Partial Solar Eclipse of 2022 Oct 25

Geocentric Conjunction = 10:03:36.7 UT J.D. = 2459877.919175
Greatest Eclipse = 11:00:00.4 UT J.D. = 2459877.958338

Eclipse Magnitude = 0.8611 Gamma = 1.0700

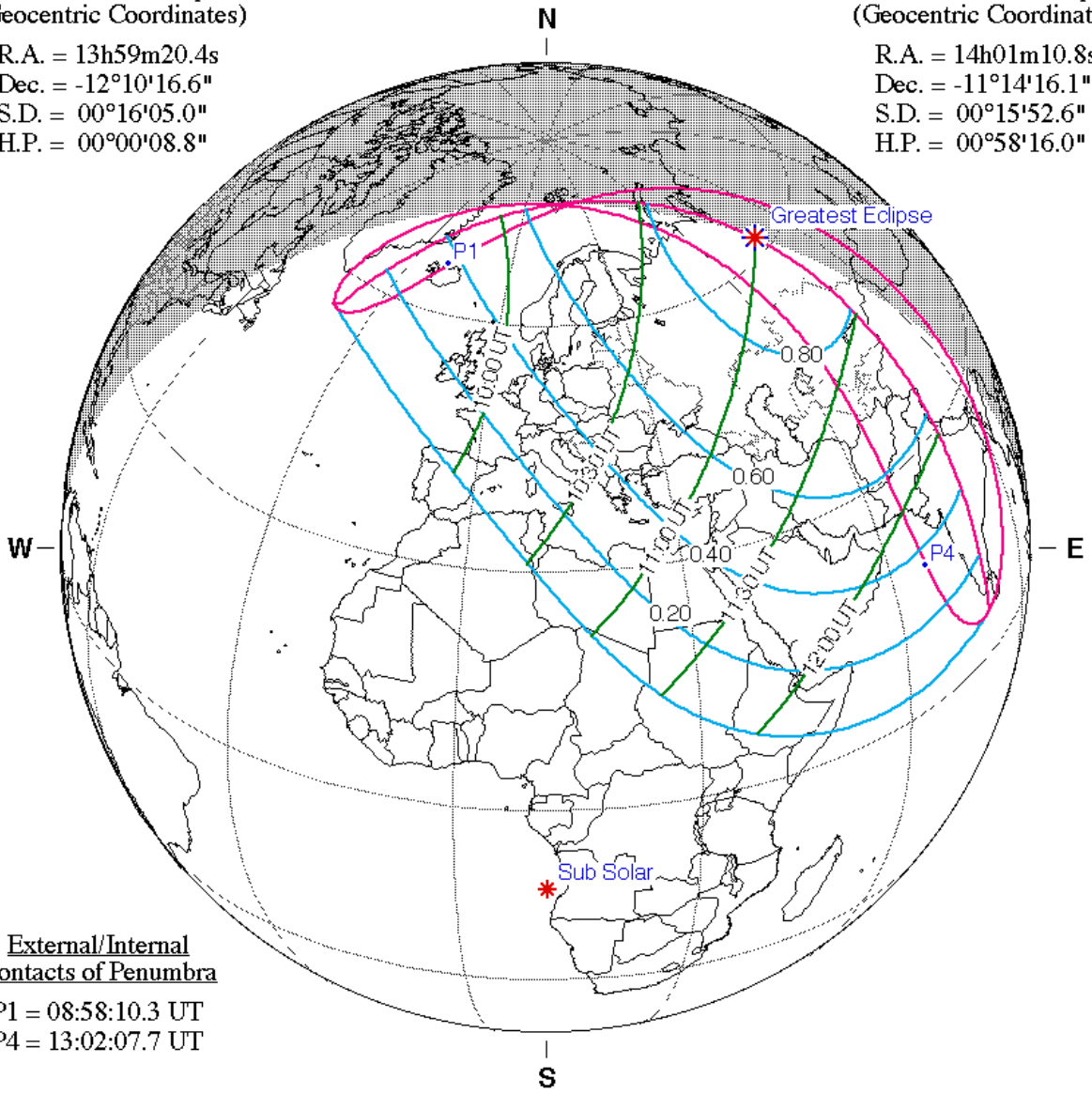
Saros Series = 124 Member = 55 of 73

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 13h59m20.4s
Dec. = -12°10'16.6"
S.D. = 00°16'05.0"
H.P. = 00°00'08.8"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 14h01m10.8s
Dec. = -11°14'16.1"
S.D. = 00°15'52.6"
H.P. = 00°58'16.0"



External/Internal Contacts of Penumbra

P1 = 08:58:10.3 UT
P4 = 13:02:07.7 UT

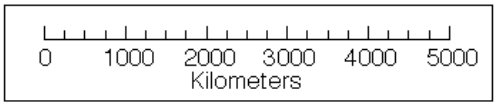
Ephemeris & Constants

Eph. = Newcomb/ILE
ΔT = 79.7 s
k1 = 0.2724880
k2 = 0.2722810
Δb = 0.0" Δl = 0.0"

Geocentric Libration
(Optical + Physical)

l = -4.55°
b = -1.38°
c = 18.60°

Brown Lun. No. = 1235



F. Espenak, NASA's GSFC - Fri, Jul 2,

sunearth.gsfc.nasa.gov/eclipse/eclipse.html