

# Penumbral Lunar Eclipse of 2005 Apr 24

Ecliptic Conjunction = 10:07:33.2 TD (= 10:06:28.5 UT)

Greatest Eclipse = 09:55:55.4 TD (= 09:54:50.6 UT)

Penumbral Magnitude = 0.8650

P. Radius = 1.2415°

Gamma = -1.0885

Umbral Magnitude = -0.1436

U. Radius = 0.7114°

Axis = 1.0496°

Saros Series = 141

Member = 23 of 73

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 02h08m13.9s

Dec. = +12°57'36.9"

S.D. = 00°15'54.1"

H.P. = 00°00'08.7"

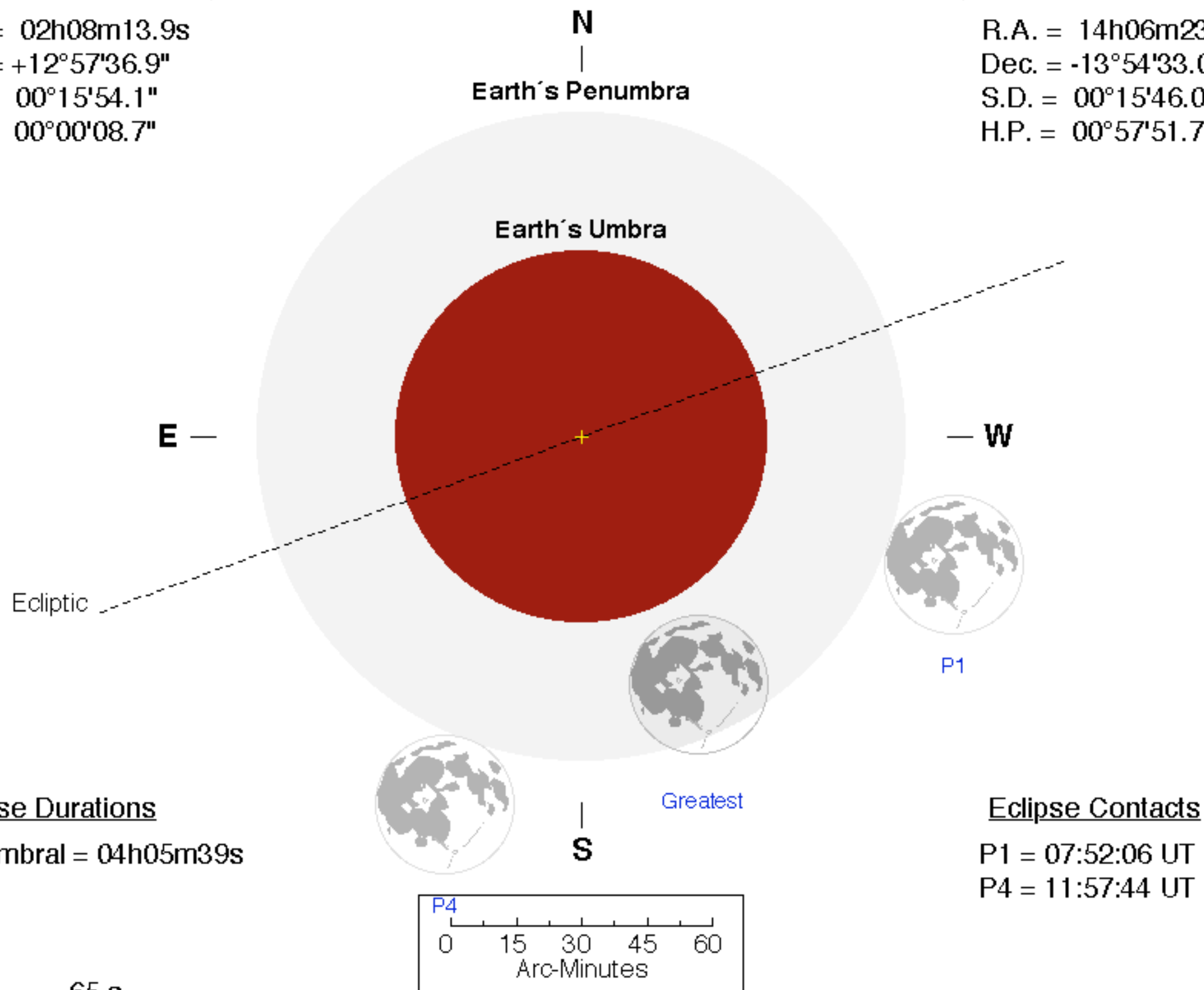
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 14h06m23.1s

Dec. = -13°54'33.0"

S.D. = 00°15'46.0"

H.P. = 00°57'51.7"



## Eclipse Durations

Penumbral = 04h05m39s

## Eclipse Contacts

P1 = 07:52:06 UT

P4 = 11:57:44 UT

$\Delta T = 65$  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)

