Total Lunar Eclipse of 2018 Jul 27

Ecliptic Conjunction = 20:21:30.3 TD (= 20:20:19.6 UT)
Greatest Eclipse = 20:22:54.3 TD (= 20:21:43.5 UT)

Penumbral Magnitude = 2.6792 P. Radius = 1.1738° Gamma = 0.1168
Umbral Magnitude = 1.6087 U. Radius = 0.6488° Axis = 0.1051°

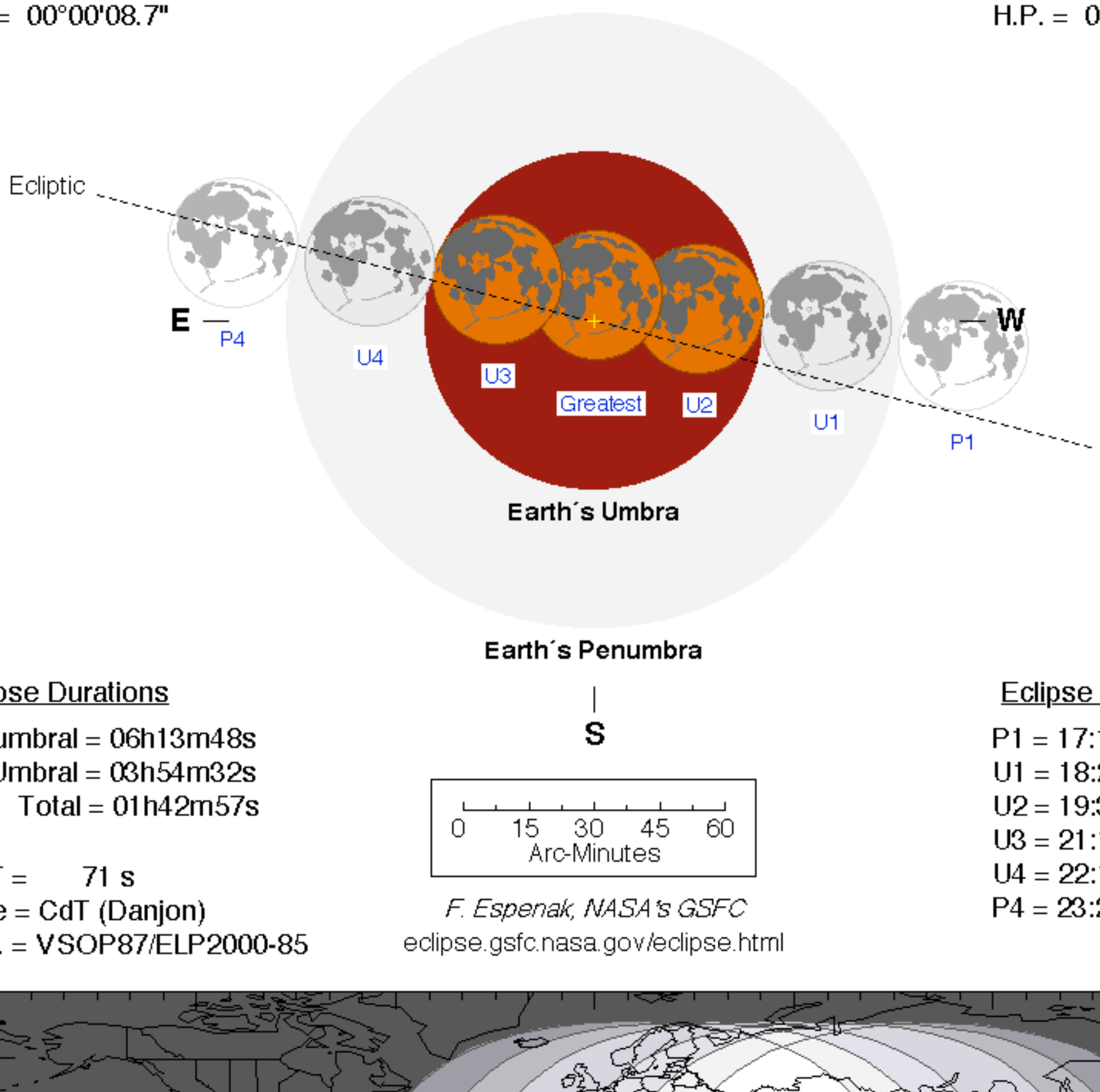
Saros Series = 129 Member = 38 of 71

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

R.A. = 08h28m22.0s
Dec. = +19°04'25.2"
S.D. = 00°15'45.0"
H.P. = 00°00'08.7"

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

R.A. = 20h28m18.2s
Dec. = -18°58'10.6"
S.D. = 00°14'42.7"
H.P. = 00°53'59.7"



<u>Eclipse Durations</u>

Penumbral = 06h13m48s
Umbral = 03h54m32s
Total = 01h42m57s

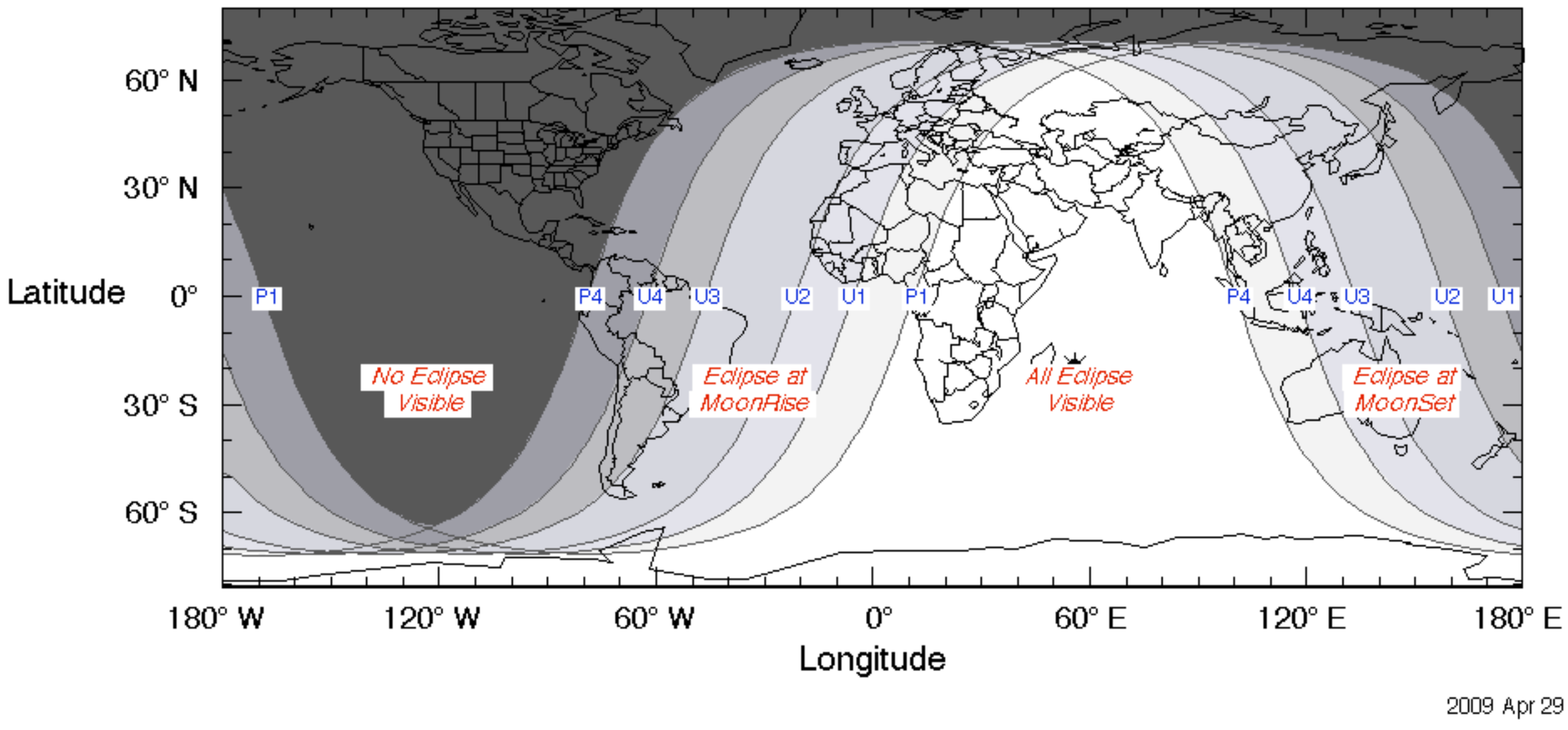
ΔT = 71 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

<u>Eclipse Contacts</u>

P1 = 17:14:49 UT
U1 = 18:24:27 UT
U2 = 19:30:15 UT
U3 = 21:13:12 UT
U4 = 22:19:00 UT
P4 = 23:28:37 UT



2009 Apr 29