# Partial Lunar Eclipse of 2052 Oct 08

Ecliptic Conjunction = 10:56:01.2 TD ( = 10:54:22.7 UT )
Greatest Eclipse = 10:45:57.5 TD ( = 10:44:19.0 UT )

Penumbral Magnitude = 1.0642 P. Radius = 1.2763° Gamma = -0.9726
Umbral Magnitude = 0.0821 U. Radius = 0.7426° Axis = 0.9697°

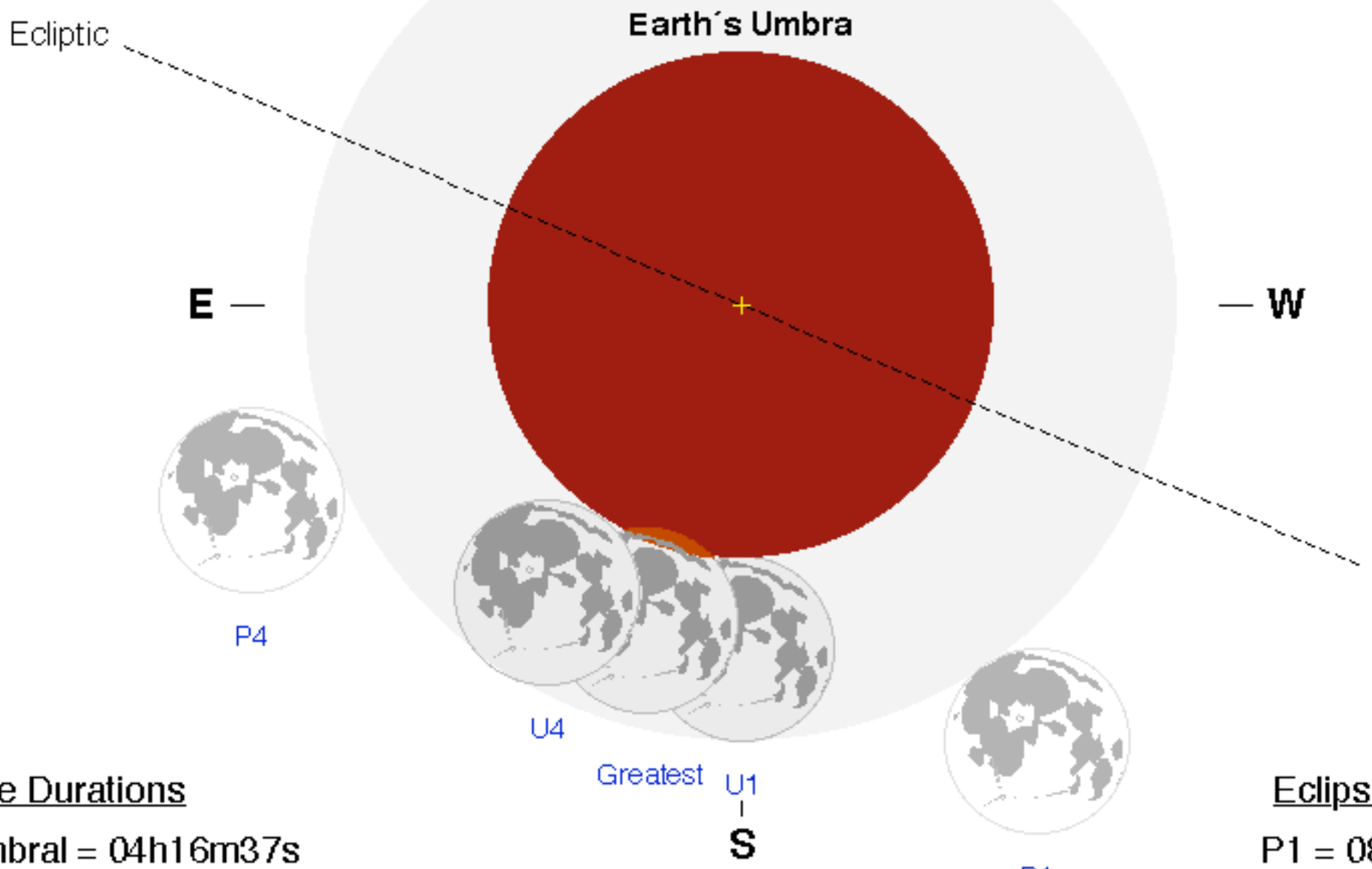
Saros Series = 147 Member = 11 of 71

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

R.A. = 12h58m28.0s
Dec. = -06°14'27.7"
S.D. = 00°16'00.5"
H.P. = 00°00'08.8"

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

R.A. = 00h59m36.6s
Dec. = +05°18'49.9"
S.D. = 00°16'18.0"
H.P. = 00°59'49.3"




<u>Eclipse Durations</u>

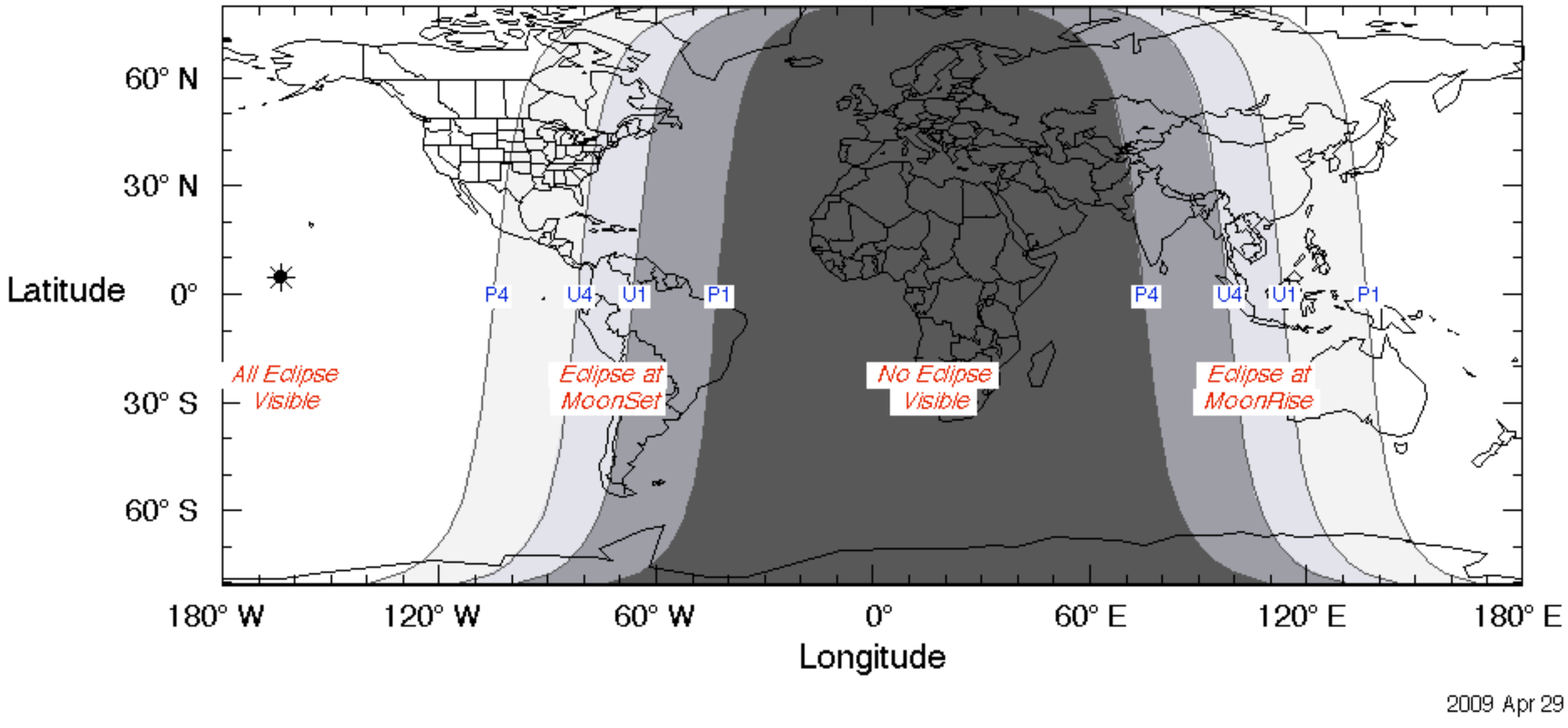
Penumbral = 04h16m37s
Umbral = 01h03m16s

<u>Eclipse Contacts</u>

P1 = 08:36:02 UT
U1 = 10:12:46 UT
U4 = 11:16:02 UT
P4 = 12:52:38 UT

ΔT = 99 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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




2009 Apr 29