Total Lunar Eclipse of 1982 Dec 30

Ecliptic Conjunction = 11:33:28.3 TD (= 11:32:35.3 UT)
Greatest Eclipse = 11:29:37.3 TD (= 11:28:44.3 UT)

Penumbral Magnitude = 2.1545 P. Radius = 1.3071° Gamma = 0.3758
Umbral Magnitude = 1.1822 U. Radius = 0.7649° Axis = 0.3845°

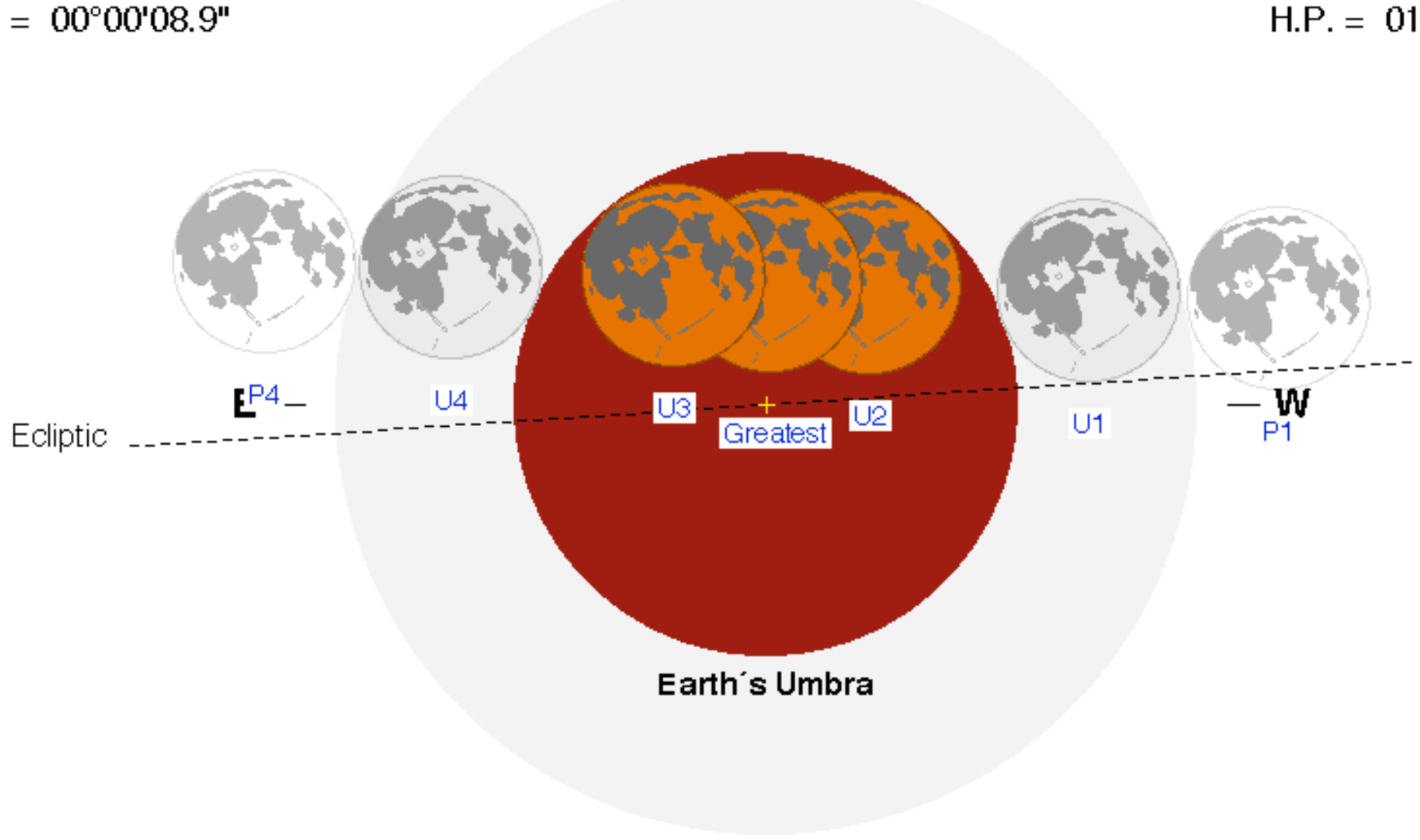
Saros Series = 134 Member = 25 of 73

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

R.A. = 18h36m44.9s
Dec. = -23°10'20.5"
S.D. = 00°16'15.9"
H.P. = 00°00'08.9"

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

R.A. = 06h36m41.3s
Dec. = +23°33'23.8"
S.D. = 00°16'43.7"
H.P. = 01°01'23.7"



<u>Eclipse Durations</u>

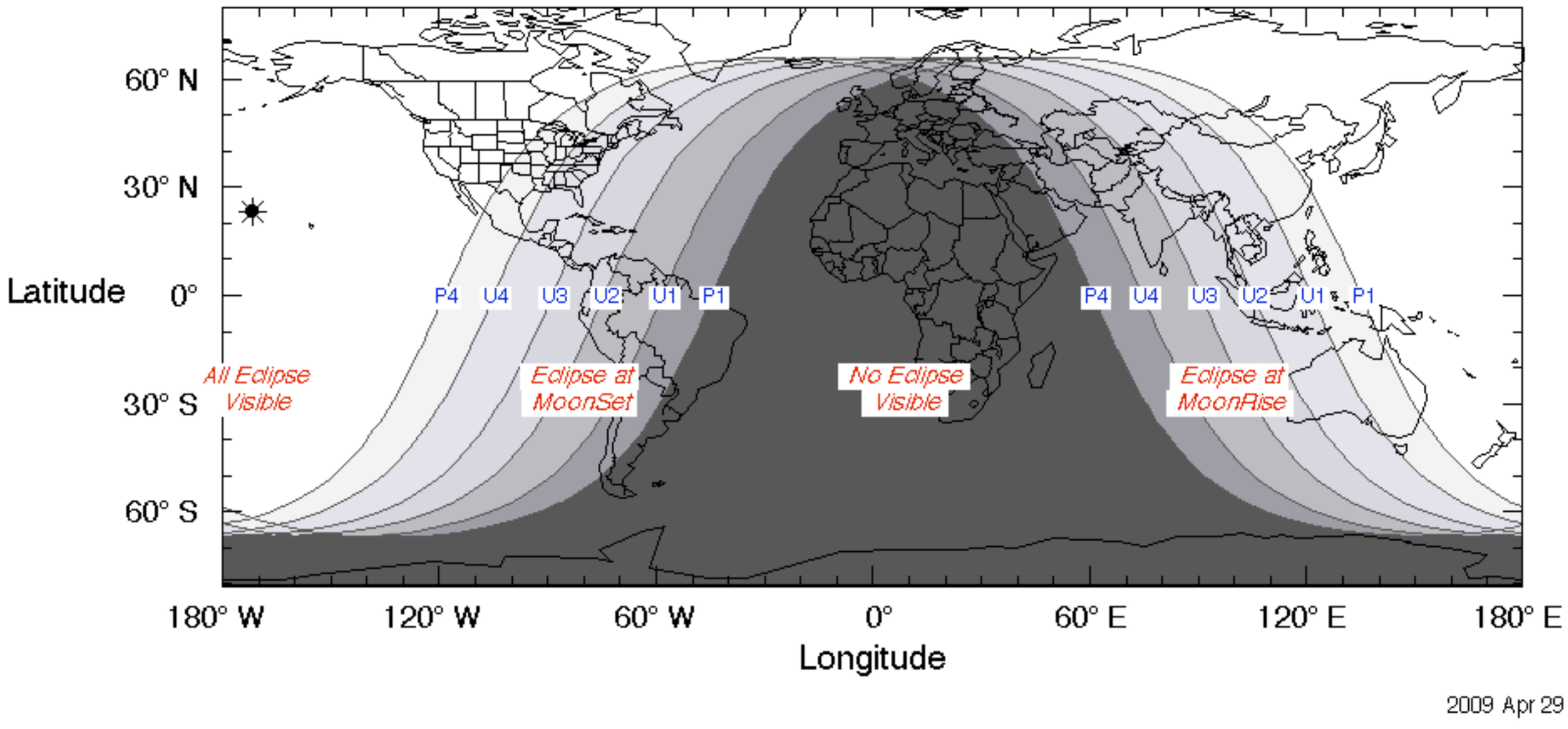
Penumbral = 05h10m34s
Umbral = 03h15m53s
Total = 01h00m03s

ΔT = 53 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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

<u>Eclipse Contacts</u>

P1 = 08:53:27 UT
U1 = 09:50:48 UT
U2 = 10:58:43 UT
U3 = 11:58:46 UT
U4 = 13:06:41 UT
P4 = 14:04:01 UT



2009 Apr 29