Total Lunar Eclipse of 2091 Mar 05

Ecliptic Conjunction = 16:01:41.0 TD (= 15:58:39.1 UT)
Greatest Eclipse = 15:58:22.4 TD (= 15:55:20.5 UT)

Penumbral Magnitude = 2.2537 P. Radius = 1.2980° Gamma = 0.3212
Umbral Magnitude = 1.2832 U. Radius = 0.7603° Axis = 0.3265°

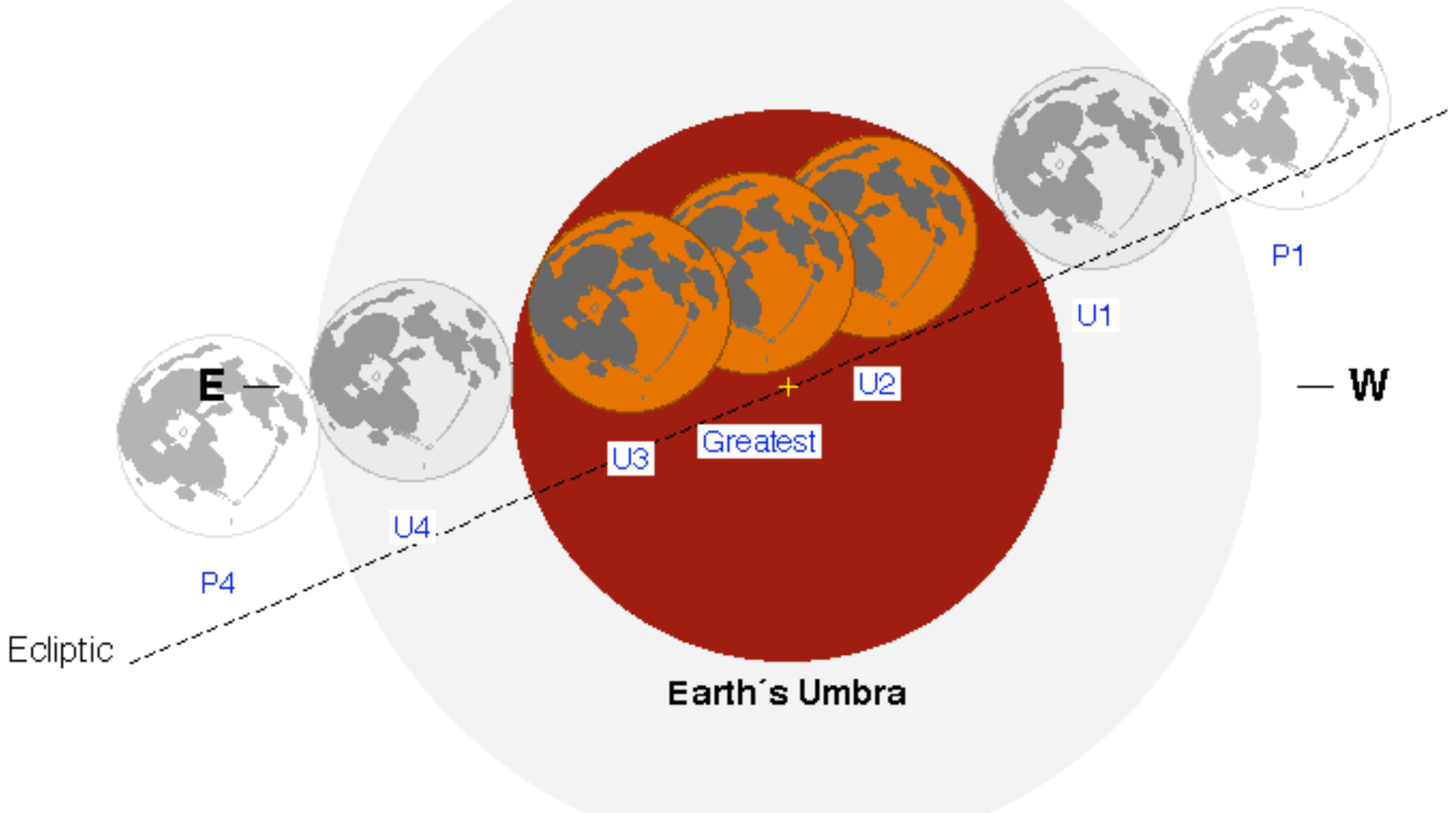
Saros Series = 134 Member = 31 of 73

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 23h05m57.5s
Dec. = -05°46'46.6"
S.D. = 00°16'07.7"
H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 11h06m20.7s
Dec. = +06°05'30.2"
S.D. = 00°16'37.1"
H.P. = 01°00'59.5"



Eclipse Durations

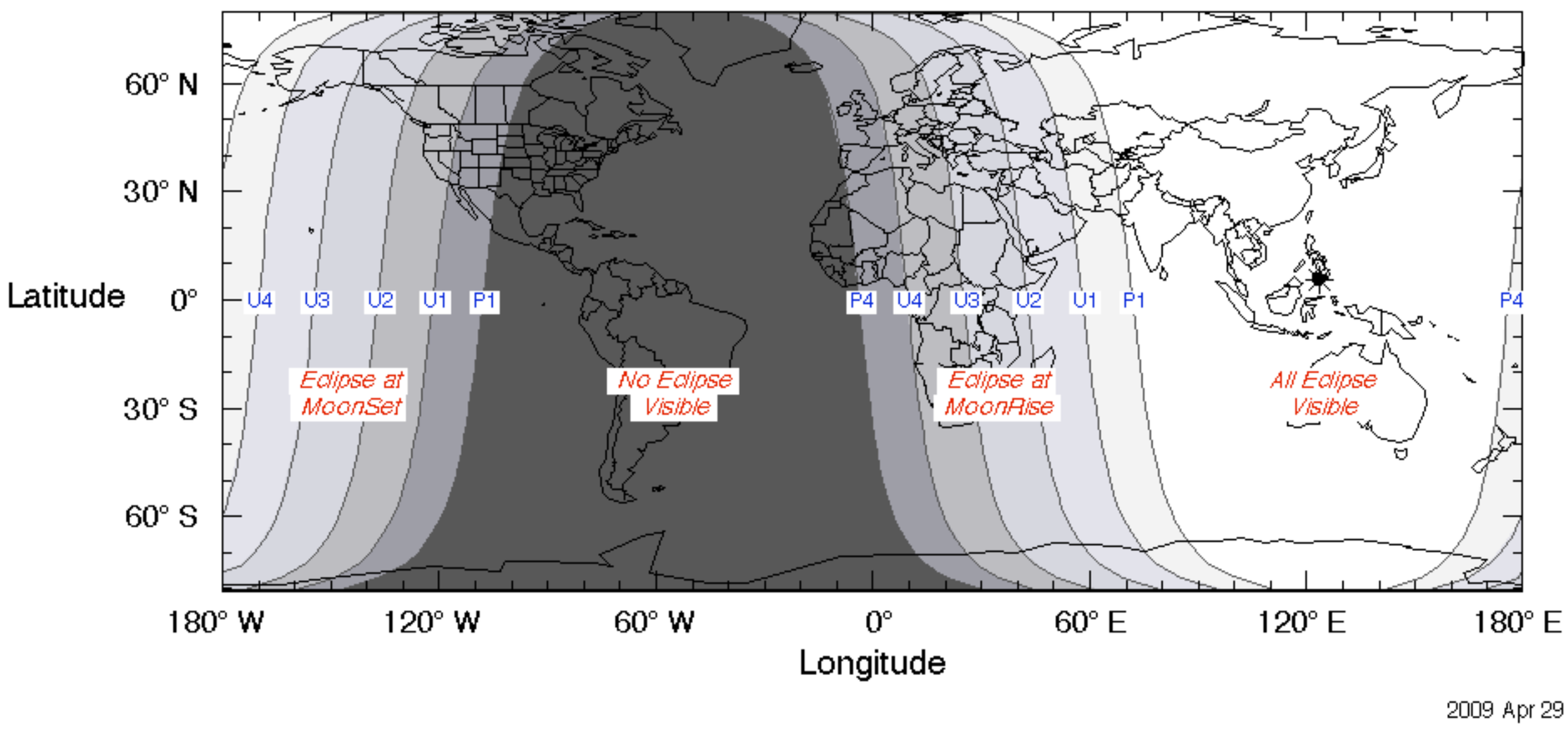
Penumbral = 05h14m58s
Umbral = 03h21m18s
Total = 01h12m53s

ΔT = 182 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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

Eclipse Contacts

P1 = 13:17:50 UT
U1 = 14:14:42 UT
U2 = 15:18:55 UT
U3 = 16:31:47 UT
U4 = 17:36:00 UT
P4 = 18:32:48 UT



2009 Apr 29