FIGURE 4

Partial Solar Eclipse of 2014 Oct 23

Ecliptic Conjunction = 21:57:46.8 TD (= 21:56:39.5 UT)
Greatest Eclipse = 21:45:38.7 TD (= 21:44:31.4 UT)

Eclipse Magnitude = 0.8114 Gamma = 1.0908

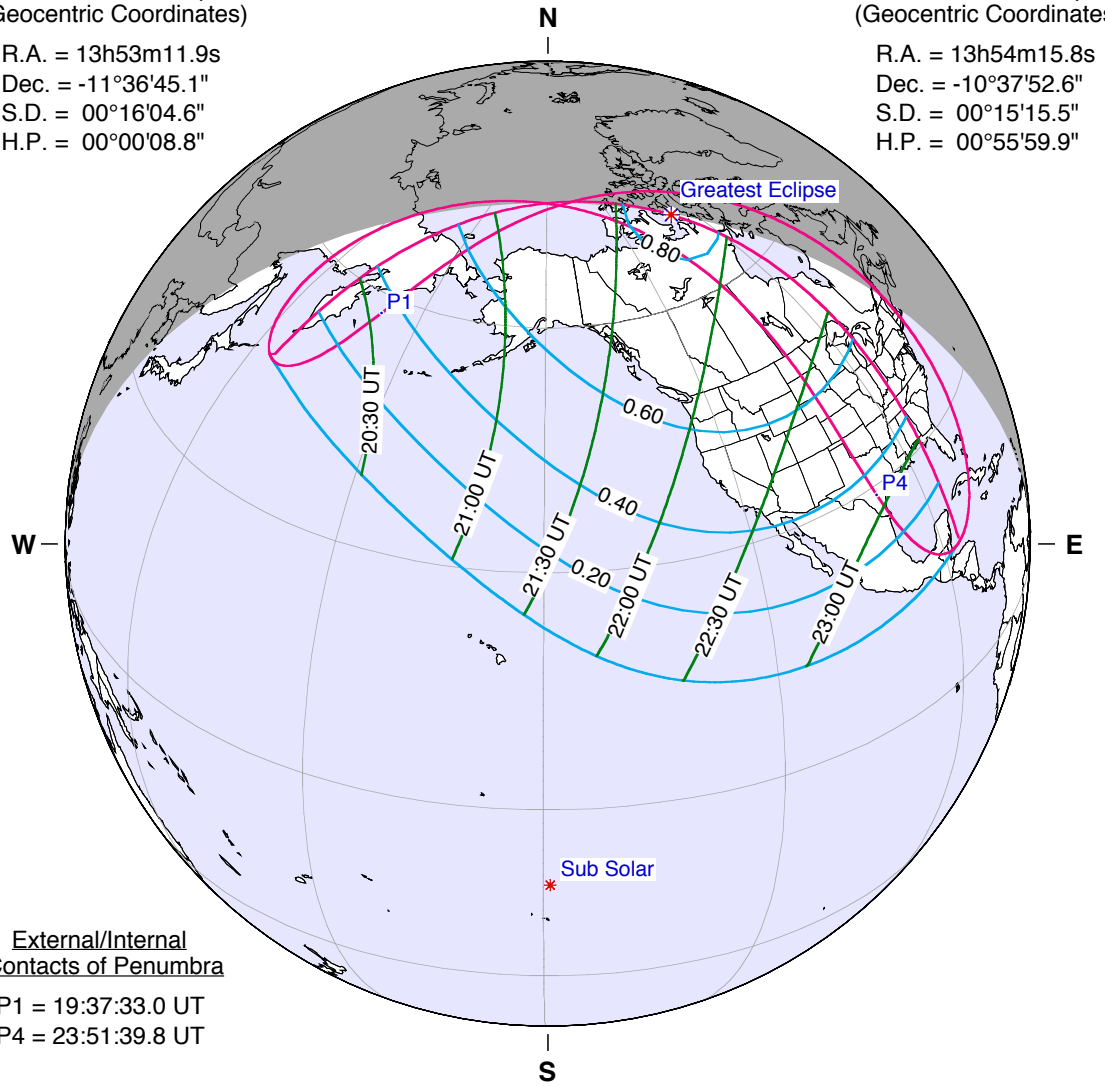
Saros Series = 153 Member = 9 of 70

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 13h53m11.9s
Dec. = -11°36'45.1"
S.D. = 00°16'04.6"
H.P. = 00°00'08.8"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 13h54m15.8s
Dec. = -10°37'52.6"
S.D. = 00°15'15.5"
H.P. = 00°55'59.9"



External/Internal
Contacts of Penumbra

P1 = 19:37:33.0 UT
P4 = 23:51:39.8 UT

Constants & Ephemeris

ΔT = 67.4 s
k1 = 0.2724880
k2 = 0.2722810
Δb = 0.0" Δl = 0.0"
Eph. = VSOP87/ELP2000-85

0 1000 2000 3000 4000 5000
Kilometers

Geocentric Libration
(Optical + Physical)

l = -4.52°
b = -1.27°
c = 21.96°
Brown Lun. No. = 1136

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html