

Penumbral Lunar Eclipse of 2038 Jun 17

Ecliptic Conjunction = 02:31:44.8 TD (= 02:30:21.3 UT)

Greatest Eclipse = 02:45:01.7 TD (= 02:43:38.2 UT)

Penumbral Magnitude = 0.4422

P. Radius = 1.2680°

Gamma = 1.3082

Umbral Magnitude = -0.5275

U. Radius = 0.7431°

Axis = 1.2993°

Saros Series = 111 Member = 68 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 05h42m46.1s

Dec. = +23°22'28.7"

S.D. = 00°15'44.7"

H.P. = 00°00'08.7"

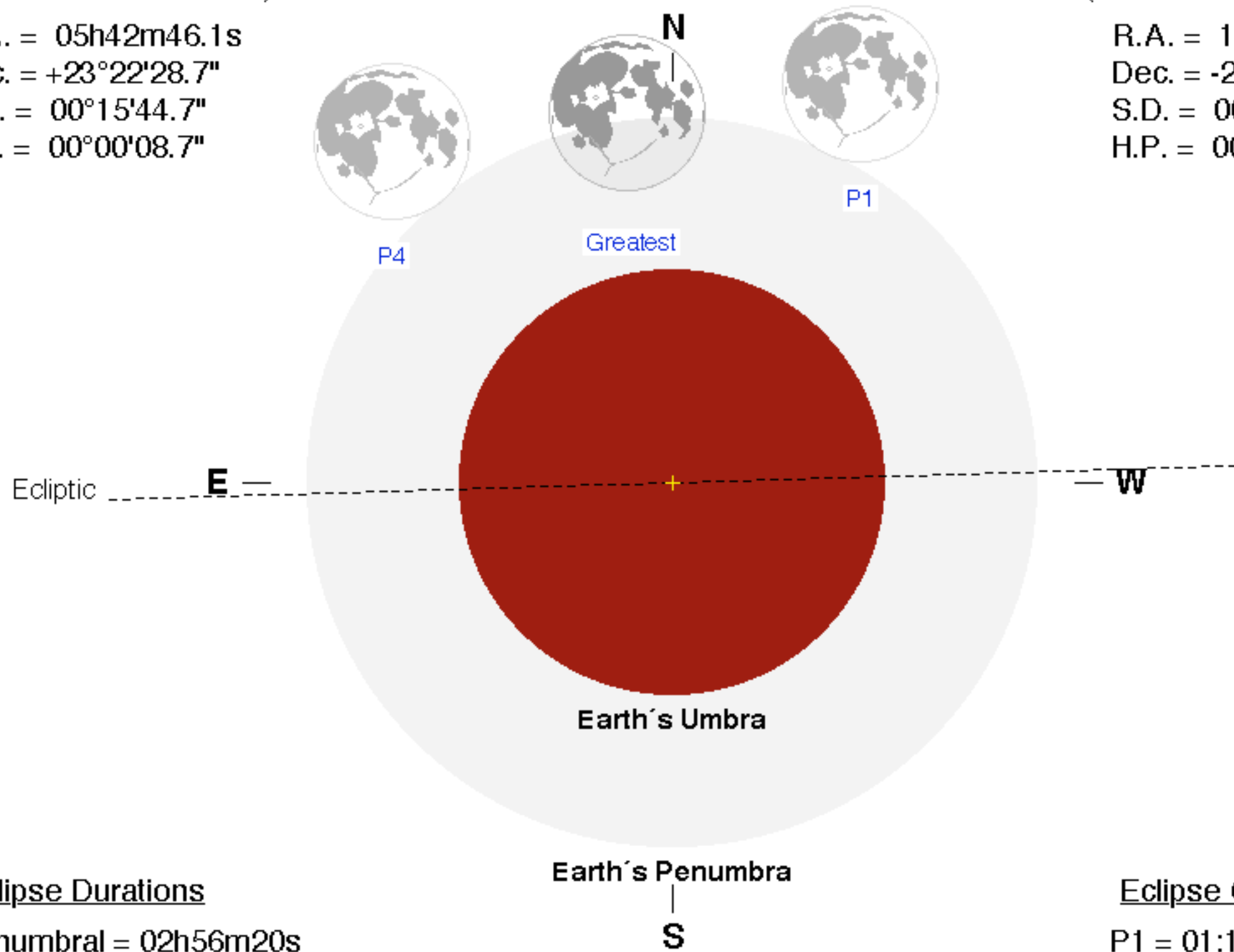
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 17h43m28.1s

Dec. = -22°05'07.2"

S.D. = 00°16'14.3"

H.P. = 00°59'35.6"



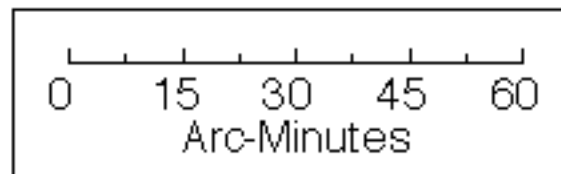
Eclipse Durations

Penumbral = 02h56m20s

Eclipse Contacts

P1 = 01:15:23 UT

P4 = 04:11:43 UT



$\Delta T = 83$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

