

Total Solar Eclipse of -0584 May 28

Ecliptic Conjunction = 19:32:05.1 TD (= 14:25:41.2 UT)

Greatest Eclipse = 19:28:50.3 TD (= 14:22:26.4 UT)

Eclipse Magnitude = 1.0798 Gamma = 0.3201

Saros Series = 57 Member = 33 of 73

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h49m52.7s

Dec. = +20°22'09.5"

S.D. = 00°15'42.9"

H.P. = 00°00'08.6"

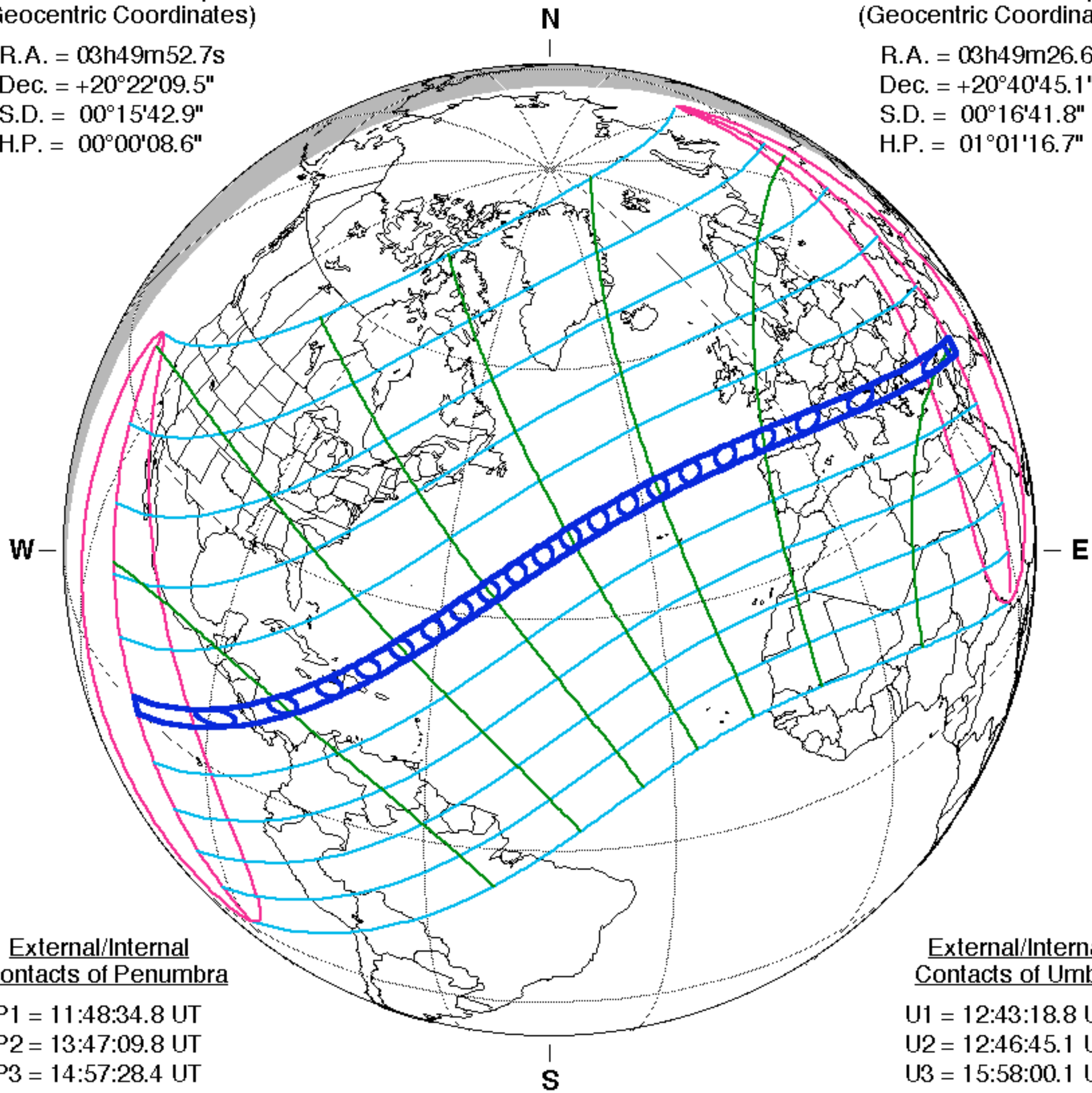
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h49m26.6s

Dec. = +20°40'45.1"

S.D. = 00°16'41.8"

H.P. = 01°01'16.7"



External/Internal Contacts of Penumbra

P1 = 11:48:34.8 UT

P2 = 13:47:09.8 UT

P3 = 14:57:28.4 UT

P4 = 16:56:12.4 UT

External/Internal Contacts of Umbra

U1 = 12:43:18.8 UT

U2 = 12:46:45.1 UT

U3 = 15:58:00.1 UT

U4 = 16:01:27.6 UT

Local Circumstances at Greatest Eclipse

Lat. = 38°09.4'N

Sun Alt. = 71.1°

Long. = 045°01.2'W

Sun Azm. = 158.5°

Path Width = 271.5 km Duration = 06m04.2s

Constants & Ephemeris

$\Delta T = 18383.9$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

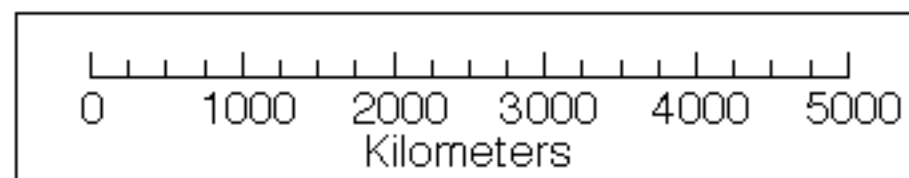
Geocentric Libration (Optical + Physical)

$l = -0.95^\circ$

$b = -0.41^\circ$

$c = -11.03^\circ$

Brown Lun. No. = -31002



F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html