Partial Lunar Eclipse of 2046 Jan 22

Ecliptic Conjunction = 12:52:33.2 TD (= 12:51:03.7 UT)
Greatest Eclipse = 13:02:36.6 TD (= 13:01:07.1 UT)

Penumbral Magnitude = 1.0347 P. Radius = 1.2962° Gamma = 0.9885
Umbral Magnitude = 0.0532 U. Radius = 0.7545° Axis = 1.0011°

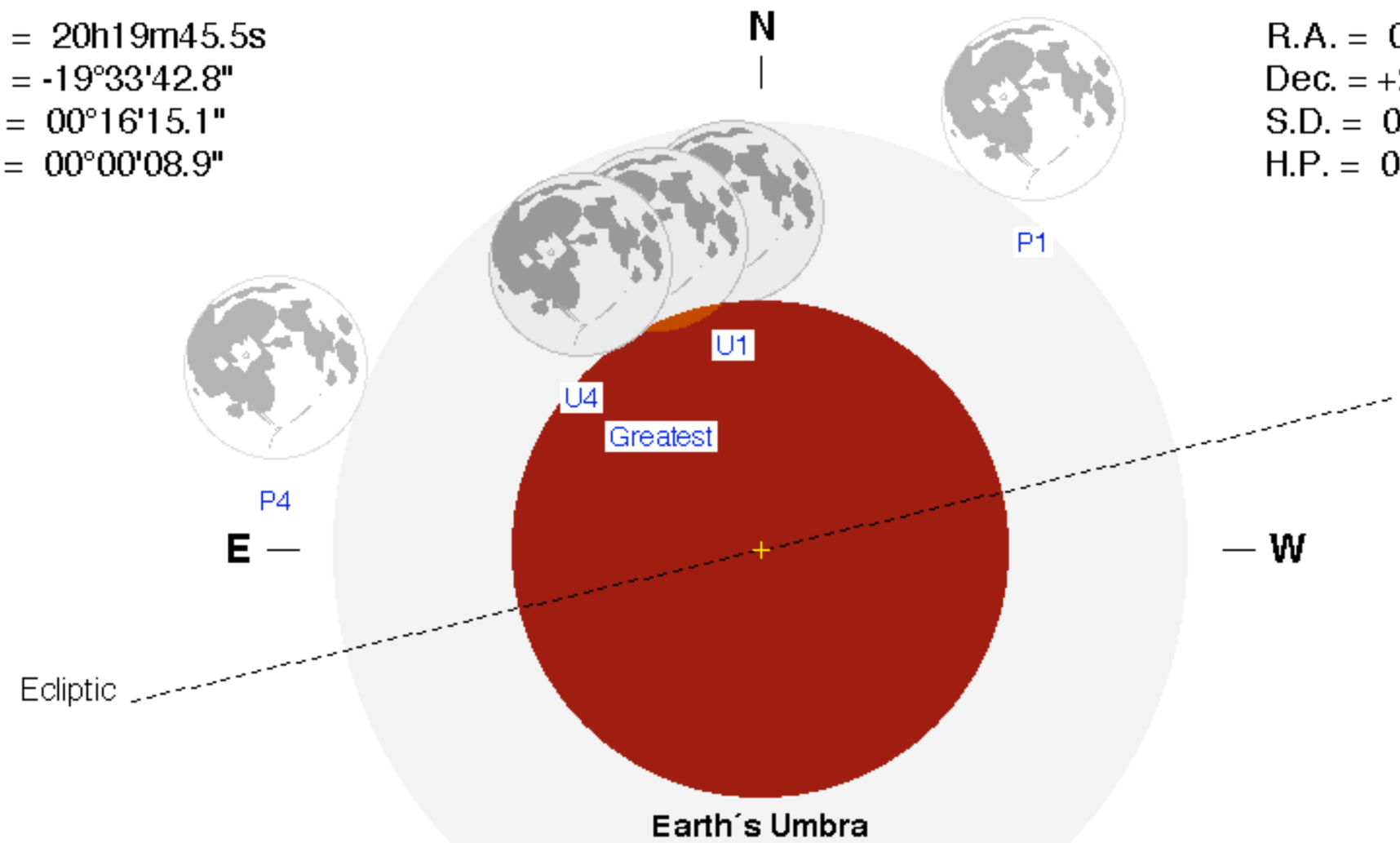
Saros Series = 115 Member = 59 of 72

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

R.A. = 20h19m45.5s
Dec. = -19°33'42.8"
S.D. = 00°16'15.1"
H.P. = 00°00'08.9"

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

R.A. = 08h21m07.9s
Dec. = +20°30'34.9"
S.D. = 00°16'33.4"
H.P. = 01°00'46.0"



<u>Eclipse Durations</u>

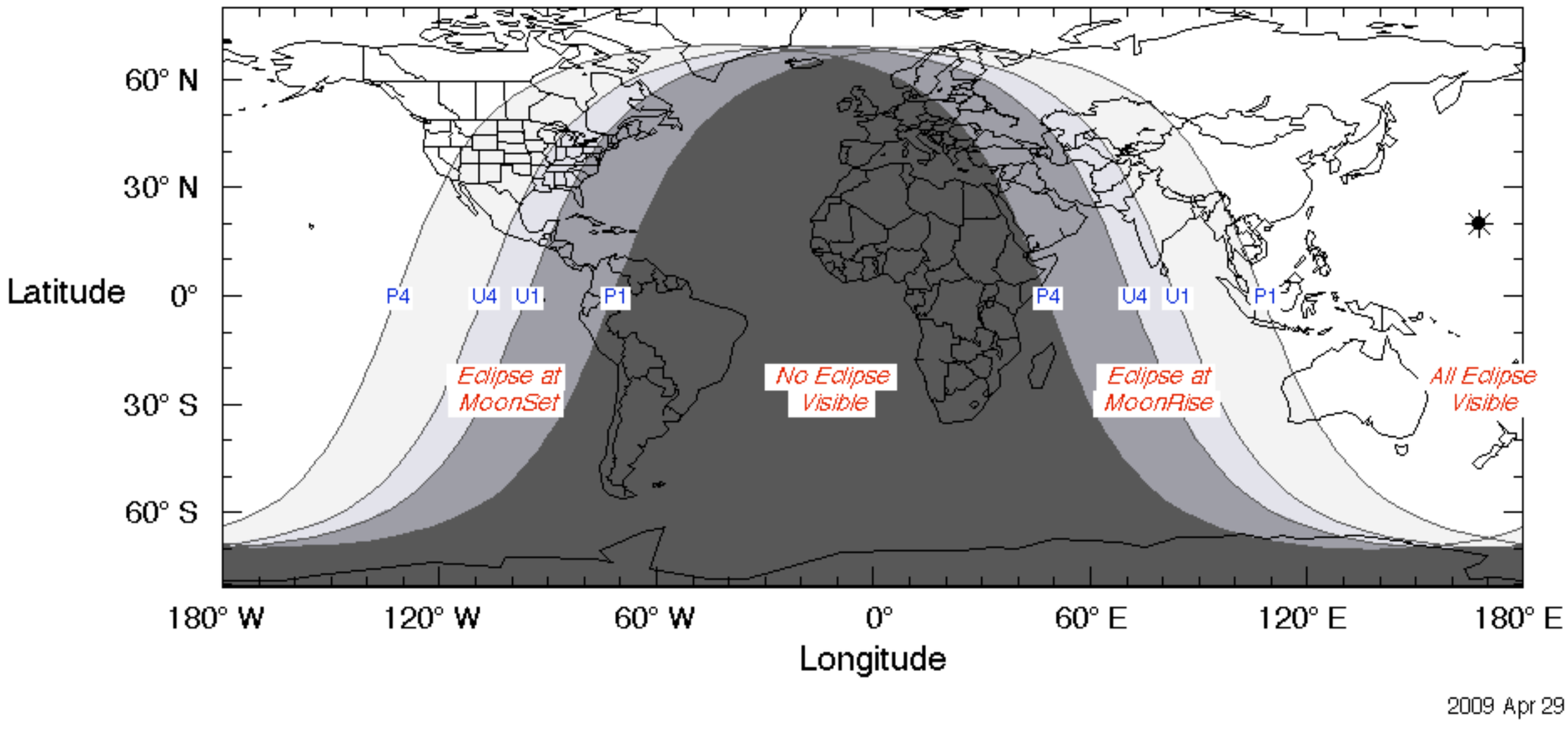
Penumbral = 04h10m01s
Umbral = 00h50m23s

ΔT = 90 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

<u>Eclipse Contacts</u>

P1 = 10:56:07 UT
U1 = 12:35:59 UT
U4 = 13:26:22 UT
P4 = 15:06:08 UT

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



2009 Apr 29