

Total Solar Eclipse of 0346 Jun 06

Ecliptic Conjunction = 07:23:48.7 TD (= 05:23:54.0 UT)

Greatest Eclipse = 07:17:19.1 TD (= 05:17:24.4 UT)

Eclipse Magnitude = 1.0586 Gamma = 0.6346

Saros Series = 91 Member = 29 of 75

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h53m23.4s

Dec. = +22°45'50.0"

S.D. = 00°15'43.2"

H.P. = 00°00'08.6"

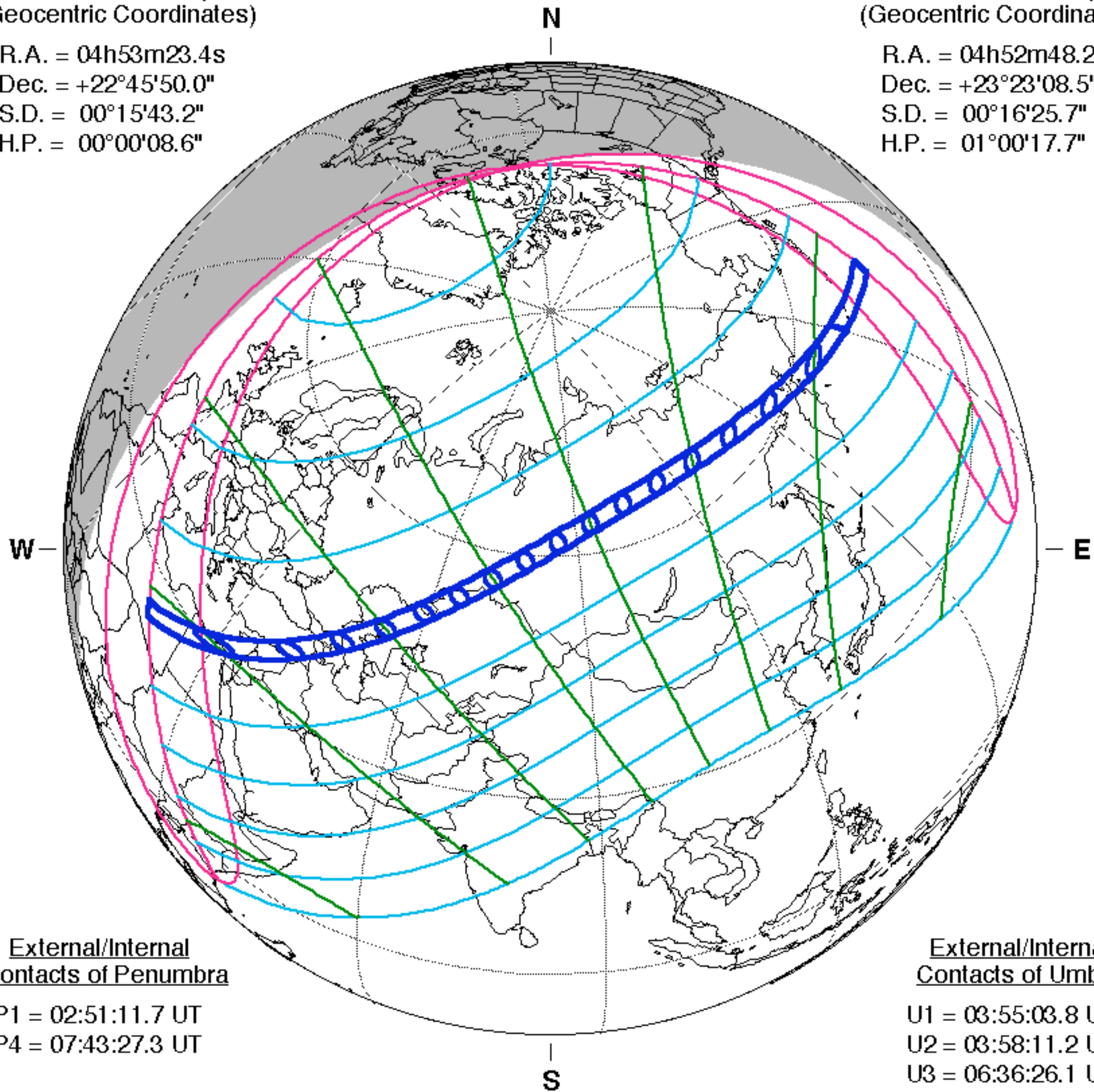
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h52m48.2s

Dec. = +23°23'08.5"

S.D. = 00°16'25.7"

H.P. = 01°00'17.7"



External/Internal Contacts of Penumbra

P1 = 02:51:11.7 UT

P4 = 07:43:27.3 UT

External/Internal Contacts of Umbra

U1 = 03:55:03.8 UT

U2 = 03:58:11.2 UT

U3 = 06:36:26.1 UT

U4 = 06:39:37.3 UT

Local Circumstances at Greatest Eclipse

Lat. = 60°51.2'N

Sun Alt. = 50.3°

Long. = 083°27.3'E

Sun Azm. = 156.7°

Path Width = 249.9 km Duration = 03m57.5s

Constants & Ephemeris

$\Delta T = 7194.7$ s

$k1 = 0.2724880$

$k2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

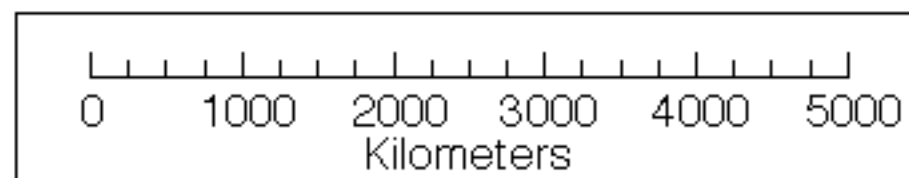
Geocentric Libration (Optical + Physical)

$l = -3.33^\circ$

$b = -0.79^\circ$

$c = -5.15^\circ$

Brown Lun. No. = -19499



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eclipse.gsfc.nasa.gov/eclipse.html