Total Lunar Eclipse of 2004 Oct 28

Ecliptic Conjunction = 03:08:27.1 TD (= 03:07:22.4 UT)
Greatest Eclipse = 03:05:11.3 TD (= 03:04:06.7 UT)

Penumbral Magnitude = 2.3637 P. Radius = 1.2130° Gamma = 0.2846
Umbral Magnitude = 1.3081 U. Radius = 0.6764° Axis = 0.2655°

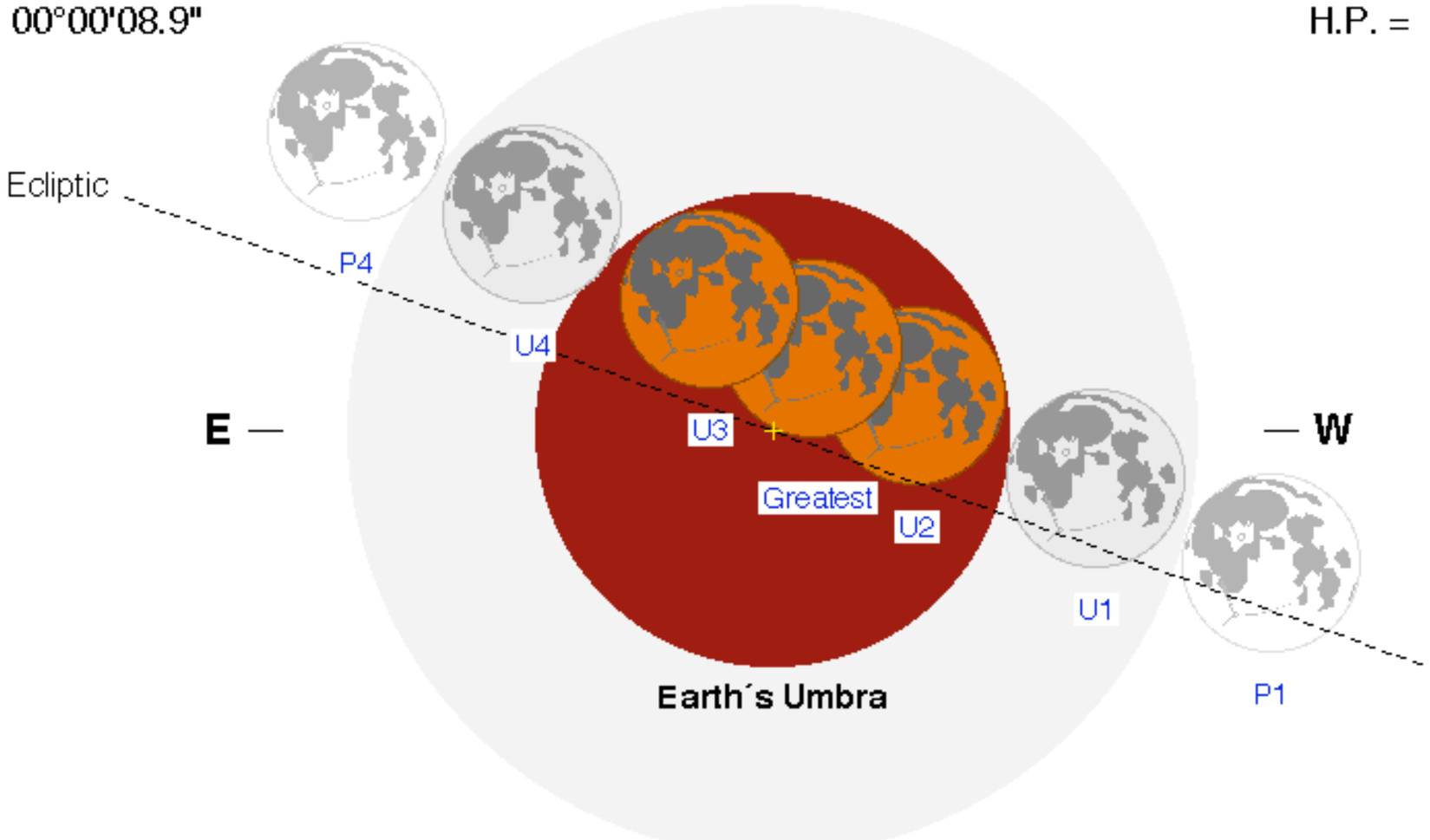
Saros Series = 136 Member = 19 of 72

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

R.A. = 14h11m00.6s
Dec. = -13°12'05.3"
S.D. = 00°16'06.0"
H.P. = 00°00'08.9"

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

R.A. = 02h10m32.6s
Dec. = +13°26'29.6"
S.D. = 00°15'15.1"
H.P. = 00°55'58.4"



<u>Eclipse Durations</u>

Penumbral = 05h53m46s
Umbral = 03h38m40s
Total = 01h20m29s

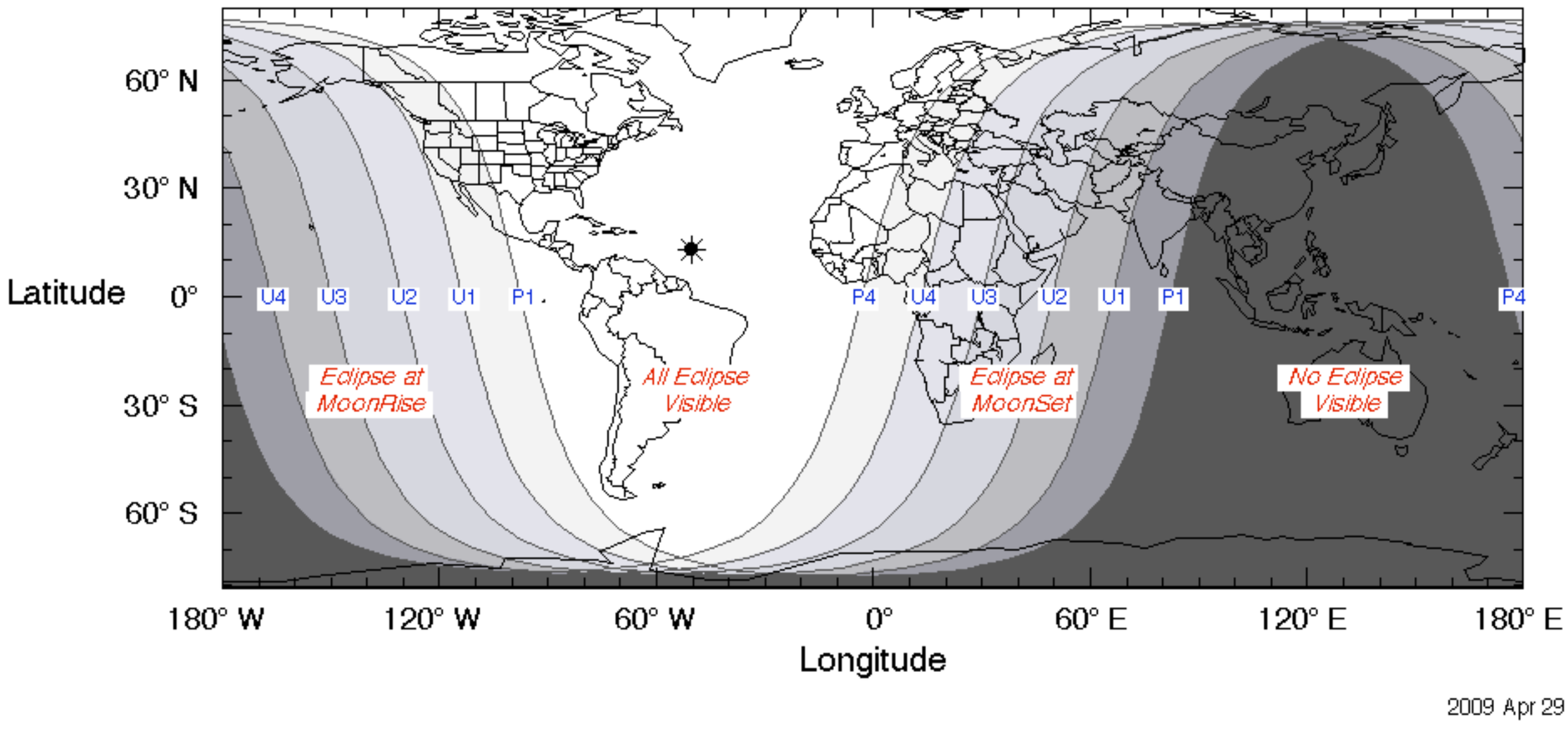
ΔT = 65 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

<u>Eclipse Contacts</u>

P1 = 00:07:17 UT
U1 = 01:14:45 UT
U2 = 02:23:51 UT
U3 = 03:44:20 UT
U4 = 04:53:26 UT
P4 = 06:01:03 UT



2009 Apr 29