

Total Solar Eclipse of 1887 Aug 19

Ecliptic Conjunction = 05:38:34.1 TD (= 05:38:40.0 UT)

Greatest Eclipse = 05:32:05.2 TD (= 05:32:11.2 UT)

Eclipse Magnitude = 1.0518 Gamma = 0.6312

Saros Series = 143 Member = 16 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h52m33.6s

Dec. = +12°53'52.0"

S.D. = 00°15'48.5"

H.P. = 00°00'08.7"

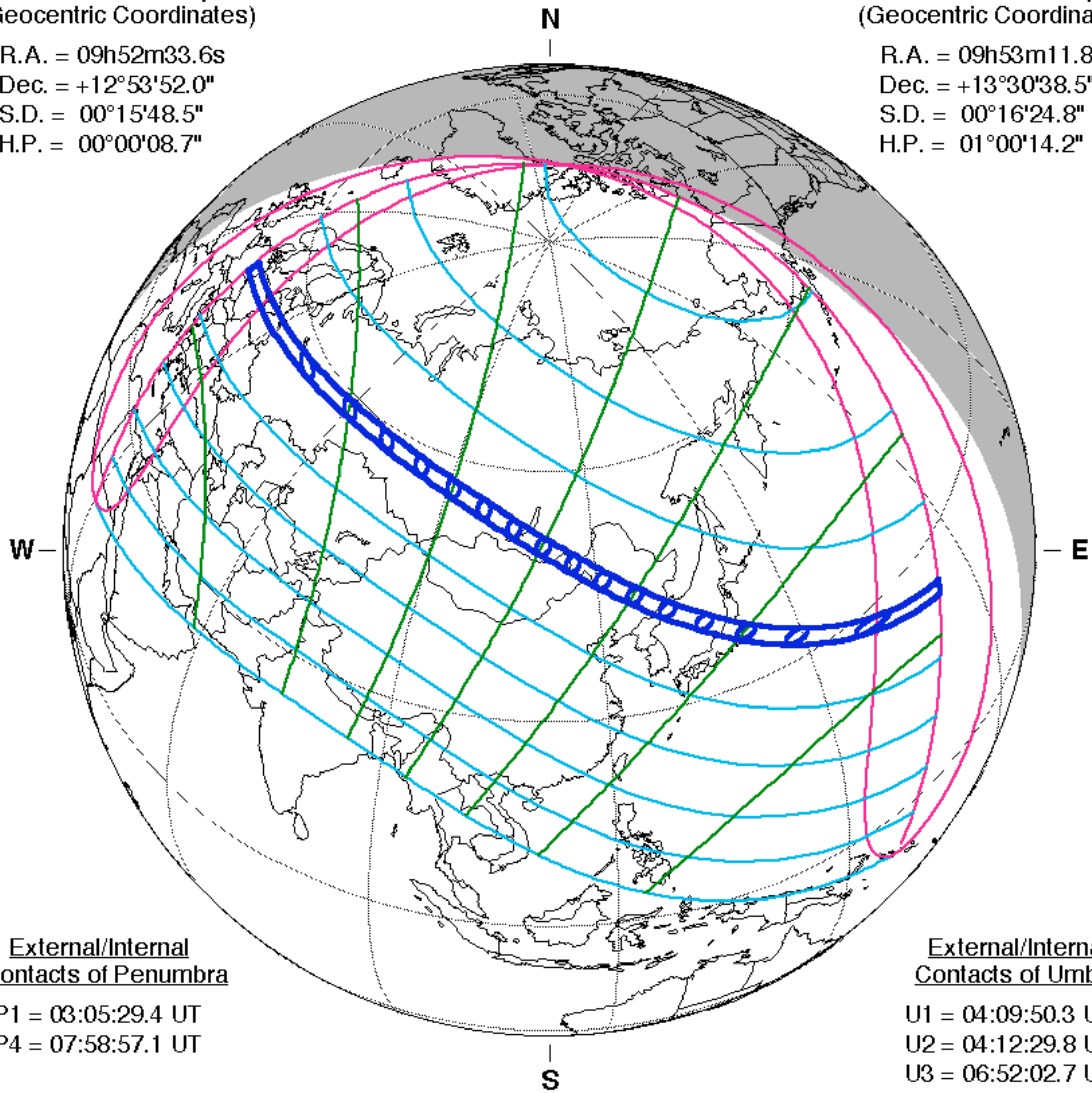
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h53m11.8s

Dec. = +13°30'38.5"

S.D. = 00°16'24.8"

H.P. = 01°00'14.2"



External/Internal Contacts of Penumbra

P1 = 03:05:29.4 UT

P4 = 07:58:57.1 UT

External/Internal Contacts of Umbra

U1 = 04:09:50.3 UT

U2 = 04:12:29.8 UT

U3 = 06:52:02.7 UT

U4 = 06:54:45.5 UT

Local Circumstances at Greatest Eclipse

Lat. = 50°36.2'N

Sun Alt. = 50.6°

Long. = 111°53.8'E

Sun Azm. = 201.9°

Path Width = 220.8 km Duration = 03m49.9s

Constants & Ephemeris

$\Delta T = -5.9$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

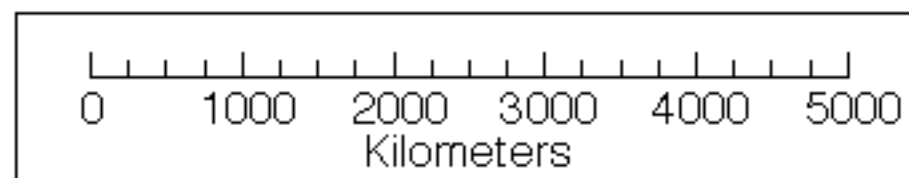
Geocentric Libration (Optical + Physical)

$l = -3.27^\circ$

$b = -0.78^\circ$

$c = 21.30^\circ$

Brown Lun. No. = -437



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eclipse.gsfc.nasa.gov/eclipse.html