

Penumbral Lunar Eclipse of 2066 Dec 31

Ecliptic Conjunction = 14:42:42.3 TD (= 14:40:34.0 UT)

Greatest Eclipse = 14:30:09.8 TD (= 14:28:01.5 UT)

Penumbral Magnitude = 0.9773

P. Radius = 1.1827°

Gamma = -1.0539

Umbral Magnitude = -0.1281

U. Radius = 0.6405°

Axis = 0.9486°

Saros Series = 145 Member = 14 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 18h44m27.3s

Dec. = -23°02'13.7"

S.D. = 00°16'15.9"

H.P. = 00°00'08.9"

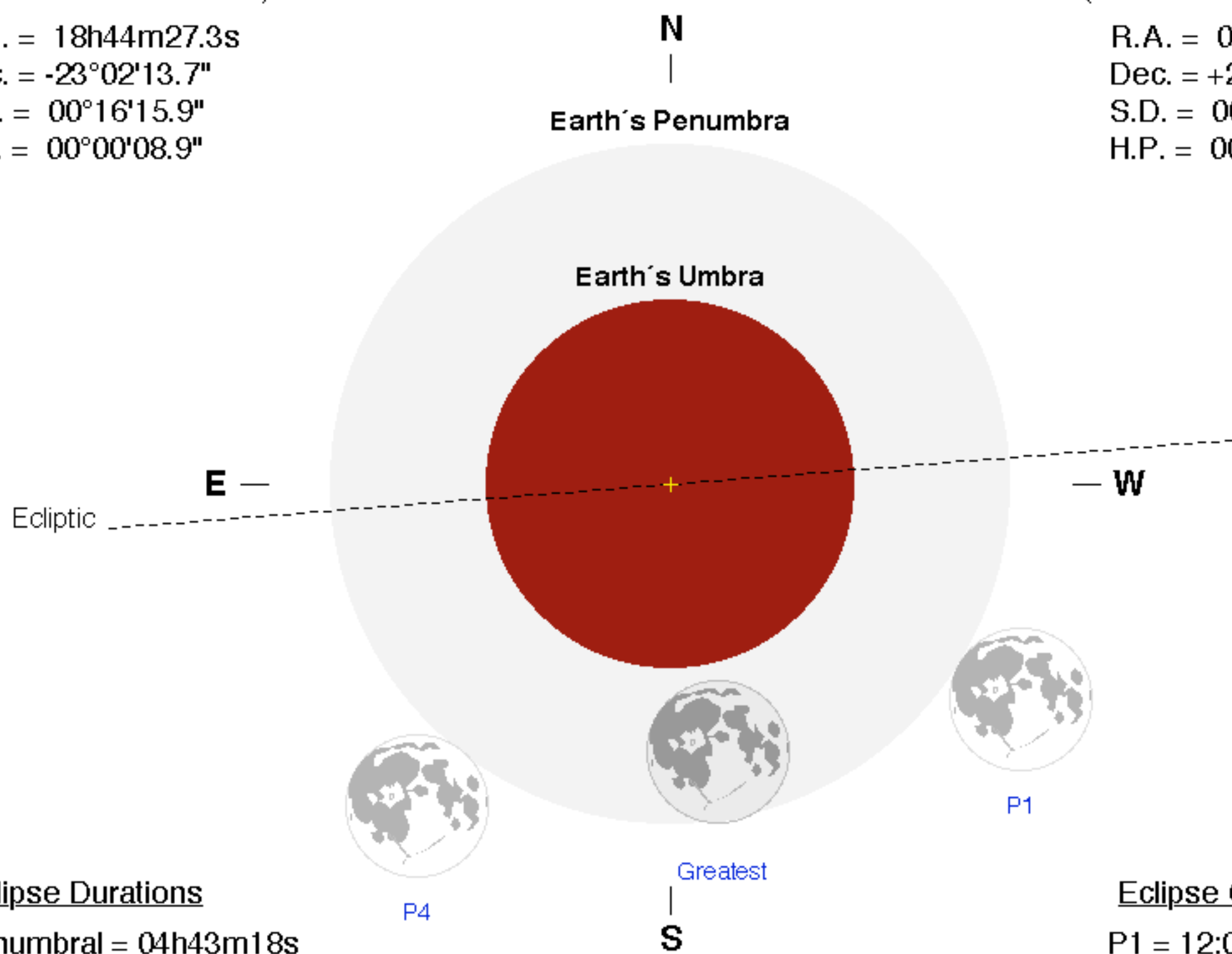
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 06h43m44.3s

Dec. = +22°06'11.1"

S.D. = 00°14'42.9"

H.P. = 00°54'00.3"



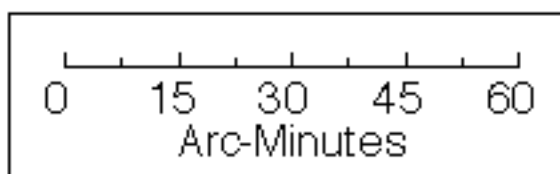
Eclipse Durations

Penumbral = 04h43m18s

Eclipse Contacts

P1 = 12:06:22 UT

P4 = 16:49:41 UT



$\Delta T = 128$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

