

# Partial Lunar Eclipse of 2075 Dec 22

Ecliptic Conjunction = 08:49:59.1 TD (= 08:47:31.3 UT)

Greatest Eclipse = 08:55:55.1 TD (= 08:53:27.3 UT)

Penumbral Magnitude = 2.0008

P. Radius = 1.1869°

Gamma = -0.4945

Umbral Magnitude = 0.9013

U. Radius = 0.6450°

Axis = 0.4472°

Saros Series = 126

Member = 49 of 72

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 18h02m40.3s

Dec. = -23°25'39.2"

S.D. = 00°16'15.5"

H.P. = 00°00'08.9"

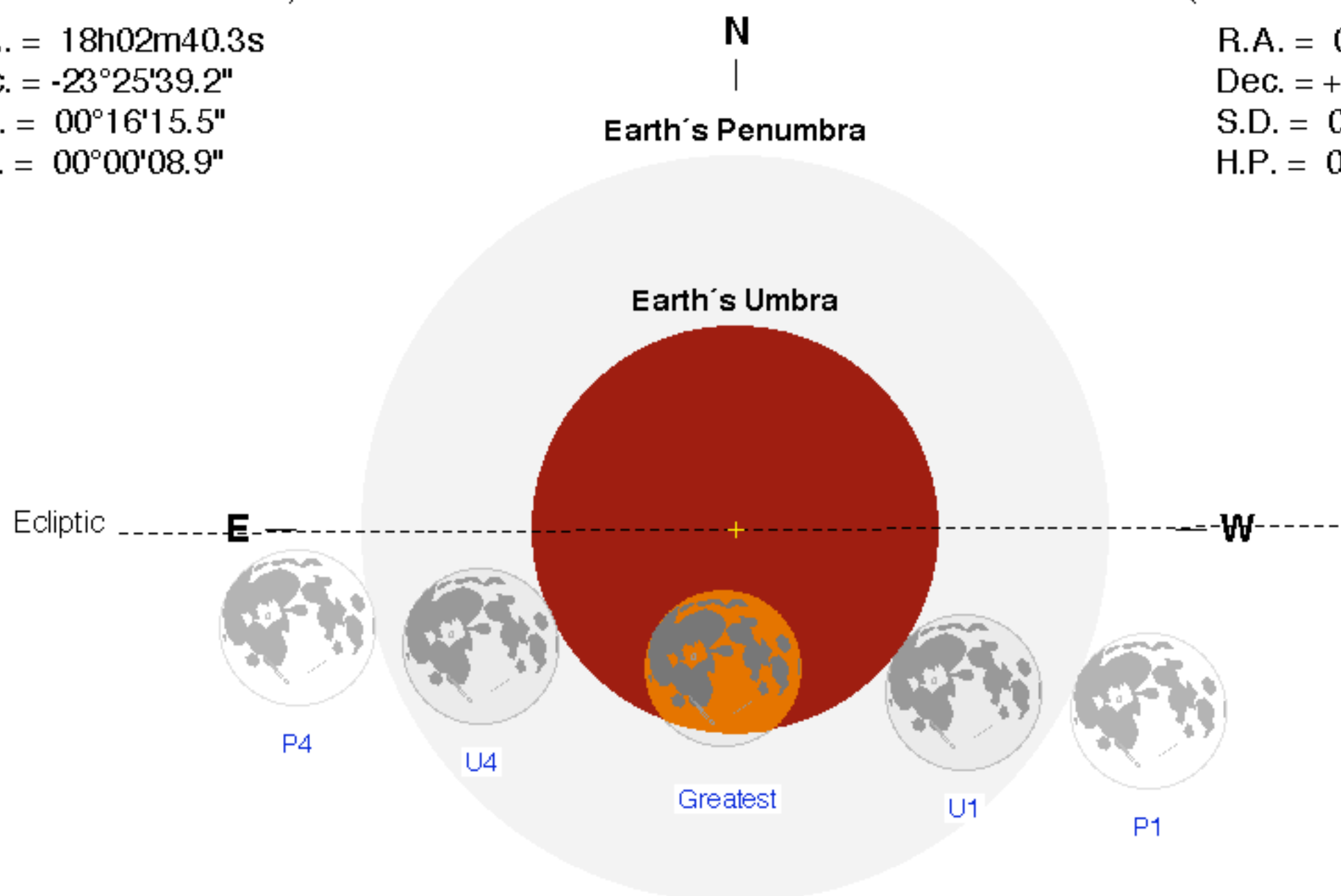
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 06h02m51.4s

Dec. = +22°58'56.6"

S.D. = 00°14'47.1"

H.P. = 00°54'15.8"



## Eclipse Durations

Penumbral = 05h57m39s

Umbral = 03h22m32s

## Eclipse Contacts

P1 = 05:54:39 UT

U1 = 07:12:10 UT

U4 = 10:34:42 UT

P4 = 11:52:17 UT

$\Delta T = 148$  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)

