Total Lunar Eclipse of 1776 Jul 31

Ecliptic Conjunction = 00:03:40.1 TD (= 00:03:23.6 UT)
Greatest Eclipse = 00:02:02.5 TD (= 00:01:46.0 UT)

Penumbral Magnitude = 2.5500 P. Radius = 1.2803° Gamma = -0.1566
Umbral Magnitude = 1.5907 U. Radius = 0.7548° Axis = 0.1574°

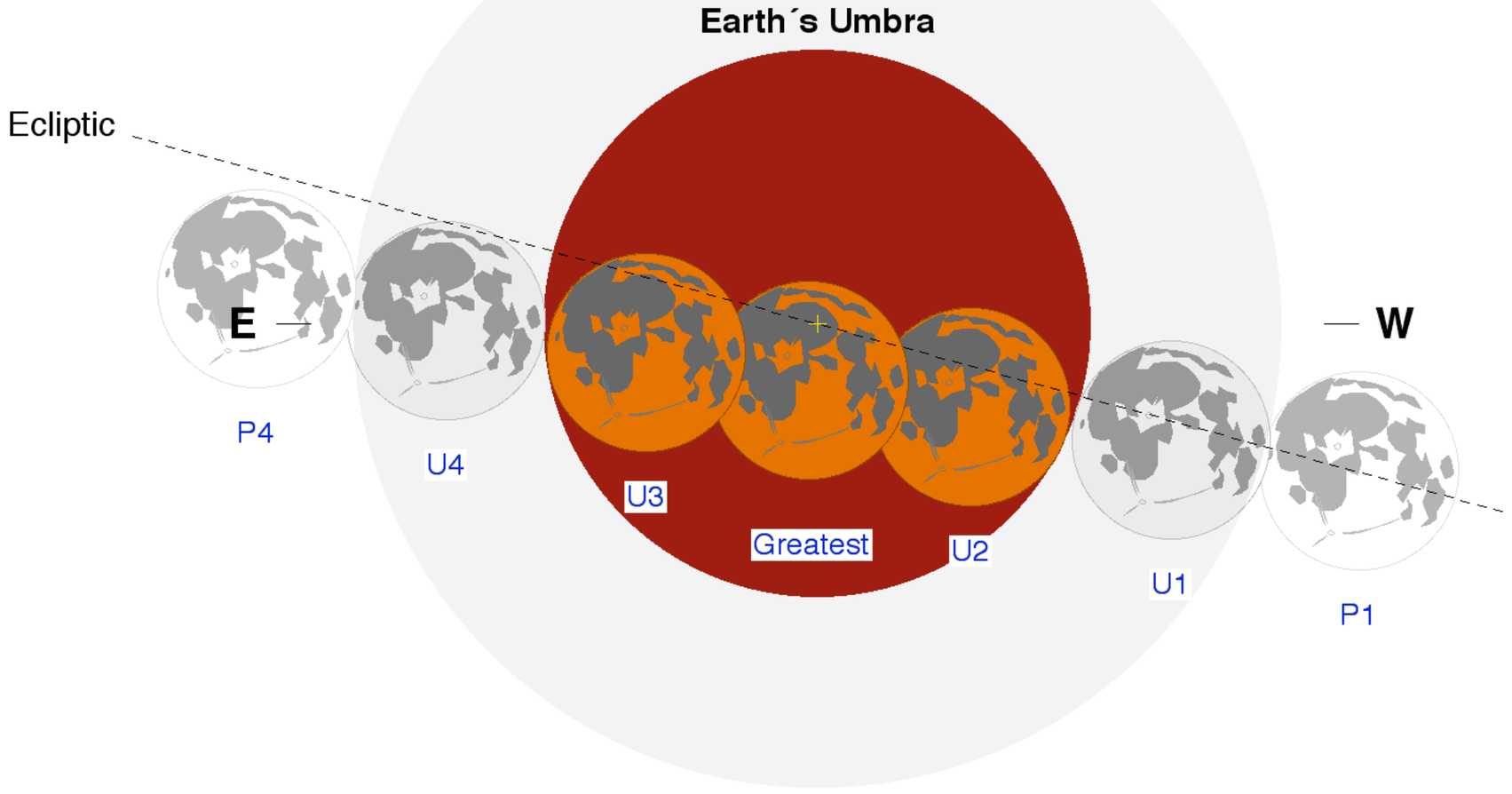
Saros Series = 125 Member = 35 of 72

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

R.A. = 08h42m35.7s
Dec. = +18°13'49.9"
S.D. = 00°15'45.8"
H.P. = 00°00'08.7"

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

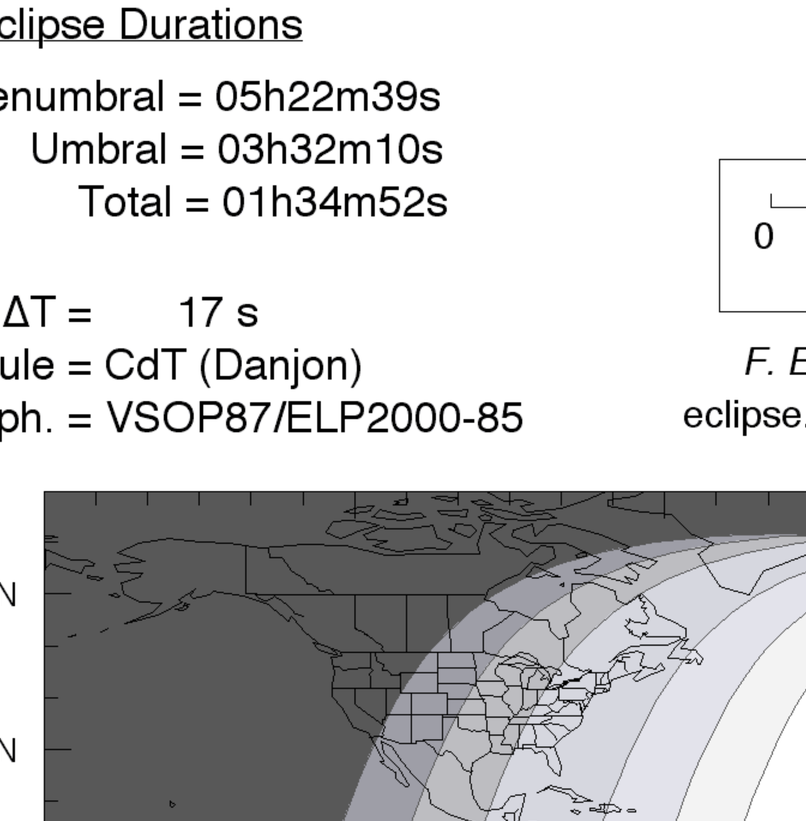
R.A. = 20h42m42.2s
Dec. = -18°23'09.0"
S.D. = 00°16'25.9"
H.P. = 01°00'18.4"



<u>Eclipse Durations</u>

Penumbral = 05h22m39s
Umbral = 03h32m10s
Total = 01h34m52s

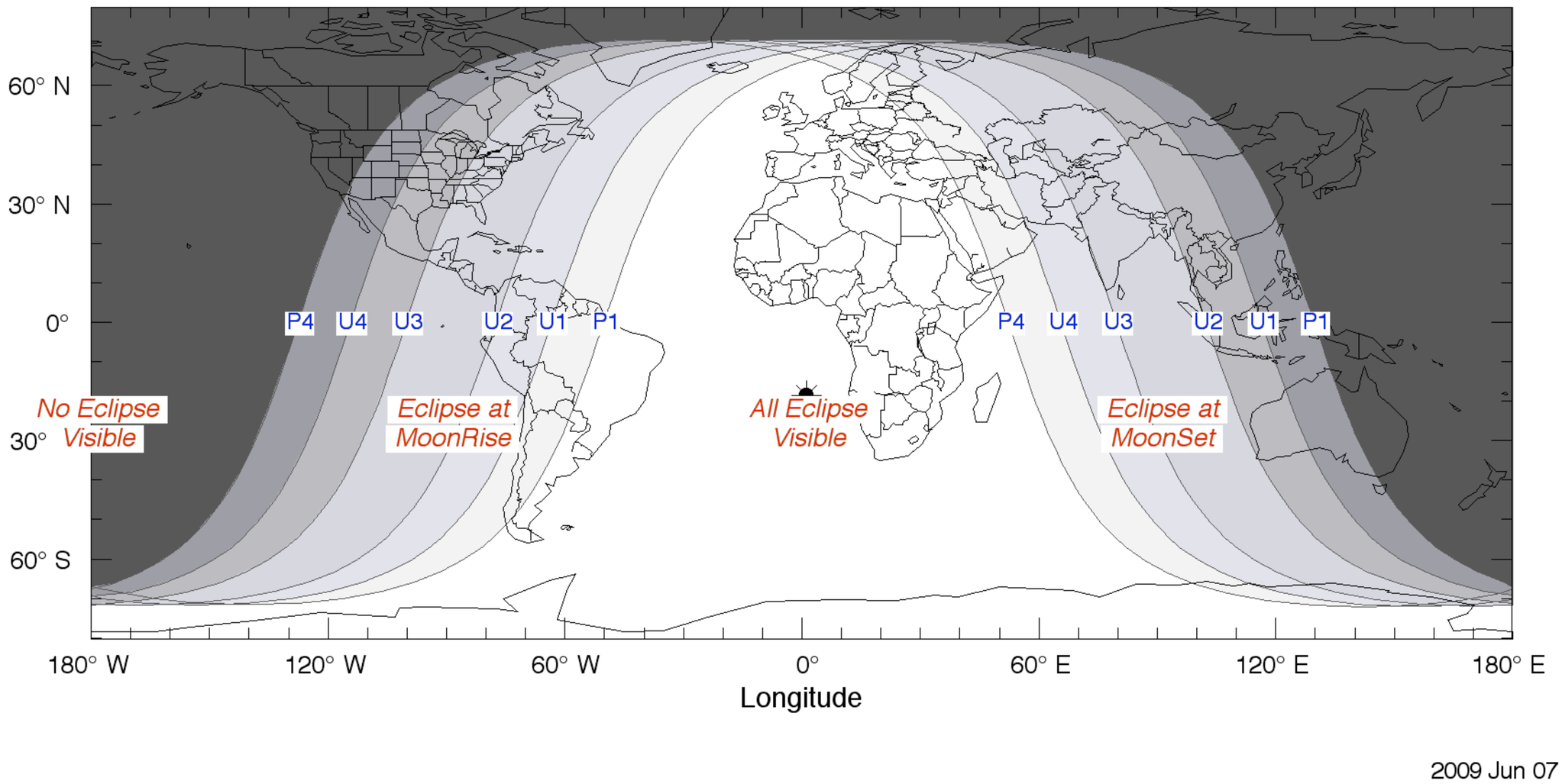
ΔT = 17 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85



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

<u>Eclipse Contacts</u>

P1 = 21:20:24 UT
U1 = 22:15:42 UT
U2 = 23:14:21 UT
U3 = 00:49:12 UT
U4 = 01:47:52 UT
P4 = 02:43:03 UT



2009 Jun 07