

Penumbral Lunar Eclipse of 2001 Dec 30

Ecliptic Conjunction = 10:41:36.9 TD (= 10:40:32.6 UT)

Greatest Eclipse = 10:30:22.3 TD (= 10:29:18.1 UT)

Penumbral Magnitude = 0.8933

P. Radius = 1.2696°

Gamma = 1.0731

Umbral Magnitude = -0.1155

U. Radius = 0.7274°

Axis = 1.0582°

Saros Series = 144 Member = 15 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 18h38m16.3s

Dec. = -23°08'50.7"

S.D. = 00°16'15.9"

H.P. = 00°00'08.9"

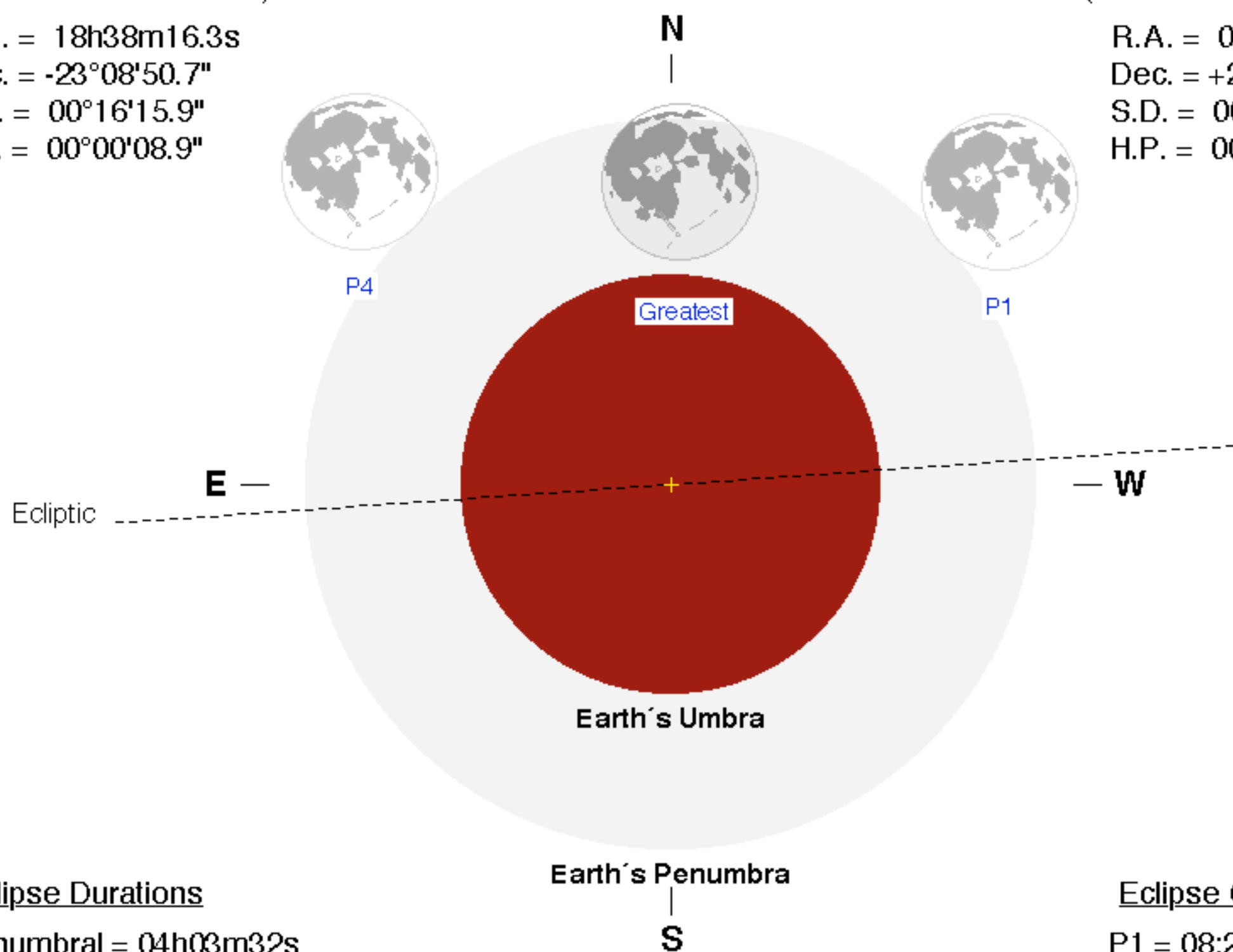
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 06h38m07.7s

Dec. = +24°12'18.7"

S.D. = 00°16'07.4"

H.P. = 00°59'10.2"



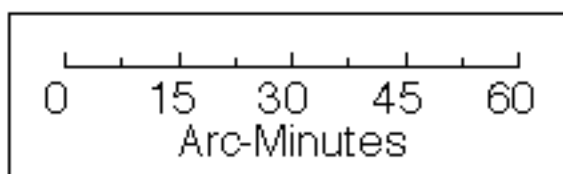
Eclipse Durations

Penumbral = 04h03m32s

Eclipse Contacts

P1 = 08:27:35 UT

P4 = 12:31:07 UT



$\Delta T = 64$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC
eclipse.gsfc.nasa.gov/eclipse.html

