

Annular Solar Eclipse of 0671 Dec 07

Ecliptic Conjunction = 09:56:14.4 TD (= 08:48:48.2 UT)

Greatest Eclipse = 09:48:17.9 TD (= 08:40:51.7 UT)

Eclipse Magnitude = 0.9238 Gamma = 0.6733

Saros Series = 101 Member = 20 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 17h09m06.6s

Dec. = -23°05'29.4"

S.D. = 00°16'16.4"

H.P. = 00°00'08.9"

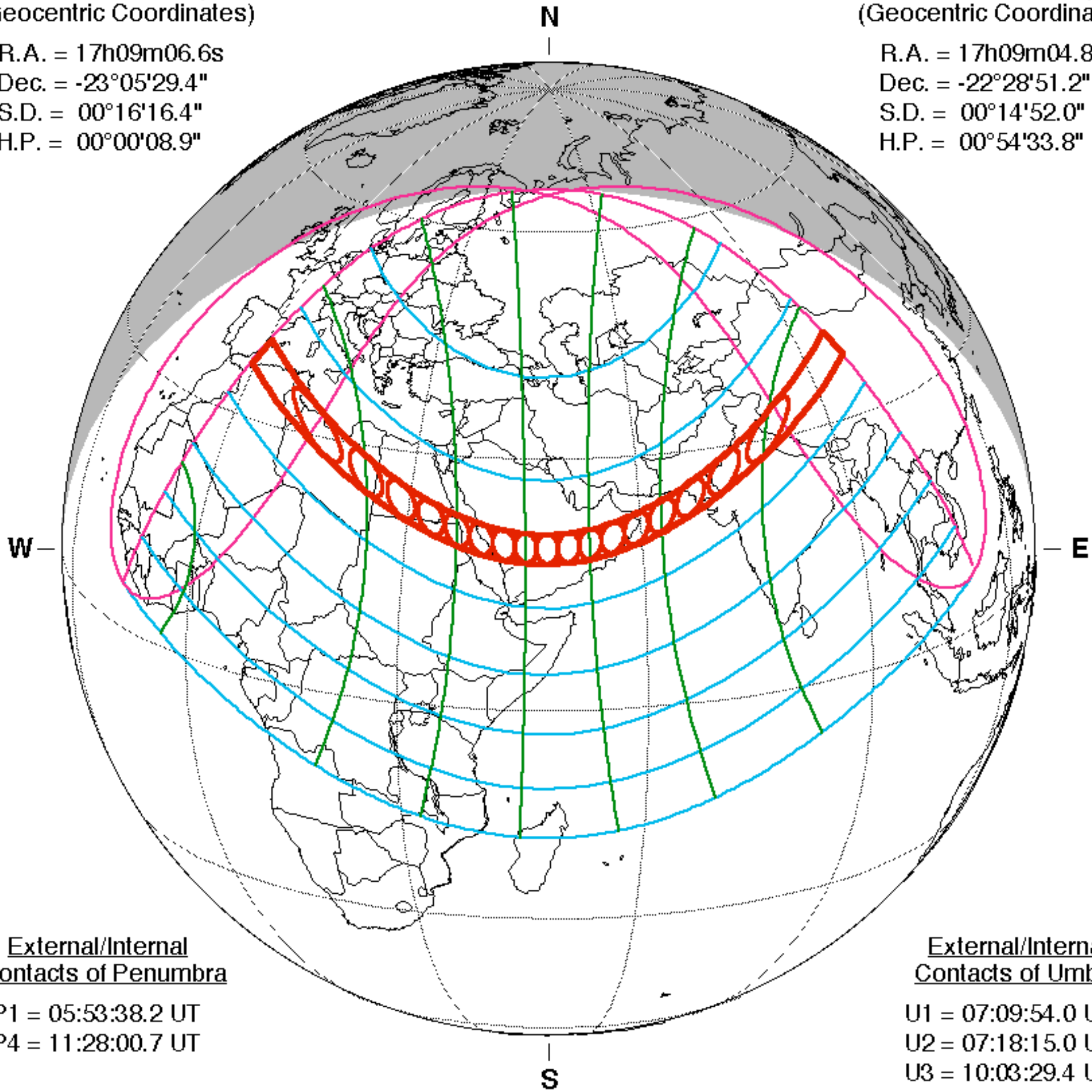
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 17h09m04.8s

Dec. = -22°28'51.2"

S.D. = 00°14'52.0"

H.P. = 00°54'33.8"



External/Internal Contacts of Penumbra

P1 = 05:53:38.2 UT

P4 = 11:28:00.7 UT

External/Internal Contacts of Umbra

U1 = 07:09:54.0 UT

U2 = 07:18:15.0 UT

U3 = 10:03:29.4 UT

U4 = 10:11:46.6 UT

Local Circumstances at Greatest Eclipse

Lat. = 19°22.2'N

Sun Alt. = 47.5°

Long. = 048°14.8'E

Sun Azm. = 179.4°

Path Width = 389.0 km Duration = 10m17.8s

Constants & Ephemeris

$\Delta T = 4046.2$ s

$k1 = 0.2724880$

$k2 = 0.2722810$

$\Delta b = 0.0''$ $\Delta l = 0.0''$

Eph. = VSOP87/ELP2000-82

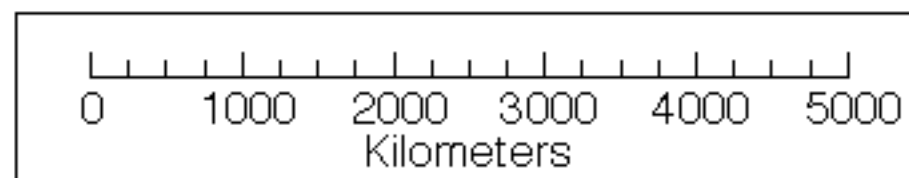
Geocentric Libration (Optical + Physical)

$l = -3.03^\circ$

$b = -0.76^\circ$

$c = 6.61^\circ$

Brown Lun. No. = -15473



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eclipse.gsfc.nasa.gov/eclipse.html