FIGURE 2

Annular Solar Eclipse of 2013 May 10

Ecliptic Conjunction = 00:29:30.1 TD (= 00:28:23.1 UT)
Greatest Eclipse = 00:26:19.9 TD (= 00:25:12.9 UT)

Eclipse Magnitude = 0.9544 Gamma = -0.2693

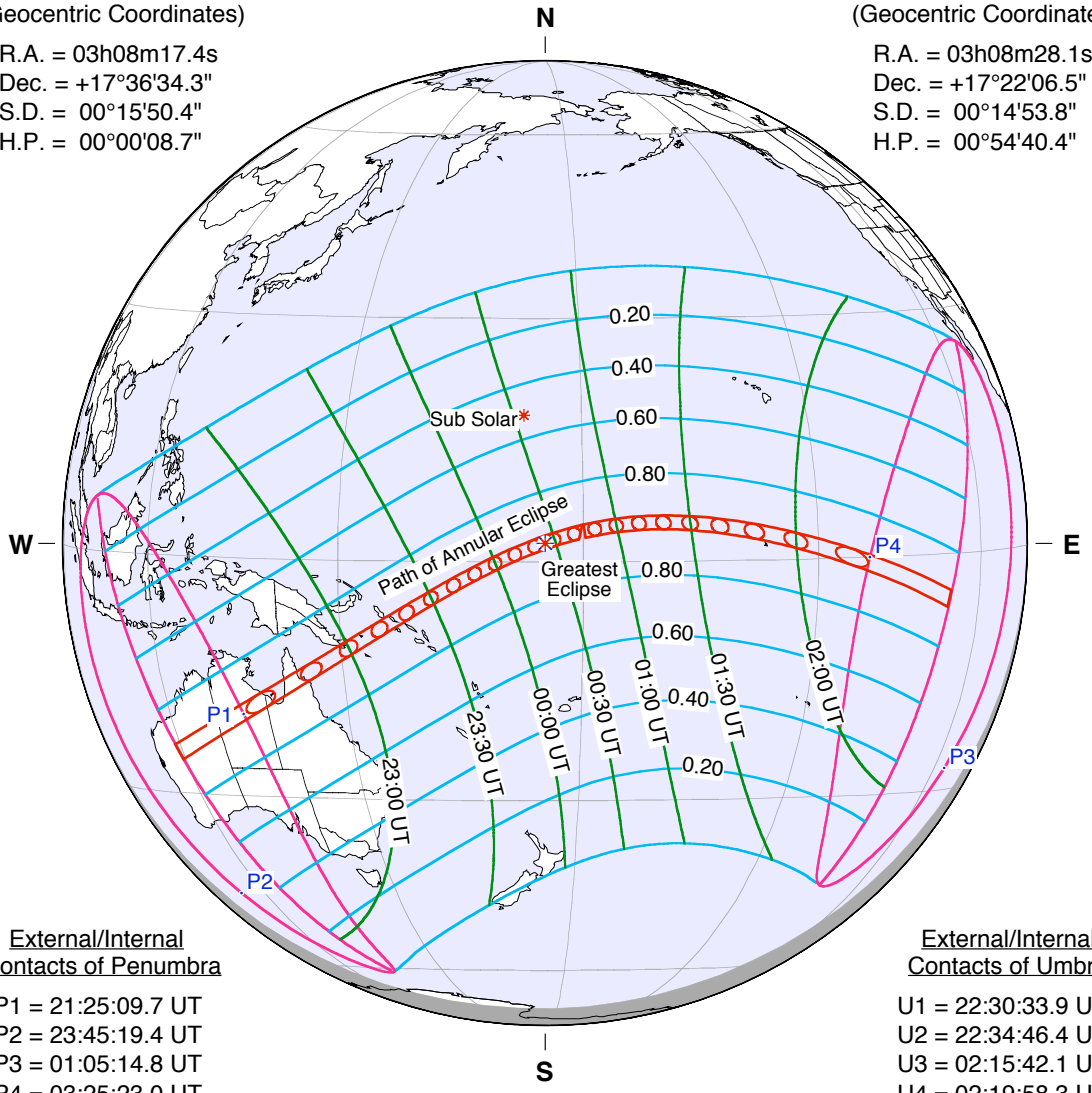
Saros Series = 138 Member = 31 of 70

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 03h08m17.4s
Dec. = +17°36'34.3"
S.D. = 00°15'50.4"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 03h08m28.1s
Dec. = +17°22'06.5"
S.D. = 00°14'53.8"
H.P. = 00°54'40.4"



External/Internal Contacts of Penumbra

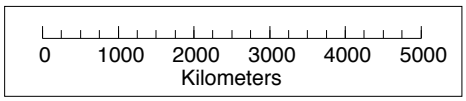
P1 = 21:25:09.7 UT
P2 = 23:45:19.4 UT
P3 = 01:05:14.8 UT
P4 = 03:25:23.0 UT

External/Internal Contacts of Umbra

U1 = 22:30:33.9 UT
U2 = 22:34:46.4 UT
U3 = 02:15:42.1 UT
U4 = 02:19:58.3 UT

Local Circumstances at Greatest Eclipse

Lat. = 02°13.4'N Sun Alt. = 74.4°
Long. = 175°28.0'E Sun Azm. = 350.5°
Path Width = 172.6 km Duration = 06m03.4s



Constants & Ephemeris

ΔT = 67.0 s
k1 = 0.2724880
k2 = 0.2722810
Δb = 0.0" Δl = 0.0"
Eph. = VSOP87/ELP2000-85

Geocentric Libration
(Optical + Physical)

l = 3.05°
b = 0.36°
c = -17.25°
Brown Lun. No. = 1118

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eclipse.gsfc.nasa.gov/eclipse.html

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