Penumbral Lunar Eclipse of 2093 Jan 12

Ecliptic Conjunction = 17:46:14.4 TD (= 17:43:08.1 UT)
Greatest Eclipse = 18:00:02.6 TD (= 17:56:56.3 UT)

Penumbral Magnitude = 0.7553 P. Radius = 1.1871° Gamma = -1.1733
Umbral Magnitude = -0.3444 U. Radius = 0.6450° Axis = 1.0612°

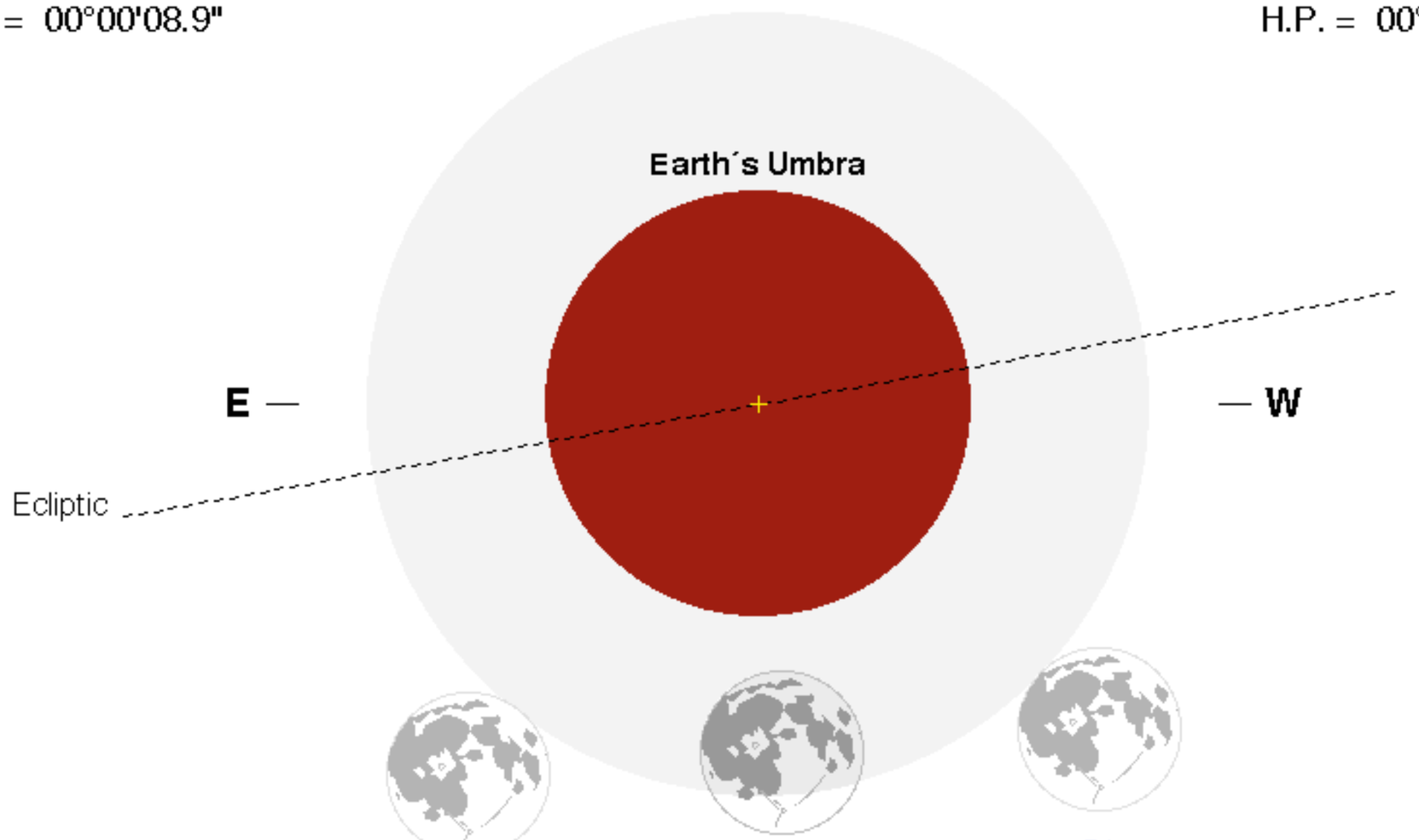
Saros Series = 116 Member = 62 of 73

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

R.A. = 19h40m30.7s
Dec. = -21°25'06.2"
S.D. = 00°16'15.7"
H.P. = 00°00'08.9"

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

R.A. = 07h40m11.4s
Dec. = +20°21'35.1"
S.D. = 00°14'47.3"
H.P. = 00°54'16.4"



<u>Eclipse Durations</u>

Penumbral = 04h13m05s

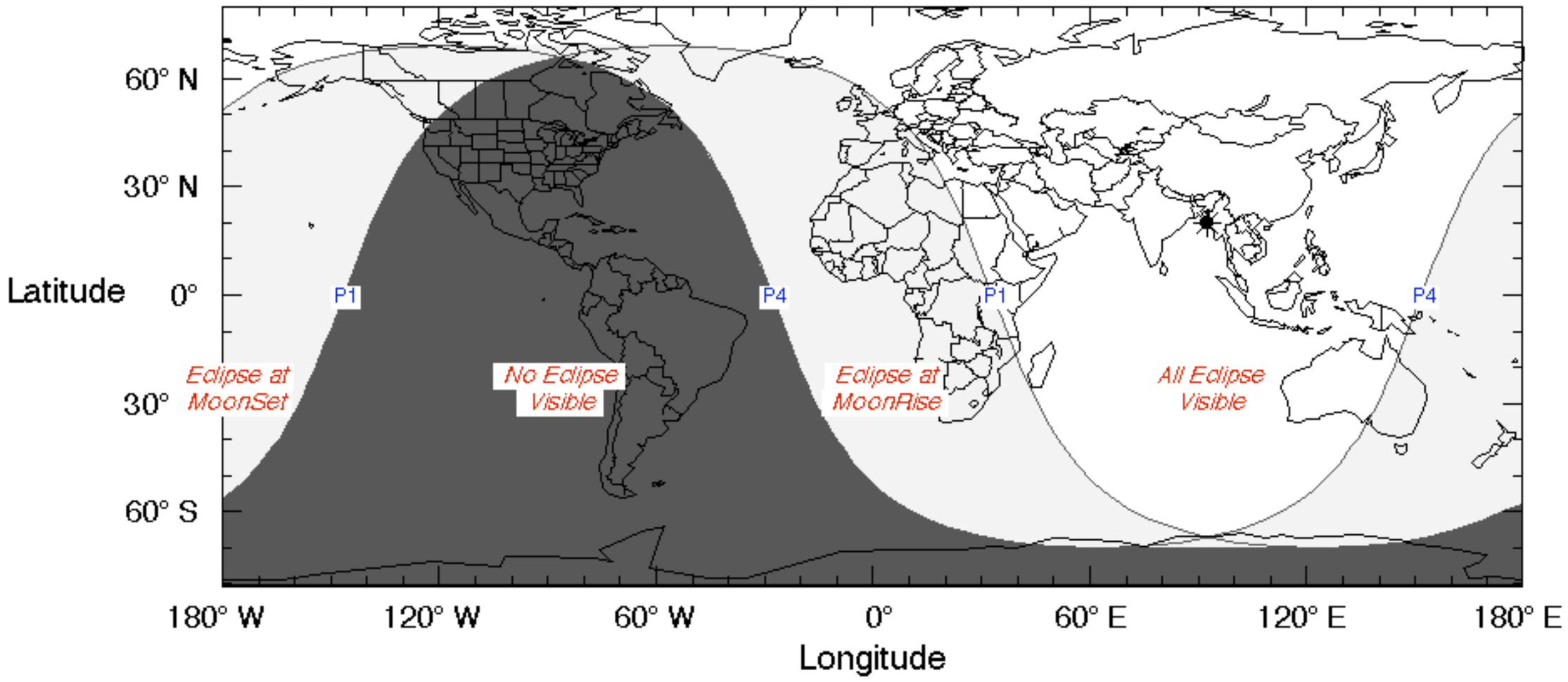
<u>Eclipse Contacts</u>

P1 = 15:50:26 UT
P4 = 20:03:31 UT

0 15 30 45 60
Arc-Minutes

ΔT = 186 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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



2009 Apr 29