Total Lunar Eclipse of 2076 Dec 10

Ecliptic Conjunction = 11:37:14.3 TD (= 11:34:44.3 UT)
Greatest Eclipse = 11:34:51.5 TD (= 11:32:21.5 UT)

Penumbral Magnitude = 2.4990 P. Radius = 1.2260° Gamma = 0.2102
Umbral Magnitude = 1.4460 U. Radius = 0.6847° Axis = 0.1983°

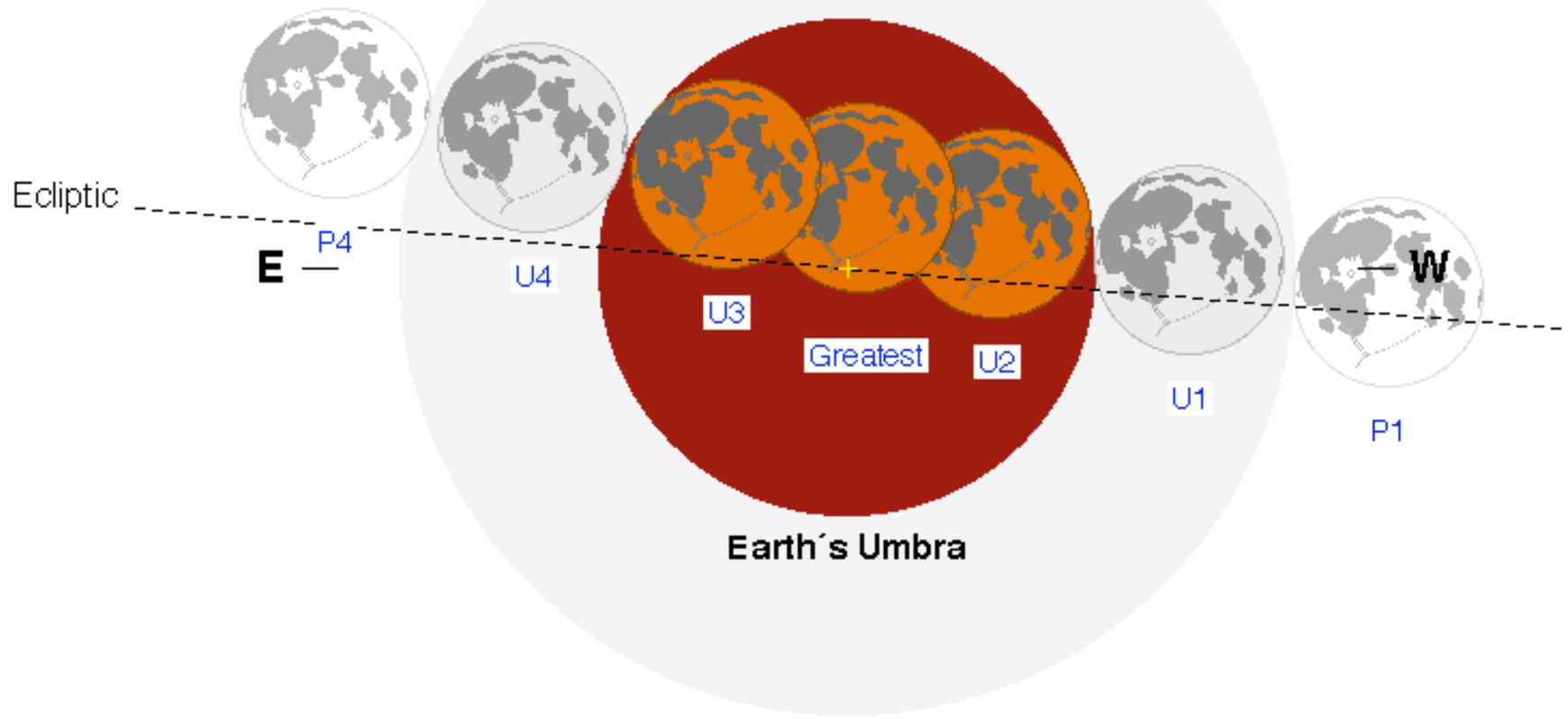
Saros Series = 136 Member = 23 of 72

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

R.A. = 17h13m25.1s
Dec. = -22°59'52.7"
S.D. = 00°16'14.5"
H.P. = 00°00'08.9"

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

R.A. = 05h13m15.9s
Dec. = +23°11'35.0"
S.D. = 00°15'25.4"
H.P. = 00°56'36.4"



<u>Eclipse Durations</u>

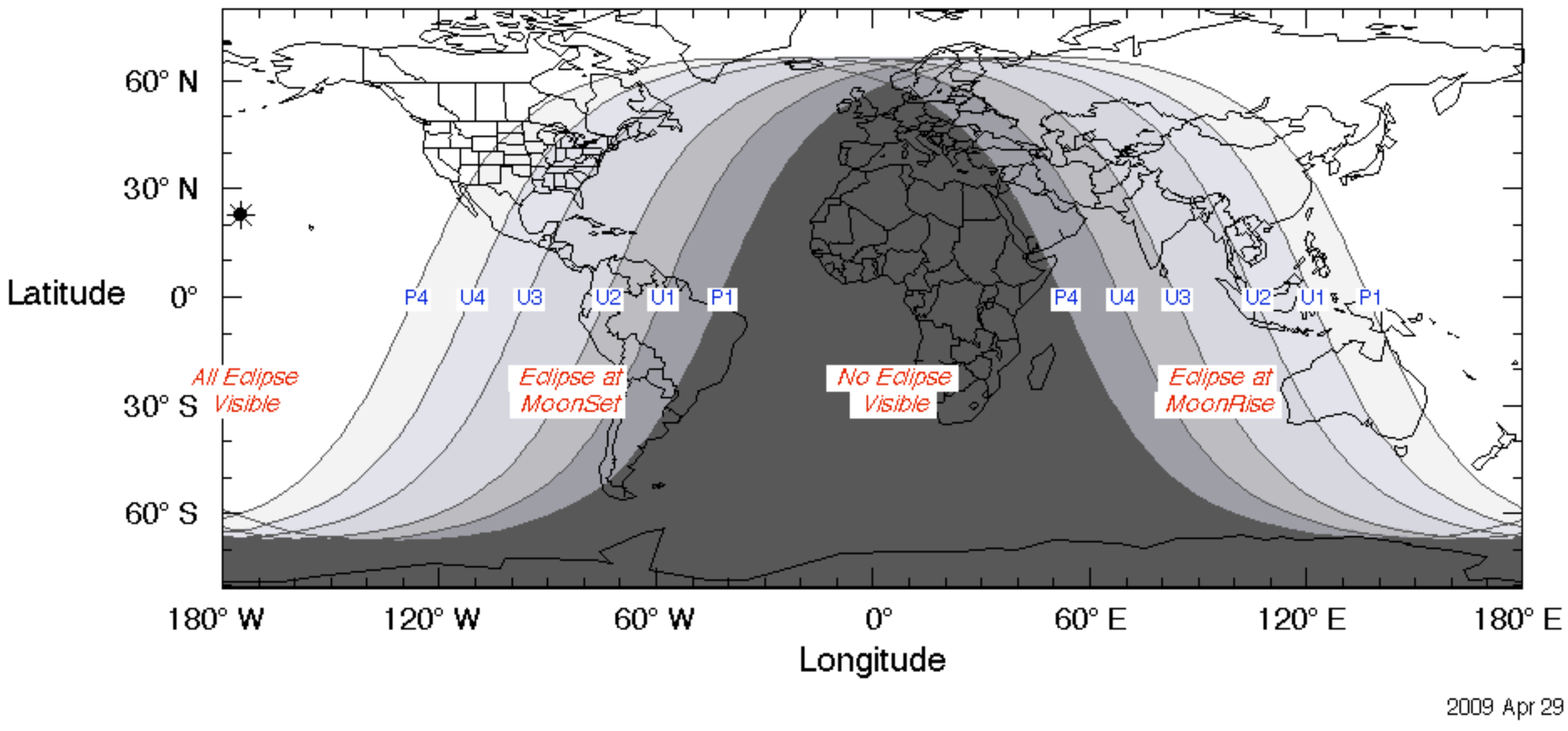
Penumbral = 05h52m10s
Umbral = 03h40m37s
Total = 01h30m47s

ΔT = 150 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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

<u>Eclipse Contacts</u>

P1 = 08:36:20 UT
U1 = 09:42:02 UT
U2 = 10:46:57 UT
U3 = 12:17:44 UT
U4 = 13:22:39 UT
P4 = 14:28:30 UT



2009 Apr 29