

Penumbral Lunar Eclipse of 2063 Sep 07

Ecliptic Conjunction = 20:54:32.7 TD (= 20:52:31.4 UT)

Greatest Eclipse = 20:41:12.0 TD (= 20:39:10.7 UT)

Penumbral Magnitude = 0.8101

P. Radius = 1.1766°

Gamma = 1.1374

Umbral Magnitude = -0.2678

U. Radius = 0.6475°

Axis = 1.0244°

Saros Series = 148

Member = 6 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h05m48.9s

Dec. = +05°47'49.3"

S.D. = 00°15'52.2"

H.P. = 00°00'08.7"

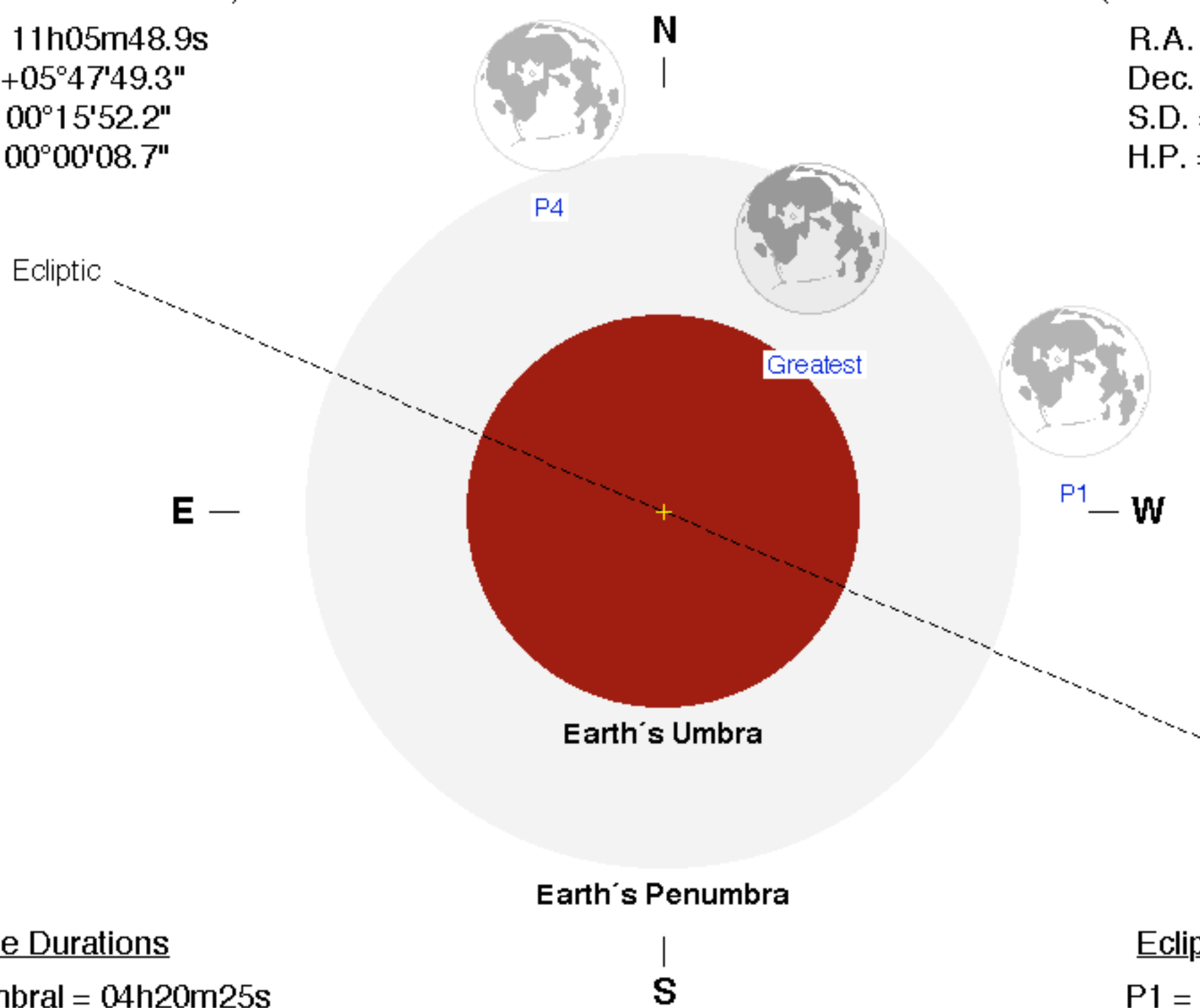
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h03m51.7s

Dec. = -04°53'44.0"

S.D. = 00°14'43.4"

H.P. = 00°54'02.2"



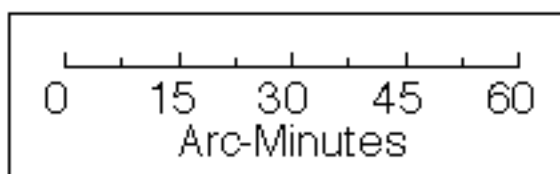
Eclipse Durations

Penumbral = 04h20m25s

Eclipse Contacts

P1 = 18:29:00 UT

P4 = 22:49:25 UT



$\Delta T = 121$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

