Total Lunar Eclipse of 1978 Sep 16

Ecliptic Conjunction = 19:01:54.6 TD (= 19:01:05.3 UT)
Greatest Eclipse = 19:05:01.2 TD (= 19:04:11.9 UT)

Penumbral Magnitude = 2.3060 P. Radius = 1.2716° Gamma = 0.2951
Umbral Magnitude = 1.3268 U. Radius = 0.7412° Axis = 0.2933°

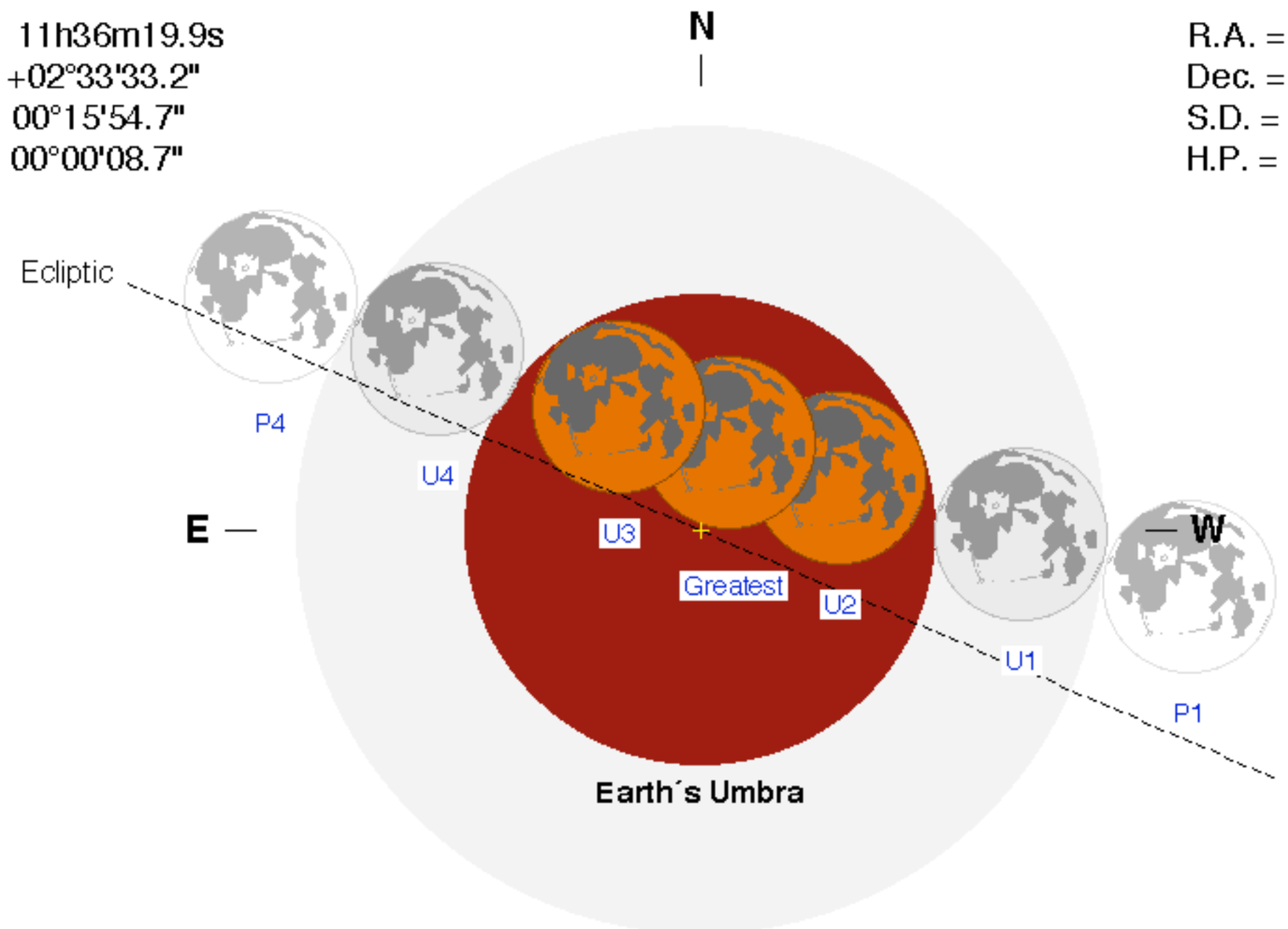
Saros Series = 127 Member = 40 of 72

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 11h36m19.9s
Dec. = +02°33'33.2"
S.D. = 00°15'54.7"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 23h35m58.5s
Dec. = -02°16'47.0"
S.D. = 00°16'15.0"
H.P. = 00°59'38.4"



Eclipse Durations

Penumbral = 05h23m50s
Umbral = 03h27m10s
Total = 01h18m39s

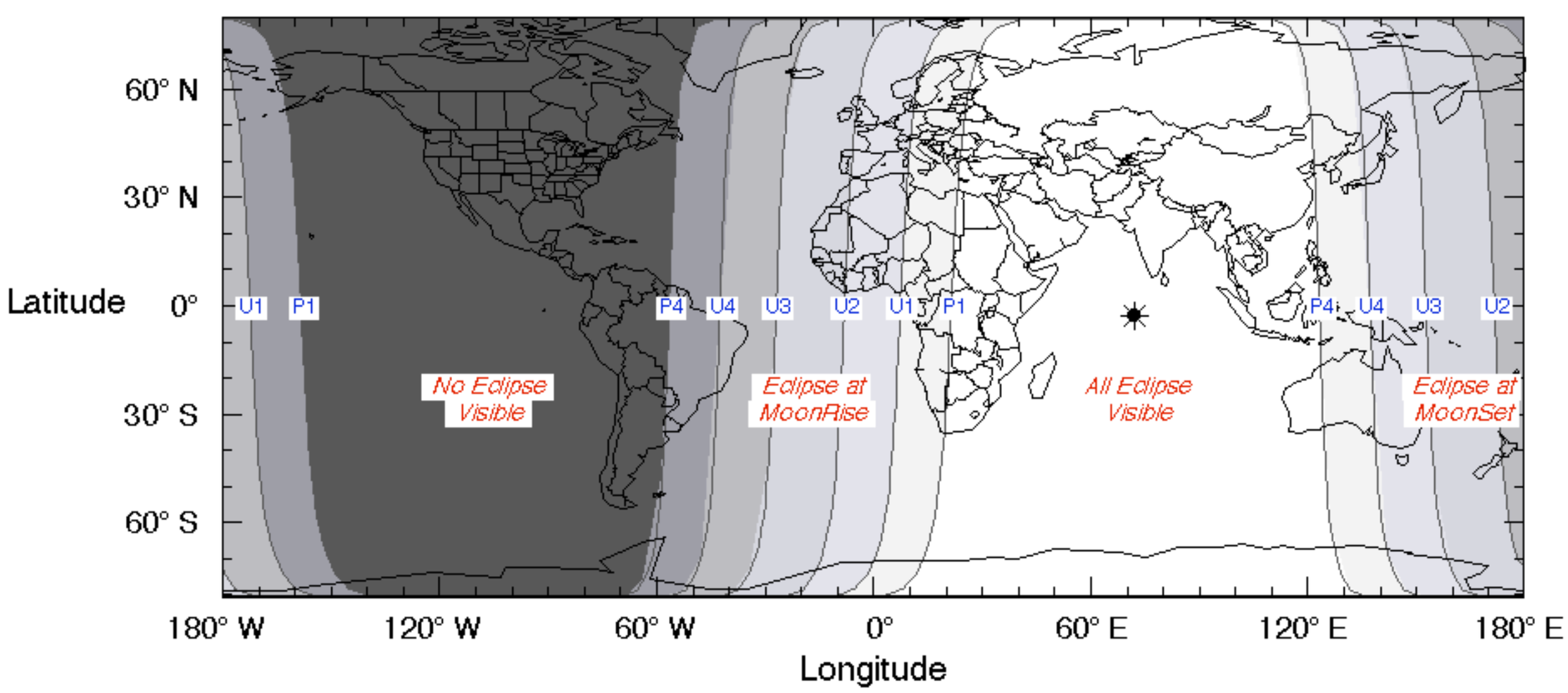
ΔT = 49 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

0 15 30 45 60
Arc-Minutes

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

Eclipse Contacts

P1 = 16:22:19 UT
U1 = 17:20:36 UT
U2 = 18:24:52 UT
U3 = 19:43:30 UT
U4 = 20:47:46 UT
P4 = 21:46:10 UT



2009 Apr 29