

Penumbral Lunar Eclipse of 2071 Sep 09

Ecliptic Conjunction = 14:53:15.9 TD (= 14:50:57.4 UT)

Greatest Eclipse = 15:05:40.8 TD (= 15:03:22.4 UT)

Penumbral Magnitude = 0.8989

P. Radius = 1.1946°

Gamma = 1.0834

Umbral Magnitude = -0.1586

U. Radius = 0.6654°

Axis = 0.9950°

Saros Series = 119

Member = 65 of 83

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h12m24.0s

Dec. = +05°06'21.0"

S.D. = 00°15'52.6"

H.P. = 00°00'08.7"

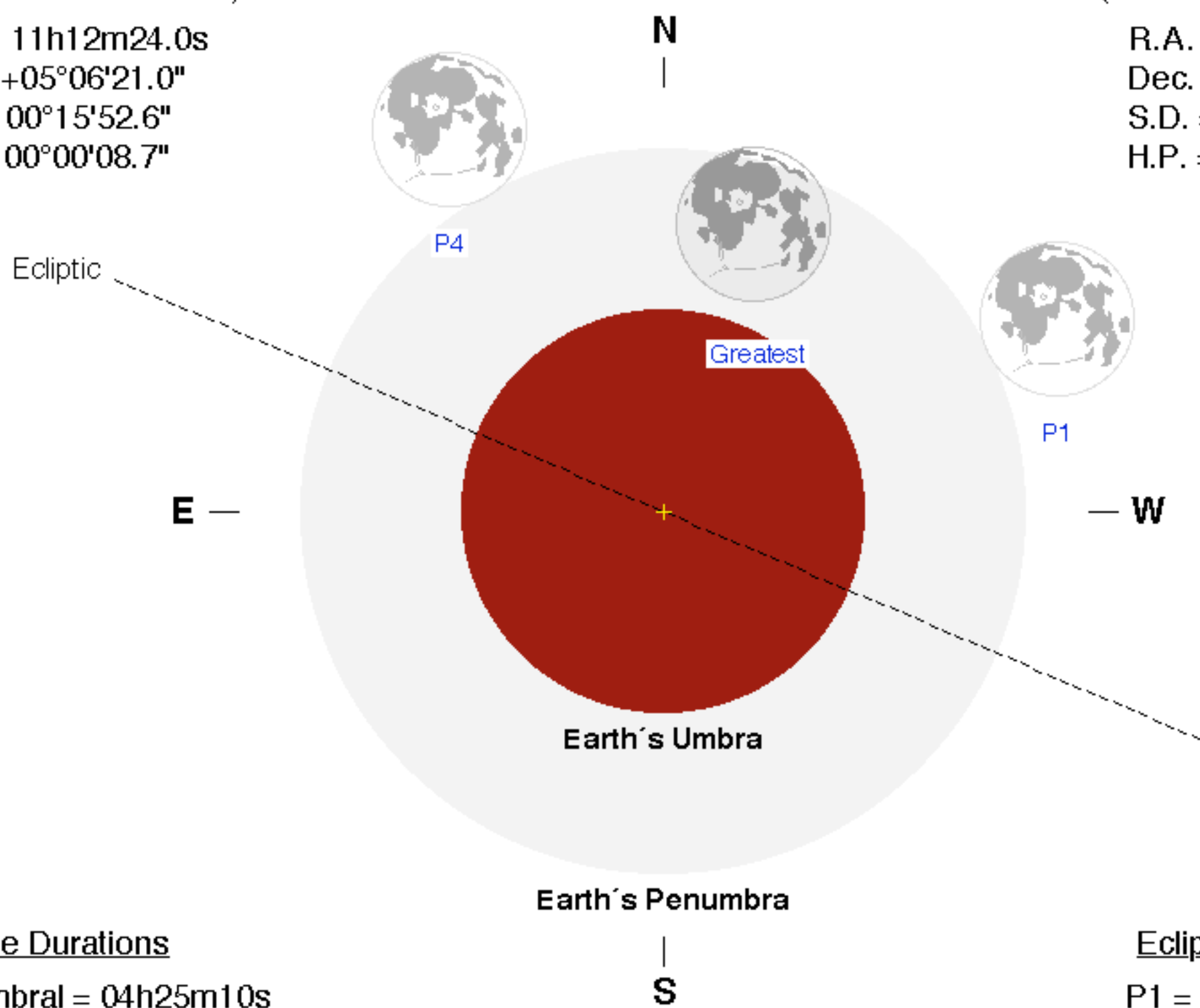
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h11m13.0s

Dec. = -04°09'20.2"

S.D. = 00°15'00.8"

H.P. = 00°55'06.1"



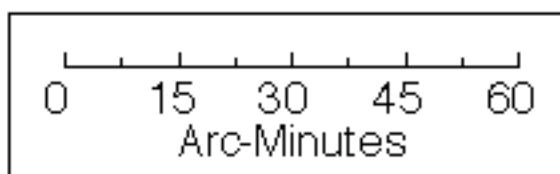
Eclipse Durations

Penumbral = 04h25m10s

Eclipse Contacts

P1 = 12:50:51 UT

P4 = 17:16:00 UT



$\Delta T = 138$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

