Penumbral Lunar Eclipse of 2042 Sep 29

Ecliptic Conjunction = 10:35:31.0 TD (= 10:34:04.2 UT)
Greatest Eclipse = 10:45:46.5 TD (= 10:44:19.7 UT)

Penumbral Magnitude = 0.9528 P. Radius = 1.3004° Gamma = -1.0261
Umbral Magnitude = -0.0031 U. Radius = 0.7682° Axis = 1.0483°

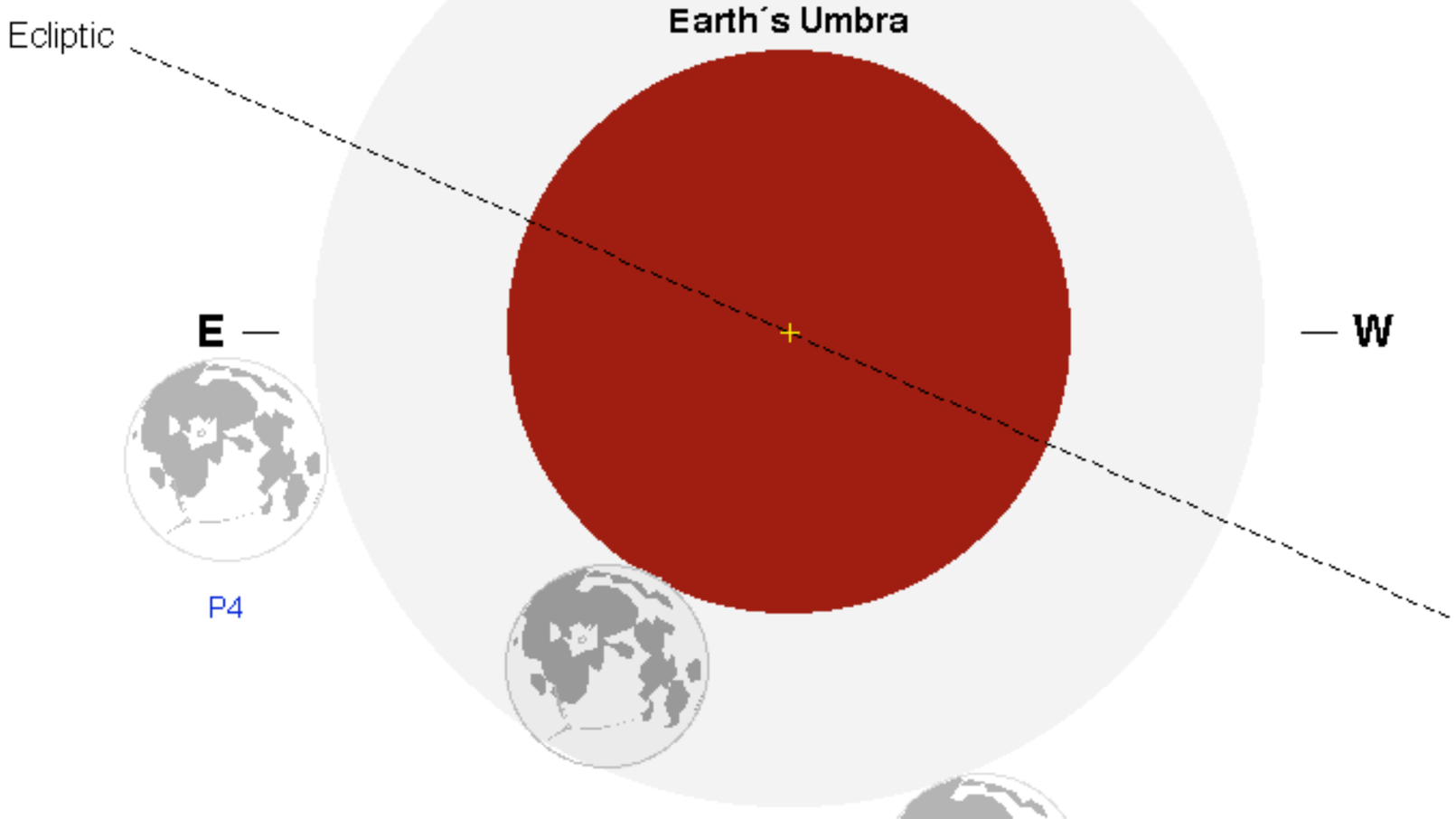
Saros Series = 118 Member = 53 of 74

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

R.A. = 12h23m37.3s
Dec. = -02°33'13.5"
S.D. = 00°15'57.9"
H.P. = 00°00'08.8"

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

R.A. = 00h25m38.7s
Dec. = +01°38'07.1"
S.D. = 00°16'42.1"
H.P. = 01°01'17.9"



<u>Eclipse Durations</u>

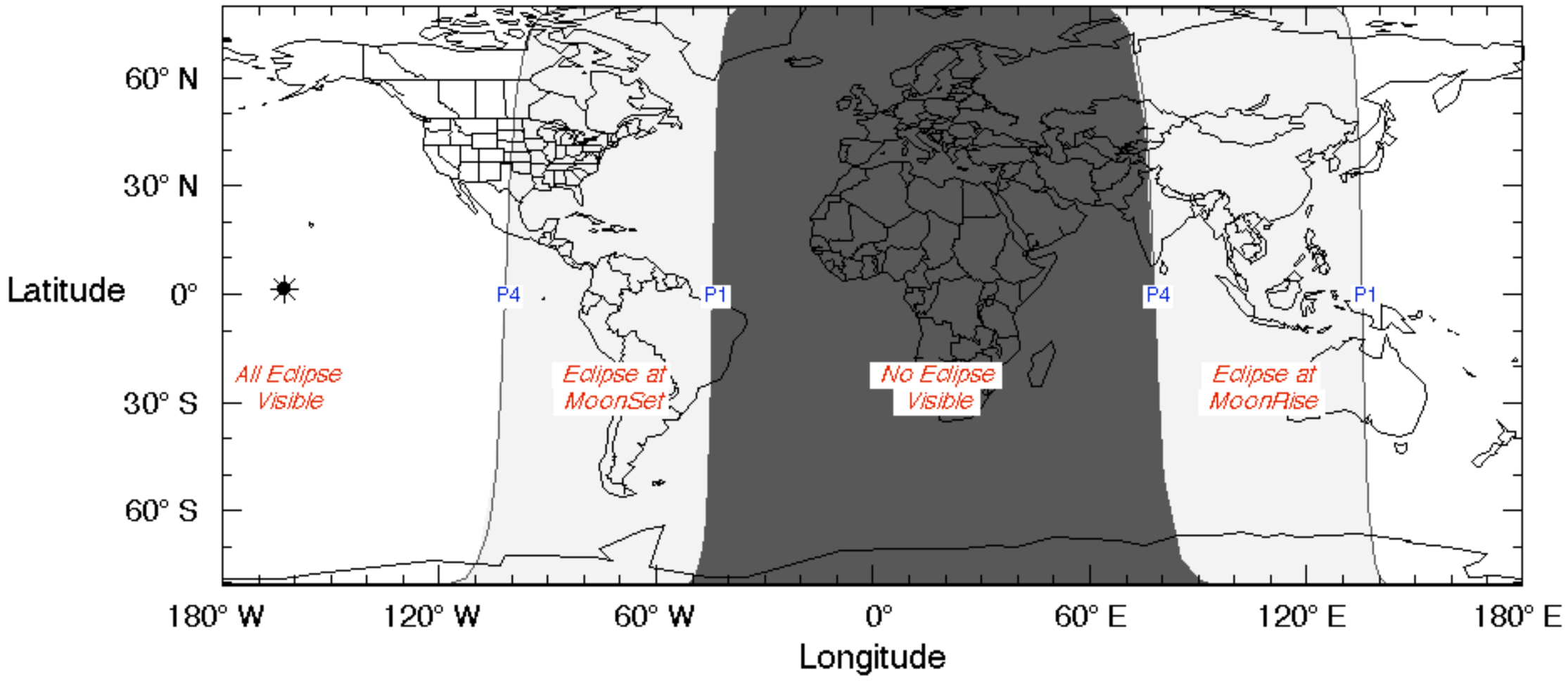
Penumbral = 03h58m32s

<u>Eclipse Contacts</u>

P1 = 08:45:03 UT
P4 = 12:43:35 UT

ΔT = 87 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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



2009 Apr 29