

# Annular Solar Eclipse of -0479 Oct 02

Ecliptic Conjunction = 16:35:54.3 TD (= 11:56:53.6 UT)  
 Greatest Eclipse = 16:30:01.4 TD (= 11:51:00.8 UT)

Eclipse Magnitude = 0.9324      Gamma = 0.4951

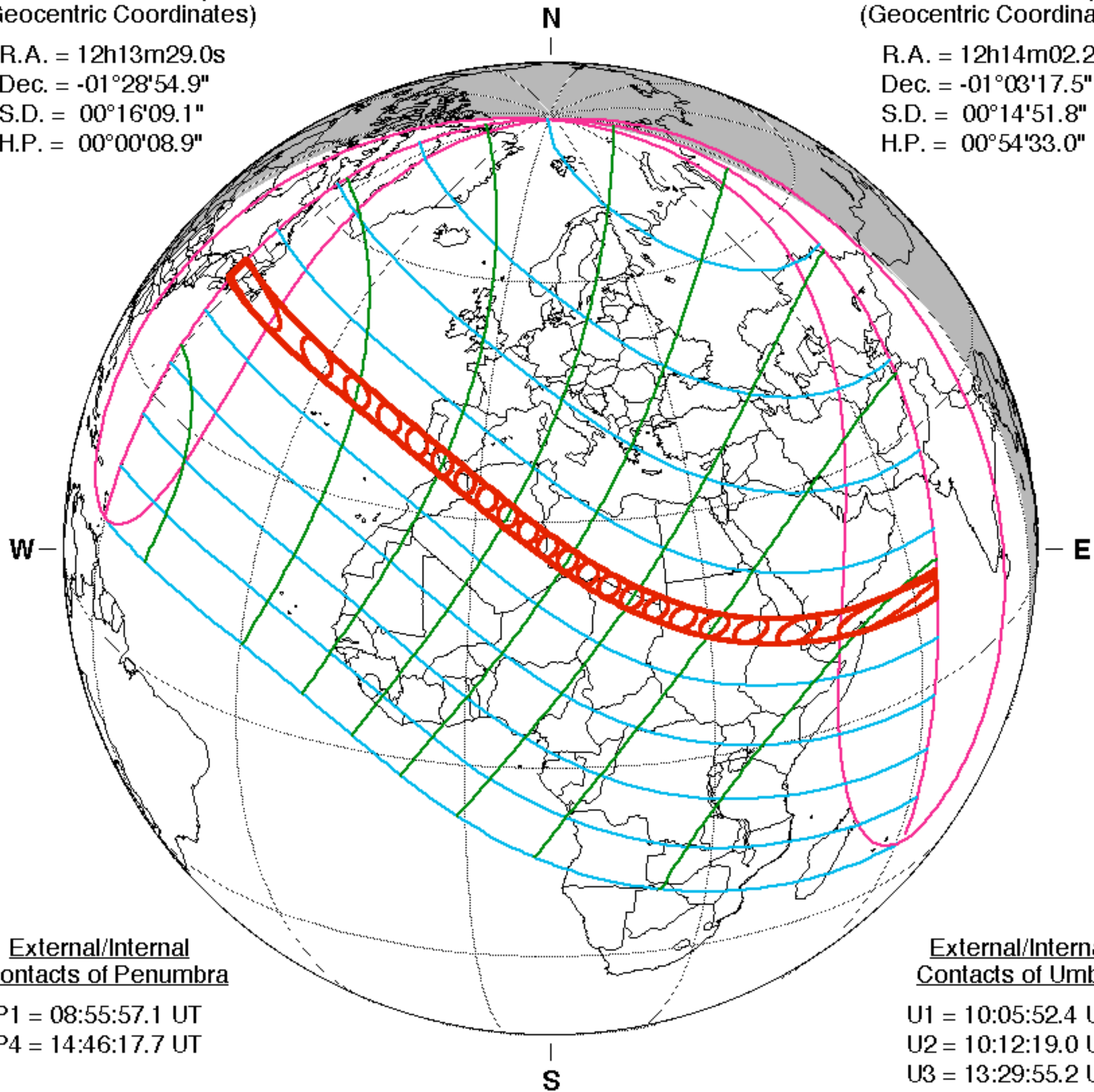
Saros Series = 65      Member = 16 of 71

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h13m29.0s  
 Dec. = -01°28'54.9"  
 S.D. = 00°16'09.1"  
 H.P. = 00°00'08.9"

## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h14m02.2s  
 Dec. = -01°03'17.5"  
 S.D. = 00°14'51.8"  
 H.P. = 00°54'33.0"



## External/Internal Contacts of Penumbra

P1 = 08:55:57.1 UT  
 P4 = 14:46:17.7 UT

## External/Internal Contacts of Umbra

U1 = 10:05:52.4 UT  
 U2 = 10:12:19.0 UT  
 U3 = 13:29:55.2 UT  
 U4 = 13:36:25.2 UT

## Local Circumstances at Greatest Eclipse

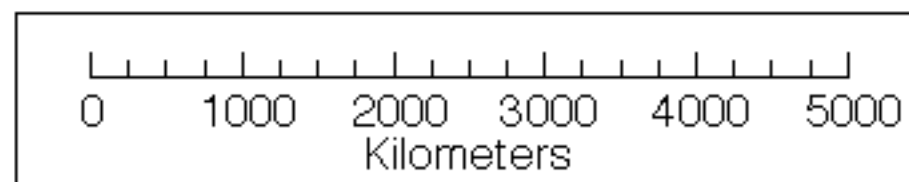
Lat. = 26°48.8'N      Sun Alt. = 60.2°  
 Long. = 010°13.7'E      Sun Azm. = 200.1°  
 Path Width = 288.5 km      Duration = 07m57.0s

## Constants & Ephemeris

$\Delta T = 16740.7$  s  
 $k1 = 0.2724880$   
 $k2 = 0.2722810$   
 $\Delta b = 0.0''$        $\Delta l = 0.0''$   
 Eph. = VSOP87/ELP2000-82

## Geocentric Libration (Optical + Physical)

$l = 3.12^\circ$   
 $b = -0.61^\circ$   
 $c = 25.25^\circ$   
 Brown Lun. No. = -29699



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[eclipse.gsfc.nasa.gov/eclipse.html](http://eclipse.gsfc.nasa.gov/eclipse.html)