

# Partial Lunar Eclipse of 2057 Dec 11

Ecliptic Conjunction = 00:47:48.2 TD (= 00:45:59.0 UT)

Greatest Eclipse = 00:53:38.0 TD (= 00:51:48.7 UT)

Penumbral Magnitude = 2.0178

P. Radius = 1.1856°

Gamma = -0.4853

Umbral Magnitude = 0.9181

U. Radius = 0.6442°

Axis = 0.4384°

Saros Series = 126

Member = 48 of 72

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 17h14m07.3s

Dec. = -23°00'47.0"

S.D. = 00°16'14.5"

H.P. = 00°00'08.9"

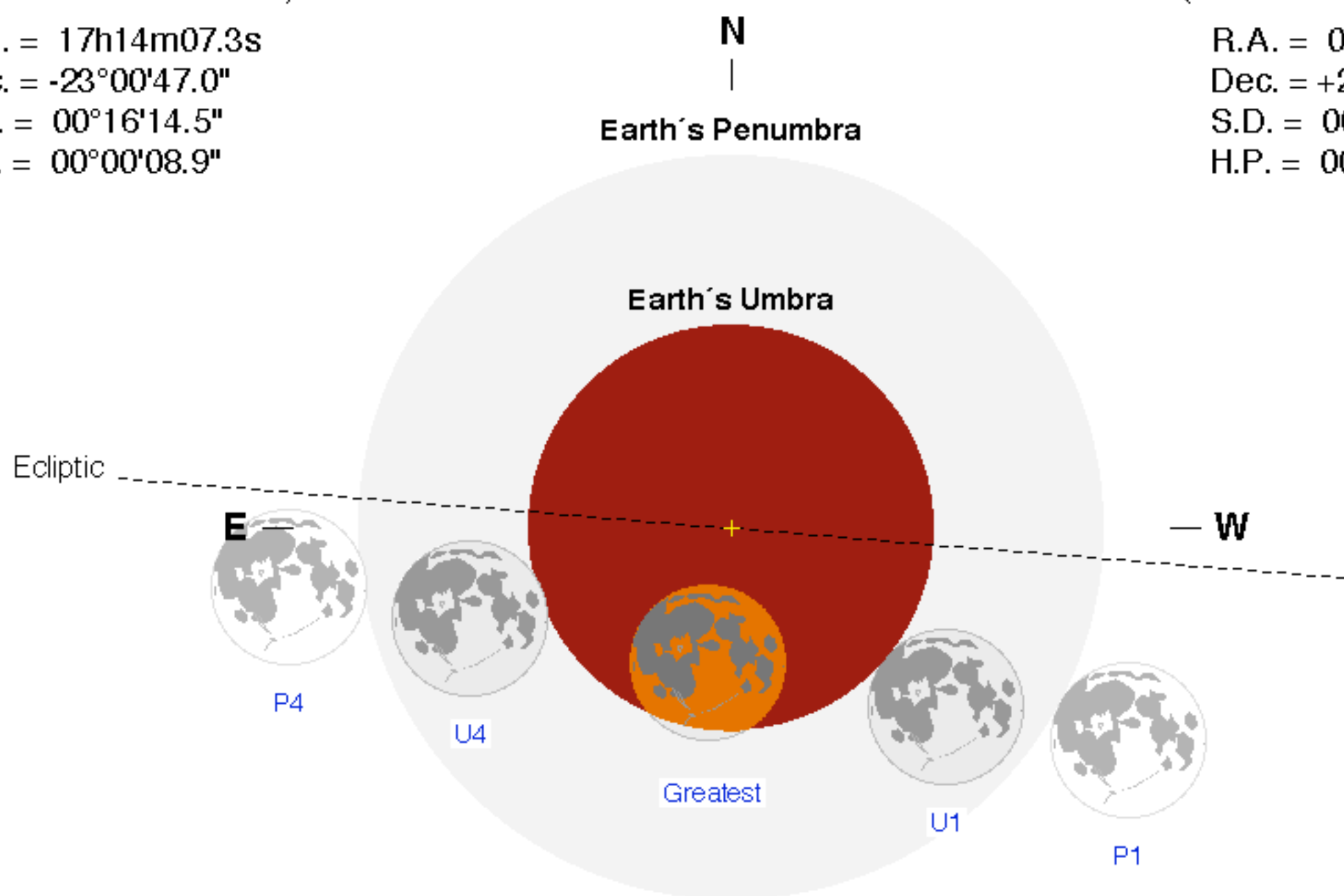
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 05h14m27.7s

Dec. = +22°34'54.1"

S.D. = 00°14'46.1"

H.P. = 00°54'12.2"



## Eclipse Durations

Penumbral = 05h58m46s

Umbral = 03h24m01s

## Eclipse Contacts

P1 = 21:52:26 UT

U1 = 23:09:47 UT

U4 = 02:33:48 UT

P4 = 03:51:13 UT

$\Delta T = 109$  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)

