

Penumbral Lunar Eclipse of 2020 Nov 30

Ecliptic Conjunction = 09:30:50.1 TD (= 09:29:38.0 UT)

Greatest Eclipse = 09:44:01.0 TD (= 09:42:49.0 UT)

Penumbral Magnitude = 0.8285

P. Radius = 1.1916°

Gamma = -1.1309

Umbral Magnitude = -0.2620

U. Radius = 0.6510°

Axis = 1.0288°

Saros Series = 116

Member = 58 of 73

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 16h27m40.0s

Dec. = -21°44'31.0"

S.D. = 00°16'13.1"

H.P. = 00°00'08.9"

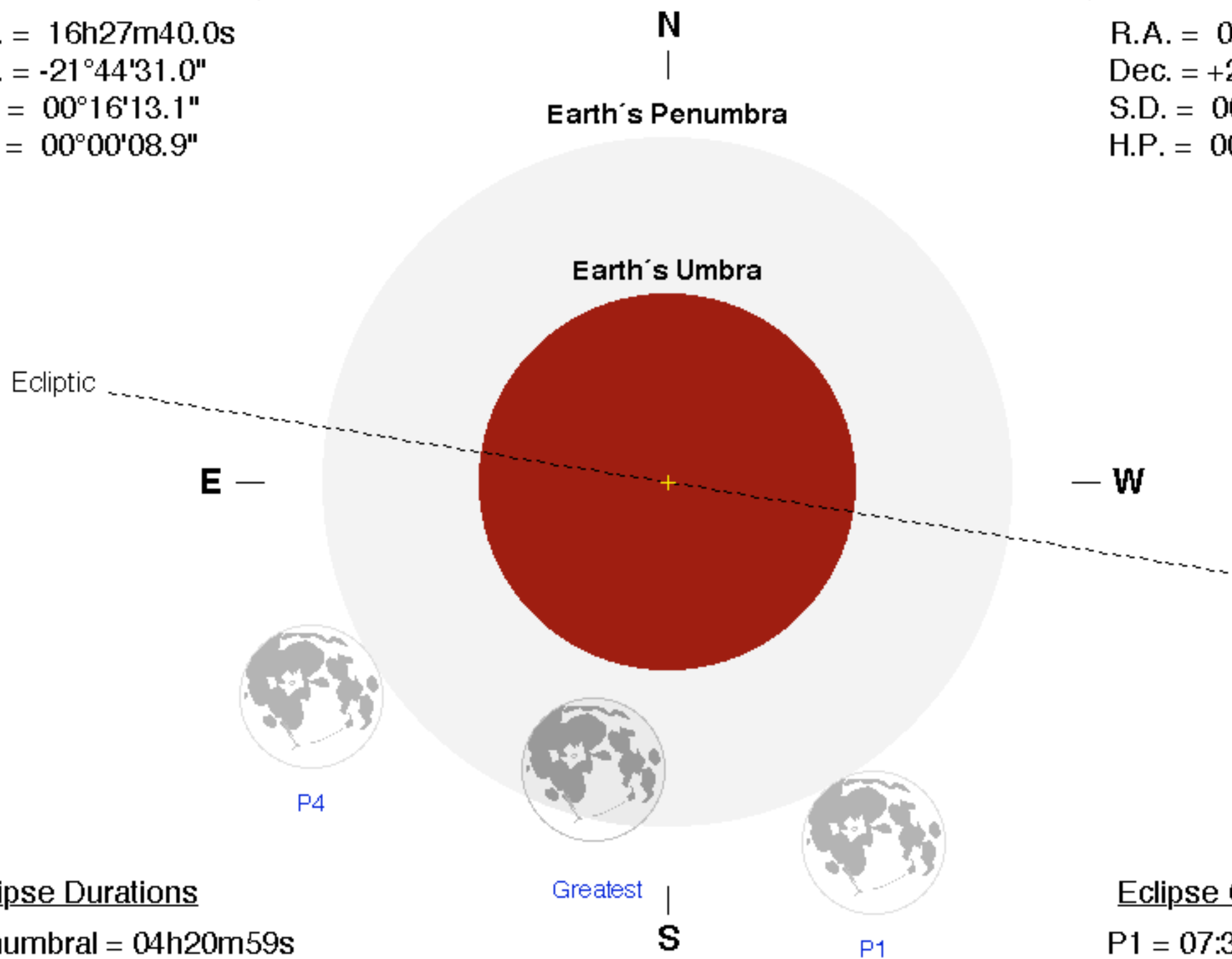
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h28m46.6s

Dec. = +20°44'46.3"

S.D. = 00°14'52.4"

H.P. = 00°54'35.1"



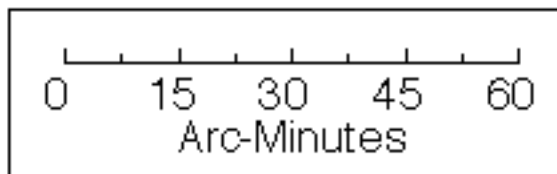
Eclipse Durations

Penumbral = 04h20m59s

Eclipse Contacts

P1 = 07:32:21 UT

P4 = 11:53:20 UT



$\Delta T = 72$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

