

Annular Solar Eclipse of 2016 Sep 01

Greatest Eclipse = 09:08:02.0 TD (= 09:06:53.8 UT1)

Eclipse Magnitude = 0.9736

Saros Series = 135

Gamma = -0.3330

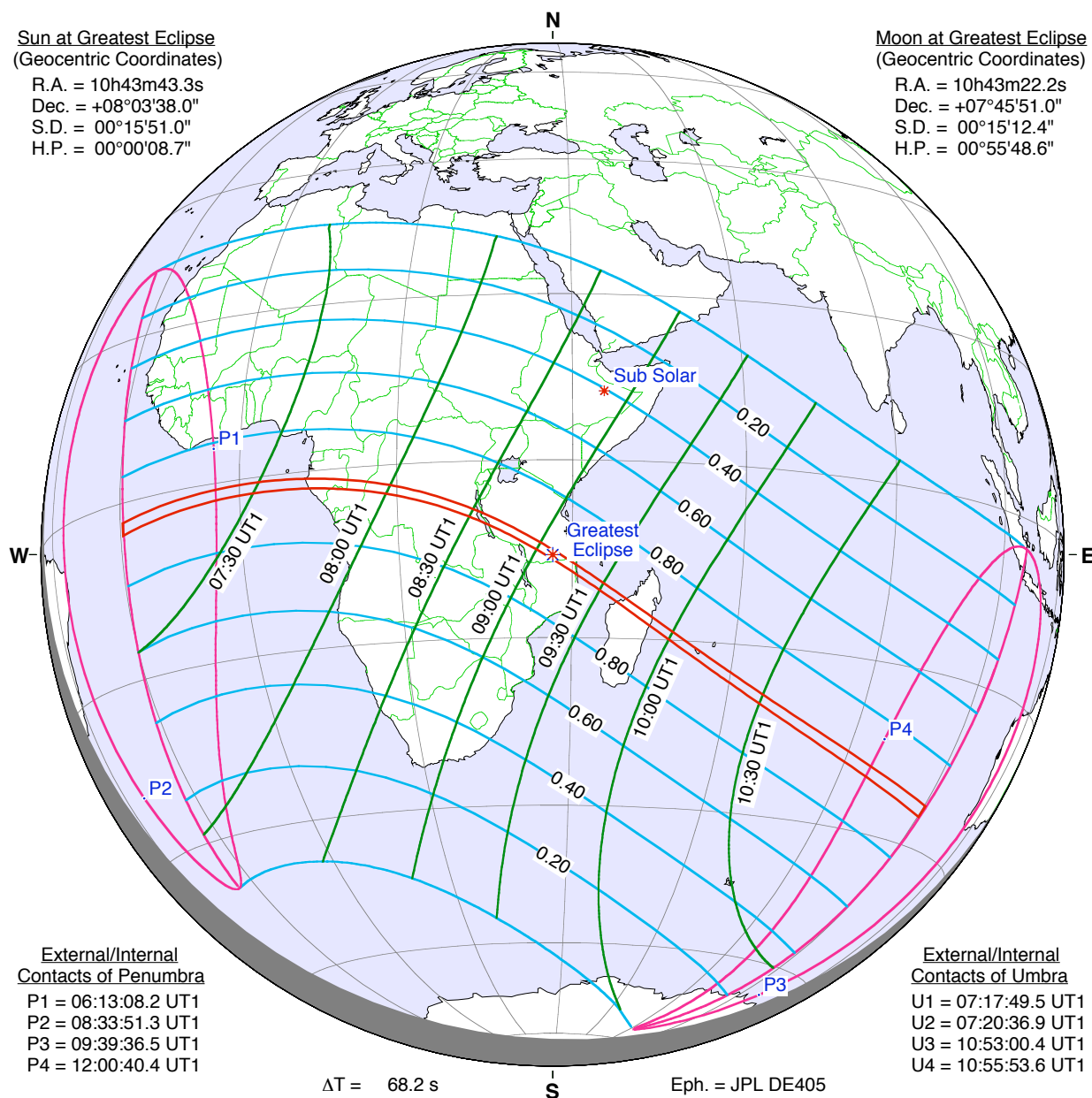
Saros Member = 39 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 10h43m43.3s
Dec. = +08°03'38.0"
S.D. = 00°15'51.0"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 10h43m22.2s
Dec. = +07°45'51.0"
S.D. = 00°15'12.4"
H.P. = 00°55'48.6"



External/Internal Contacts of Penumbra

P1 = 06:13:08.2 UT1
P2 = 08:33:51.3 UT1
P3 = 09:39:36.5 UT1
P4 = 12:00:40.4 UT1

External/Internal Contacts of Umbra

U1 = 07:17:49.5 UT1
U2 = 07:20:36.9 UT1
U3 = 10:53:00.4 UT1
U4 = 10:55:53.6 UT1

$\Delta T = 68.2$ s

S

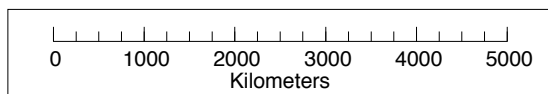
Eph. = JPL DE405

Circumstances at Greatest Eclipse: 09:06:53.8 UT1

Lat. = 10°40.9'S Sun Alt. = 70.5°
Long. = 037°45.7'E Sun Azm. = 16.4°
Path Width = 99.7 km Duration = 03m05.6s

Circumstances at Greatest Duration: 09:05:09.6 UT1

Lat. = 10°25.9'S Sun Alt. = 70.5°
Long. = 037°20.7'E Sun Azm. = 19.1°
Path Width = 99.8 km Duration = 03m05.6s



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