

# Penumbral Lunar Eclipse of 2060 Nov 08

Ecliptic Conjunction = 04:19:07.1 TD (= 04:17:11.7 UT)

Greatest Eclipse = 04:04:15.3 TD (= 04:02:20.0 UT)

Penumbral Magnitude = 0.0266

P. Radius = 1.3058°

Gamma = 1.5332

Umbral Magnitude = -0.9375

U. Radius = 0.7677°

Axis = 1.5700°

Saros Series = 156

Member = 2 of 82

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 14h56m11.8s

Dec. = -16°46'13.8"

S.D. = 00°16'08.5"

H.P. = 00°00'08.9"

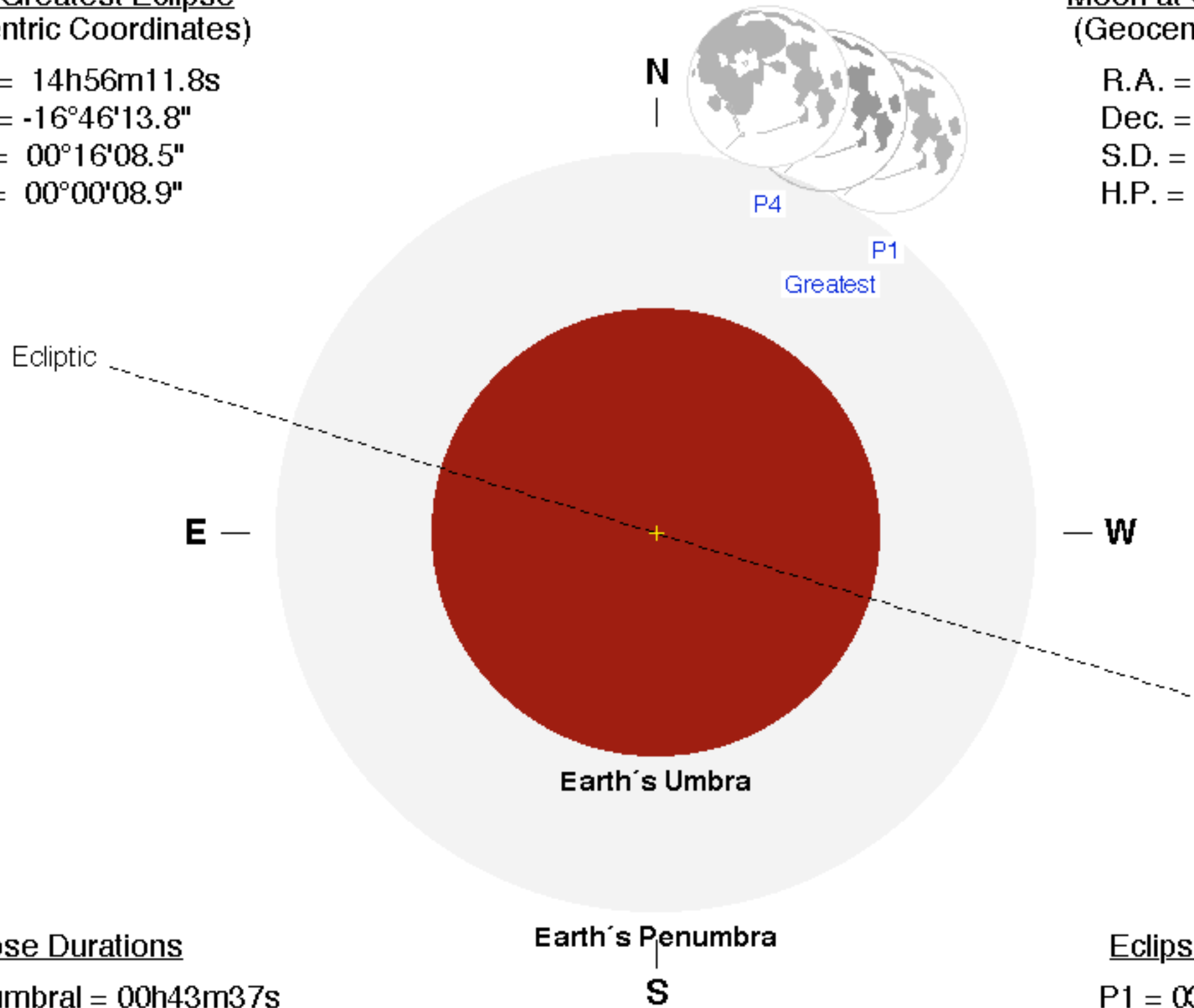
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 02h53m43.3s

Dec. = +18°13'31.9"

S.D. = 00°16'44.5"

H.P. = 01°01'26.6"



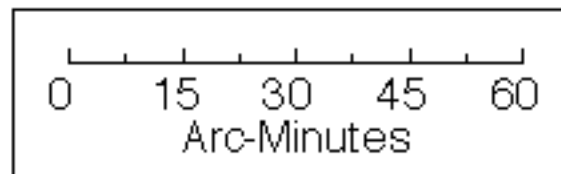
## Eclipse Durations

Penumbral = 00h43m37s

## Eclipse Contacts

P1 = 03:40:30 UT

P4 = 04:24:07 UT



$\Delta T = 115$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

[eclipse.gsfc.nasa.gov/eclipse.html](http://eclipse.gsfc.nasa.gov/eclipse.html)

