

# Penumbral Lunar Eclipse of 1933 Aug 05

Ecliptic Conjunction = 19:31:51.5 TD (= 19:31:27.7 UT)

Greatest Eclipse = 19:46:04.9 TD (= 19:45:41.0 UT)

Penumbral Magnitude = 0.2322

P. Radius = 1.2738°

Gamma = -1.4216

Umbral Magnitude = -0.7338

U. Radius = 0.7481°

Axis = 1.4195°

Saros Series = 108

Member = 70 of 72

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h01m27.7s

Dec. = +16°56'57.6"

S.D. = 00°15'46.2"

H.P. = 00°00'08.7"

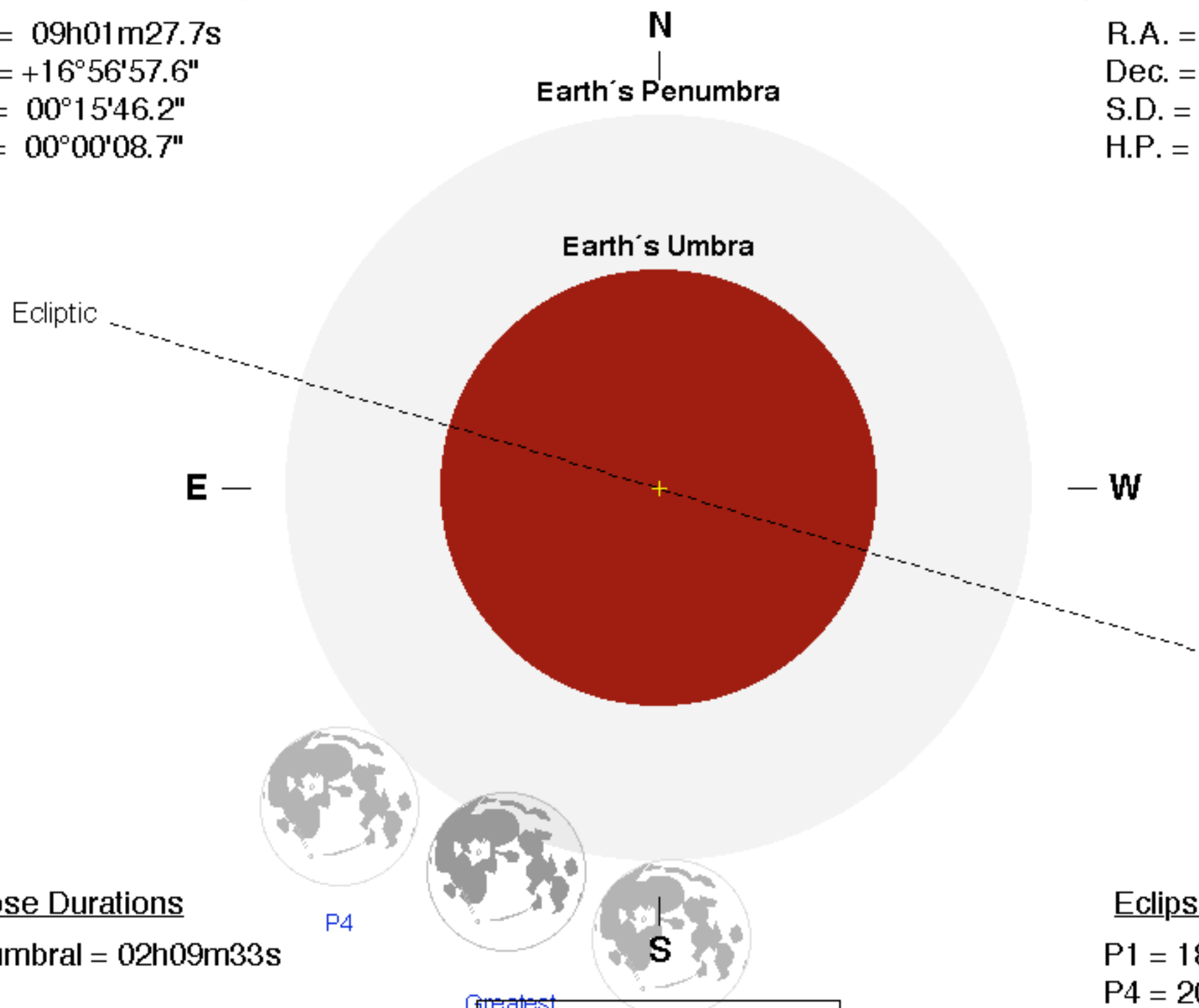
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 21h03m41.3s

Dec. = -18°15'57.8"

S.D. = 00°16'19.5"

H.P. = 00°59'54.8"



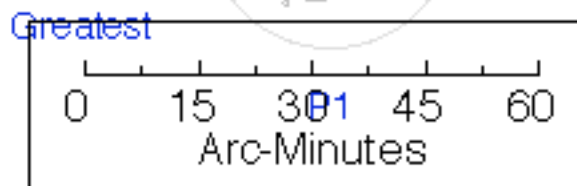
## Eclipse Durations

Penumbral = 02h09m33s

## Eclipse Contacts

P1 = 18:40:48 UT

P4 = 20:50:21 UT



$\Delta T = 24$  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)

