Total Lunar Eclipse of 2018 Jan 31

Ecliptic Conjunction = 13:27:53.0 TD (= 13:26:42.5 UT)
Greatest Eclipse = 13:31:00.1 TD (= 13:29:49.6 UT)

Penumbral Magnitude = 2.2941 P. Radius = 1.2978° Gamma = -0.3014
Umbral Magnitude = 1.3155 U. Radius = 0.7567° Axis = 0.3058°

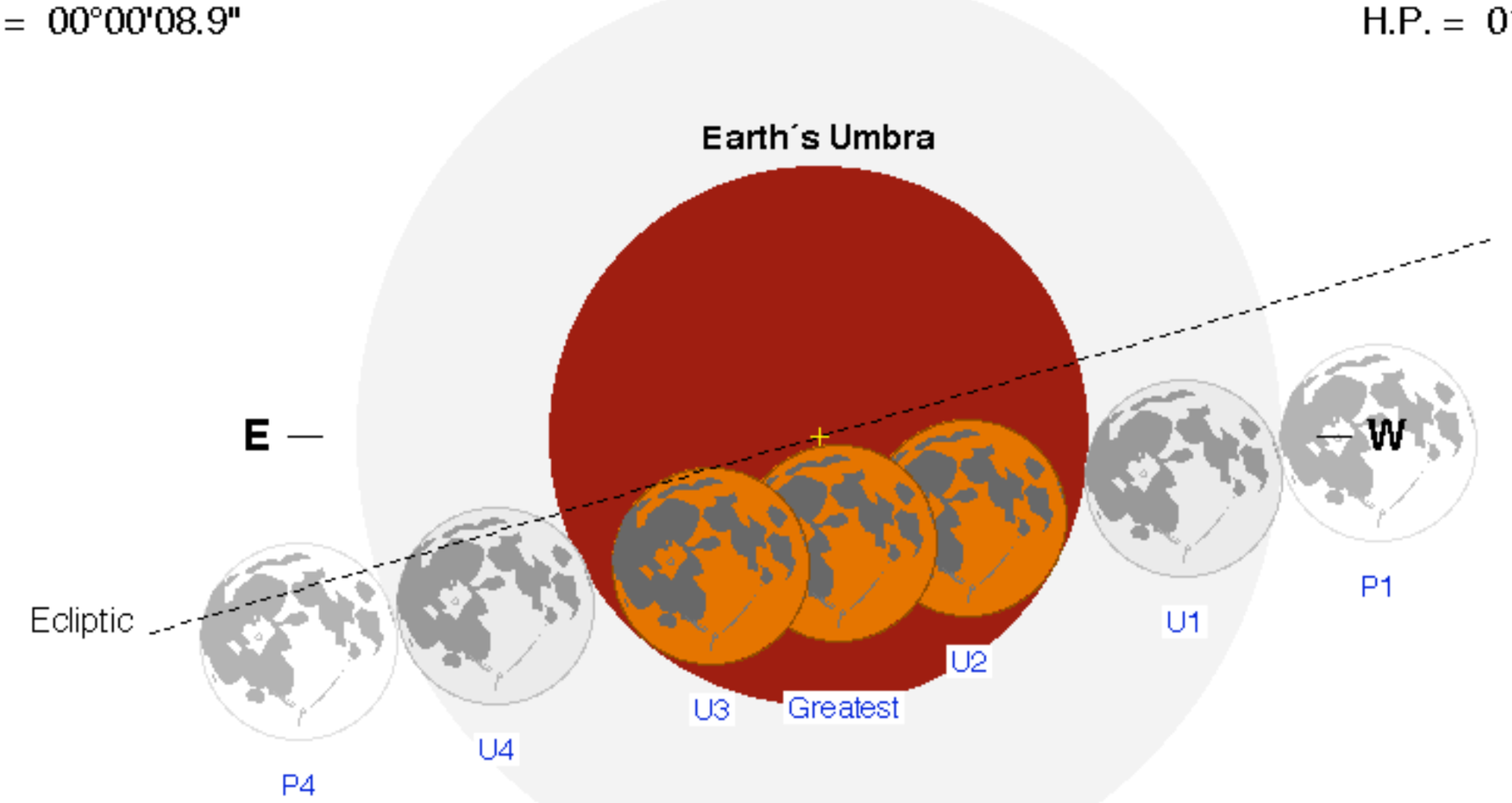
Saros Series = 124 Member = 49 of 74

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

R.A. = 20h56m18.8s
Dec. = -17°17'46.9"
S.D. = 00°16'14.0"
H.P. = 00°00'08.9"

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

R.A. = 08h56m05.0s
Dec. = +16°59'44.1"
S.D. = 00°16'35.2"
H.P. = 01°00'52.5"



<u>Eclipse Durations</u>

Penumbral = 05h17m12s
Umbral = 03h22m44s
Total = 01h16m04s

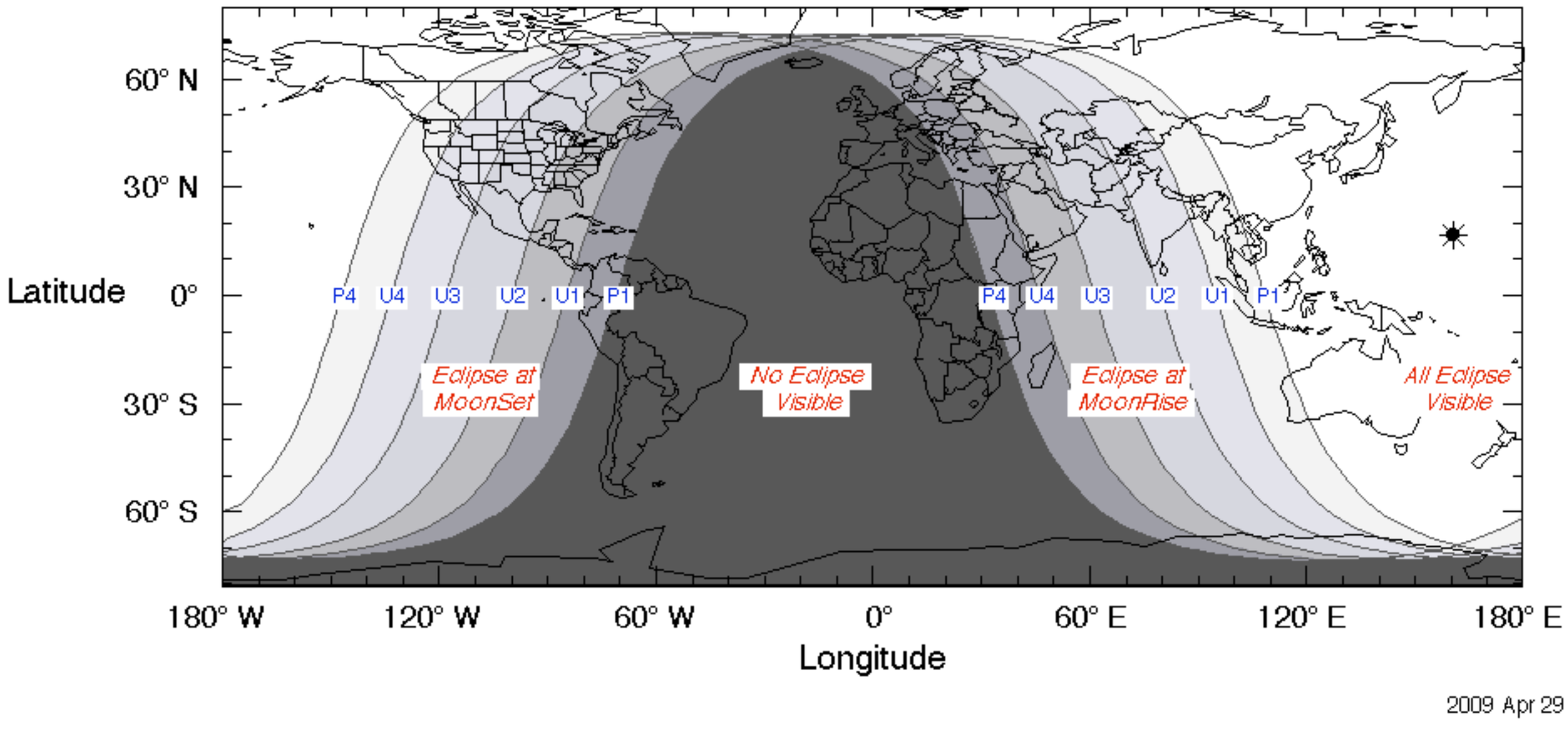
ΔT = 71 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

<u>Eclipse Contacts</u>

P1 = 10:51:15 UT
U1 = 11:48:27 UT
U2 = 12:51:47 UT
U3 = 14:07:51 UT
U4 = 15:11:11 UT
P4 = 16:08:27 UT



2009 Apr 29