Total Lunar Eclipse of 2011 Jun 15

Ecliptic Conjunction = 20:14:41.4 TD (= 20:13:34.1 UT)
Greatest Eclipse = 20:13:43.5 TD (= 20:12:36.2 UT)

Penumbral Magnitude = 2.6868 P. Radius = 1.2504° Gamma = 0.0897
Umbral Magnitude = 1.6999 U. Radius = 0.7256° Axis = 0.0875°

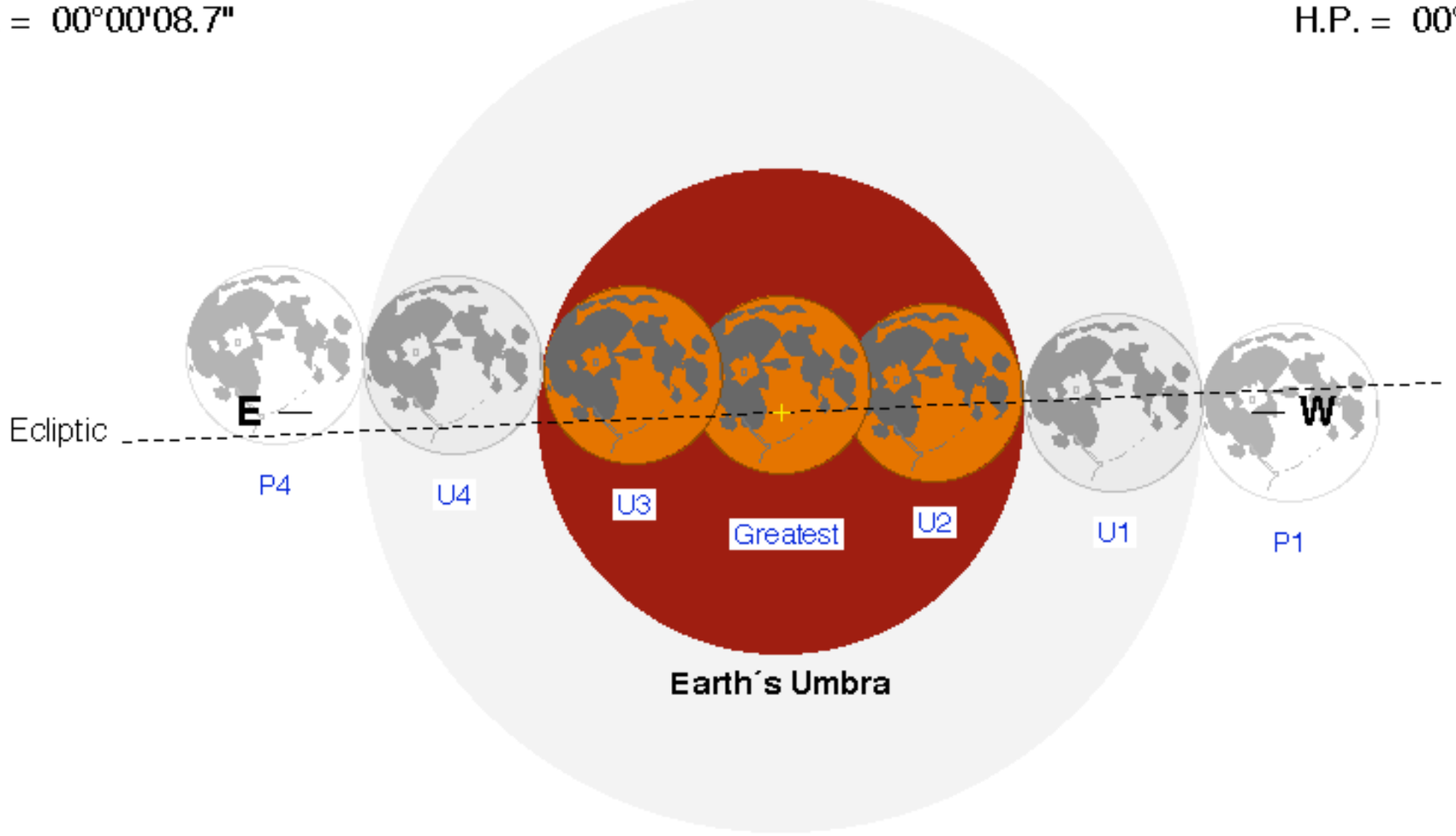
Saros Series = 130 Member = 34 of 72

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

R.A. = 05h35m33.6s
Dec. = +23°19'06.1"
S.D. = 00°15'44.7"
H.P. = 00°00'08.7"

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

R.A. = 17h35m32.3s
Dec. = -23°13'51.6"
S.D. = 00°15'57.2"
H.P. = 00°58'33.0"



<u>Eclipse Durations</u>

Penumbral = 05h36m05s
Umbral = 03h39m17s
Total = 01h40m12s

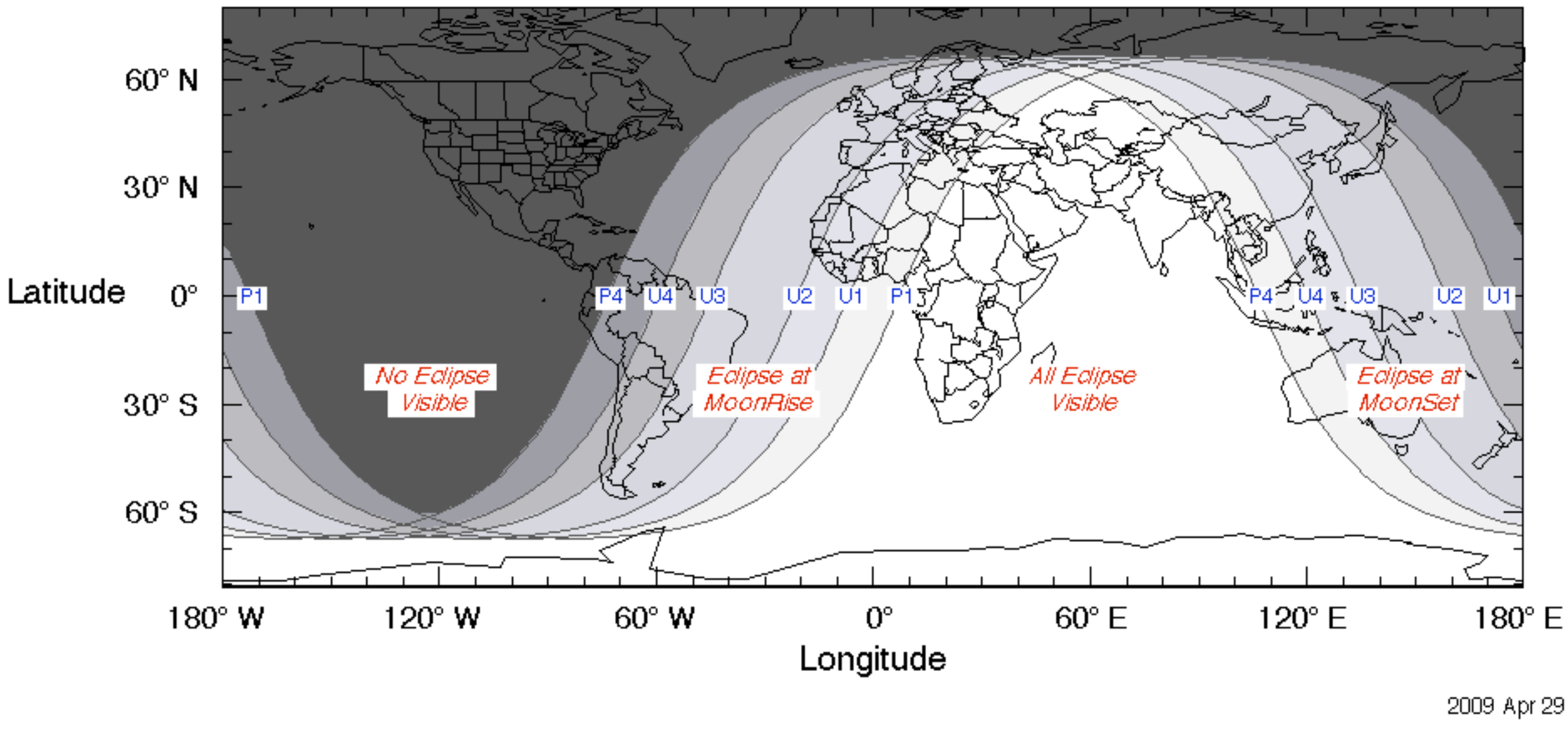
ΔT = 67 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

<u>Eclipse Contacts</u>

P1 = 17:24:37 UT
U1 = 18:22:57 UT
U2 = 19:22:29 UT
U3 = 21:02:42 UT
U4 = 22:02:14 UT
P4 = 23:00:41 UT



2009 Apr 29