

Penumbral Lunar Eclipse of 2020 Jul 05

Ecliptic Conjunction = 04:45:33.9 TD (= 04:44:22.1 UT)

Greatest Eclipse = 04:31:11.9 TD (= 04:30:00.1 UT)

Penumbral Magnitude = 0.3546

P. Radius = 1.2382°

Gamma = -1.3638

Umbral Magnitude = -0.6436

U. Radius = 0.7138°

Axis = 1.3146°

Saros Series = 149

Member = 3 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 06h59m10.5s

Dec. = +22°44'23.3"

S.D. = 00°15'43.9"

H.P. = 00°00'08.6"

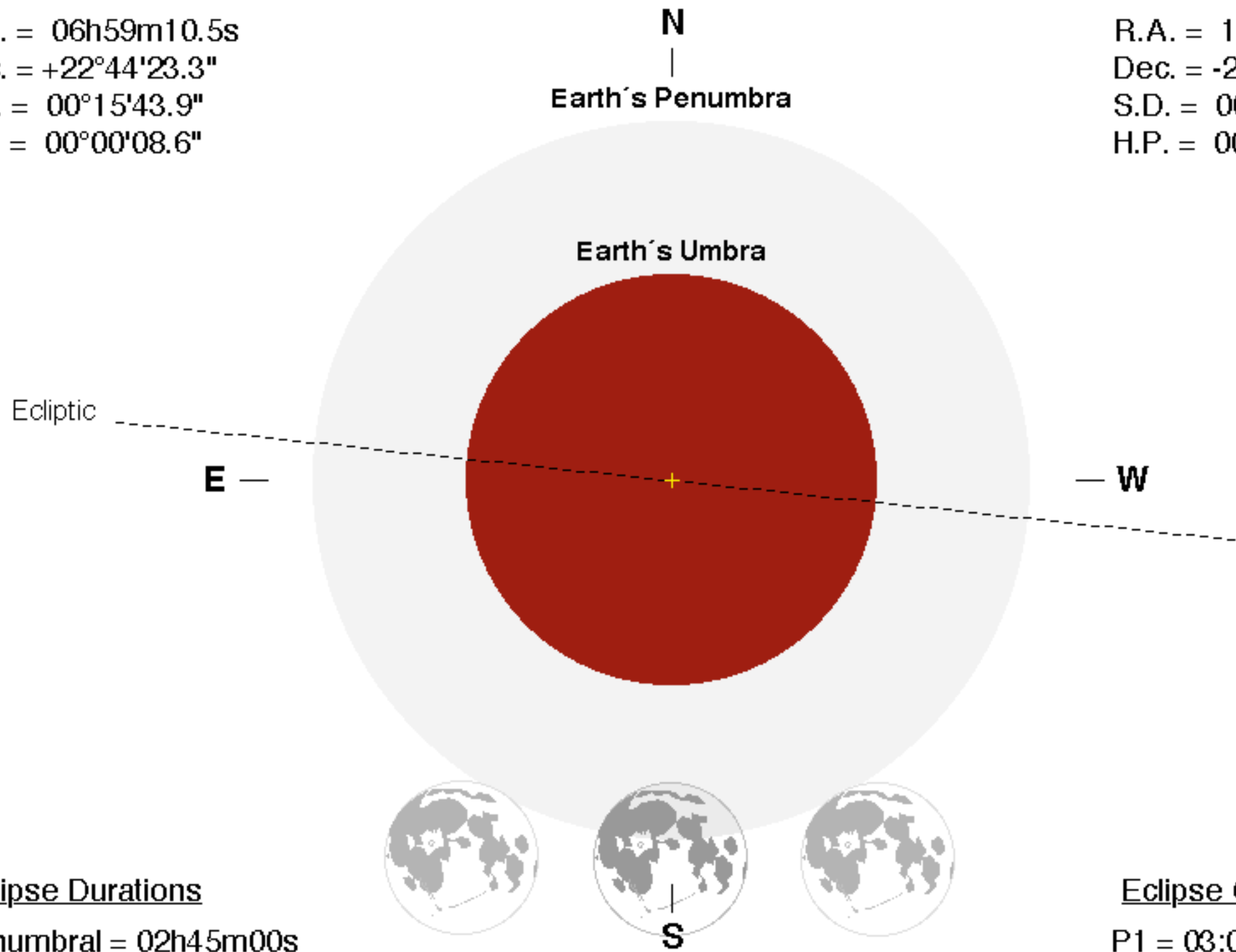
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 18h59m12.6s

Dec. = -24°03'16.2"

S.D. = 00°15'45.6"

H.P. = 00°57'50.4"



Eclipse Durations

Penumbral = 02h45m00s

Eclipse Contacts

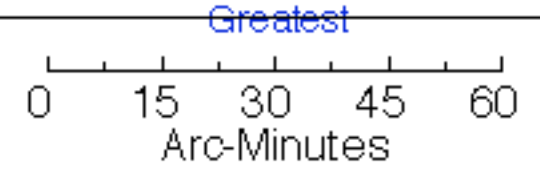
P1 = 03:07:23 UT

P4 = 05:52:23 UT

$\Delta T = 72$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85



F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

