

Annular Solar Eclipse of 1337 Mar 03

Ecliptic Conjunction = 08:47:46.1 TD (= 08:40:49.3 UT)

Greatest Eclipse = 08:40:41.5 TD (= 08:33:44.6 UT)

Eclipse Magnitude = 0.9543 Gamma = 0.6182

Saros Series = 119 Member = 28 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h26m16.2s

Dec. = -03°39'11.5"

S.D. = 00°16'02.9"

H.P. = 00°00'08.8"

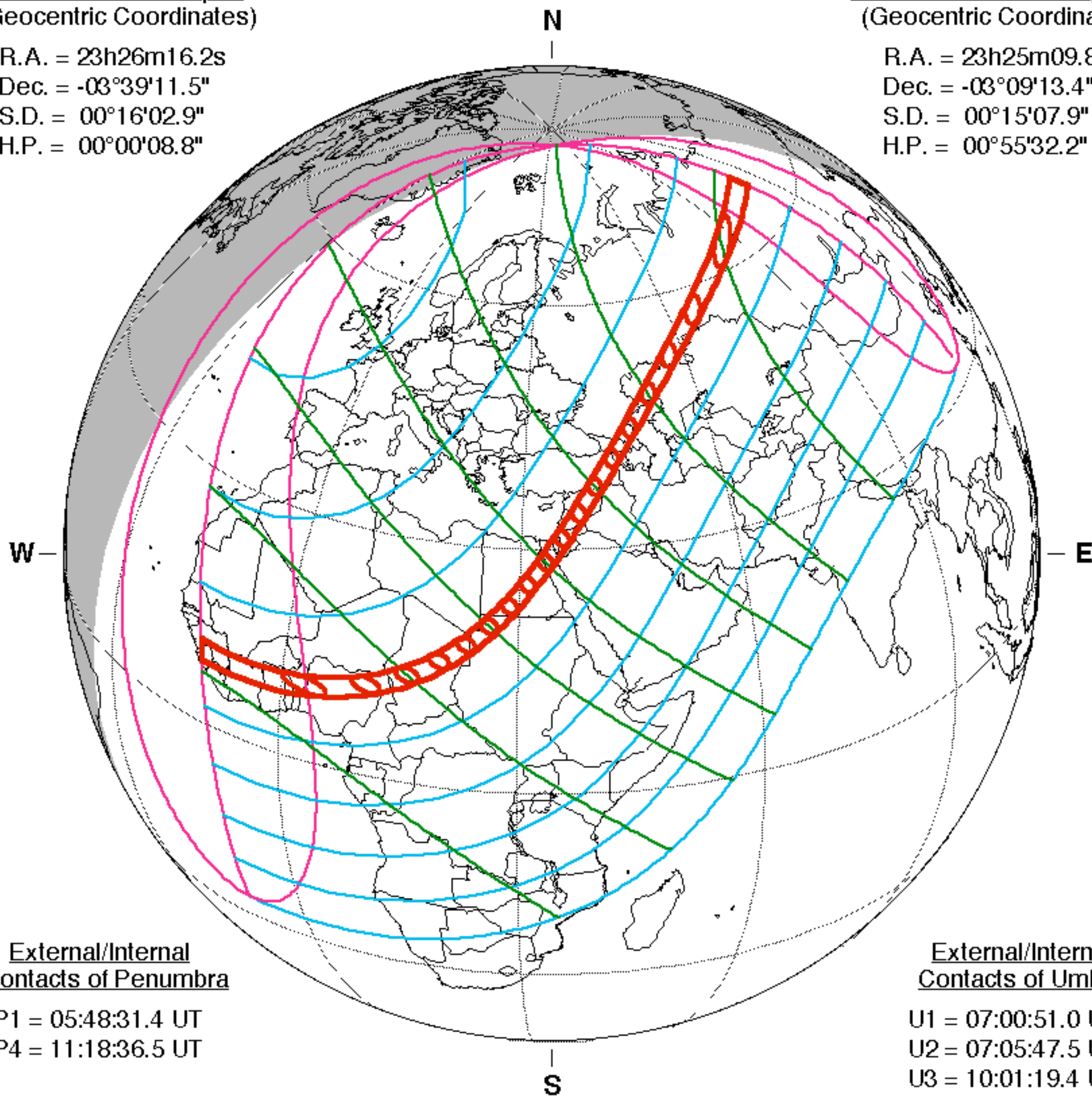
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h25m09.8s

Dec. = -03°09'13.4"

S.D. = 00°15'07.9"

H.P. = 00°55'32.2"



External/Internal Contacts of Penumbra

P1 = 05:48:31.4 UT

P4 = 11:18:36.5 UT

External/Internal Contacts of Umbra

U1 = 07:00:51.0 UT

U2 = 07:05:47.5 UT

U3 = 10:01:19.4 UT

U4 = 10:06:11.2 UT

Local Circumstances at Greatest Eclipse

Lat. = 29°31.4'N

Sun Alt. = 51.6°

Long. = 034°08.1'E

Sun Azm. = 146.5°

Path Width = 207.1 km Duration = 04m31.7s

Constants & Ephemeris

$\Delta T = 416.8$ s

$k1 = 0.2724880$

$k2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

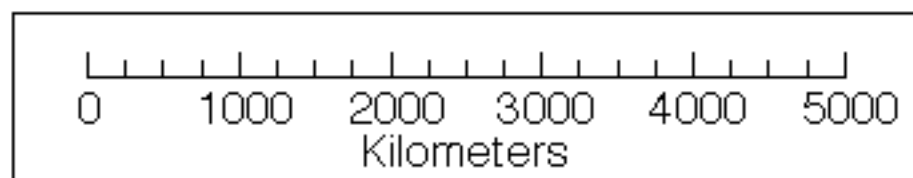
Geocentric Libration (Optical + Physical)

$l = -4.60^\circ$

$b = -0.69^\circ$

$c = -21.70^\circ$

Brown Lun. No. = -7245



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eclipse.gsfc.nasa.gov/eclipse.html