

Partial Lunar Eclipse of 2070 Oct 19

Ecliptic Conjunction = 19:00:58.2 TD (= 18:58:41.6 UT)

Greatest Eclipse = 18:51:11.5 TD (= 18:48:55.0 UT)

Penumbral Magnitude = 1.1258

P. Radius = 1.2746°

Gamma = -0.9406

Umbral Magnitude = 0.1383

U. Radius = 0.7393°

Axis = 0.9354°

Saros Series = 147 Member = 12 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h39m13.7s

Dec. = -10°18'14.6"

S.D. = 00°16'03.4"

H.P. = 00°00'08.8"

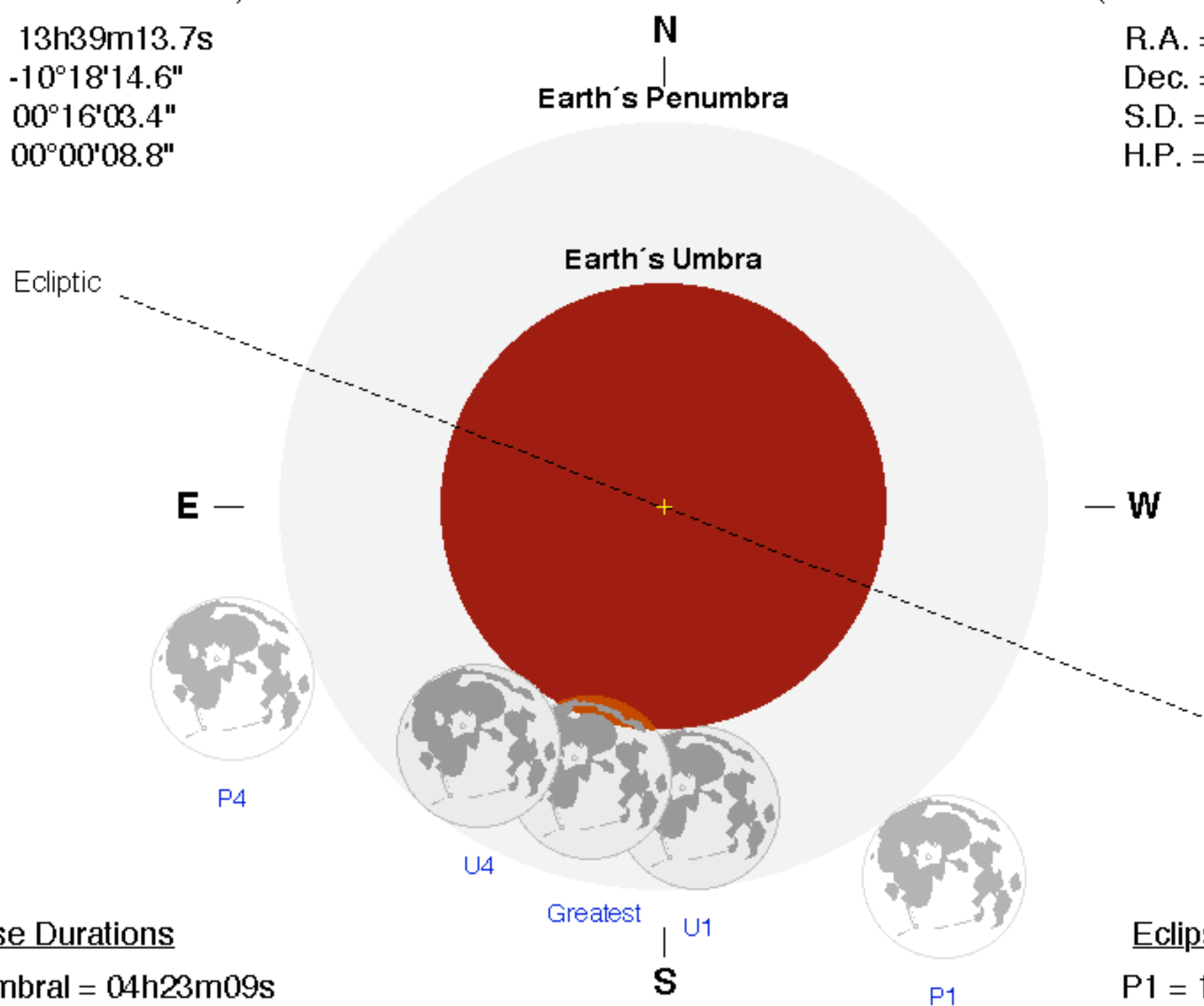
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h40m14.8s

Dec. = +09°24'10.4"

S.D. = 00°16'15.6"

H.P. = 00°59'40.4"



Eclipse Durations

Penumbral = 04h23m09s

Umbral = 01h21m41s

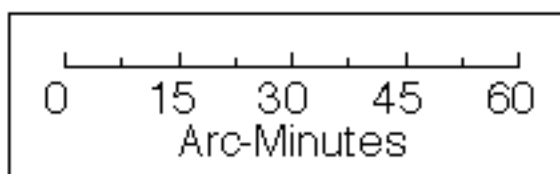
Eclipse Contacts

P1 = 16:37:21 UT

U1 = 18:08:09 UT

U4 = 19:29:50 UT

P4 = 21:00:31 UT



$\Delta T = 137$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

