

Penumbral Lunar Eclipse of 2096 Oct 31

Ecliptic Conjunction = 11:19:04.0 TD (= 11:15:48.9 UT)

Greatest Eclipse = 11:30:22.8 TD (= 11:27:07.8 UT)

Penumbral Magnitude = 0.7666

P. Radius = 1.2999°

Gamma = -1.1307

Umbral Magnitude = -0.2006

U. Radius = 0.7630°

Axis = 1.1519°

Saros Series = 118 Member = 56 of 74

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 14h26m45.6s

Dec. = -14°30'56.2"

S.D. = 00°16'06.6"

H.P. = 00°00'08.9"

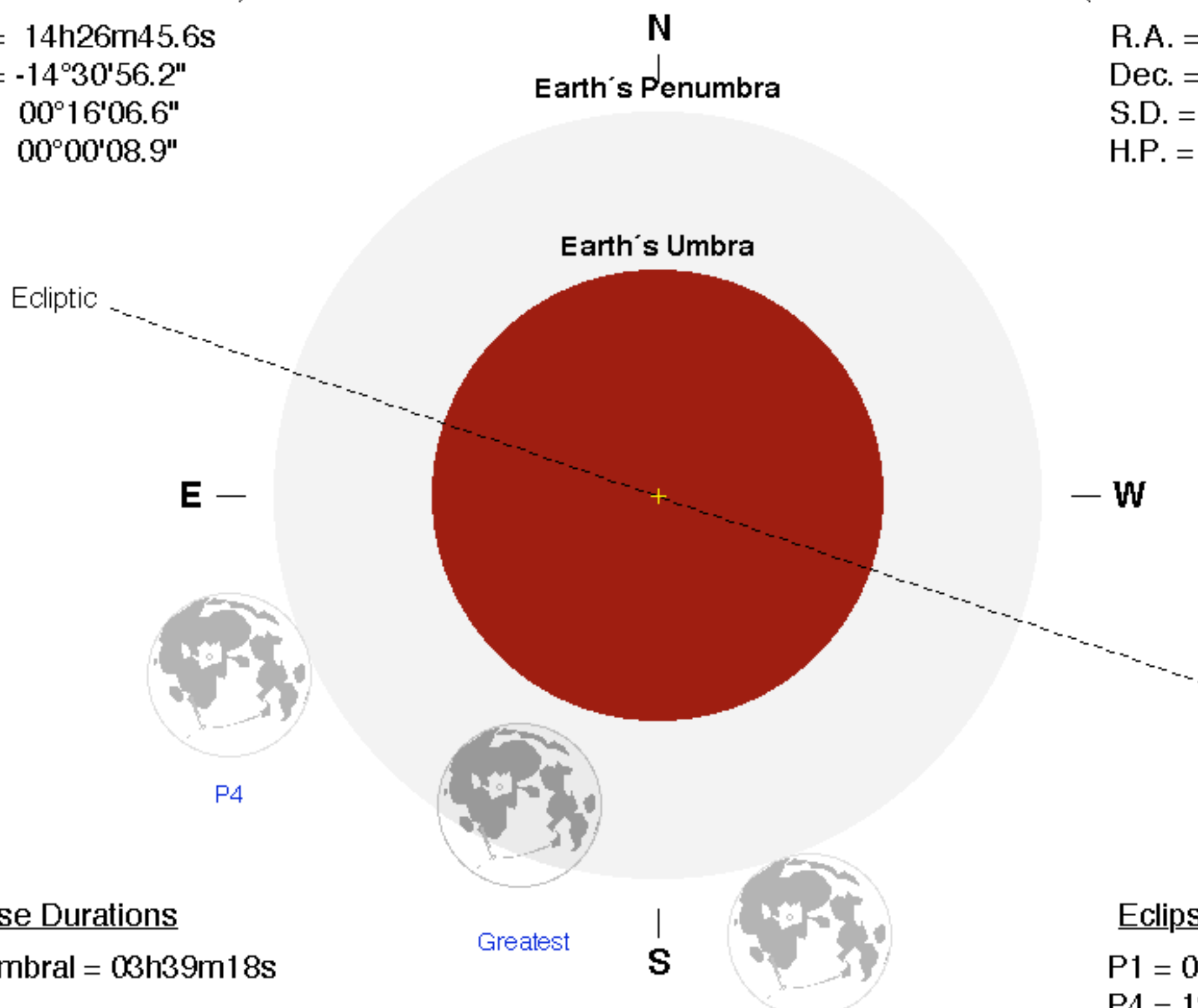
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 02h28m41.7s

Dec. = +13°27'49.1"

S.D. = 00°16'39.3"

H.P. = 01°01'07.7"



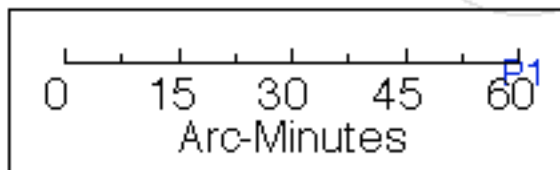
Eclipse Durations

Penumbral = 03h39m18s

Eclipse Contacts

P1 = 09:37:29 UT

P4 = 13:16:48 UT



$\Delta T = 195$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

