Partial Lunar Eclipse of 2093 Jul 08

Ecliptic Conjunction = 17:16:37.6 TD (= 17:13:30.2 UT)
Greatest Eclipse = 17:24:17.6 TD (= 17:21:10.2 UT)

Penumbral Magnitude = 1.4275 P. Radius = 1.2983° Gamma = 0.7632
Umbral Magnitude = 0.4872 U. Radius = 0.7738° Axis = 0.7810°

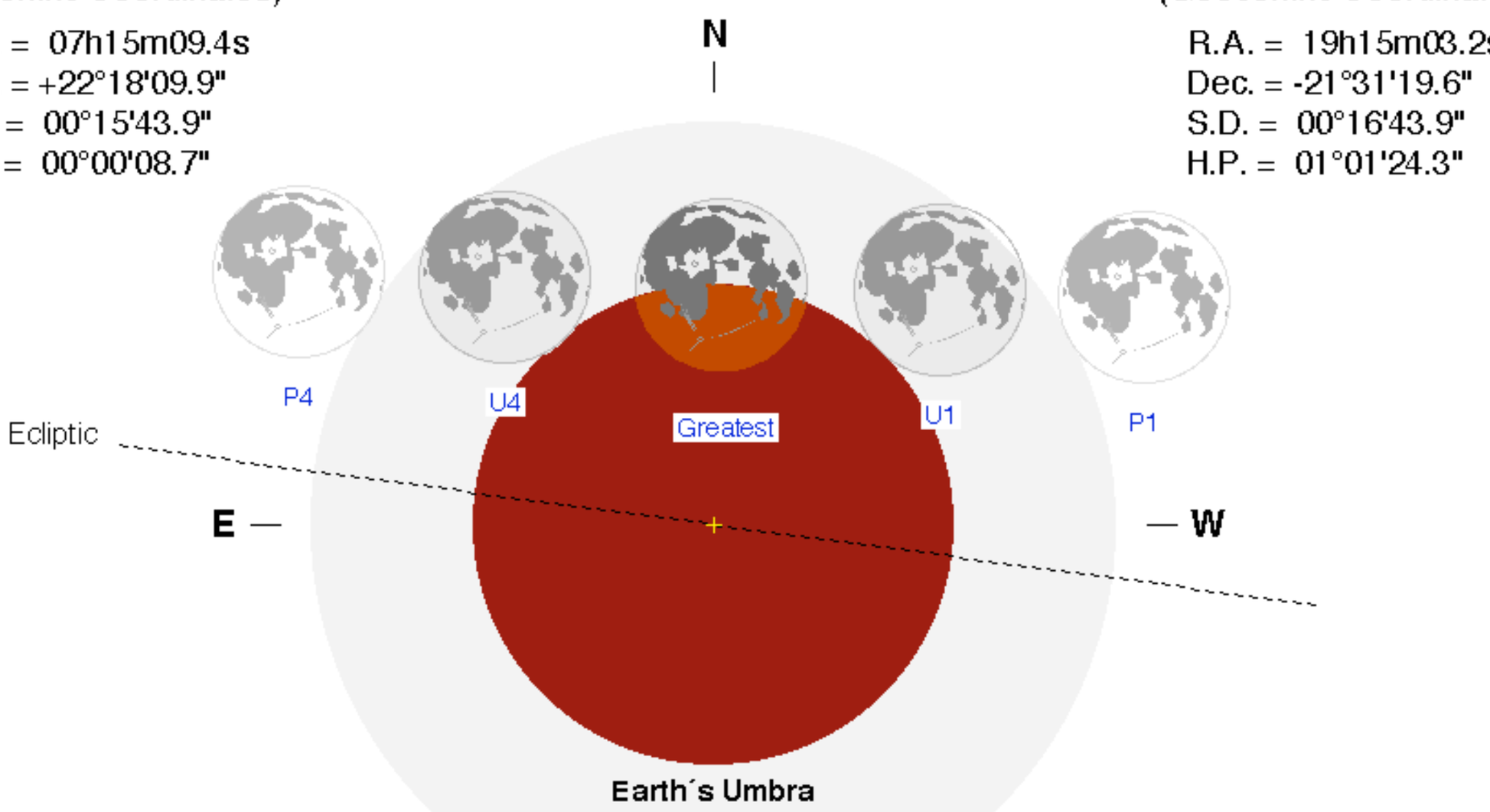
Saros Series = 121 Member = 60 of 84

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

R.A. = 07h15m09.4s
Dec. = +22°18'09.9"
S.D. = 00°15'43.9"
H.P. = 00°00'08.7"

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

R.A. = 19h15m03.2s
Dec. = -21°31'19.6"
S.D. = 00°16'43.9"
H.P. = 01°01'24.3"



<u>Eclipse Durations</u>

Penumbral = 04h35m20s
Umbral = 02h21m51s

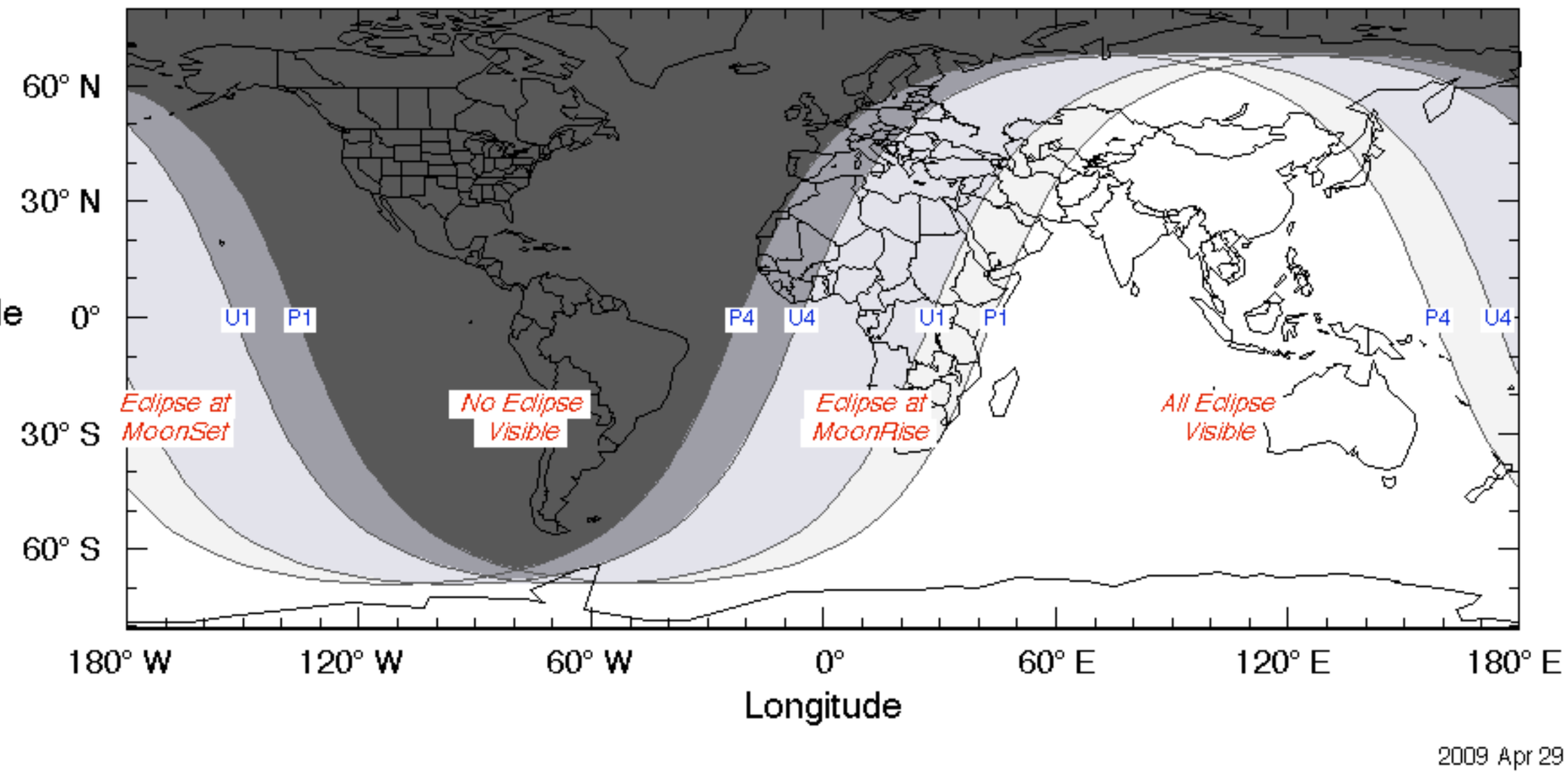
ΔT = 187 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

<u>Eclipse Contacts</u>

P1 = 15:03:31 UT
U1 = 16:10:15 UT
U4 = 18:32:06 UT
P4 = 19:38:50 UT



2009 Apr 29