Penumbral Lunar Eclipse of 2070 Apr 25

Ecliptic Conjunction = 09:33:09.5 TD (= 09:30:54.0 UT)
Greatest Eclipse = 09:21:24.1 TD (= 09:19:08.6 UT)

Penumbral Magnitude = 1.0515 P. Radius = 1.1836° Gamma = 1.0044
Umbral Magnitude = -0.0209 U. Radius = 0.6535° Axis = 0.9109°

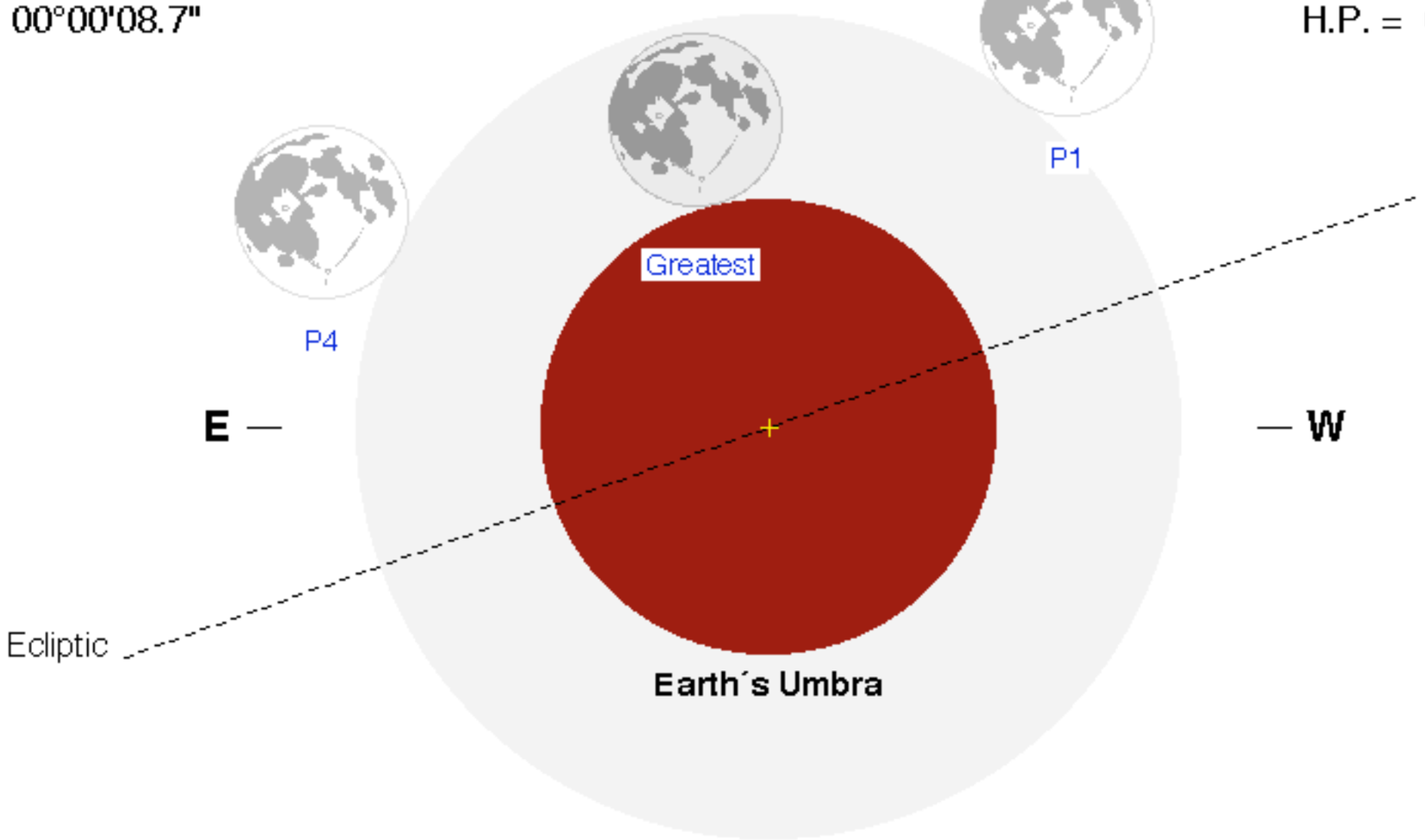
Saros Series = 142 Member = 21 of 74

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

R.A. = 02h12m57.7s
Dec. = +13°21'41.5"
S.D. = 00°15'54.1"
H.P. = 00°00'08.7"

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

R.A. = 14h13m51.0s
Dec. = -12°28'35.7"
S.D. = 00°14'49.7"
H.P. = 00°54'25.3"



<u>Eclipse Durations</u>

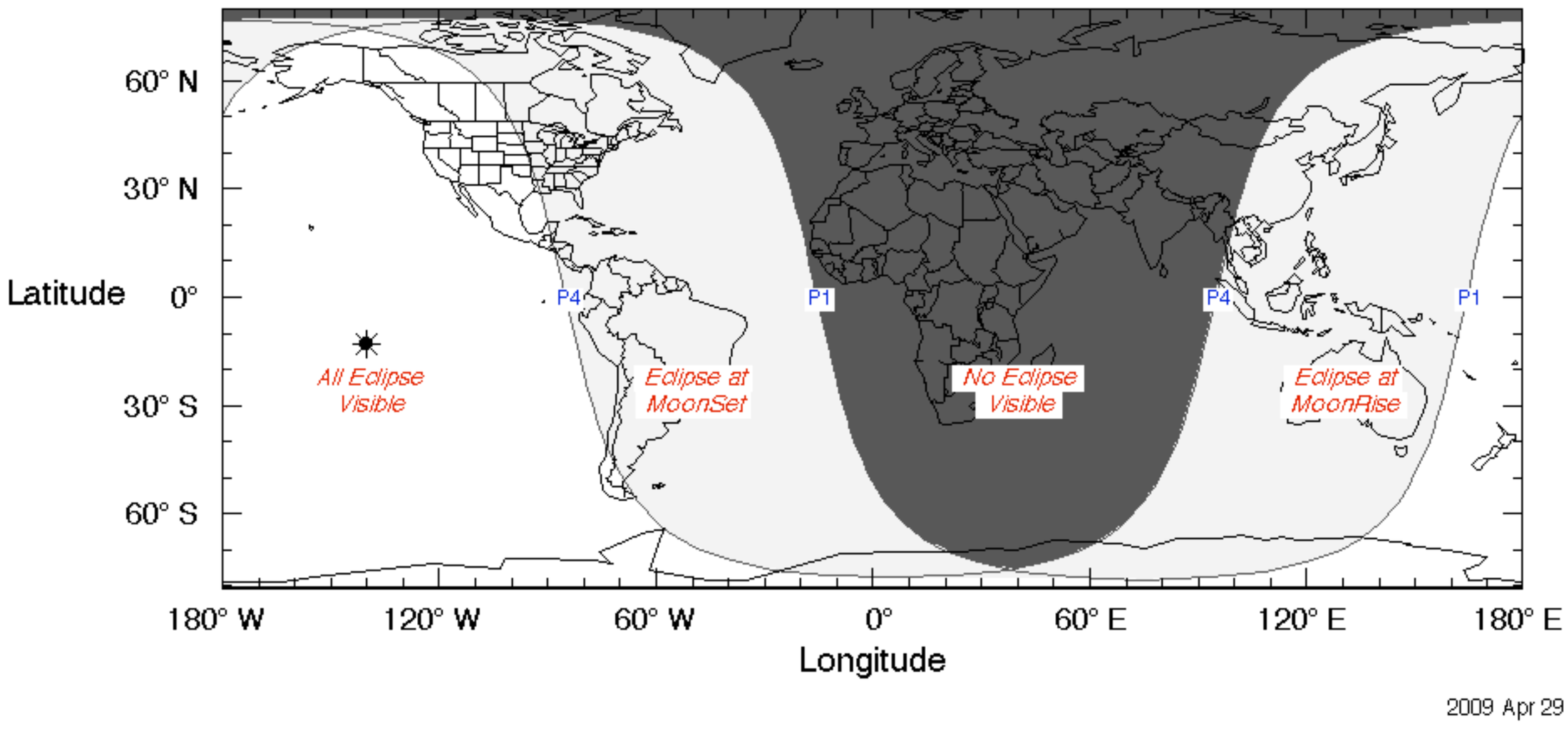
Penumbral = 04h46m55s

<u>Eclipse Contacts</u>

P1 = 06:55:39 UT
P4 = 11:42:34 UT

ΔT = 135 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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



2009 Apr 29