

Penumbral Lunar Eclipse of 2067 Nov 21

Ecliptic Conjunction = 23:51:34.5 TD (= 23:49:24.3 UT)

Greatest Eclipse = 00:04:42.0 TD (= 00:02:31.8 UT)

Penumbral Magnitude = 0.6544

P. Radius = 1.2380°

Gamma = 1.2106

Umbral Magnitude = -0.3811

U. Radius = 0.6984°

Axis = 1.1575°

Saros Series = 117 Member = 55 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 15h46m01.0s

Dec. = -19°52'08.3"

S.D. = 00°16'11.2"

H.P. = 00°00'08.9"

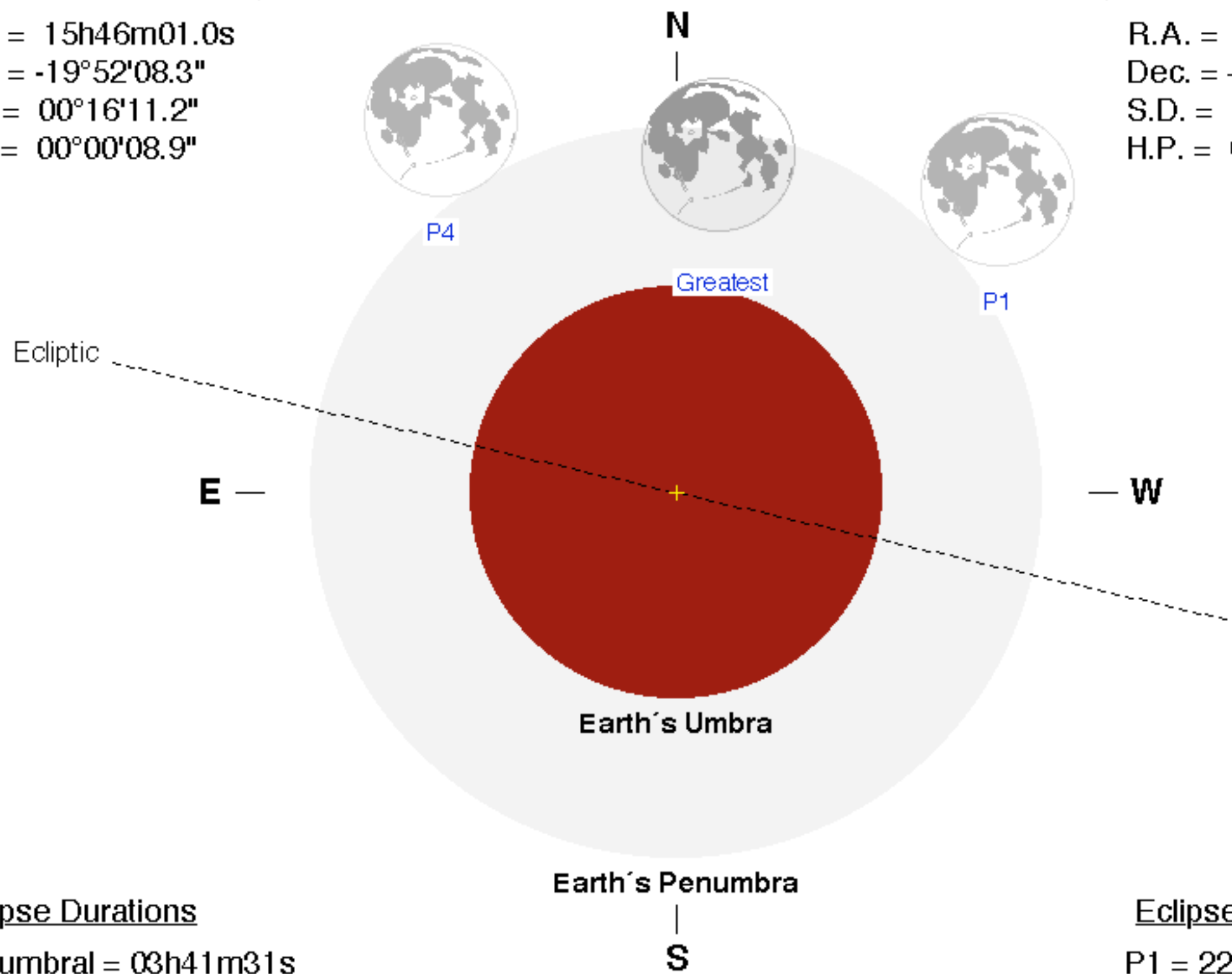
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h45m24.1s

Dec. = +21°01'03.2"

S.D. = 00°15'37.9"

H.P. = 00°57'22.2"



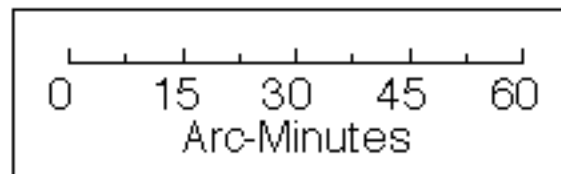
Eclipse Durations

Penumbral = 03h41m31s

Eclipse Contacts

P1 = 22:11:42 UT

P4 = 01:53:12 UT



$\Delta T = 130$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

