Total Lunar Eclipse of 2004 May 04

Ecliptic Conjunction = 20:34:30.9 TD (= 20:33:26.3 UT)
Greatest Eclipse = 20:31:17.1 TD (= 20:30:12.6 UT)

Penumbral Magnitude = 2.2627 P. Radius = 1.2882° Gamma = -0.3132
Umbral Magnitude = 1.3035 U. Radius = 0.7596° Axis = 0.3167°

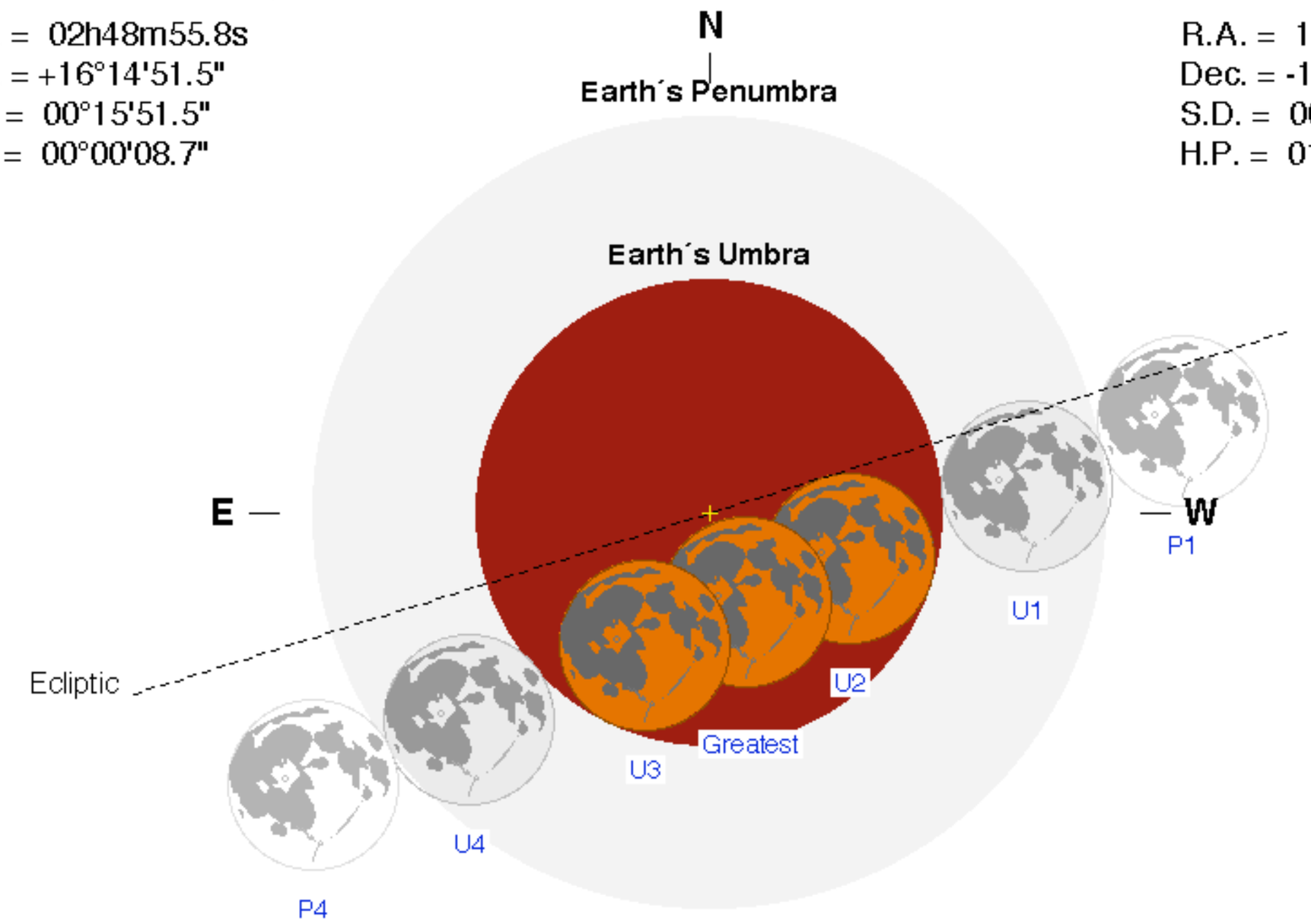
Saros Series = 131 Member = 33 of 72

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 02h48m55.8s
Dec. = +16°14'51.5"
S.D. = 00°15'51.5"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 14h48m25.1s
Dec. = -16°32'22.7"
S.D. = 00°16'32.0"
H.P. = 01°00'40.8"



Eclipse Durations

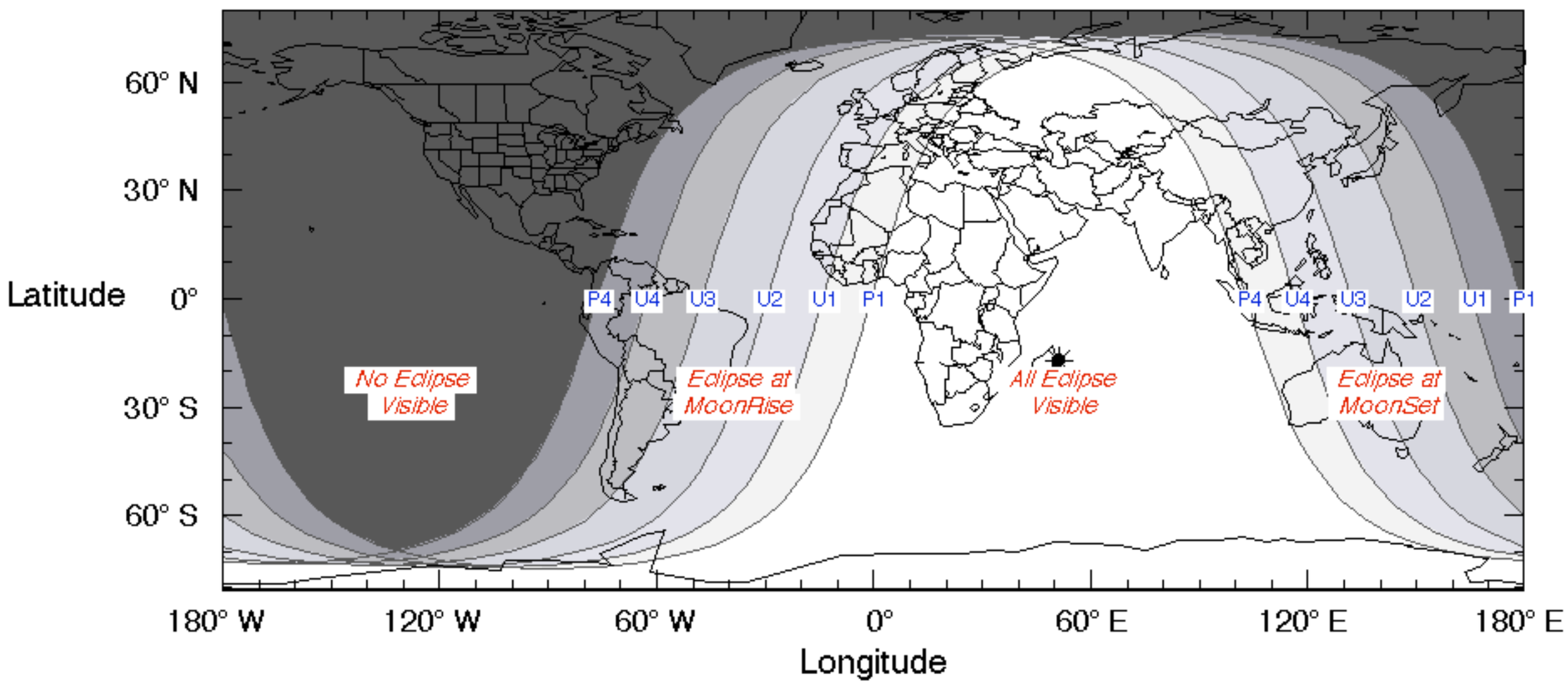
Penumbral = 05h15m43s
Umbral = 03h23m12s
Total = 01h15m28s

ΔT = 65 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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

Eclipse Contacts

P1 = 17:52:20 UT
U1 = 18:48:38 UT
U2 = 19:52:29 UT
U3 = 21:07:57 UT
U4 = 22:11:50 UT
P4 = 23:08:03 UT



2009 Apr 29