# Total Lunar Eclipse of 2087 May 17

Ecliptic Conjunction = 15:57:43.5 TD (= 15:54:50.2 UT)
Greatest Eclipse = 15:55:20.2 TD (= 15:52:26.9 UT)

Penumbral Magnitude = 2.5276 P. Radius = 1.1775° Gamma = 0.1999
Umbral Magnitude = 1.4554 U. Radius = 0.6502° Axis = 0.1804°

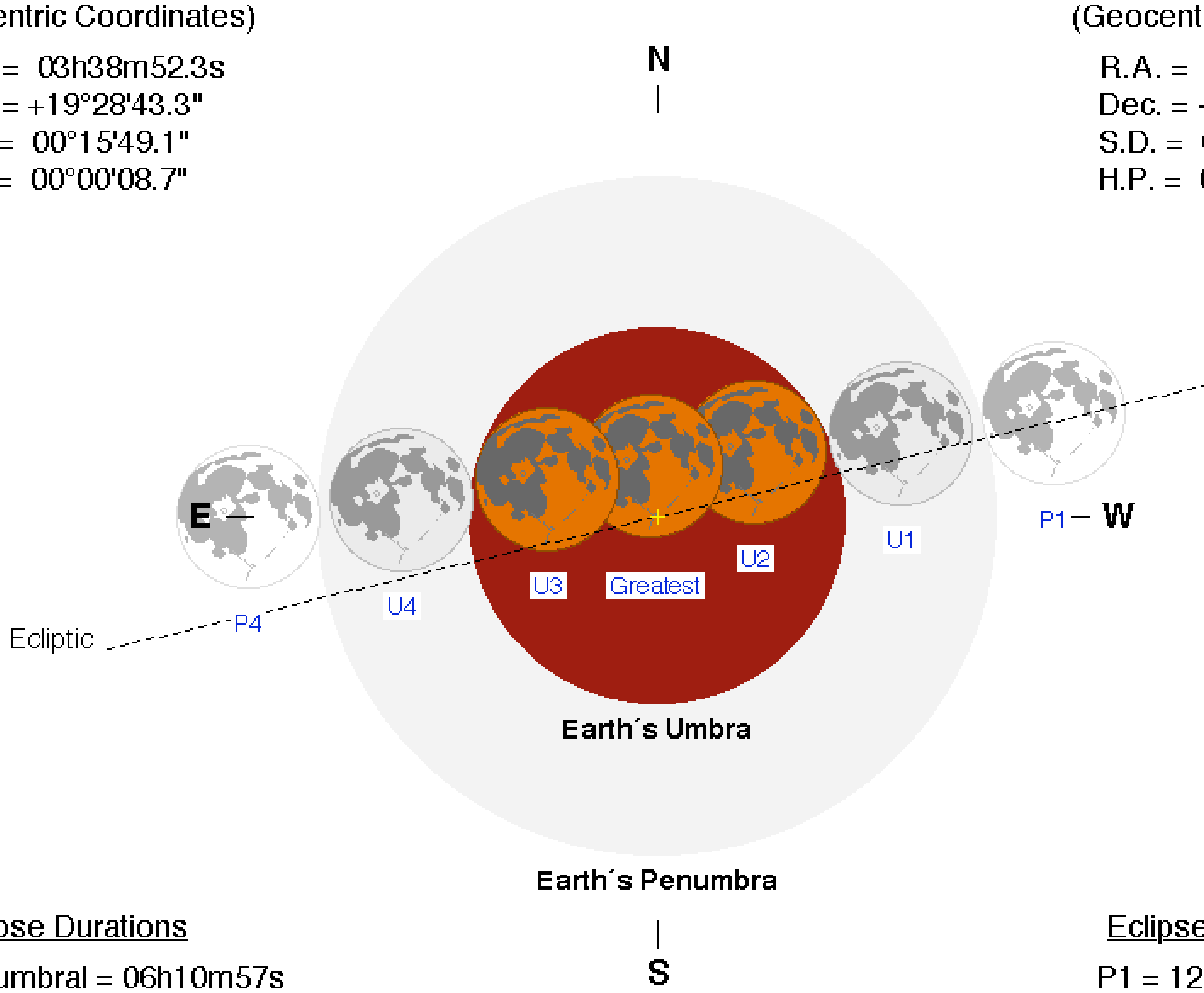
Saros Series = 132 Member = 34 of 71

**Sun at Greatest Eclipse**
(Geocentric Coordinates)

R.A. = 03h38m52.3s
Dec. = +19°28'43.3"
S.D. = 00°15'49.1"
H.P. = 00°00'08.7"

**Moon at Greatest Eclipse**
(Geocentric Coordinates)

R.A. = 15h38m58.3s
Dec. = -19°17'59.6"
S.D. = 00°14'45.2"
H.P. = 00°54'08.7"




**Eclipse Durations**

Penumbral = 06h10m57s
Umbral = 03h50m39s
Total = 01h35m06s

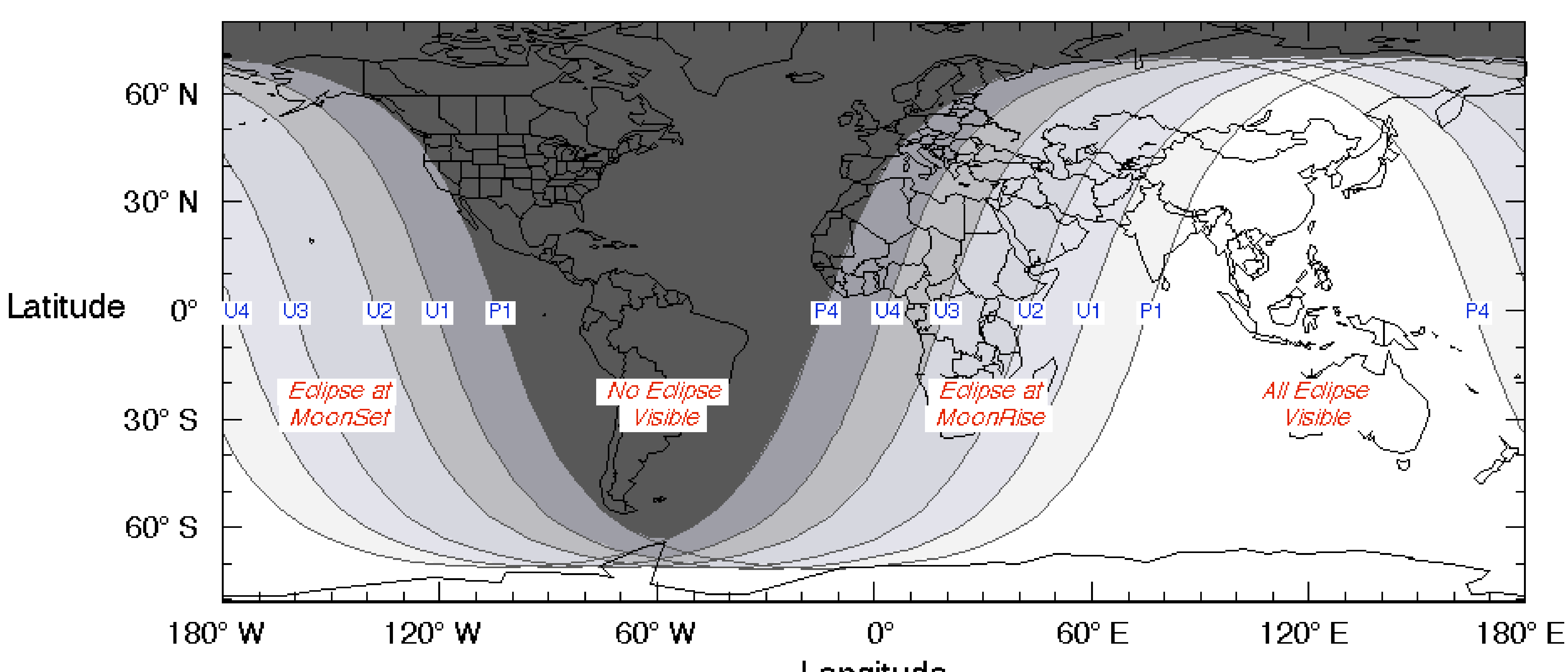
ΔT = 173 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

**Eclipse Contacts**

P1 = 12:46:57 UT
U1 = 13:57:08 UT
U2 = 15:04:54 UT
U3 = 16:40:00 UT
U4 = 17:47:47 UT
P4 = 18:57:54 UT




2009 Apr 29