

# Penumbral Lunar Eclipse of 1987 Apr 14

Ecliptic Conjunction = 02:31:54.0 TD (= 02:30:58.6 UT)

Greatest Eclipse = 02:19:49.5 TD (= 02:18:54.1 UT)

Penumbral Magnitude = 0.7769

P. Radius = 1.2455°

Gamma = -1.1364

Umbral Magnitude = -0.2313

U. Radius = 0.7139°

Axis = 1.0995°

Saros Series = 141

Member = 22 of 73

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h27m26.1s

Dec. = +09°10'16.8"

S.D. = 00°15'56.9"

H.P. = 00°00'08.8"

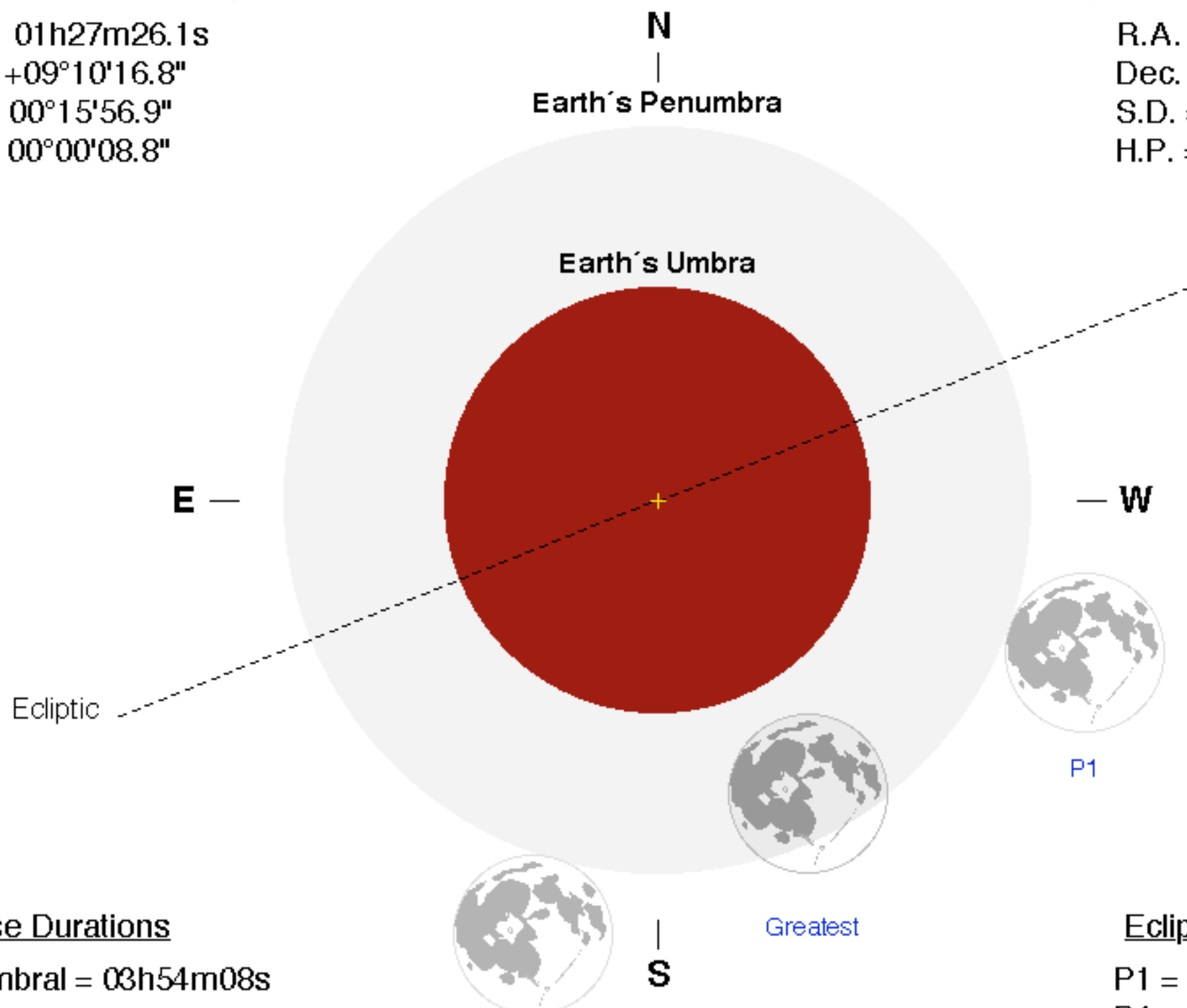
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h25m23.5s

Dec. = -10°08'55.7"

S.D. = 00°15'49.1"

H.P. = 00°58'03.2"



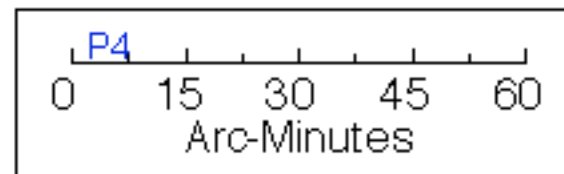
## Eclipse Durations

Penumbral = 03h54m08s

## Eclipse Contacts

P1 = 00:21:55 UT

P4 = 04:16:03 UT



$\Delta T = 55$  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)

