

Total Lunar Eclipse of 2044 Sep 07

Ecliptic Conjunction = 11:25:39.4 TD (= 11:24:11.0 UT)

Greatest Eclipse = 11:20:44.4 TD (= 11:19:16.0 UT)

Penumbral Magnitude = 2.0860

P. Radius = 1.2095°

Gamma = 0.4318

Umbral Magnitude = 1.0456

U. Radius = 0.6804°

Axis = 0.4030°

Saros Series = 138

Member = 31 of 83

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h06m33.5s

Dec. = +05°43'12.3"

S.D. = 00°15'52.4"

H.P. = 00°00'08.7"

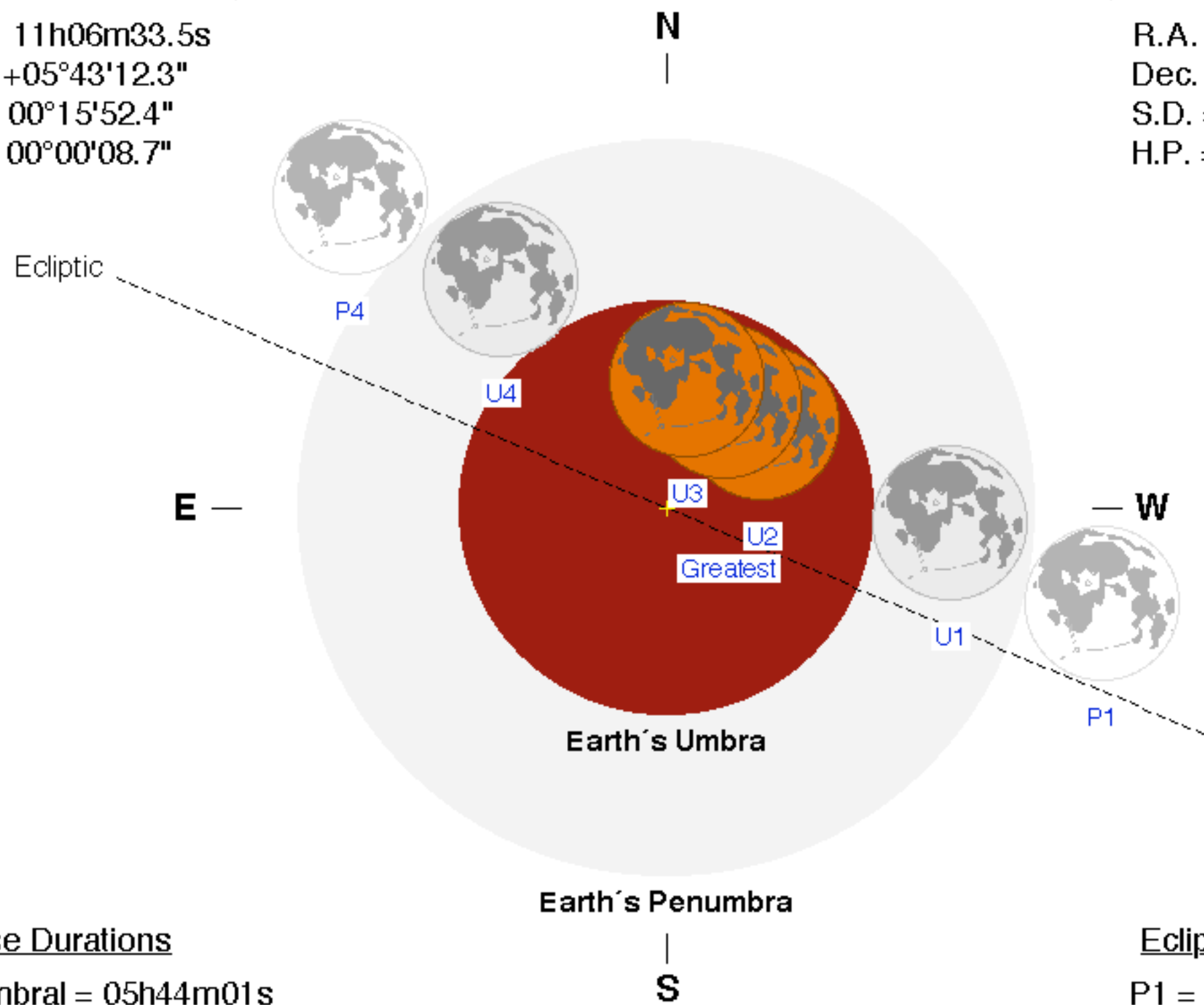
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h05m47.2s

Dec. = -05°21'56.8"

S.D. = 00°15'15.4"

H.P. = 00°55'59.6"



Eclipse Durations

Penumbral = 05h44m01s

Umbral = 03h26m12s

Total = 00h33m54s

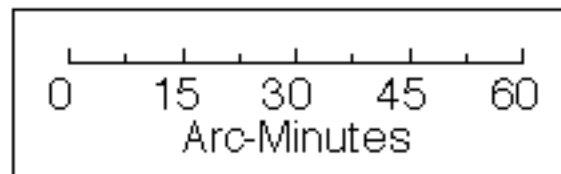
$\Delta T = 88$ s

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

Eclipse Contacts

P1 = 08:27:14 UT

U1 = 09:36:12 UT

U2 = 11:02:21 UT

U3 = 11:36:15 UT

U4 = 13:02:24 UT

P4 = 14:11:15 UT

