

Penumbral Lunar Eclipse of 2052 Apr 14

Ecliptic Conjunction = 02:30:33.3 TD (= 02:28:55.7 UT)

Greatest Eclipse = 02:18:05.7 TD (= 02:16:28.2 UT)

Penumbral Magnitude = 0.9466

P. Radius = 1.1829°

Gamma = 1.0628

Umbral Magnitude = -0.1305

U. Radius = 0.6513°

Axis = 0.9625°

Saros Series = 142

Member = 20 of 74

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h32m05.6s

Dec. = +09°37'11.0"

S.D. = 00°15'56.9"

H.P. = 00°00'08.8"

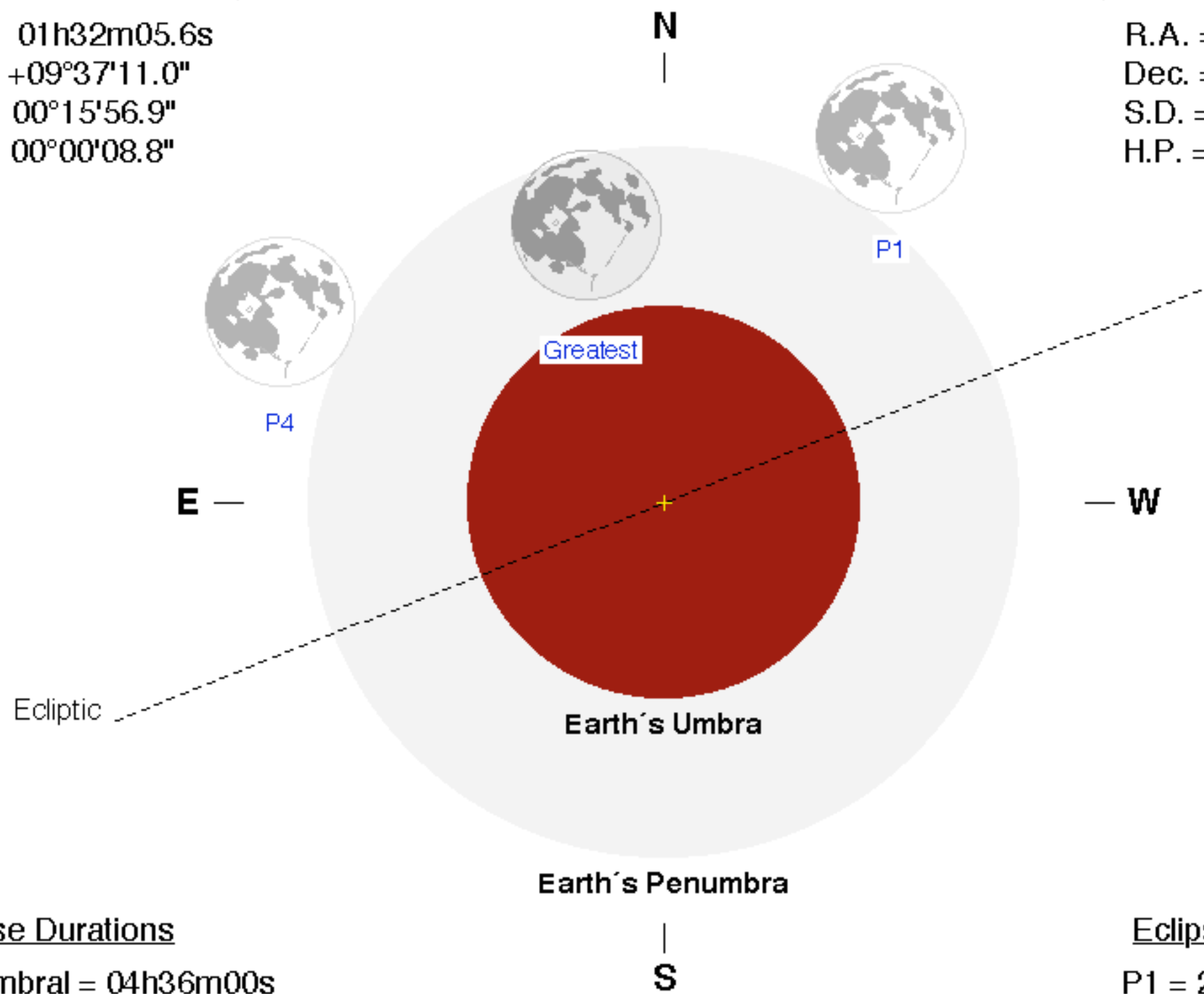
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h33m09.3s

Dec. = -08°41'36.6"

S.D. = 00°14'48.3"

H.P. = 00°54'20.2"



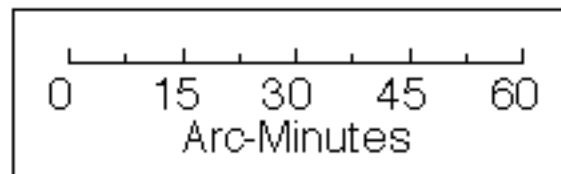
Eclipse Durations

Penumbral = 04h36m00s

Eclipse Contacts

P1 = 23:58:26 UT

P4 = 04:34:26 UT



$\Delta T = 98$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

