

Total Solar Eclipse of -1374 May 03

Ecliptic Conjunction = 13:44:11.3 TD (= 04:42:56.3 UT)

Greatest Eclipse = 13:52:19.2 TD (= 04:51:04.1 UT)

Eclipse Magnitude = 1.0295 Gamma = 0.7755

Saros Series = 16 Member = 61 of 85

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h47m42.6s

Dec. = +11°19'29.1"

S.D. = 00°15'43.3"

H.P. = 00°00'08.6"

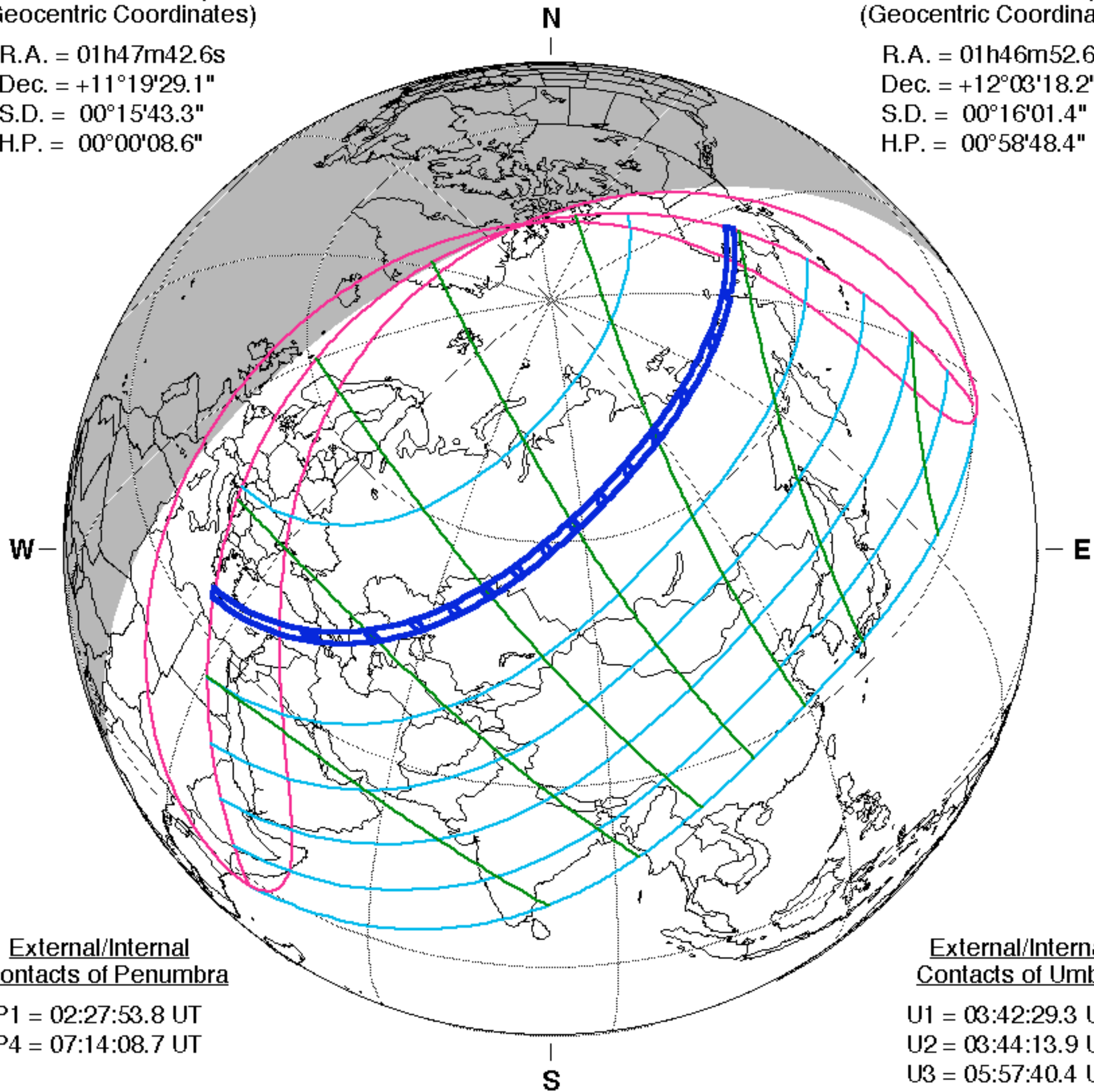
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h46m52.6s

Dec. = +12°03'18.2"

S.D. = 00°16'01.4"

H.P. = 00°58'48.4"



External/Internal Contacts of Penumbra

P1 = 02:27:53.8 UT

P4 = 07:14:08.7 UT

External/Internal Contacts of Umbra

U1 = 03:42:29.3 UT

U2 = 03:44:13.9 UT

U3 = 05:57:40.4 UT

U4 = 05:59:20.0 UT

Local Circumstances at Greatest Eclipse

Lat. = 59°14.6'N

Sun Alt. = 38.8°

Long. = 082°01.2'E

Sun Azm. = 149.3°

Path Width = 157.8 km Duration = 02m06.5s

Constants & Ephemeris

$\Delta T = 32475.1$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

$\Delta b = 0.0''$ $\Delta l = 0.0''$

Eph. = VSOP87/ELP2000-82

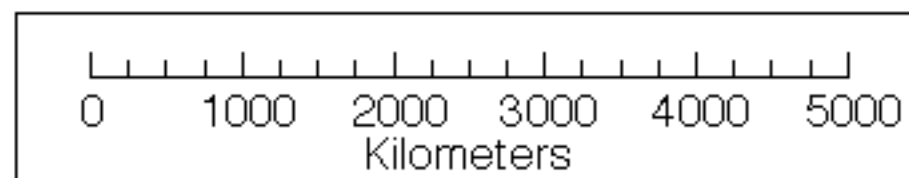
Geocentric Libration (Optical + Physical)

$l = 4.63^\circ$

$b = -0.90^\circ$

$c = -22.68^\circ$

Brown Lun. No. = -40774



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eclipse.gsfc.nasa.gov/eclipse.html