4570
2453823.96389	2006	Mar	29	11	08	00	23	34	51.5940	23	34	51.6895	23	54	00.1140
2453823.96667	2006	Mar	29	11	12	00	23	38	52.2511	23	38	52.3466	23	58	00.7711
2453823.96944	2006	Mar	29	11	16	00	23	42	52.9081	23	42	53.0037	0	02	01.4281
2453823.97222	2006	Mar	29	11	20	00	23	46	53.5652	23	46	53.6608	0	06	02.0852
2453823.97500	2006	Mar	29	11	24	00	23	50	54.2223	23	50	54.3178	0	10	02.7423
2453823.97778	2006	Mar	29	11	28	00	23	54	54.8793	23	54	54.9749	0	14	03.3993
2453823.98056	2006	Mar	29	11	32	00	23	58	55.5364	23	58	55.6320	0	18	04.0564
2453823.98333	2006	Mar	29	11	36	00	0	02	56.1934	0	02	56.2891	0	22	04.7134
2453823.98611	2006	Mar	29	11	40	00	0	06	56.8505	0	06	56.9462	0	26	05.3705