

Total Solar Eclipse of 1724 May 22

Ecliptic Conjunction = 17:15:35.6 TD (= 17:15:25.4 UT)

Greatest Eclipse = 17:10:08.6 TD (= 17:09:58.5 UT)

Eclipse Magnitude = 1.0640 Gamma = 0.5318

Saros Series = 133 Member = 29 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h58m06.0s

Dec. = +20°31'19.6"

S.D. = 00°15'46.9"

H.P. = 00°00'08.7"

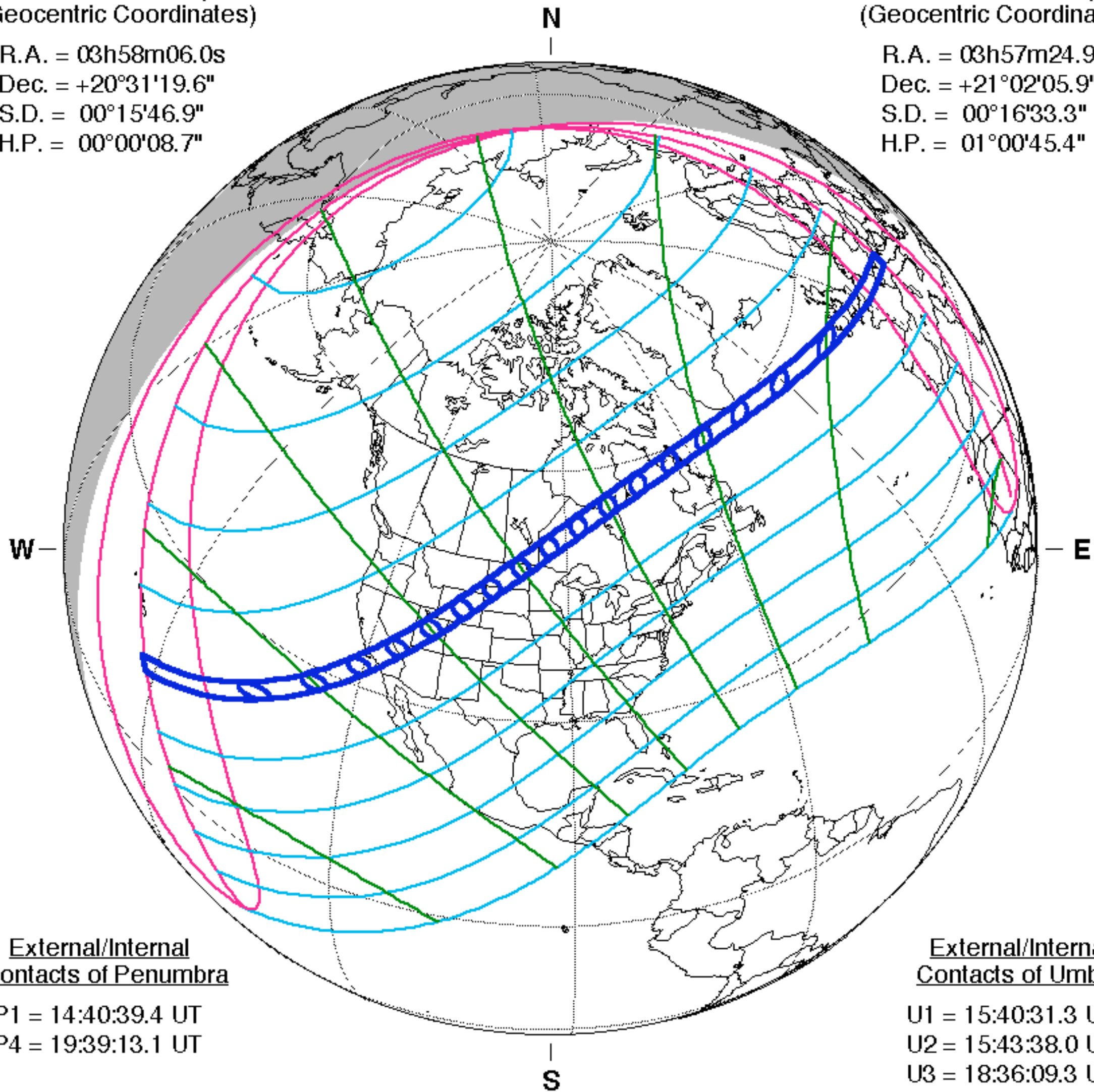
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h57m24.9s

Dec. = +21°02'05.9"

S.D. = 00°16'33.3"

H.P. = 01°00'45.4"



External/Internal Contacts of Penumbra

P1 = 14:40:39.4 UT

P4 = 19:39:13.1 UT

External/Internal Contacts of Umbra

U1 = 15:40:31.3 UT

U2 = 15:43:38.0 UT

U3 = 18:36:09.3 UT

U4 = 18:39:13.6 UT

Local Circumstances at Greatest Eclipse

Lat. = 50°49.6'N

Sun Alt. = 57.6°

Long. = 092°54.6'W

Sun Azm. = 154.1°

Path Width = 247.2 km Duration = 04m32.9s

Constants & Ephemeris

$\Delta T = 10.2$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

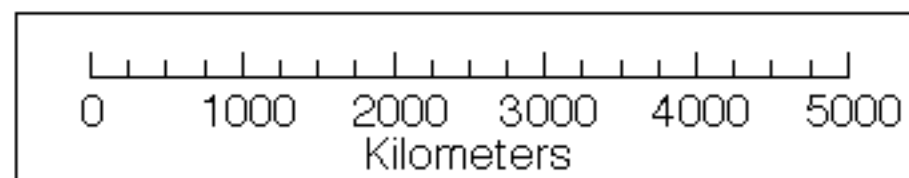
Geocentric Libration (Optical + Physical)

$l = 2.36^\circ$

$b = -0.69^\circ$

$c = -10.21^\circ$

Brown Lun. No. = -2456



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eclipse.gsfc.nasa.gov/eclipse.html