

Penumbral Lunar Eclipse of 2009 Jul 07

Ecliptic Conjunction = 09:22:30.9 TD (= 09:21:24.5 UT)

Greatest Eclipse = 09:39:42.7 TD (= 09:38:36.2 UT)

Penumbral Magnitude = 0.1562

P. Radius = 1.1734°

Gamma = -1.4915

Umbral Magnitude = -0.9133

U. Radius = 0.6490°

Axis = 1.3420°

Saros Series = 110

Member = 71 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h06m54.1s

Dec. = +22°32'55.2"

S.D. = 00°15'43.9"

H.P. = 00°00'08.7"

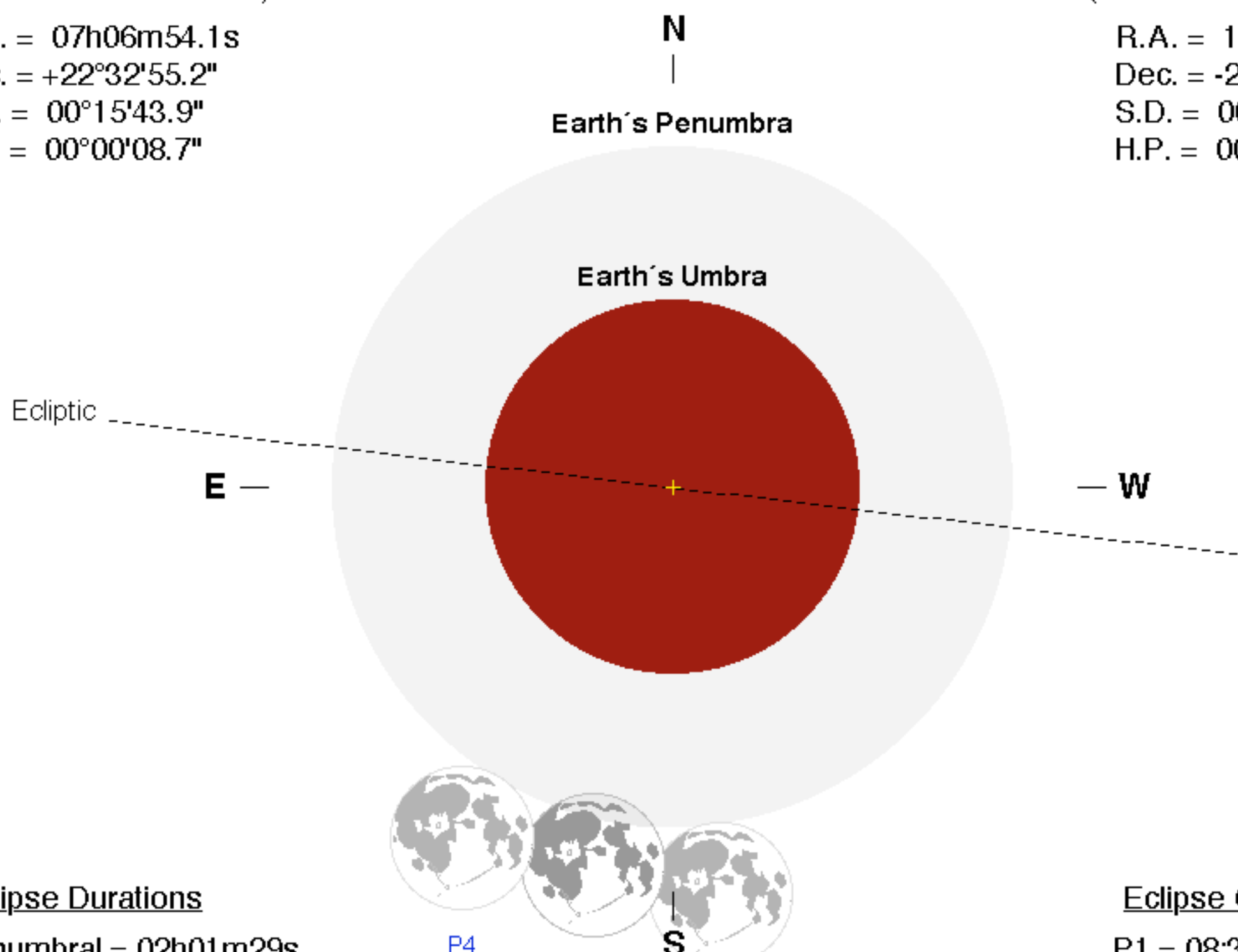
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h08m08.0s

Dec. = -23°51'38.1"

S.D. = 00°14'42.6"

H.P. = 00°53'59.3"



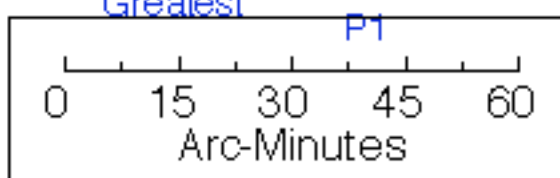
Eclipse Durations

Penumbral = 02h01m29s

Eclipse Contacts

P1 = 08:37:51 UT

P4 = 10:39:20 UT



$\Delta T = 66$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

