

Penumbral Lunar Eclipse of 2042 Apr 05

Ecliptic Conjunction = 14:17:08.3 TD (= 14:15:41.9 UT)

Greatest Eclipse = 14:30:11.0 TD (= 14:28:44.5 UT)

Penumbral Magnitude = 0.8680

P. Radius = 1.1787°

Gamma = 1.1080

Umbral Magnitude = -0.2176

U. Radius = 0.6458°

Axis = 0.9981°

Saros Series = 113

Member = 65 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h58m43.2s

Dec. = +06°16'08.8"

S.D. = 00°15'59.3"

H.P. = 00°00'08.8"

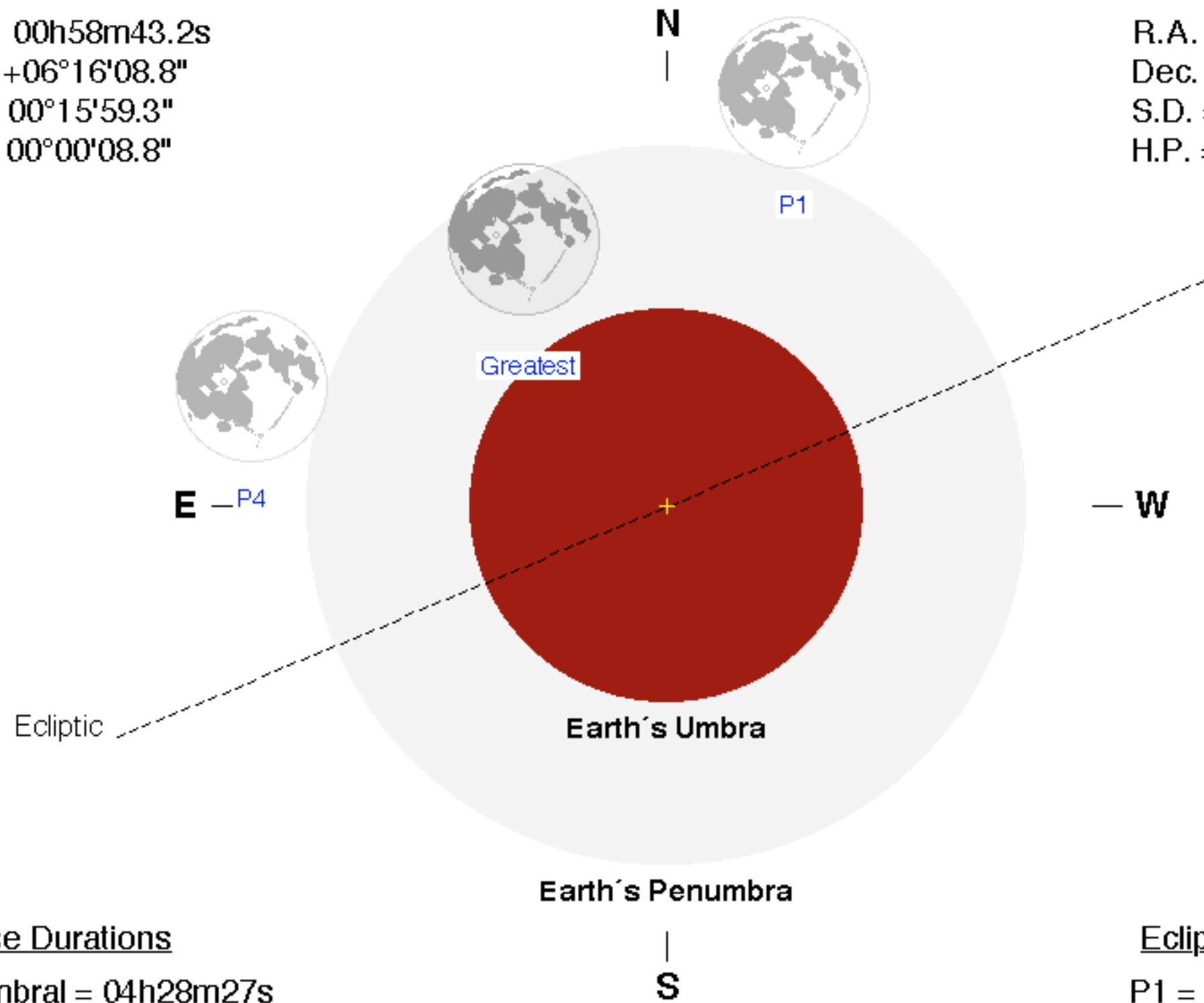
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h00m37.2s

Dec. = -05°23'23.6"

S.D. = 00°14'43.6"

H.P. = 00°54'03.0"



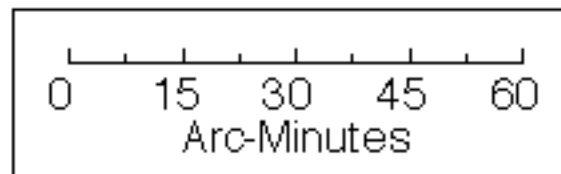
Eclipse Durations

Penumbral = 04h28m27s

Eclipse Contacts

P1 = 12:14:31 UT

P4 = 16:42:58 UT



$\Delta T = 86$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

