

Total Solar Eclipse of 1919 May 29

Ecliptic Conjunction = 13:11:55.8 TD (= 13:11:34.8 UT)

Greatest Eclipse = 13:08:54.6 TD (= 13:08:33.6 UT)

Eclipse Magnitude = 1.0719 Gamma = -0.2955

Saros Series = 136 Member = 32 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h21m07.3s

Dec. = +21°30'15.9"

S.D. = 00°15'46.6"

H.P. = 00°00'08.7"

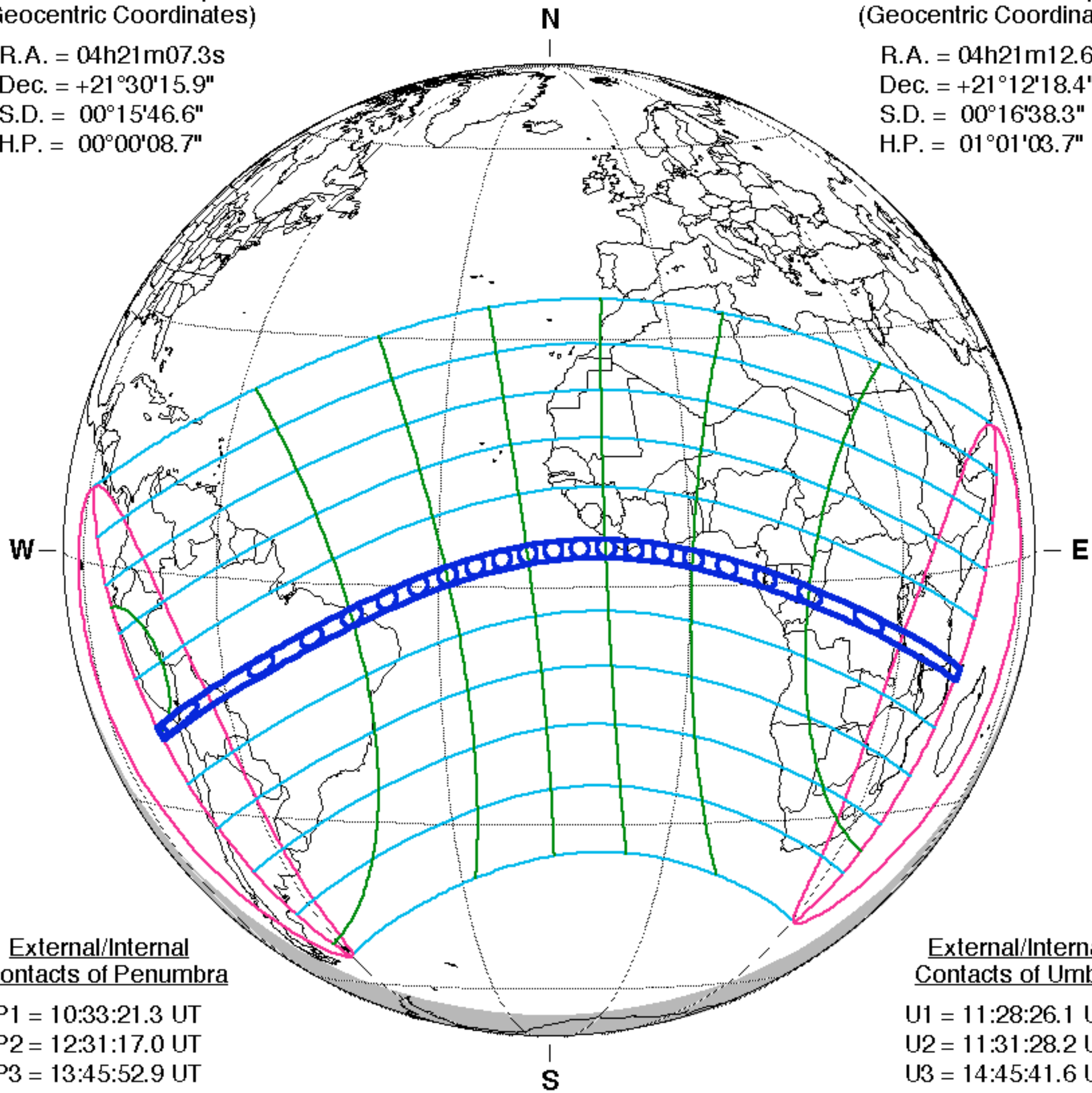
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h21m12.6s

Dec. = +21°12'18.4"

S.D. = 00°16'38.3"

H.P. = 01°01'03.7"



External/Internal Contacts of Penumbra

P1 = 10:33:21.3 UT

P2 = 12:31:17.0 UT

P3 = 13:45:52.9 UT

P4 = 15:43:48.9 UT

External/Internal Contacts of Umbra

U1 = 11:28:26.1 UT

U2 = 11:31:28.2 UT

U3 = 14:45:41.6 UT

U4 = 14:48:41.8 UT

Local Circumstances at Greatest Eclipse

Lat. = 04°23.1'N

Sun Alt. = 72.8°

Long. = 016°42.4'W

Sun Azm. = 356.3°

Path Width = 244.4 km Duration = 06m50.7s

Constants & Ephemeris

$\Delta T = 21.0$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

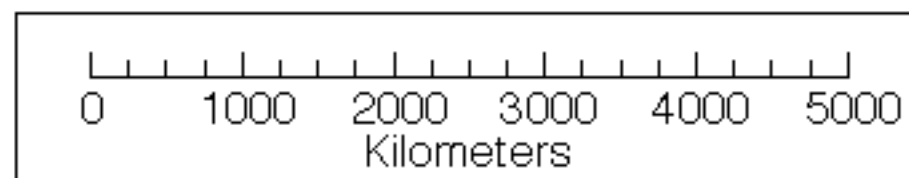
Geocentric Libration (Optical + Physical)

$l = 1.68^\circ$

$b = 0.42^\circ$

$c = -11.08^\circ$

Brown Lun. No. = -44



F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html