

# Total Lunar Eclipse of 1457 Sep 03

Ecliptic Conjunction = 22:04:51.1 TD (= 22:00:48.4 UT)

Greatest Eclipse = 22:08:20.7 TD (= 22:04:18.0 UT)

Penumbral Magnitude = 2.2069

P. Radius = 1.3005°

Gamma = 0.3420

Umbral Magnitude = 1.2534

U. Radius = 0.7693°

Axis = 0.3496°

Saros Series = 109

Member = 42 of 73

Sun at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 11h22m43.6s

Dec. = +04°01'43.5"

S.D. = 00°15'56.1"

H.P. = 00°00'08.8"

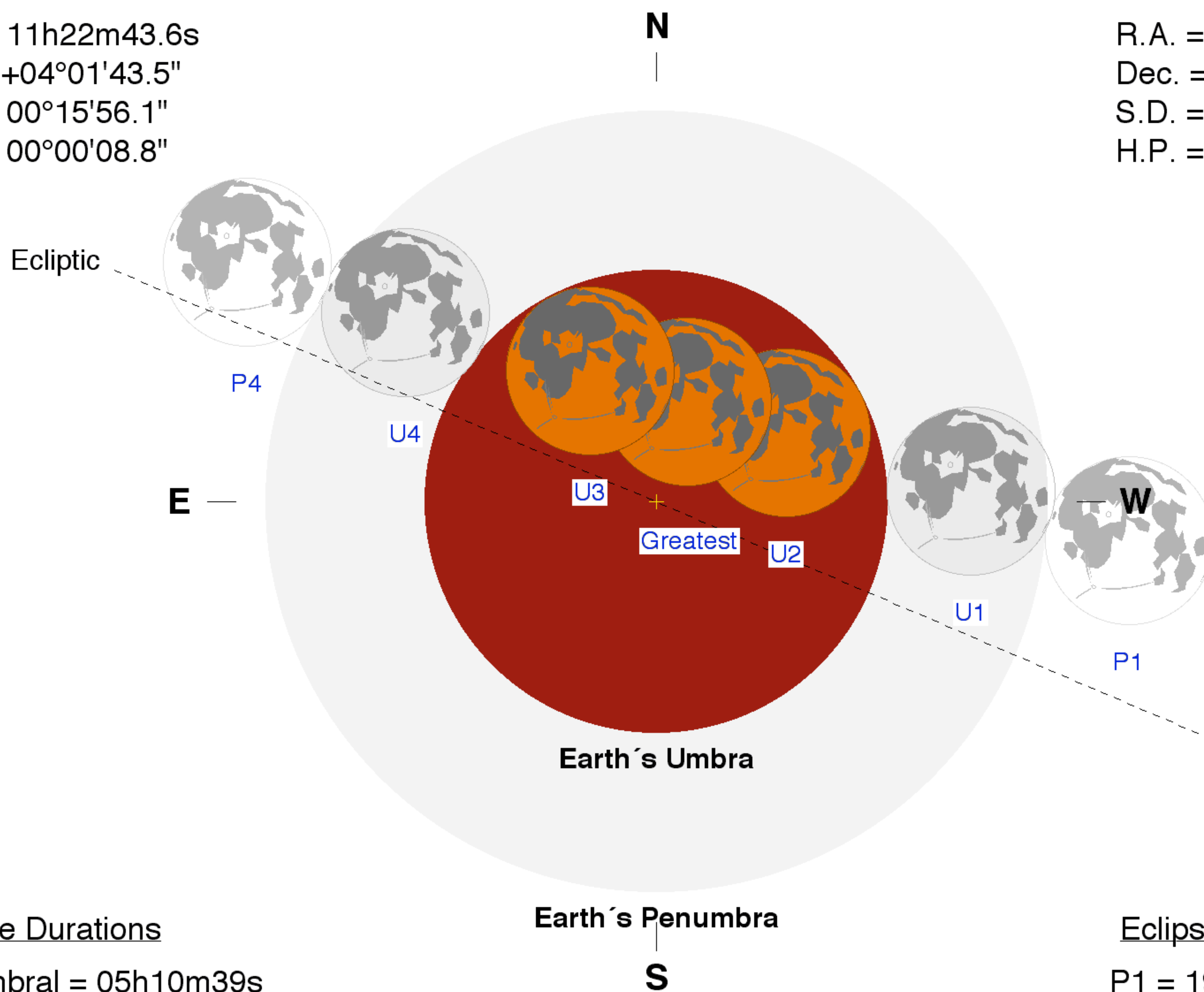
Moon at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 23h22m18.3s

Dec. = -03°41'43.3"

S.D. = 00°16'42.7"

H.P. = 01°01'20.0"



## Eclipse Durations

Penumbral = 05h10m39s

Umbral = 03h19m18s

Total = 01h09m30s

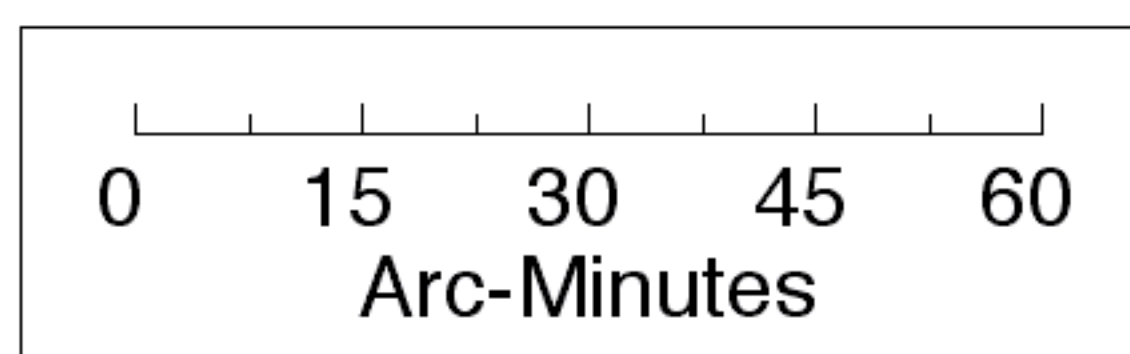
$\Delta T = 243$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

## Earth's Penumbra

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F. Espenak, NASA's GSFC  
[eclipse.gsfc.nasa.gov/eclipse.html](http://eclipse.gsfc.nasa.gov/eclipse.html)

## Eclipse Contacts

P1 = 19:29:00 UT

U1 = 20:24:39 UT

U2 = 21:29:33 UT

U3 = 22:39:03 UT

U4 = 23:43:57 UT

P4 = 00:39:39 UT

