

Penumbral Lunar Eclipse of 1980 Mar 01

Ecliptic Conjunction = 21:00:30.4 TD (= 20:59:39.7 UT)

Greatest Eclipse = 20:46:02.8 TD (= 20:45:12.1 UT)

Penumbral Magnitude = 0.6545

P. Radius = 1.1819°

Gamma = 1.2269

Umbral Magnitude = -0.4405

U. Radius = 0.6440°

Axis = 1.1060°

Saros Series = 142

Member = 16 of 74

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 22h51m28.5s

Dec. = -07°16'40.3"

S.D. = 00°16'08.2"

H.P. = 00°00'08.9"

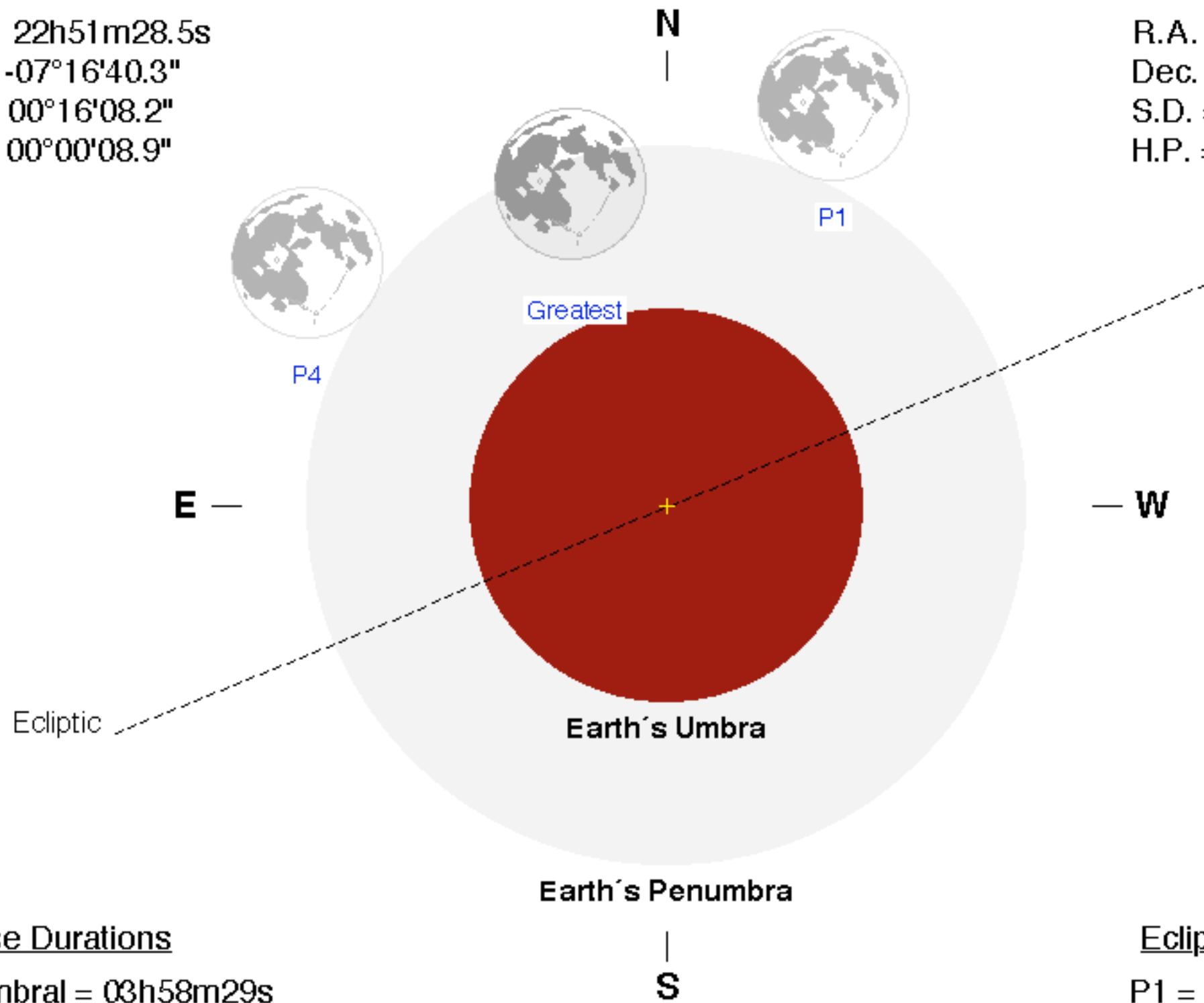
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 10h52m45.6s

Dec. = +08°20'13.7"

S.D. = 00°14'44.2"

H.P. = 00°54'05.2"



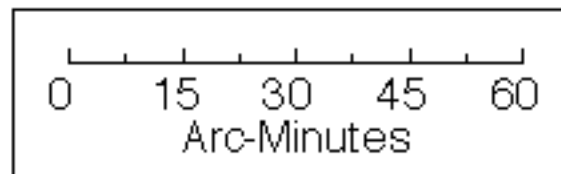
Eclipse Durations

Penumbral = 03h58m29s

Eclipse Contacts

P1 = 18:45:56 UT

P4 = 22:44:24 UT



$\Delta T = 51$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

