

# Penumbral Lunar Eclipse of 1915 Jan 31

Ecliptic Conjunction = 04:41:10.9 TD (= 04:40:53.8 UT)

Greatest Eclipse = 04:57:42.5 TD (= 04:57:25.3 UT)

Penumbral Magnitude = 0.0451

P. Radius = 1.2337°

Gamma = 1.5450

Umbral Magnitude = -0.9989

U. Radius = 0.6926°

Axis = 1.4695°

Saros Series = 103

Member = 82 of 84

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h50m47.4s

Dec. = -17°41'02.9"

S.D. = 00°16'14.0"

H.P. = 00°00'08.9"

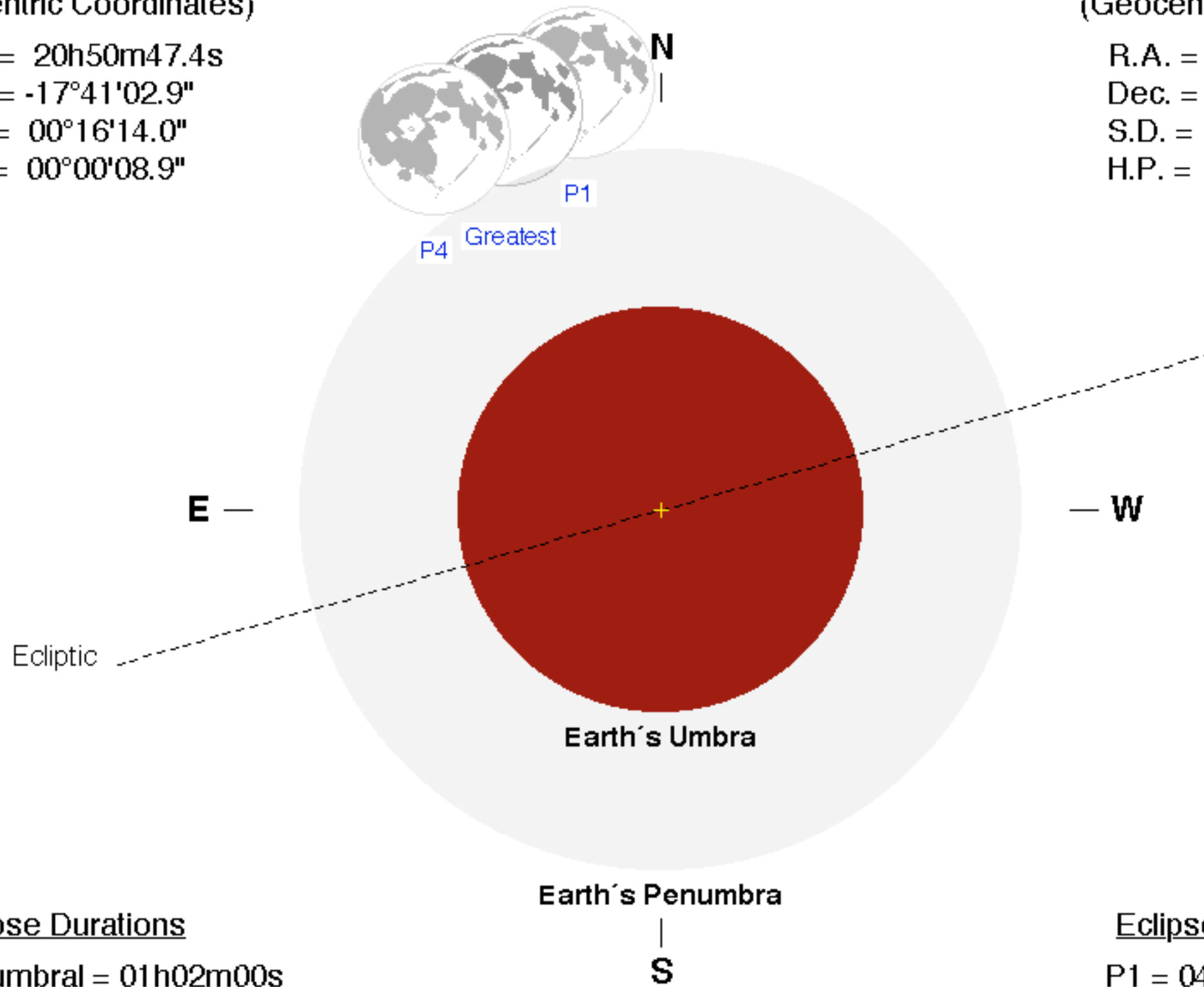
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 08h53m01.8s

Dec. = +19°03'15.4"

S.D. = 00°15'33.0"

H.P. = 00°57'04.2"



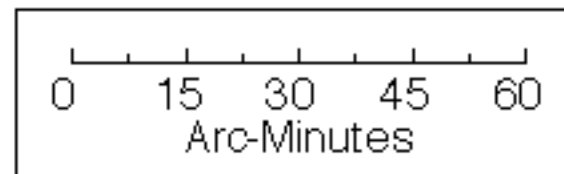
## Eclipse Durations

Penumbral = 01h02m00s

## Eclipse Contacts

P1 = 04:26:35 UT

P4 = 05:28:35 UT



$\Delta T = 17 \text{ s}$

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)

