

Total Solar Eclipse of -0556 May 19

Ecliptic Conjunction = 17:48:20.3 TD (= 12:49:02.4 UT)

Greatest Eclipse = 17:51:44.1 TD (= 12:52:26.3 UT)

Eclipse Magnitude = 1.0258 Gamma = 0.3145

Saros Series = 48 Member = 44 of 74

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h15m18.3s

Dec. = +18°20'03.7"

S.D. = 00°15'43.1"

H.P. = 00°00'08.6"

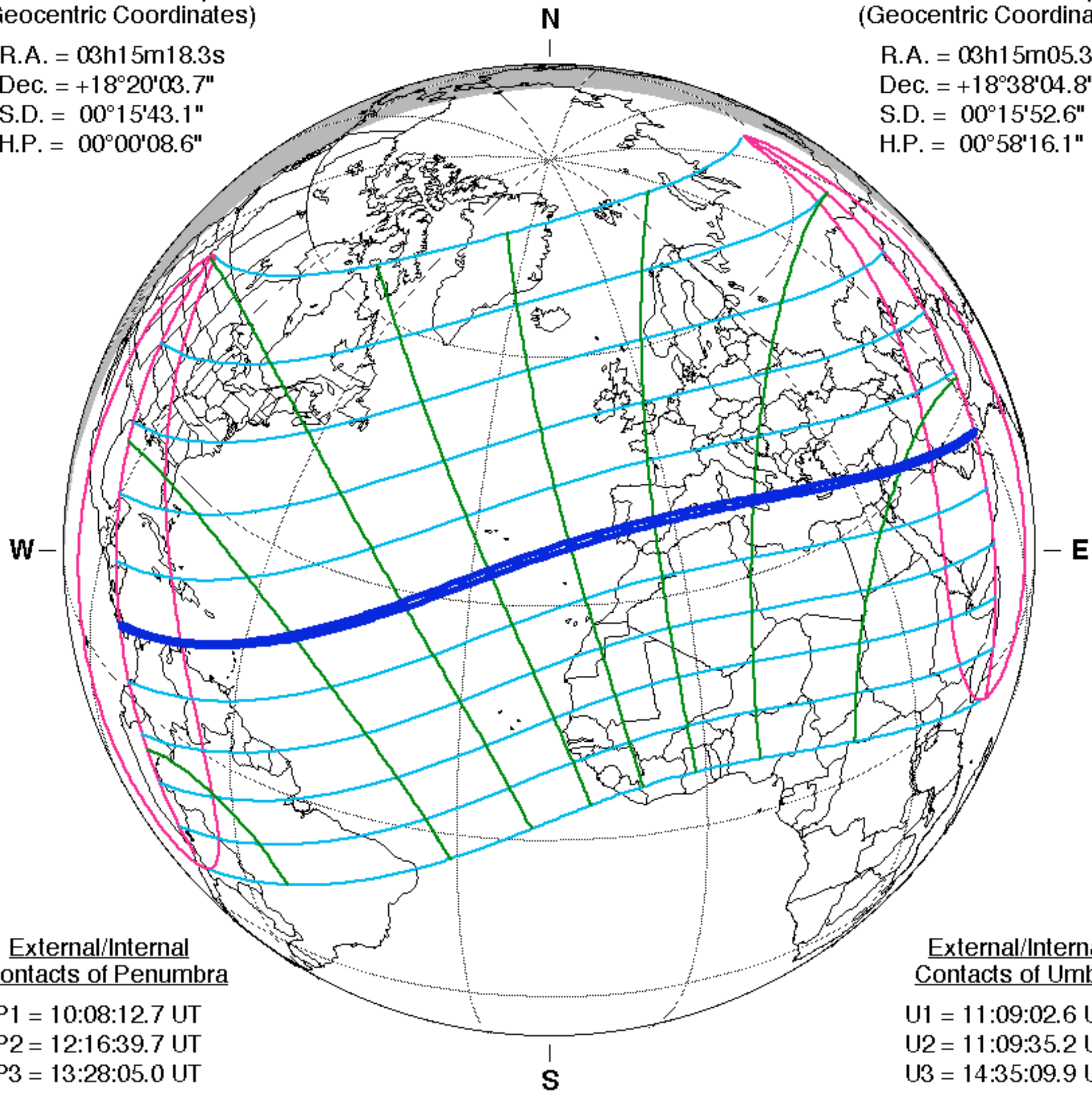
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h15m05.3s

Dec. = +18°38'04.8"

S.D. = 00°15'52.6"

H.P. = 00°58'16.1"



External/Internal Contacts of Penumbra

P1 = 10:08:12.7 UT

P2 = 12:16:39.7 UT

P3 = 13:28:05.0 UT

P4 = 15:36:31.3 UT

External/Internal Contacts of Umbra

U1 = 11:09:02.6 UT

U2 = 11:09:35.2 UT

U3 = 14:35:09.9 UT

U4 = 14:35:47.9 UT

Local Circumstances at Greatest Eclipse

Lat. = 36°34.1'N

Sun Alt. = 71.5°

Long. = 018°57.2'W

Sun Azm. = 168.6°

Path Width = 92.4 km Duration = 02m22.0s

Constants & Ephemeris

$\Delta T = 17957.9$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

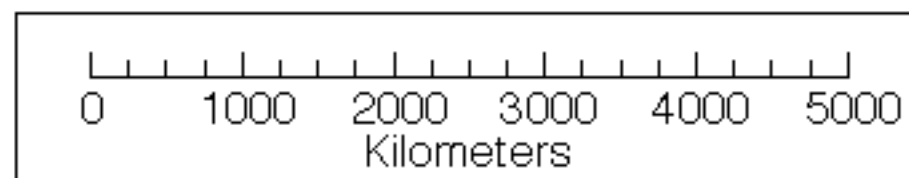
Geocentric Libration (Optical + Physical)

$l = -4.86^\circ$

$b = -0.39^\circ$

$c = -16.92^\circ$

Brown Lun. No. = -30656



F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html