Total Lunar Eclipse of 2010 Dec 21

Ecliptic Conjunction = 08:14:33.5 TD (= 08:13:26.5 UT)
Greatest Eclipse = 08:18:04.2 TD (= 08:16:57.1 UT)

Penumbral Magnitude = 2.2807 P. Radius = 1.2538° Gamma = 0.3214
Umbral Magnitude = 1.2561 U. Radius = 0.7118° Axis = 0.3119°

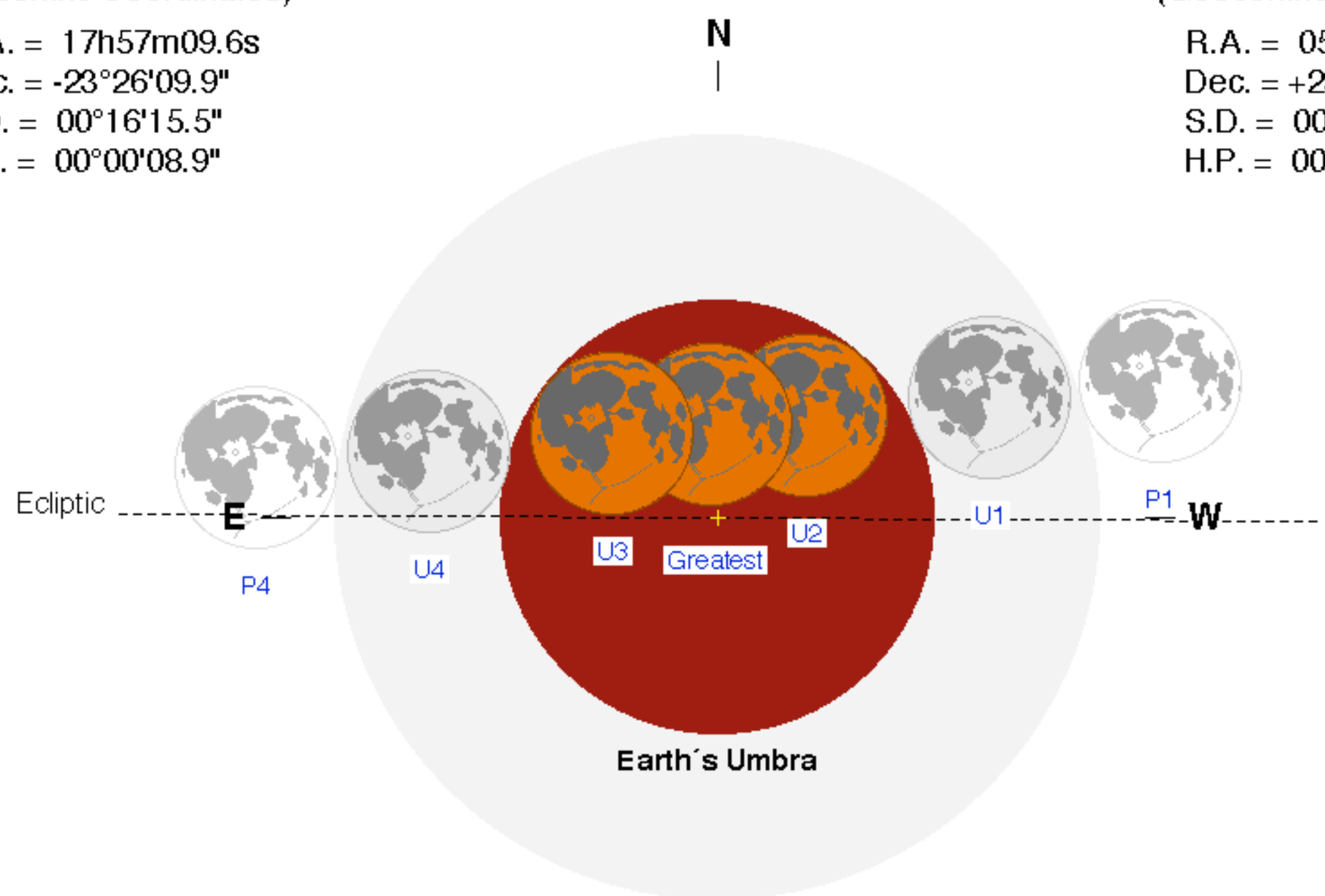
Saros Series = 125 Member = 48 of 72

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 17h57m09.6s
Dec. = -23°26'09.9"
S.D. = 00°16'15.5"
H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 05h57m17.3s
Dec. = +23°44'47.8"
S.D. = 00°15'52.1"
H.P. = 00°58'14.2"



Eclipse Durations

Penumbral = 05h35m07s
Umbral = 03h28m41s
Total = 01h12m21s

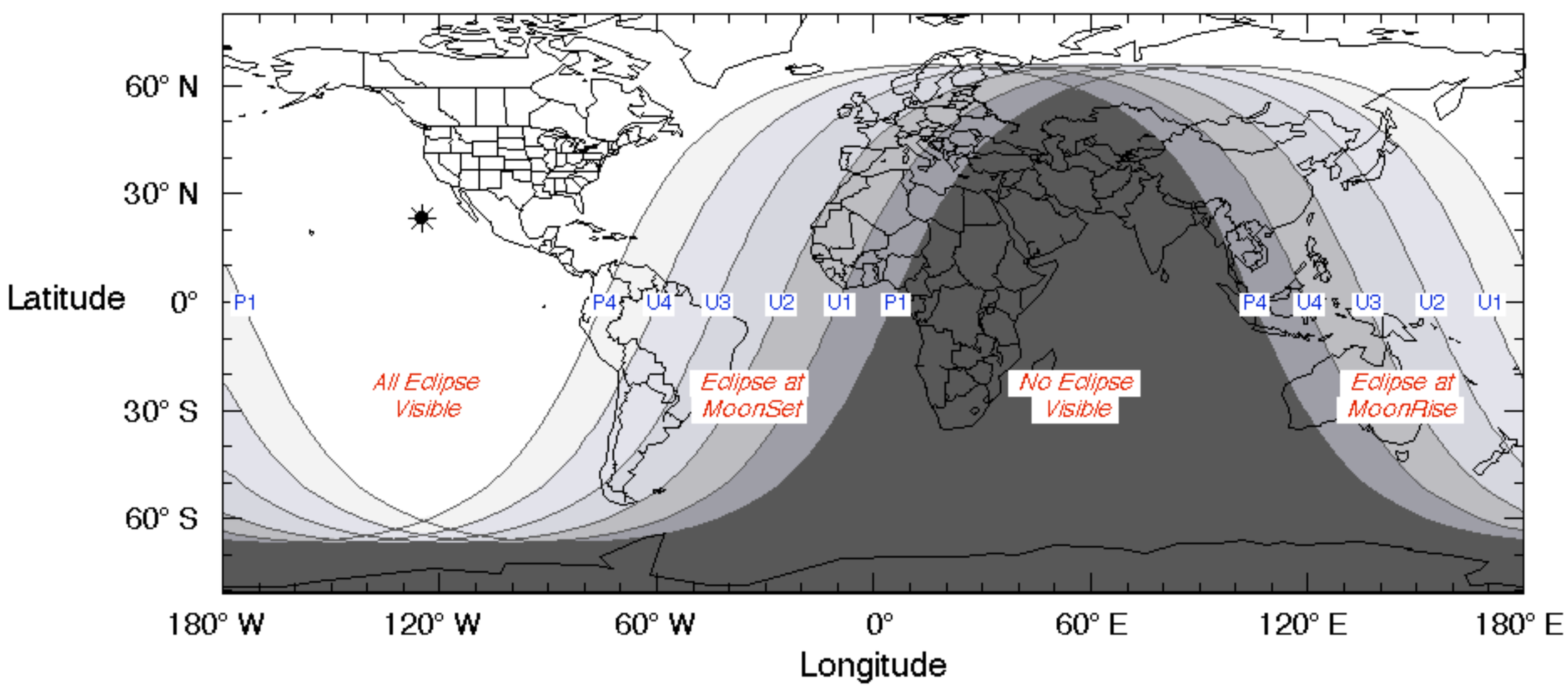
ΔT = 67 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

Eclipse Contacts

P1 = 05:29:21 UT
U1 = 06:32:38 UT
U2 = 07:40:48 UT
U3 = 08:53:09 UT
U4 = 10:01:19 UT
P4 = 11:04:28 UT



2009 Apr 17