

Penumbral Lunar Eclipse of 2020 Jan 10

Ecliptic Conjunction = 19:22:27.6 TD (= 19:21:16.1 UT)

Greatest Eclipse = 19:11:10.8 TD (= 19:09:59.2 UT)

Penumbral Magnitude = 0.8956

P. Radius = 1.2669°

Gamma = 1.0726

Umbral Magnitude = -0.1160

U. Radius = 0.7248°

Axis = 1.0549°

Saros Series = 144 Member = 16 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h26m32.0s

Dec. = -21°56'49.6"

S.D. = 00°16'15.9"

H.P. = 00°00'08.9"

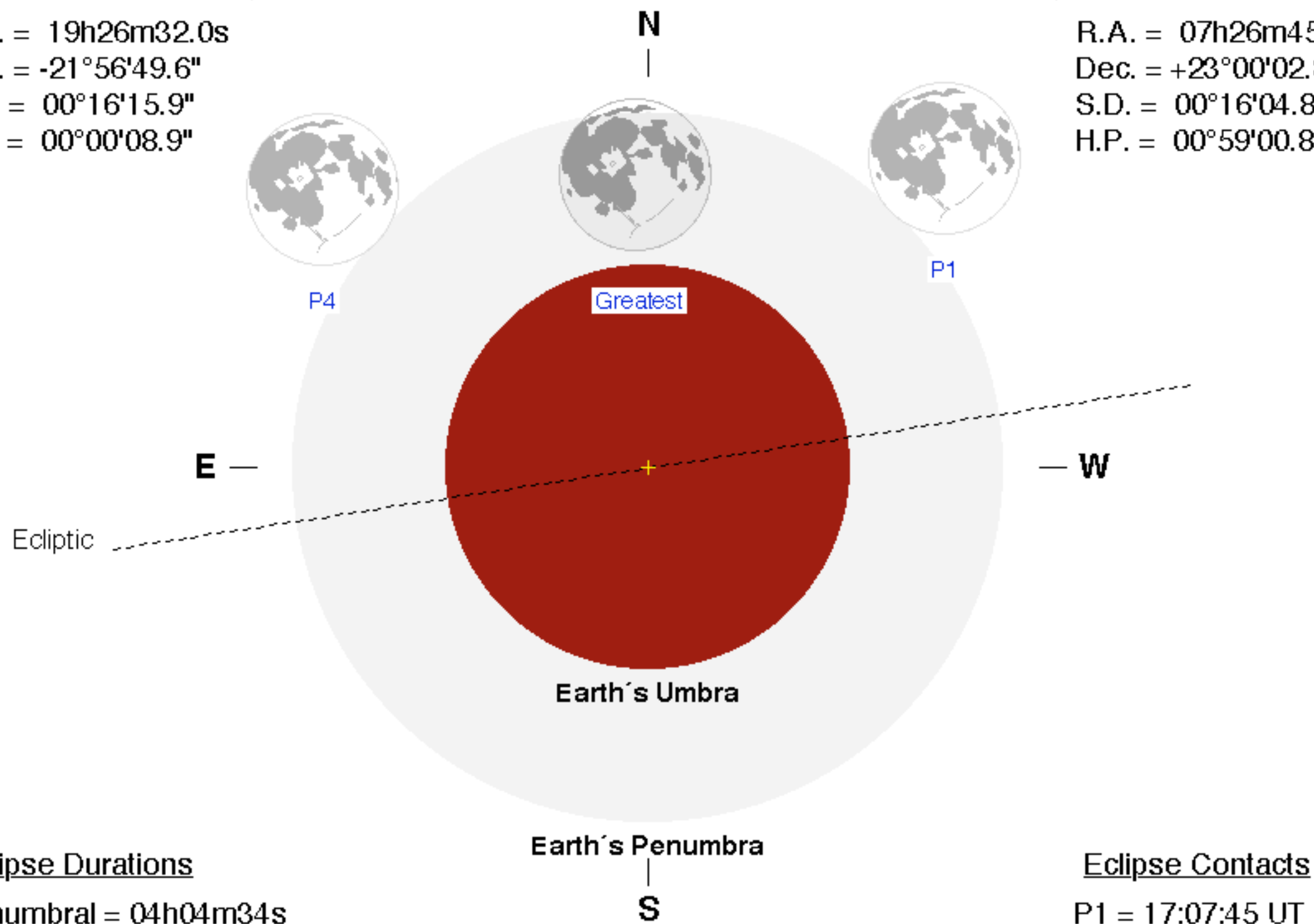
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h26m45.8s

Dec. = +23°00'02.8"

S.D. = 00°16'04.8"

H.P. = 00°59'00.8"



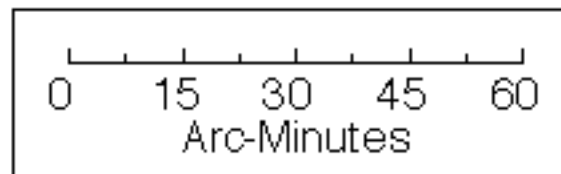
Eclipse Durations

Penumbral = 04h04m34s

Eclipse Contacts

P1 = 17:07:45 UT

P4 = 21:12:19 UT



$\Delta T = 72$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

