

Annular Solar Eclipse of -0430 Aug 03

Ecliptic Conjunction = 19:10:57.1 TD (= 14:45:33.7 UT)

Greatest Eclipse = 19:20:15.2 TD (= 14:54:51.8 UT)

Eclipse Magnitude = 0.9843 Gamma = 0.8388

Saros Series = 48 Member = 51 of 74

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 08h28m14.2s

Dec. = +19°20'51.4"

S.D. = 00°15'52.3"

H.P. = 00°00'08.7"

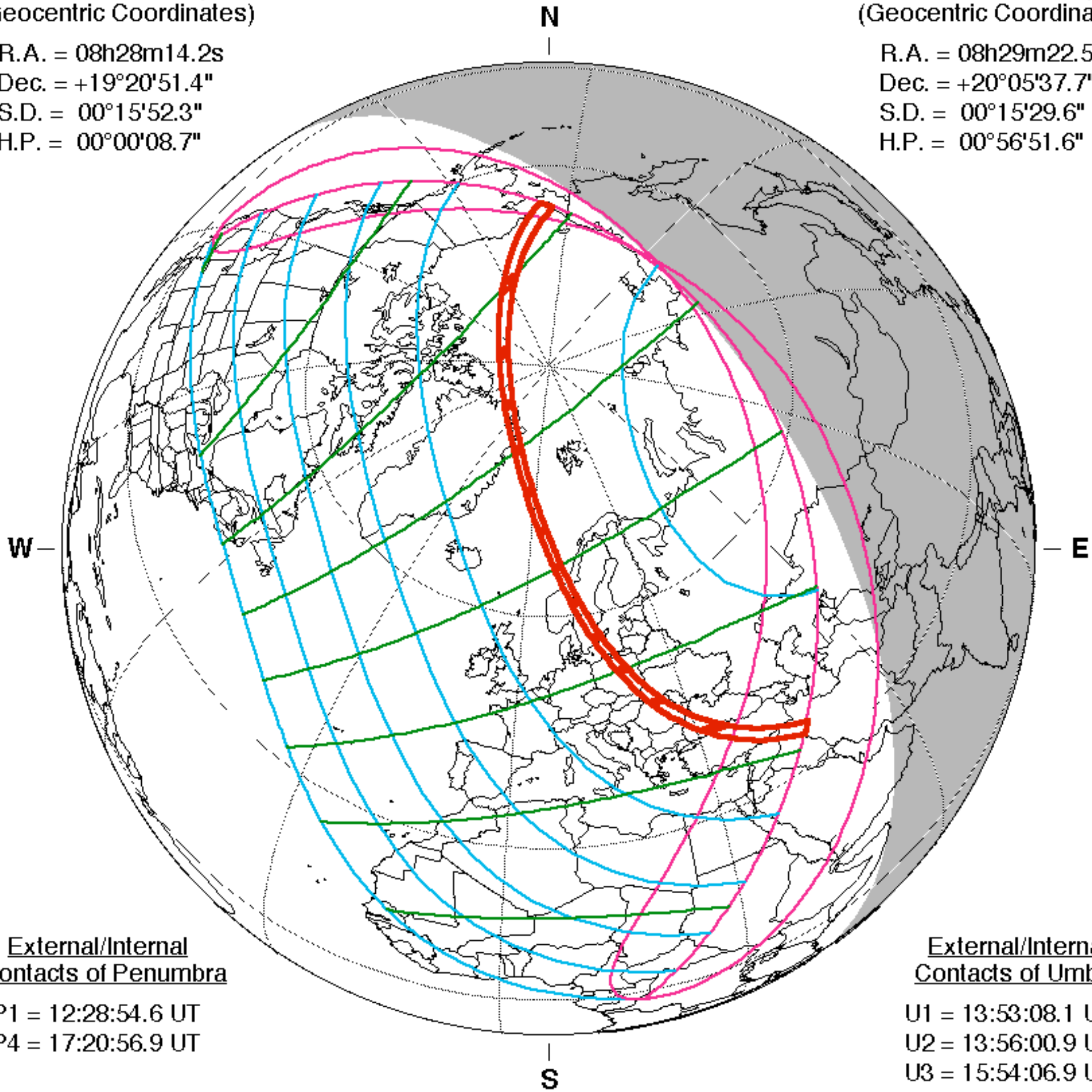
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 08h29m22.5s

Dec. = +20°05'37.7"

S.D. = 00°15'29.6"

H.P. = 00°56'51.6"



External/Internal Contacts of Penumbra

P1 = 12:28:54.6 UT

P4 = 17:20:56.9 UT

External/Internal Contacts of Umbra

U1 = 13:53:08.1 UT

U2 = 13:56:00.9 UT

U3 = 15:54:06.9 UT

U4 = 15:56:53.7 UT

Local Circumstances at Greatest Eclipse

Lat. = 68°00.2'N

Sun Alt. = 32.7°

Long. = 005°52.1'E

Sun Azm. = 237.6°

Path Width = 102.0 km Duration = 01m04.5s

Constants & Ephemeris

$\Delta T = 15923.4$ s

$k1 = 0.2724880$

$k2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

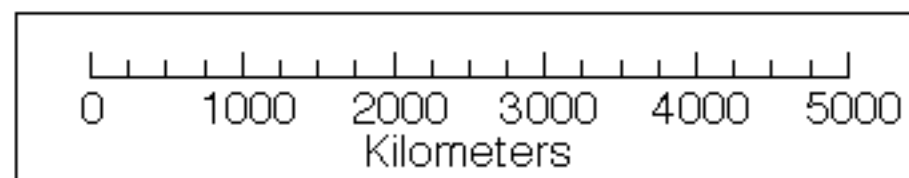
Geocentric Libration (Optical + Physical)

$l = -4.72^\circ$

$b = -1.03^\circ$

$c = 12.62^\circ$

Brown Lun. No. = -29095



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eclipse.gsfc.nasa.gov/eclipse.html