Total Lunar Eclipse of 2098 Oct 10

Ecliptic Conjunction = 09:23:09.2 TD (= 09:19:49.6 UT)
Greatest Eclipse = 09:19:58.3 TD (= 09:16:38.7 UT)

Penumbral Magnitude = 2.3831 P. Radius = 1.2039° Gamma = 0.2749
Umbral Magnitude = 1.3246 U. Radius = 0.6702° Axis = 0.2543°

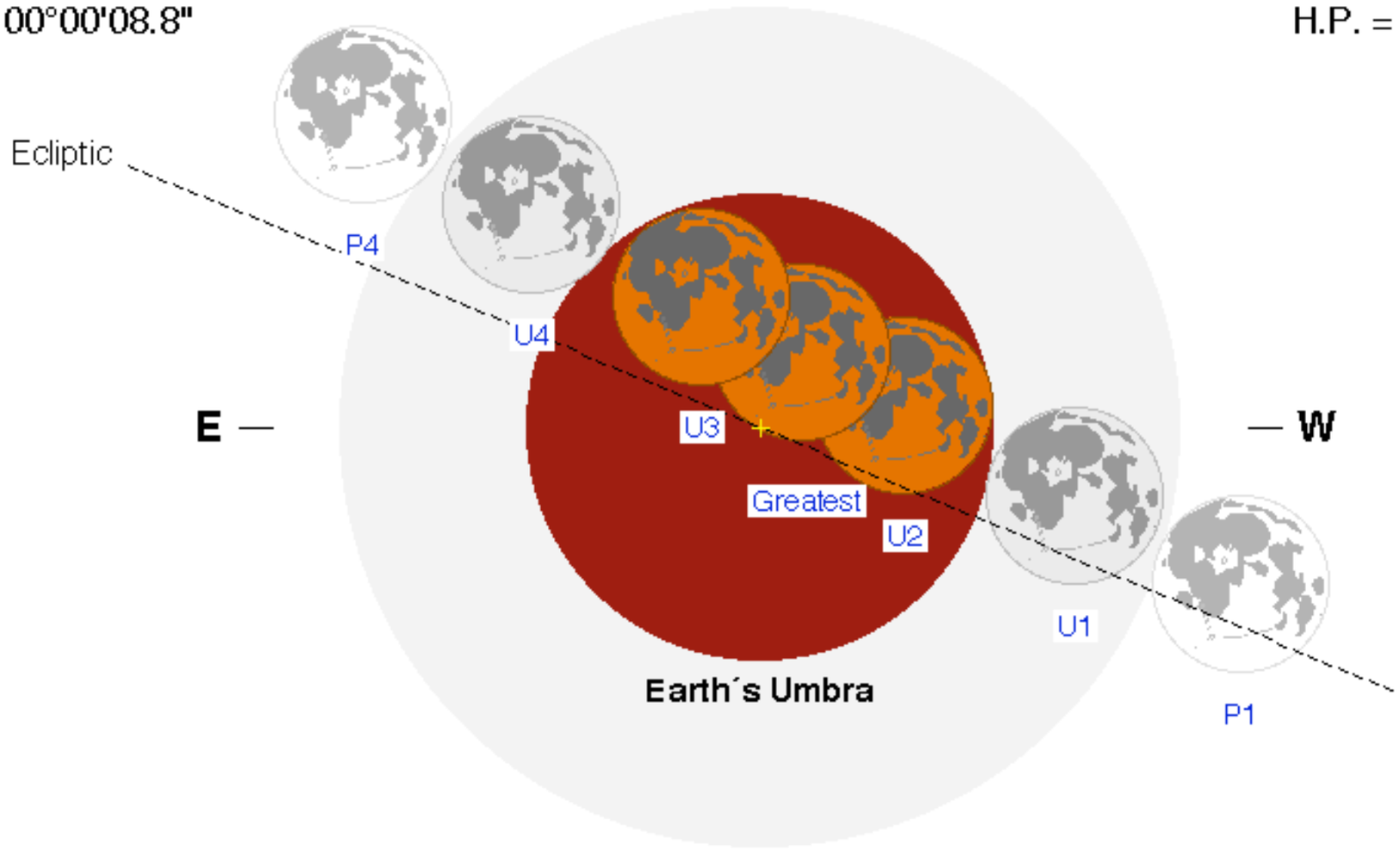
Saros Series = 138 Member = 34 of 83

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

R.A. = 13h05m04.7s
Dec. = -06°55'18.8"
S.D. = 00°16'00.8"
H.P. = 00°00'08.8"

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

R.A. = 01h04m35.6s
Dec. = +07°08'46.0"
S.D. = 00°15'07.7"
H.P. = 00°55'31.3"



<u>Eclipse Durations</u>

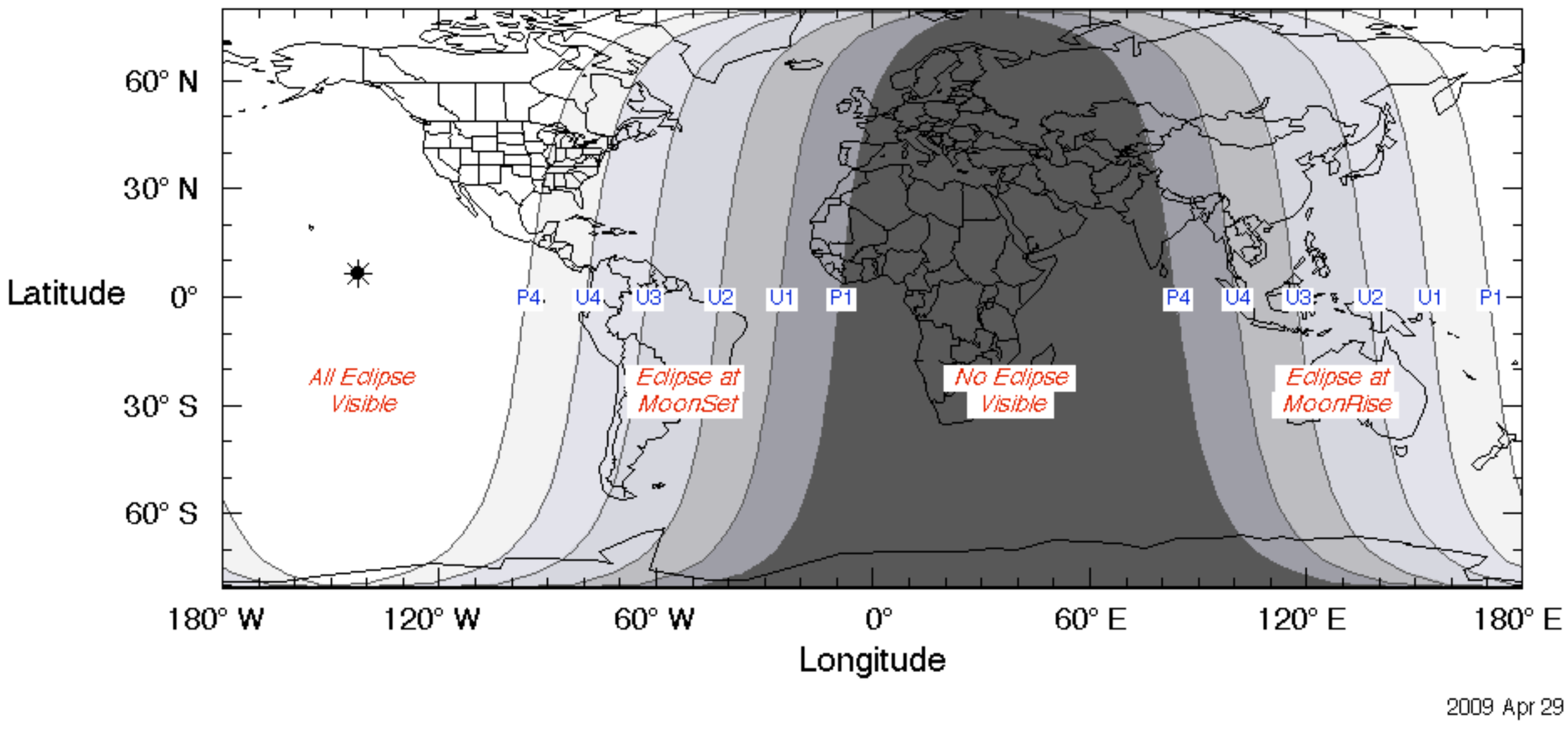
Penumbral = 05h57m24s
Umbral = 03h41m01s
Total = 01h22m43s

ΔT = 200 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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

<u>Eclipse Contacts</u>

P1 = 06:17:55 UT
U1 = 07:26:09 UT
U2 = 08:35:18 UT
U3 = 09:58:01 UT
U4 = 11:07:11 UT
P4 = 12:15:19 UT



2009 Apr 29