

FIGURE 2

Annular Solar Eclipse of 2014 Apr 29

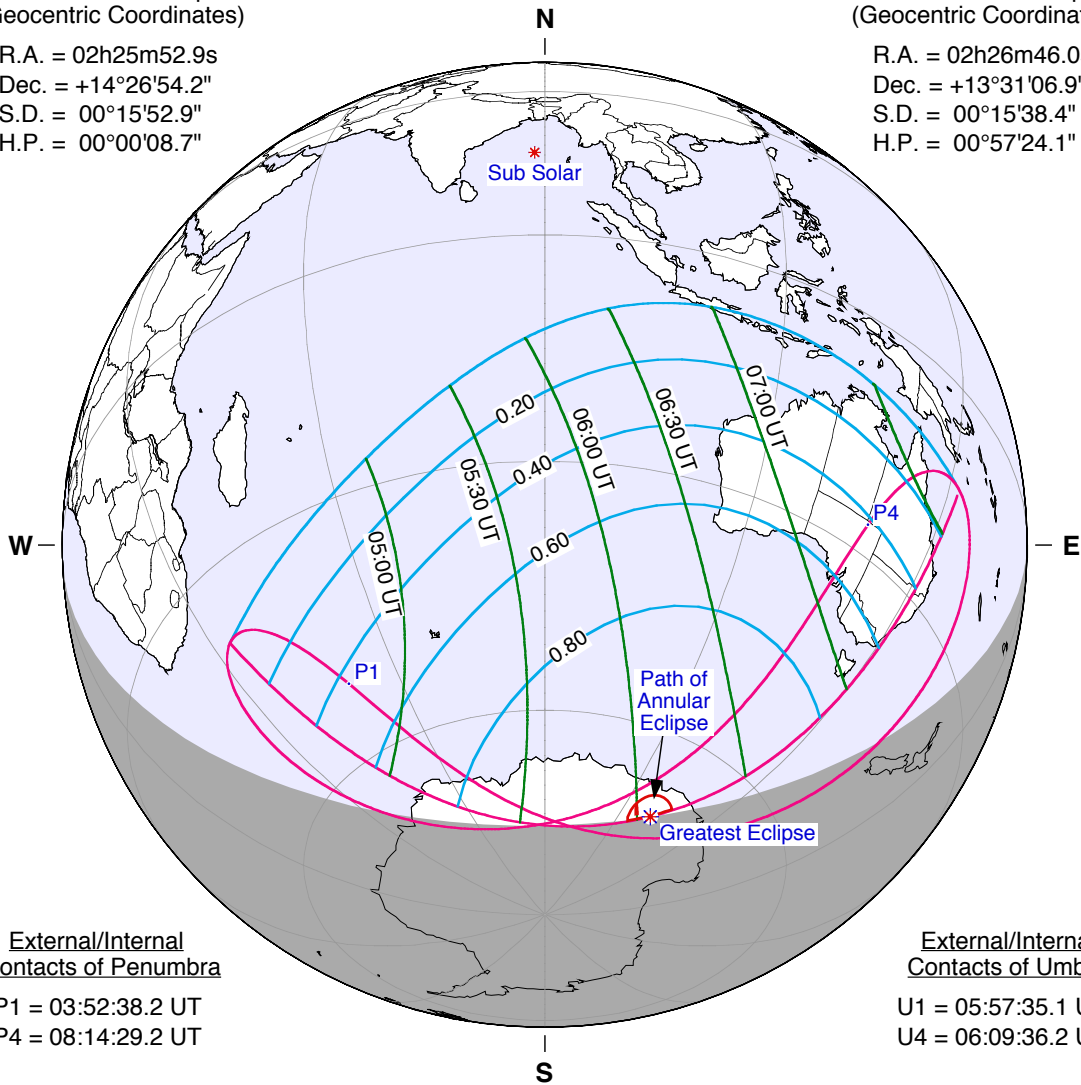
Ecliptic Conjunction = 06:15:27.6 TD (= 06:14:20.4 UT)
 Greatest Eclipse = 06:04:32.3 TD (= 06:03:25.0 UT)
 Eclipse Magnitude = 0.9868 Gamma = -0.9999
 Saros Series = 148 Member = 21 of 75

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 02h25m52.9s
 Dec. = +14°26'54.2"
 S.D. = 00°15'52.9"
 H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 02h26m46.0s
 Dec. = +13°31'06.9"
 S.D. = 00°15'38.4"
 H.P. = 00°57'24.1"



External/Internal
Contacts of Penumbra

P1 = 03:52:38.2 UT
 P4 = 08:14:29.2 UT

External/Internal
Contacts of Umbra

U1 = 05:57:35.1 UT
 U4 = 06:09:36.2 UT

Local Circumstances at Greatest Eclipse

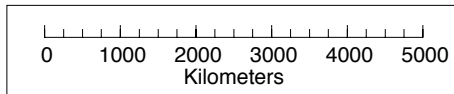
Lat. = 70°38.7'S Sun Alt. = 0.0°
 Long. = 131°15.6'E Sun Azm. = 318.8°
 Path Width = 0.0 km Duration = 00m00.0s

Constants & Ephemeris

$\Delta T = 67.2$ s
 $k1 = 0.2724880$
 $k2 = 0.2722810$
 $\Delta b = 0.0''$ $\Delta l = 0.0''$
 Eph. = VSOP87/ELP2000-85

Geocentric Libration
(Optical + Physical)

$l = 4.74^\circ$
 $b = 1.29^\circ$
 $c = -20.10^\circ$
 Brown Lun. No. = 1130



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eclipse.gsfc.nasa.gov/eclipse.html