

# Penumbral Lunar Eclipse of 2060 Oct 09

Ecliptic Conjunction = 18:42:51.6 TD (= 18:40:56.5 UT)

Greatest Eclipse = 18:53:31.7 TD (= 18:51:36.5 UT)

Penumbral Magnitude = 0.8796

P. Radius = 1.3004°

Gamma = -1.0670

Umbral Magnitude = -0.0799

U. Radius = 0.7666°

Axis = 1.0892°

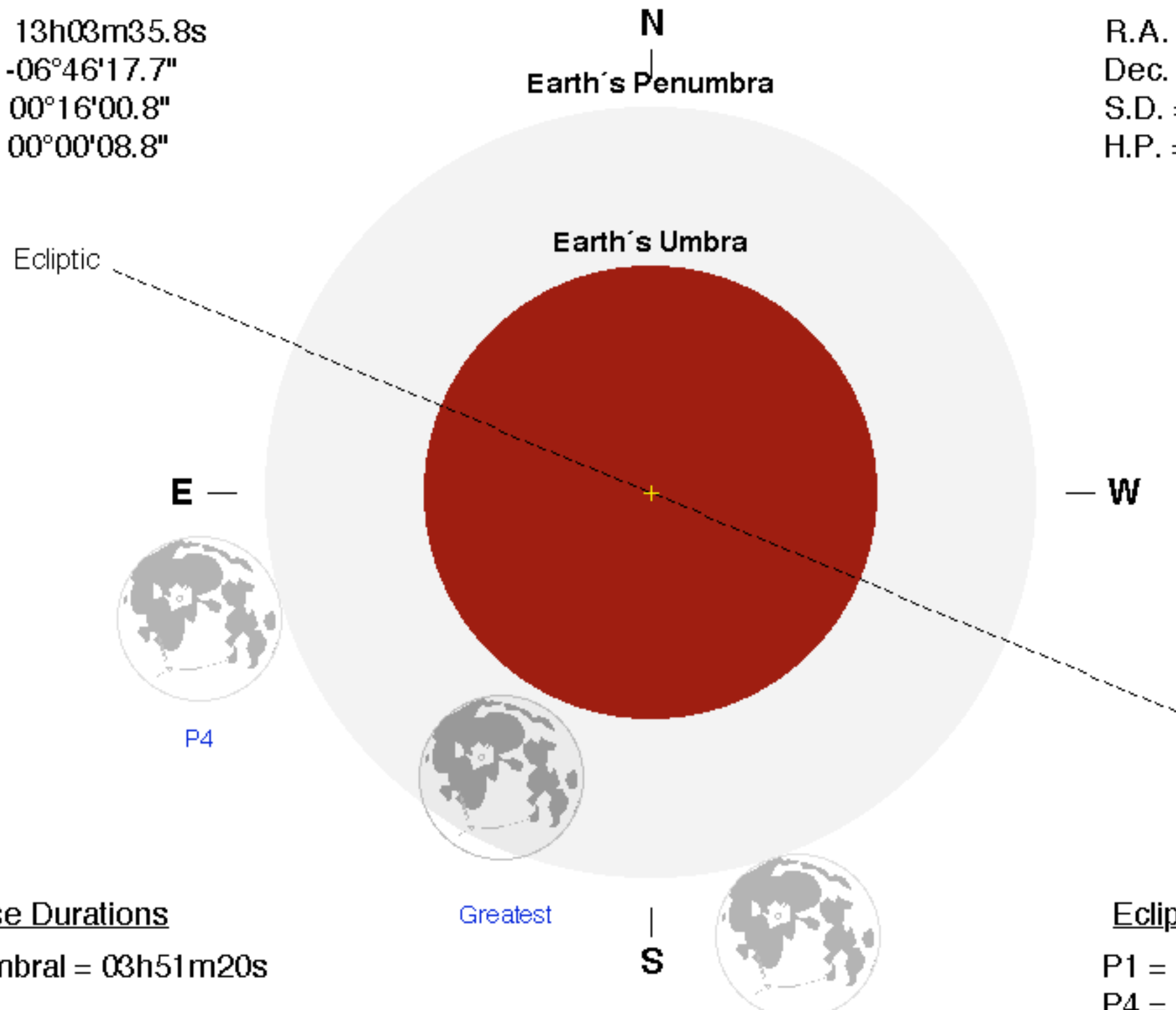
Saros Series = 118    Member = 54 of 74

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h03m35.8s  
Dec. = -06°46'17.7"  
S.D. = 00°16'00.8"  
H.P. = 00°00'08.8"

## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h05m39.2s  
Dec. = +05°48'34.9"  
S.D. = 00°16'41.3"  
H.P. = 01°01'15.0"



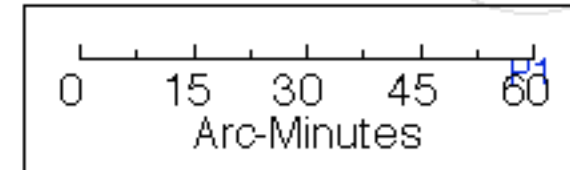
## Eclipse Durations

Penumbral = 03h51m20s

## Eclipse Contacts

P1 = 16:55:56 UT

P4 = 20:47:17 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)

