

Penumbral Lunar Eclipse of 1987 Oct 07

Ecliptic Conjunction = 04:13:11.4 TD (= 04:12:15.7 UT)

Greatest Eclipse = 04:02:30.3 TD (= 04:01:34.6 UT)

Penumbral Magnitude = 0.9863

P. Radius = 1.2618°

Gamma = 1.0189

Umbral Magnitude = -0.0096

U. Radius = 0.7284°

Axis = 1.0013°

Saros Series = 146

Member = 9 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h49m09.5s

Dec. = -05°16'24.7"

S.D. = 00°16'00.1"

H.P. = 00°00'08.8"

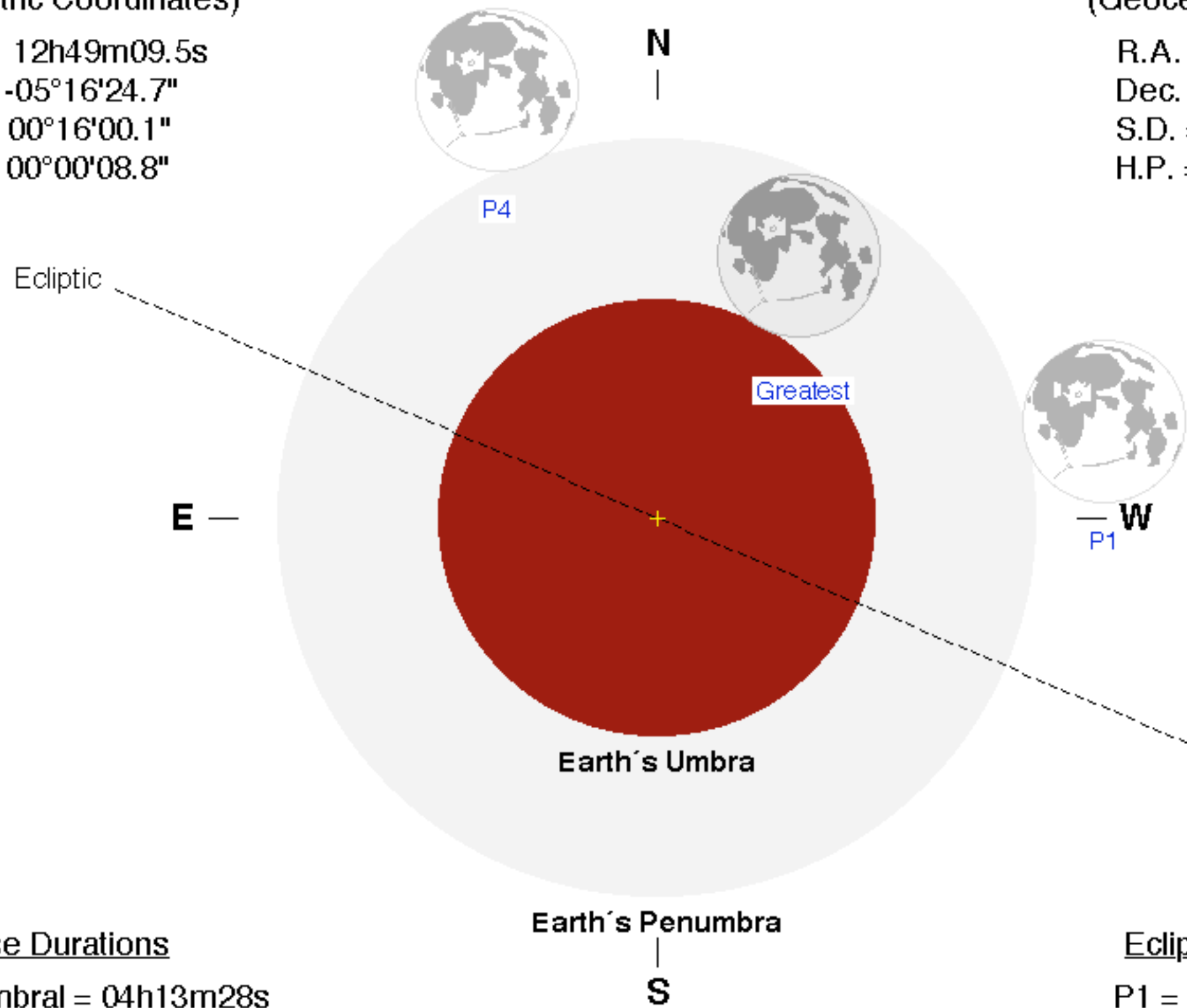
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h47m14.4s

Dec. = +06°09'13.9"

S.D. = 00°16'04.0"

H.P. = 00°58'58.1"



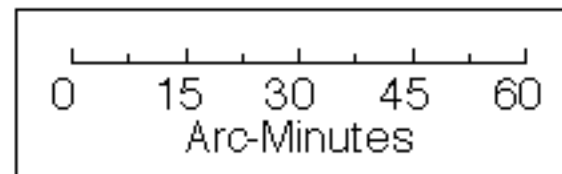
Eclipse Durations

Penumbral = 04h13m28s

Eclipse Contacts

P1 = 01:54:49 UT

P4 = 06:08:17 UT



$\Delta T = 56$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

