

Total Solar Eclipse of -0647 Apr 06

Ecliptic Conjunction = 13:46:48.7 TD (= 08:24:04.9 UT)

Greatest Eclipse = 13:53:47.0 TD (= 08:31:03.2 UT)

Eclipse Magnitude = 1.0689 Gamma = 0.6898

Saros Series = 38 Member = 61 of 73

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h33m21.8s

Dec. = +03°39'21.0"

S.D. = 00°15'48.7"

H.P. = 00°00'08.7"

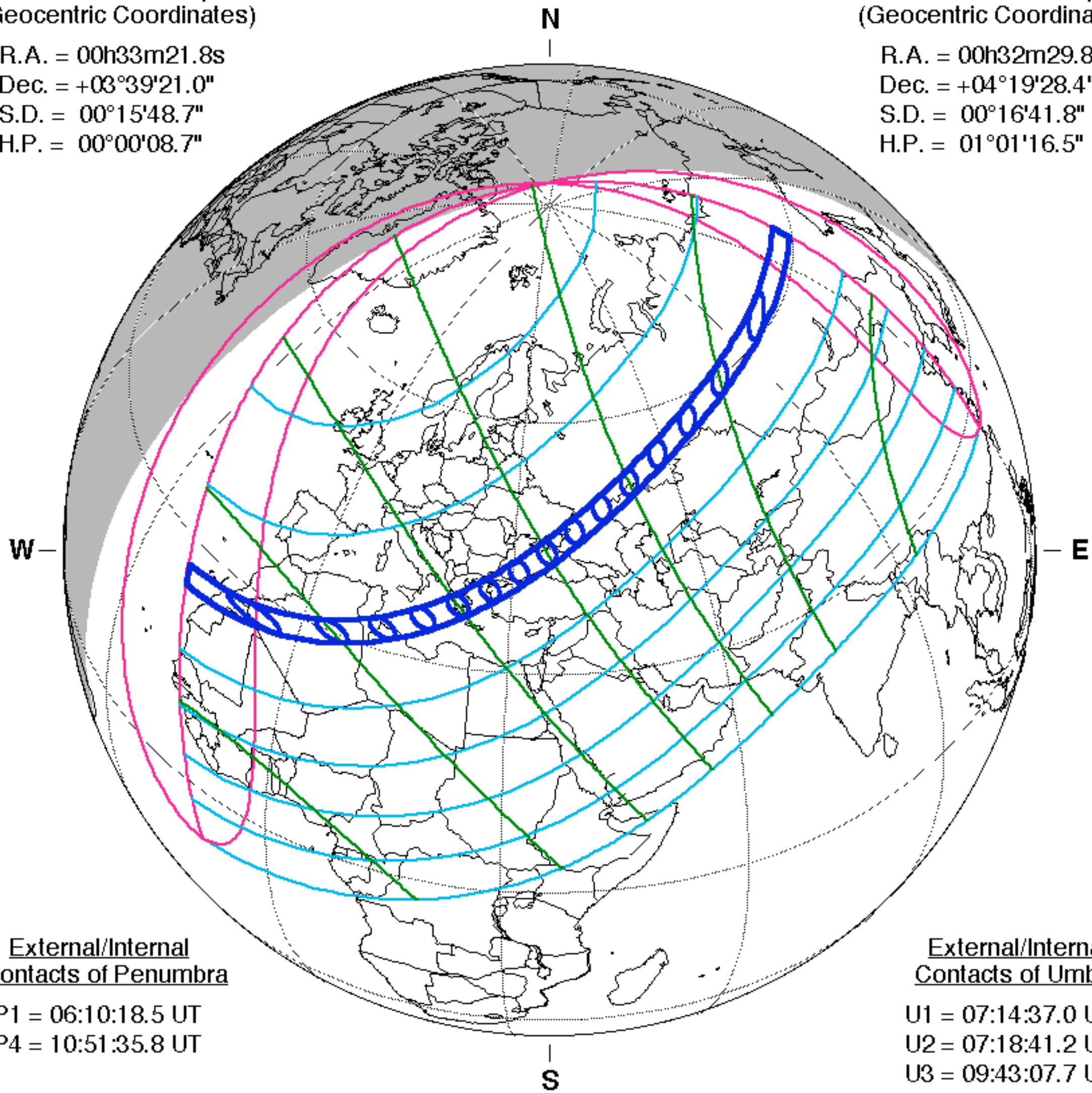
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h32m29.8s

Dec. = +04°19'28.4"

S.D. = 00°16'41.8"

H.P. = 01°01'16.5"



External/Internal Contacts of Penumbra

P1 = 06:10:18.5 UT

P4 = 10:51:35.8 UT

External/Internal Contacts of Umbra

U1 = 07:14:37.0 UT

U2 = 07:18:41.2 UT

U3 = 09:43:07.7 UT

U4 = 09:47:13.5 UT

Local Circumstances at Greatest Eclipse

Lat. = 44°48.0'N

Sun Alt. = 46.1°

Long. = 035°49.8'E

Sun Azm. = 154.6°

Path Width = 308.4 km Duration = 05m02.3s

Constants & Ephemeris

$\Delta T = 19363.8$ s

$k1 = 0.2724880$

$k2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

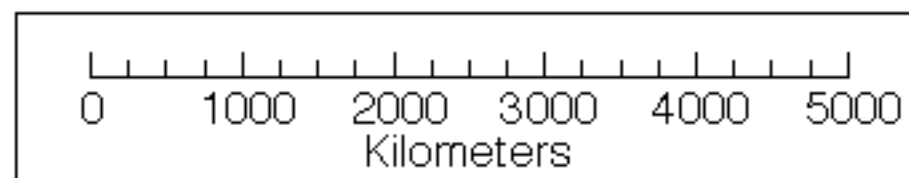
Geocentric Libration (Optical + Physical)

$l = -1.12^\circ$

$b = -0.88^\circ$

$c = -25.02^\circ$

Brown Lun. No. = -31783



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eclipse.gsfc.nasa.gov/eclipse.html