# Total Lunar Eclipse of 2054 Feb 22

Ecliptic Conjunction = 06:48:06.6 TD ( = 06:46:25.2 UT )
Greatest Eclipse = 06:51:27.0 TD ( = 06:49:45.7 UT )

Penumbral Magnitude = 2.2491 P. Radius = 1.2996° Gamma = -0.3242
Umbral Magnitude = 1.2769 U. Radius = 0.7605° Axis = 0.3298°

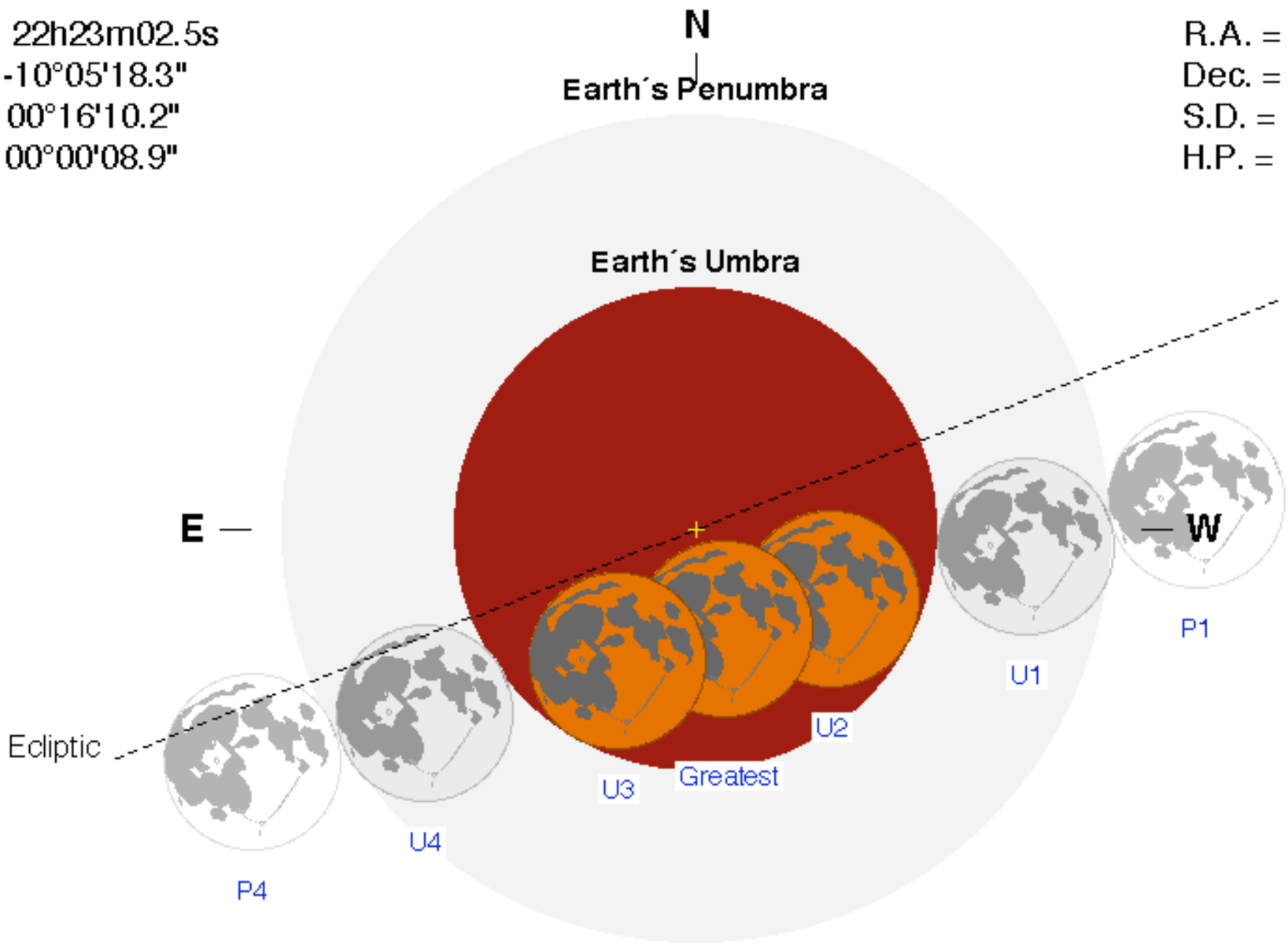
Saros Series = 124 Member = 51 of 74

<u>Sun at Greatest Eclipse</u>
(Geocentric Coordinates)

R.A. = 22h23m02.5s
Dec. = -10°05'18.3"
S.D. = 00°16'10.2"
H.P. = 00°00'08.9"

<u>Moon at Greatest Eclipse</u>
(Geocentric Coordinates)

R.A. = 10h22m40.9s
Dec. = +09°46'14.7"
S.D. = 00°16'38.0"
H.P. = 01°01'02.7"




<u>Eclipse Durations</u>

Penumbral = 05h14m45s
Umbral = 03h20m53s
Total = 01h12m08s

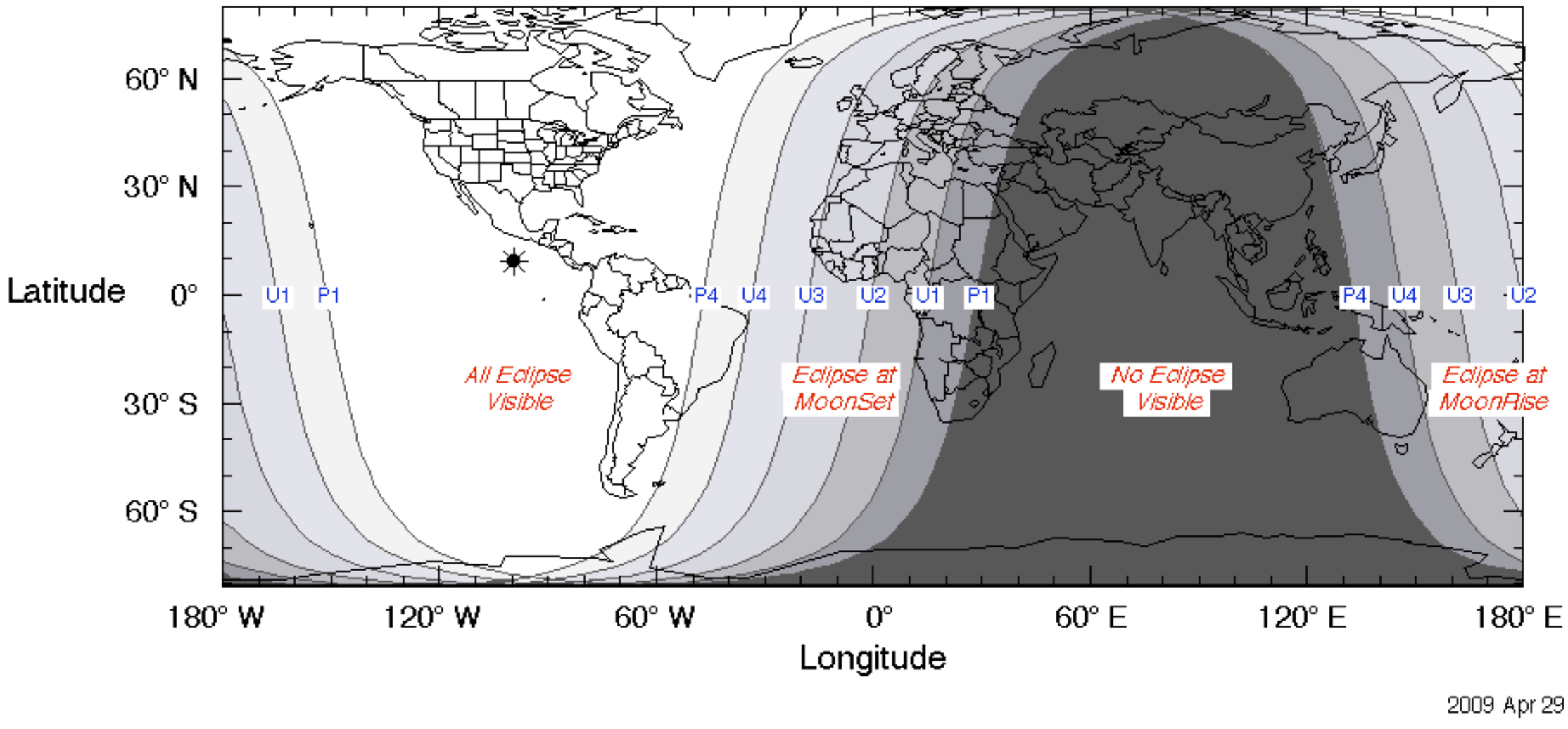
ΔT = 101 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

*F. Espenak, NASA's GSFC*
eclipse.gsfc.nasa.gov/eclipse.html

<u>Eclipse Contacts</u>

P1 = 04:12:25 UT
U1 = 05:09:19 UT
U2 = 06:13:41 UT
U3 = 07:25:49 UT
U4 = 08:30:12 UT
P4 = 09:27:09 UT




2009 Apr 29