

Total Solar Eclipse of 1806 Jun 16

Ecliptic Conjunction = 16:21:07.6 TD (= 16:20:55.4 UT)

Greatest Eclipse = 16:24:26.7 TD (= 16:24:14.6 UT)

Eclipse Magnitude = 1.0604 Gamma = 0.3204

Saros Series = 124 Member = 43 of 73

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 05h37m06.4s

Dec. = +23°21'35.2"

S.D. = 00°15'44.3"

H.P. = 00°00'08.7"

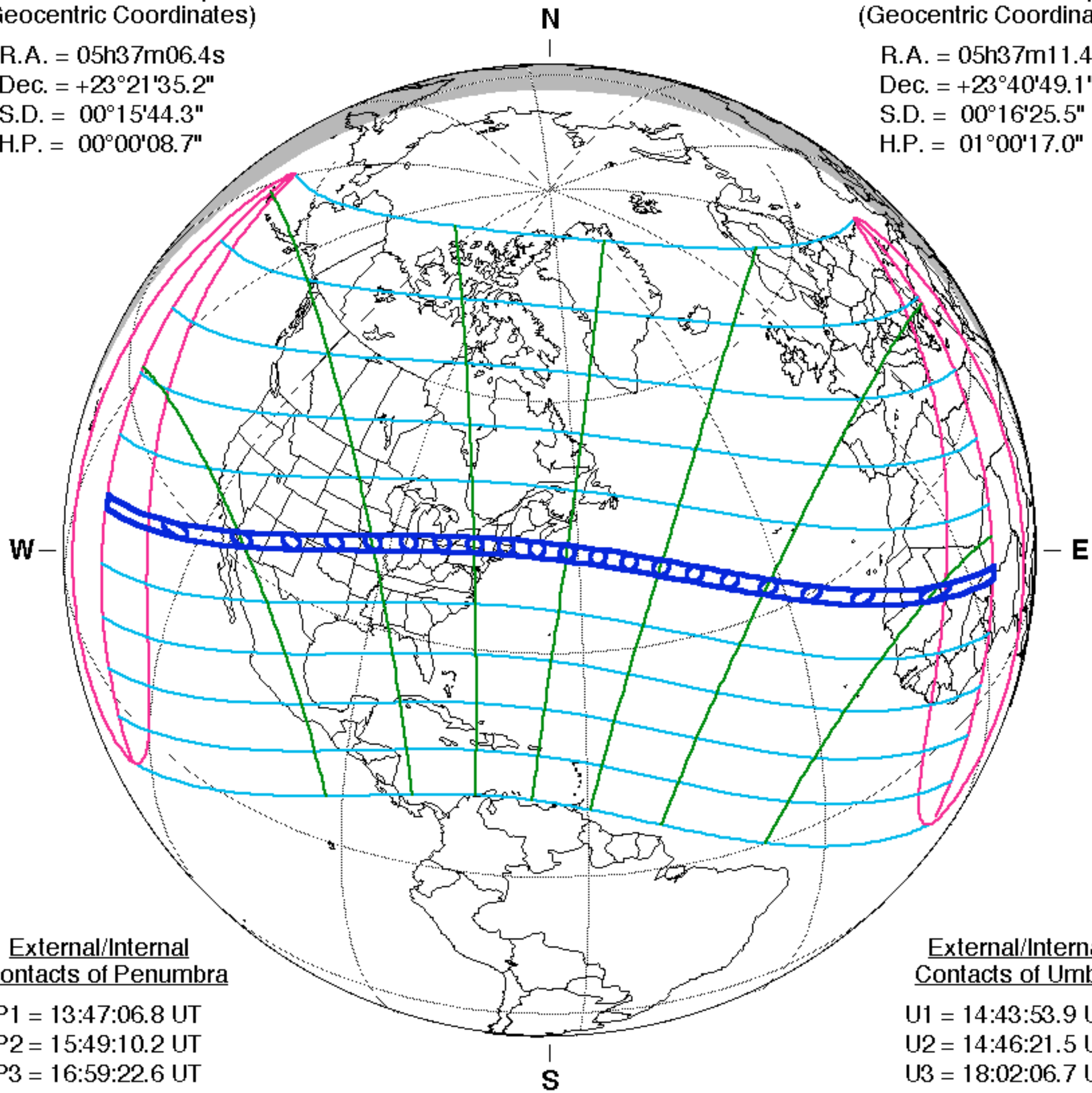
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 05h37m11.4s

Dec. = +23°40'49.1"

S.D. = 00°16'25.5"

H.P. = 01°00'17.0"



External/Internal Contacts of Penumbra

P1 = 13:47:06.8 UT

P2 = 15:49:10.2 UT

P3 = 16:59:22.6 UT

P4 = 19:01:19.4 UT

External/Internal Contacts of Umbra

U1 = 14:43:53.9 UT

U2 = 14:46:21.5 UT

U3 = 18:02:06.7 UT

U4 = 18:04:37.9 UT

Local Circumstances at Greatest Eclipse

Lat. = 42°13.5'N

Sun Alt. = 71.1°

Long. = 064°34.5'W

Sun Azm. = 184.1°

Path Width = 209.8 km Duration = 04m54.8s

Constants & Ephemeris

$\Delta T = 12.2$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

Eph. = VSOP87/ELP2000-82

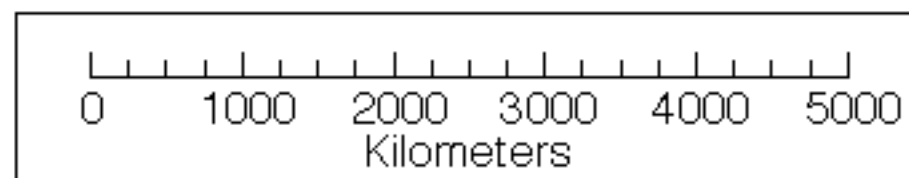
Geocentric Libration (Optical + Physical)

$l = -3.30^\circ$

$b = -0.42''$

$c = -3.78''$

Brown Lun. No. = -1441



F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html