

# Partial Lunar Eclipse of 1977 Apr 04

Ecliptic Conjunction = 04:09:40.2 TD (= 04:08:52.4 UT)

Greatest Eclipse = 04:19:03.9 TD (= 04:18:16.1 UT)

Penumbral Magnitude = 1.1657

P. Radius = 1.2844°

Gamma = -0.9148

Umbral Magnitude = 0.1928

U. Radius = 0.7514°

Axis = 0.9197°

Saros Series = 112    Member = 63 of 72

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h52m35.5s

Dec. = +05°37'56.4"

S.D. = 00°15'59.4"

H.P. = 00°00'08.8"

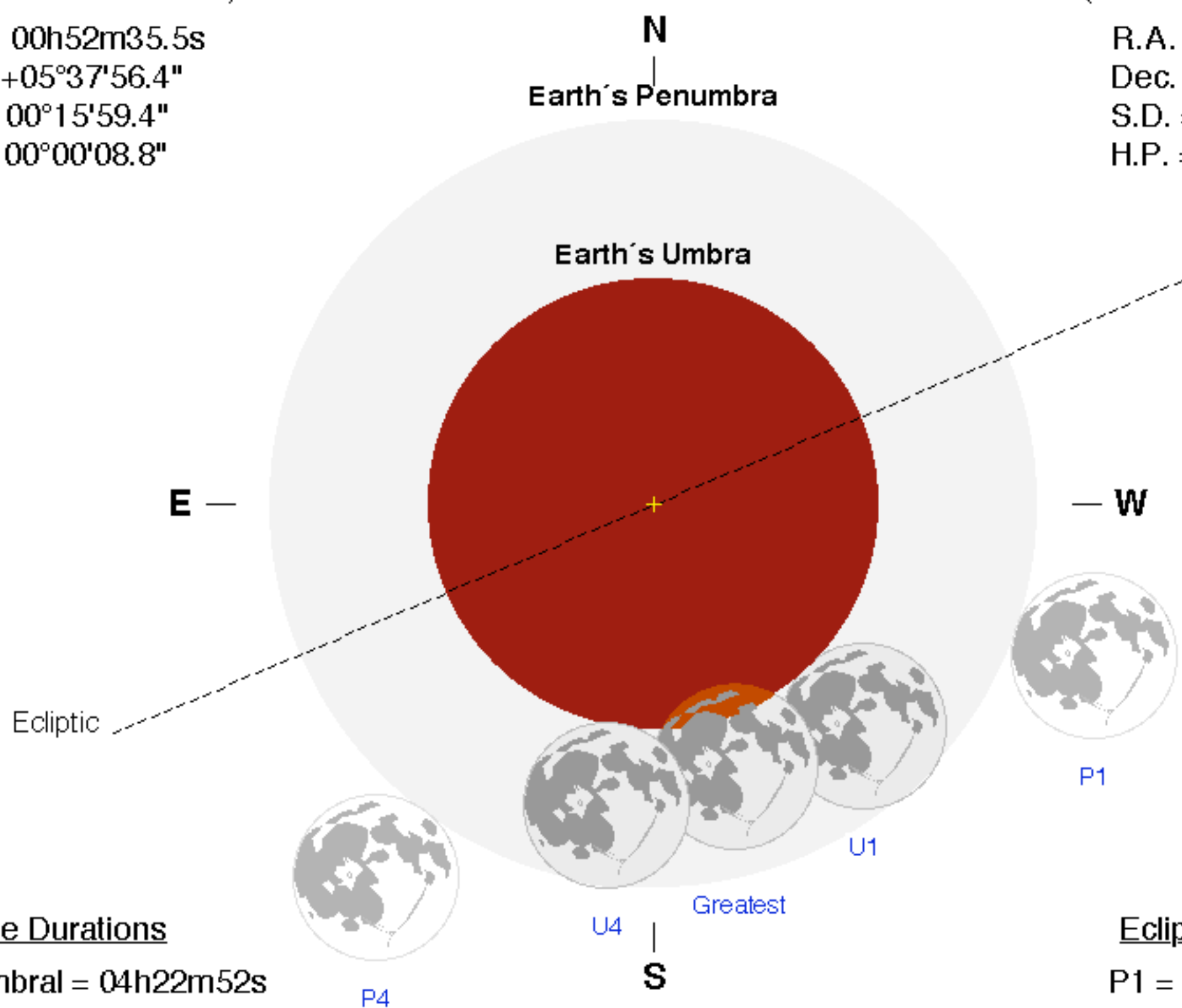
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h51m29.8s

Dec. = -06°30'38.9"

S.D. = 00°16'26.2"

H.P. = 01°00'19.5"



## Eclipse Durations

Penumbral = 04h22m52s

Umbral = 01h34m44s

## Eclipse Contacts

P1 = 02:06:52 UT

U1 = 03:30:58 UT

U4 = 05:05:42 UT

P4 = 06:29:44 UT

$\Delta T = 48$  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)

