Partial Lunar Eclipse of 2009 Dec 31

Ecliptic Conjunction = 19:13:51.2 TD (= 19:12:44.5 UT)
Greatest Eclipse = 19:23:45.9 TD (= 19:22:39.2 UT)

Penumbral Magnitude = 1.0556 P. Radius = 1.2997° Gamma = 0.9765
Umbral Magnitude = 0.0763 U. Radius = 0.7575° Axis = 0.9921°

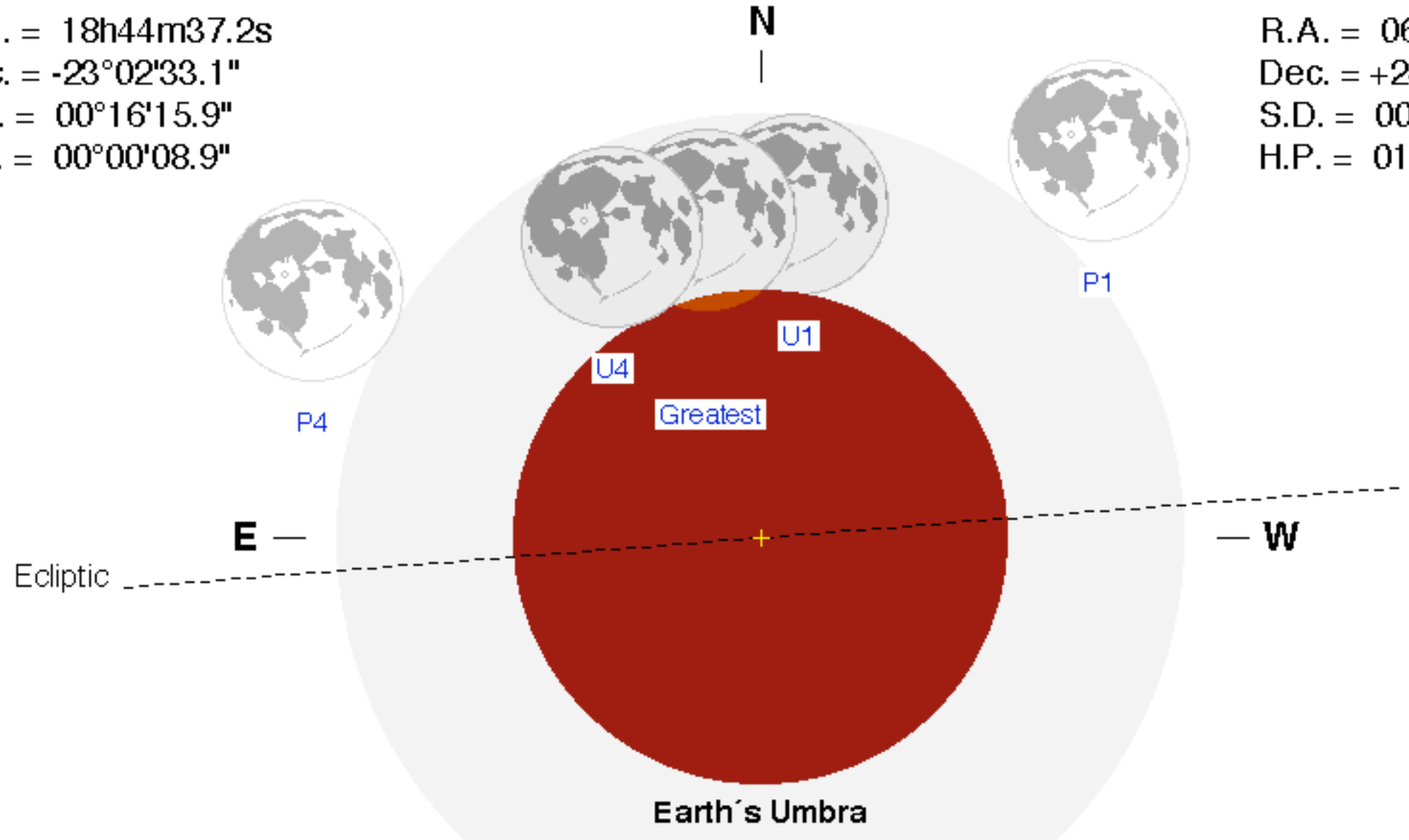
Saros Series = 115 Member = 57 of 72

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

R.A. = 18h44m37.2s
Dec. = -23°02'33.1"
S.D. = 00°16'15.9"
H.P. = 00°00'08.9"

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

R.A. = 06h45m22.4s
Dec. = +24°01'10.4"
S.D. = 00°16'36.6"
H.P. = 01°00'57.6"



<u>Eclipse Durations</u>

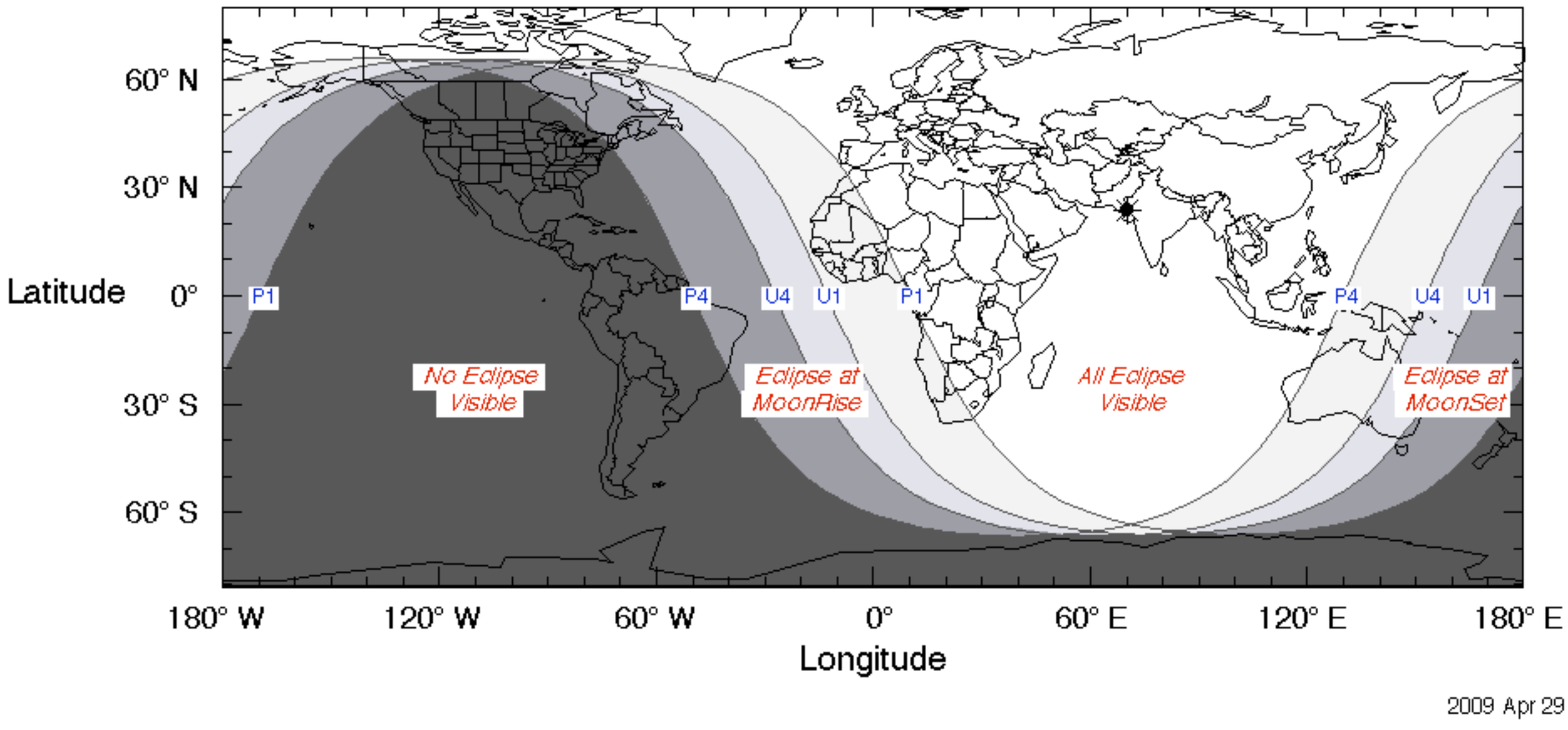
Penumbral = 04h11m03s
Umbral = 00h59m58s

ΔT = 67 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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

<u>Eclipse Contacts</u>

P1 = 17:17:08 UT
U1 = 18:52:43 UT
U4 = 19:52:41 UT
P4 = 21:28:11 UT



2009 Apr 29