

Total Solar Eclipse of -0762 Jun 15

Ecliptic Conjunction = 14:04:43.5 TD (= 08:11:12.9 UT)

Greatest Eclipse = 14:07:32.0 TD (= 08:14:01.4 UT)

Eclipse Magnitude = 1.0596 Gamma = 0.2715

Saros Series = 44 Member = 39 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h53m47.3s

Dec. = +22°54'17.4"

S.D. = 00°15'43.8"

H.P. = 00°00'08.6"

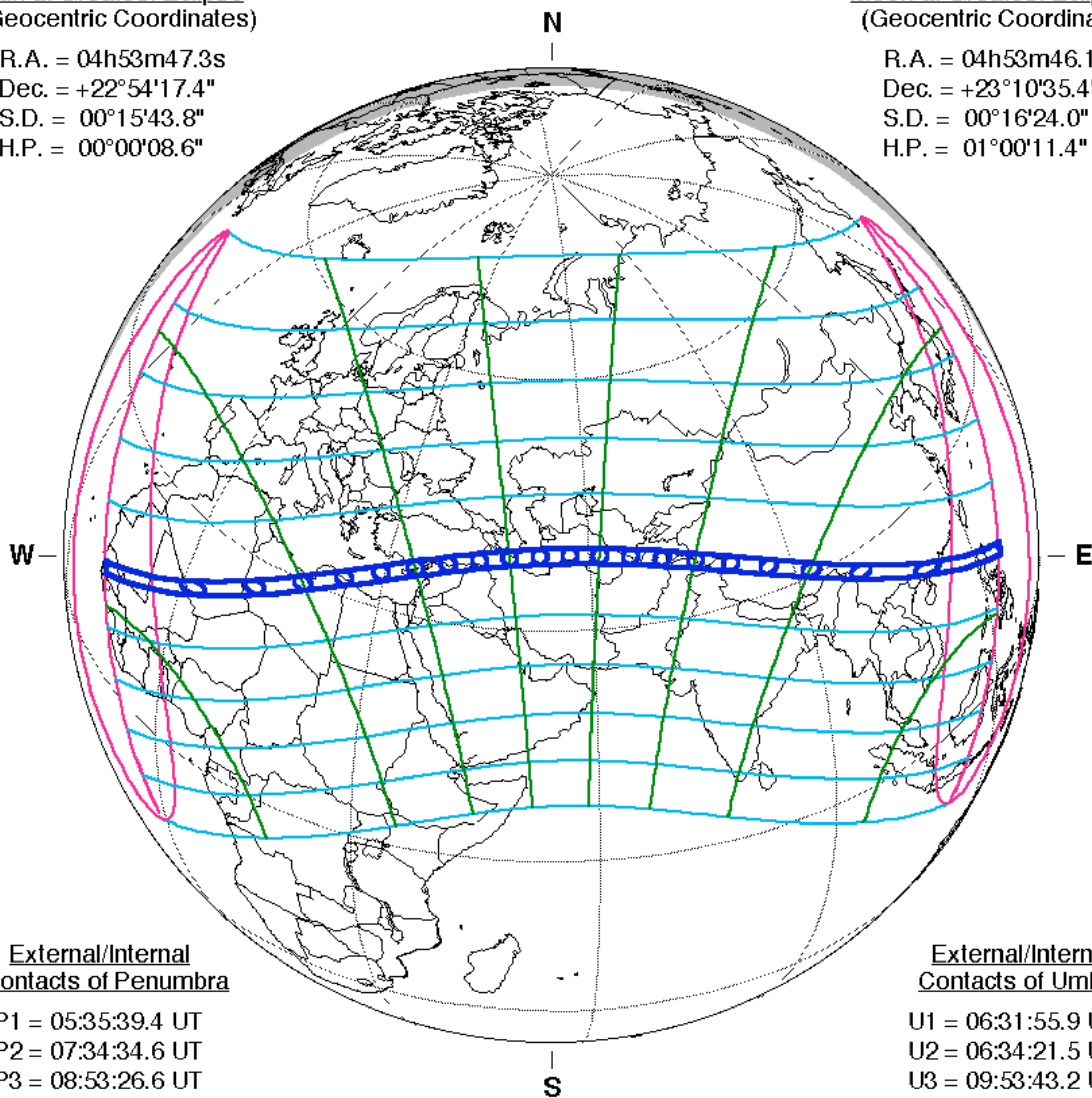
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h53m46.1s

Dec. = +23°10'35.4"

S.D. = 00°16'24.0"

H.P. = 01°00'11.4"



External/Internal Contacts of Penumbra

P1 = 05:35:39.4 UT

P2 = 07:34:34.6 UT

P3 = 08:53:26.6 UT

P4 = 10:52:27.2 UT

External/Internal Contacts of Umbra

U1 = 06:31:55.9 UT

U2 = 06:34:21.5 UT

U3 = 09:53:43.2 UT

U4 = 09:56:05.1 UT

Local Circumstances at Greatest Eclipse

Lat. = 38°52.0'N

Sun Alt. = 74.0°

Long. = 054°19.9'E

Sun Azm. = 178.9°

Path Width = 203.8 km Duration = 05m00.2s

Constants & Ephemeris

$\Delta T = 21210.6$ s

$k1 = 0.2724880$

$k2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

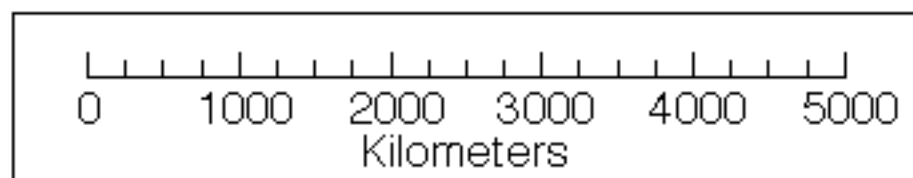
Geocentric Libration (Optical + Physical)

$l = 3.51^\circ$

$b = -0.29^\circ$

$c = -8.11^\circ$

Brown Lun. No. = -33203



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eclipse.gsfc.nasa.gov/eclipse.html