

Total Solar Eclipse of 1922 Sep 21

Ecliptic Conjunction = 04:38:20.9 TD (= 04:37:57.9 UT)

Greatest Eclipse = 04:40:31.1 TD (= 04:40:08.1 UT)

Eclipse Magnitude = 1.0678 Gamma = -0.2130

Saros Series = 133 Member = 40 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h50m29.6s

Dec. = +01°01'49.3"

S.D. = 00°15'56.0"

H.P. = 00°00'08.8"

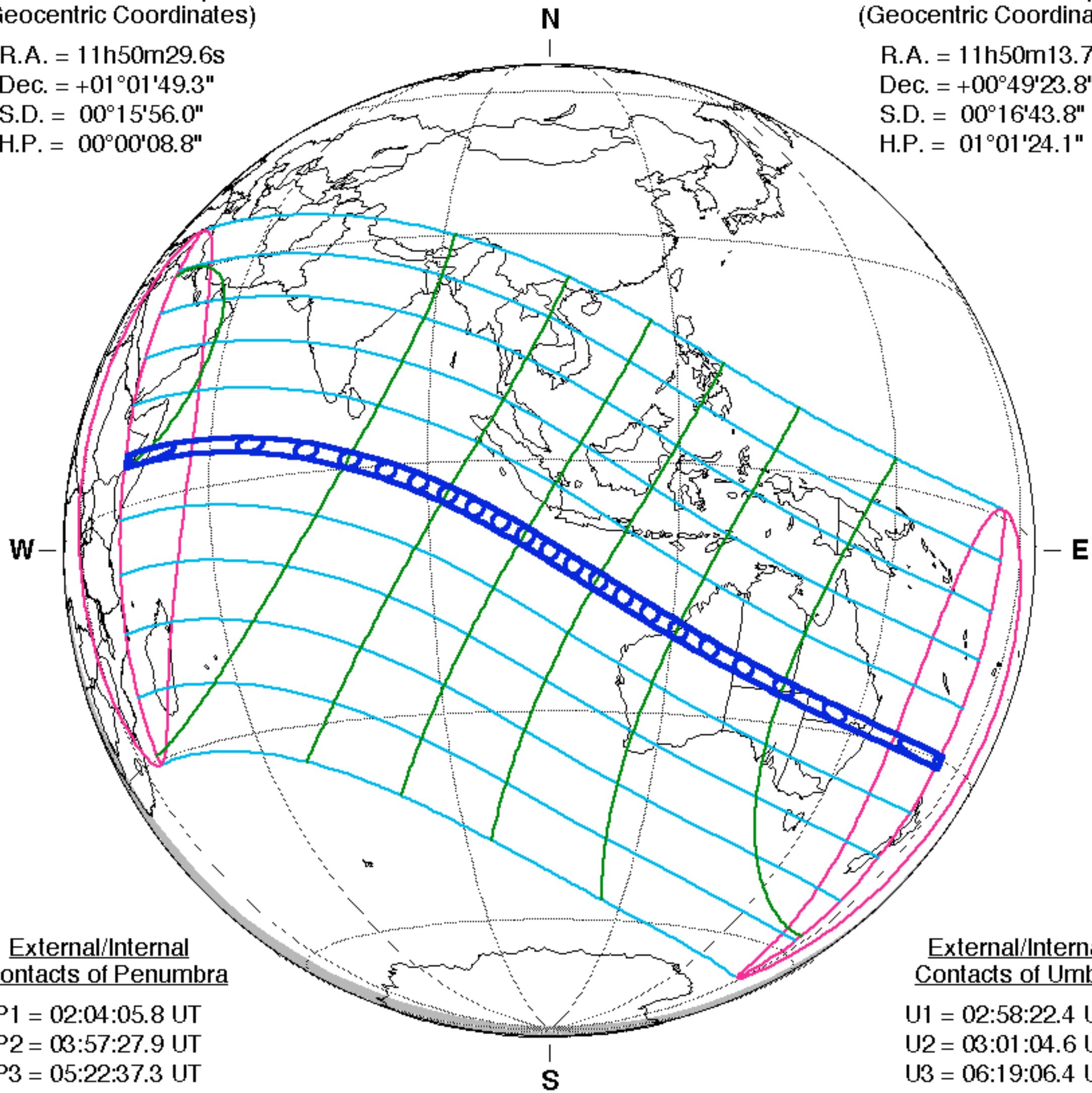
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h50m13.7s

Dec. = +00°49'23.8"

S.D. = 00°16'43.8"

H.P. = 01°01'24.1"



External/Internal Contacts of Penumbra

P1 = 02:04:05.8 UT

P2 = 03:57:27.9 UT

P3 = 05:22:37.3 UT

P4 = 07:16:07.1 UT

External/Internal Contacts of Umbra

U1 = 02:58:22.4 UT

U2 = 03:01:04.6 UT

U3 = 06:19:06.4 UT

U4 = 06:21:48.8 UT

Local Circumstances at Greatest Eclipse

Lat. = 10°44.8'S

Sun Alt. = 77.6°

Long. = 104°31.2'E

Sun Azm. = 18.0°

Path Width = 226.2 km Duration = 05m58.7s

Constants & Ephemeris

$\Delta T = 23.0$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

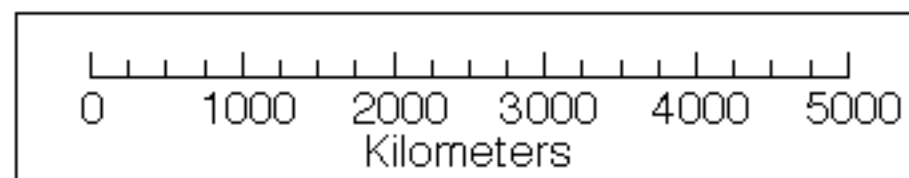
Geocentric Libration (Optical + Physical)

$l = 0.13^\circ$

$b = 0.30^\circ$

$c = 24.94^\circ$

Brown Lun. No. = -3



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eclipse.gsfc.nasa.gov/eclipse.html