Total Lunar Eclipse of 2003 May 16

Ecliptic Conjunction = 03:37:01.7 TD (= 03:35:57.3 UT)
Greatest Eclipse = 03:41:13.1 TD (= 03:40:08.7 UT)

Penumbral Magnitude = 2.0747 P. Radius = 1.2980° Gamma = 0.4123
Umbral Magnitude = 1.1276 U. Radius = 0.7707° Axis = 0.4212°

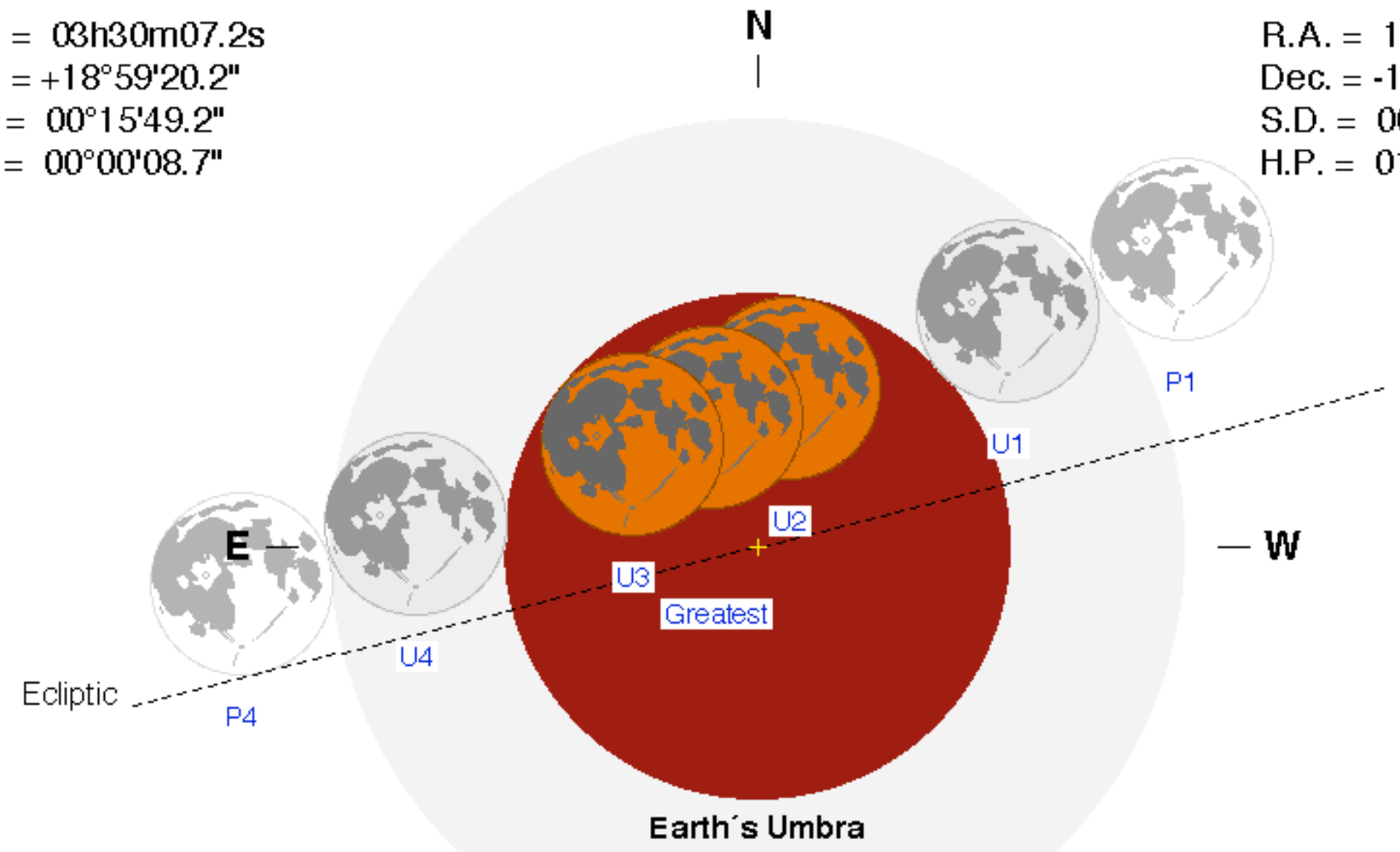
Saros Series = 121 Member = 55 of 84

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

R.A. = 03h30m07.2s
Dec. = +18°59'20.2"
S.D. = 00°15'49.2"
H.P. = 00°00'08.7"

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

R.A. = 15h30m43.0s
Dec. = -18°35'31.7"
S.D. = 00°16'42.2"
H.P. = 01°01'18.2"



<u>Eclipse Durations</u>

Penumbral = 05h06m31s
Umbral = 03h13m53s
Total = 00h51m25s

ΔT = 64 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

Earth´s Penumbra

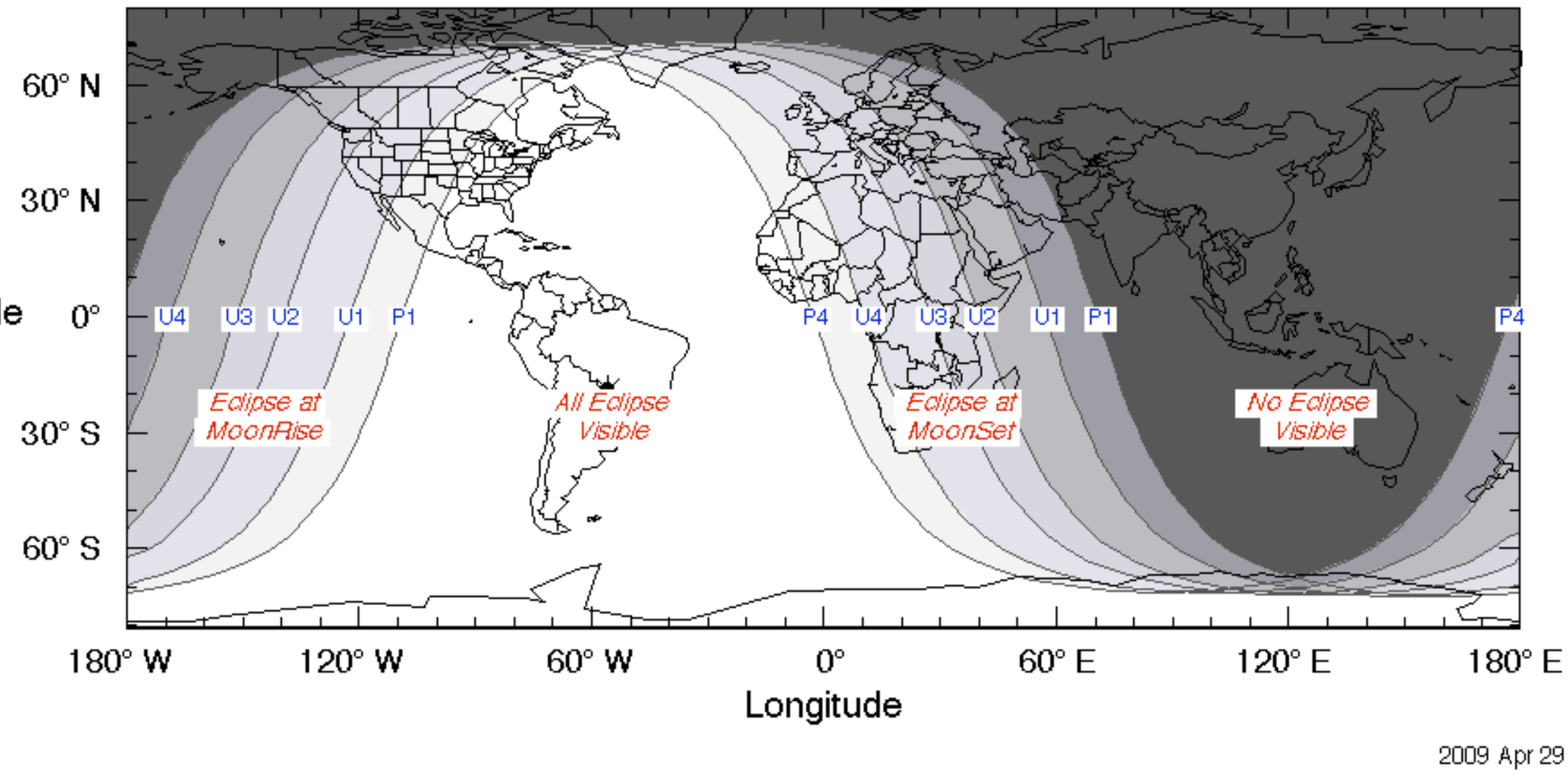
S

0 15 30 45 60
Arc-Minutes

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

<u>Eclipse Contacts</u>

P1 = 01:06:53 UT
U1 = 02:03:11 UT
U2 = 03:14:26 UT
U3 = 04:05:51 UT
U4 = 05:17:05 UT
P4 = 06:13:24 UT



2009 Apr 29