

Annular Solar Eclipse of 0632 Jan 27

Ecliptic Conjunction = 07:52:33.1 TD (= 06:38:59.2 UT)

Greatest Eclipse = 07:45:01.3 TD (= 06:31:27.4 UT)

Eclipse Magnitude = 0.9836 Gamma = 0.6856

Saros Series = 99 Member = 23 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h48m59.0s

Dec. = -17°56'08.4"

S.D. = 00°16'10.5"

H.P. = 00°00'08.9"

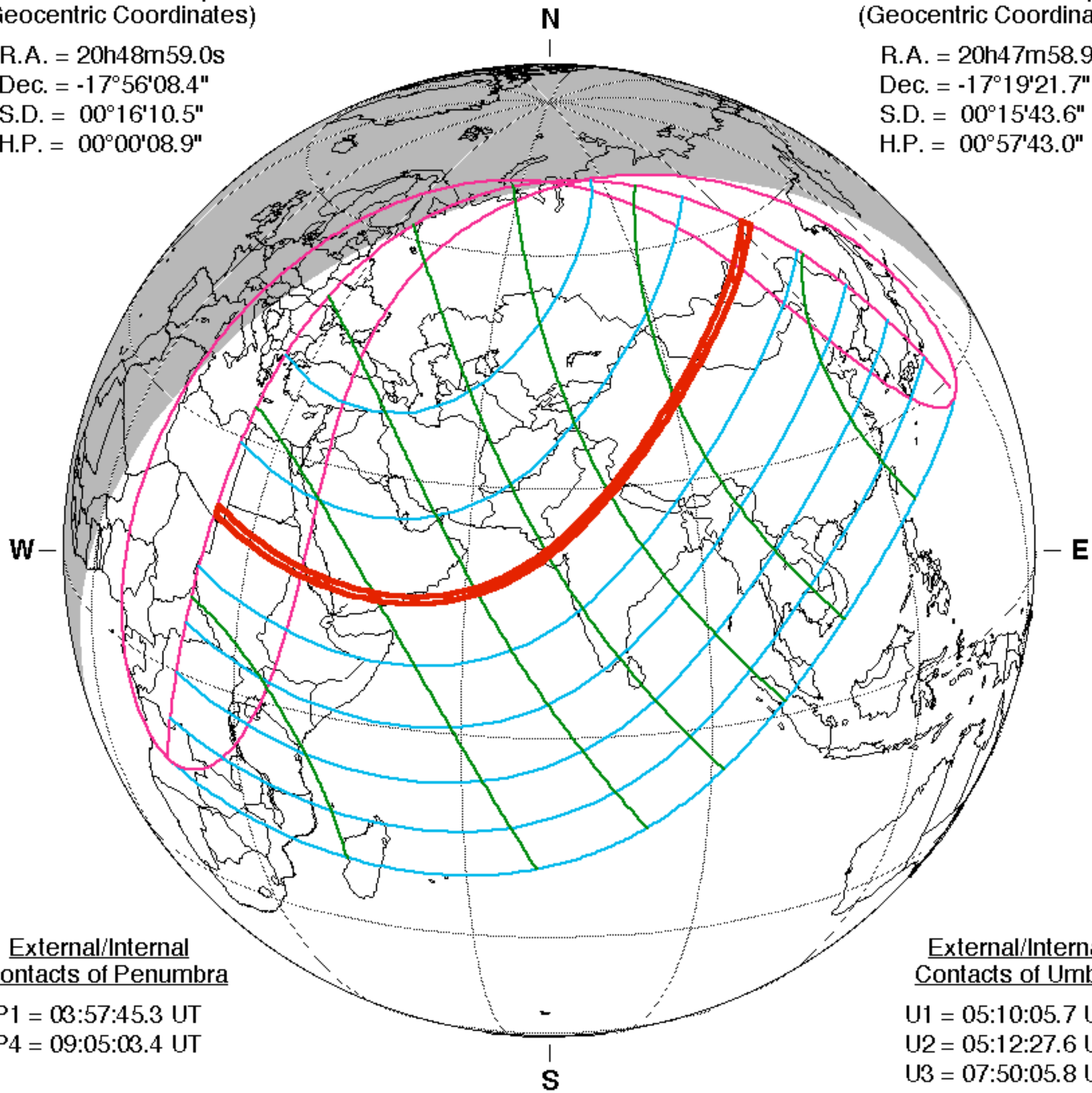
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h47m58.9s

Dec. = -17°19'21.7"

S.D. = 00°15'43.6"

H.P. = 00°57'43.0"



External/Internal Contacts of Penumbra

P1 = 03:57:45.3 UT

P4 = 09:05:03.4 UT

External/Internal Contacts of Umbra

U1 = 05:10:05.7 UT

U2 = 05:12:27.6 UT

U3 = 07:50:05.8 UT

U4 = 07:52:33.8 UT

Local Circumstances at Greatest Eclipse

Lat. = 22°42.5'N

Sun Alt. = 46.6°

Long. = 070°30.0'E

Sun Azm. = 158.1°

Path Width = 78.4 km Duration = 01m40.2s

Constants & Ephemeris

$\Delta T = 4414.0$ s

$k1 = 0.2724880$

$k2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

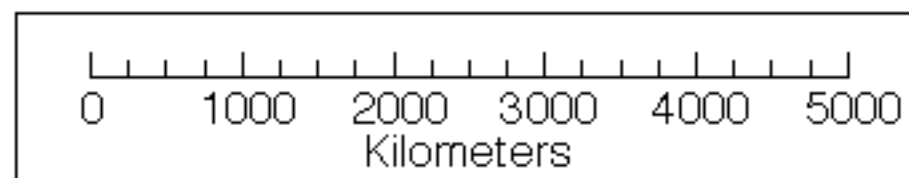
Geocentric Libration (Optical + Physical)

$l = 4.72^\circ$

$b = -0.87^\circ$

$c = -14.03^\circ$

Brown Lun. No. = -15966



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eclipse.gsfc.nasa.gov/eclipse.html