Penumbral Lunar Eclipse of 2031 Jun 05

Ecliptic Conjunction = 11:59:42.5 TD (= 11:58:24.0 UT)
Greatest Eclipse = 11:45:17.3 TD (= 11:43:58.8 UT)

Penumbral Magnitude = 0.1292 P. Radius = 1.2913° Gamma = 1.4731
Umbral Magnitude = -0.8199 U. Radius = 0.7659° Axis = 1.4967°

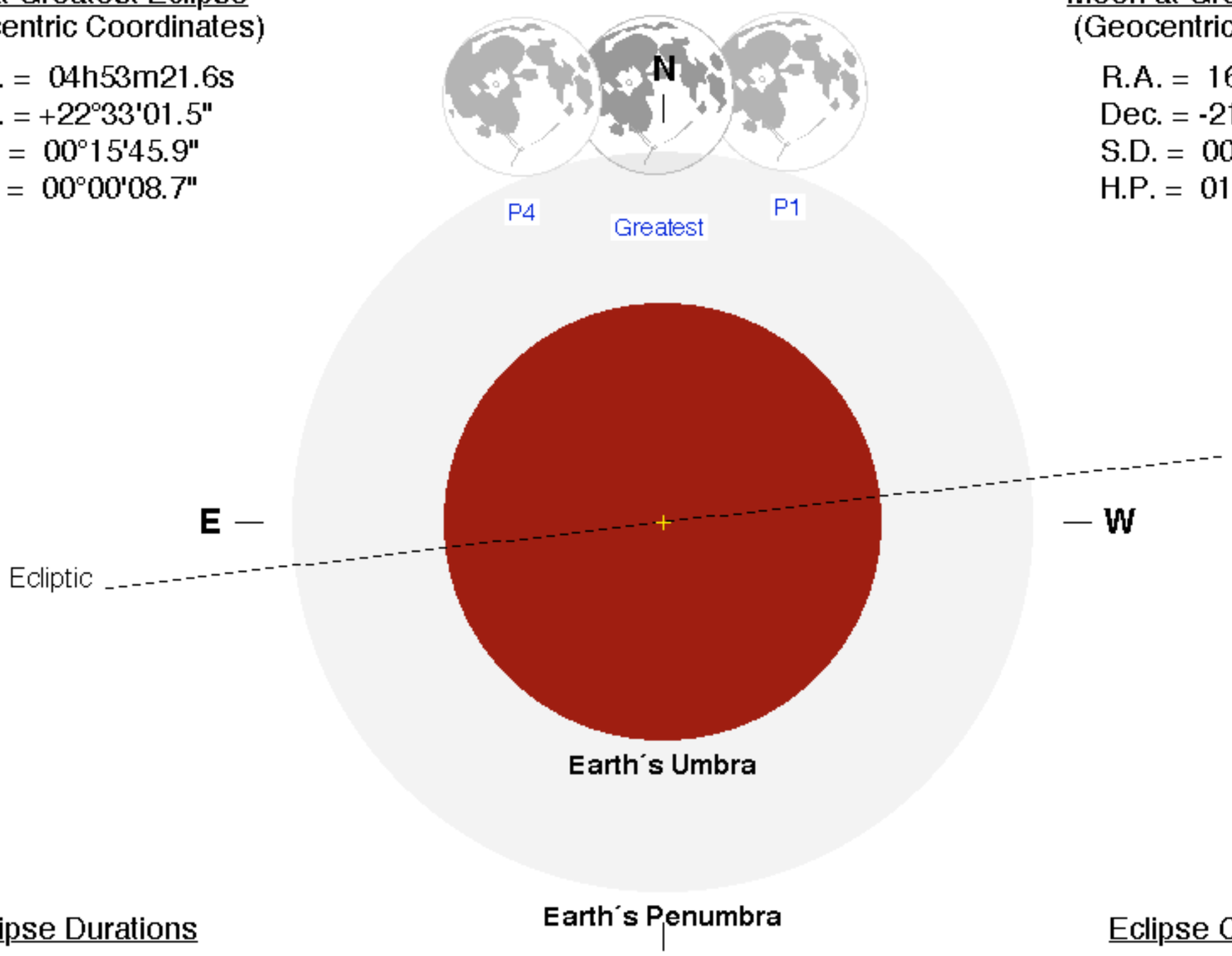
Saros Series = 150 Member = 2 of 71

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

R.A. = 04h53m21.6s
Dec. = +22°33'01.5"
S.D. = 00°15'45.9"
H.P. = 00°00'08.7"

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

R.A. = 16h53m29.4s
Dec. = -21°03'14.0"
S.D. = 00°16'36.6"
H.P. = 01°00'57.7"



<u>Eclipse Durations</u>

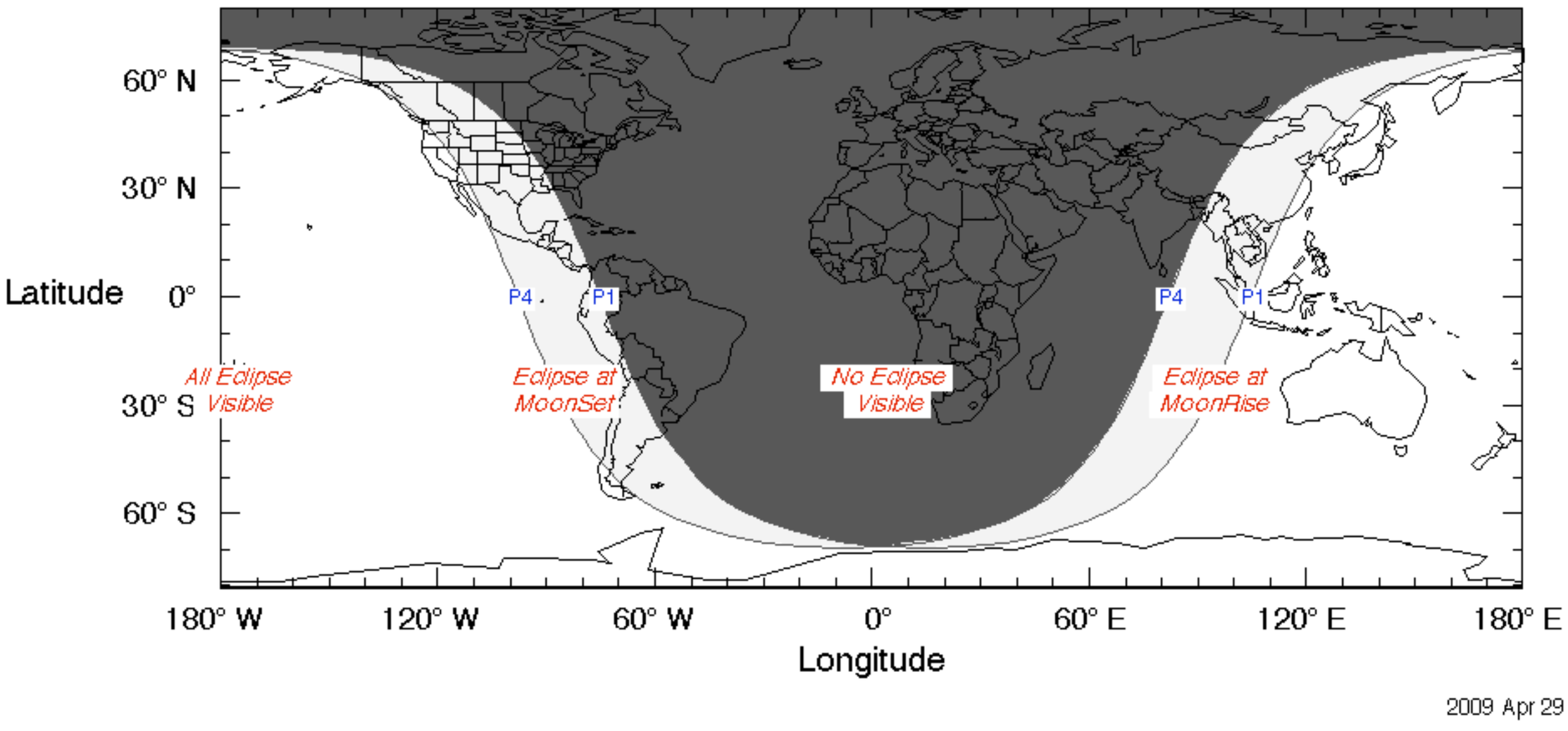
Penumbral = 01h35m33s

<u>Eclipse Contacts</u>

P1 = 10:56:16 UT
P4 = 12:31:49 UT

ΔT = 78 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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



2009 Apr 29