

Penumbral Lunar Eclipse of 2085 Jan 10

Ecliptic Conjunction = 22:44:55.4 TD (= 22:42:07.4 UT)

Greatest Eclipse = 22:32:29.5 TD (= 22:29:41.5 UT)

Penumbral Magnitude = 0.9927

P. Radius = 1.1831°

Gamma = -1.0453

Umbral Magnitude = -0.1119

U. Radius = 0.6410°

Axis = 0.9413°

Saros Series = 145 Member = 15 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h32m28.5s

Dec. = -21°43'43.6"

S.D. = 00°16'15.8"

H.P. = 00°00'08.9"

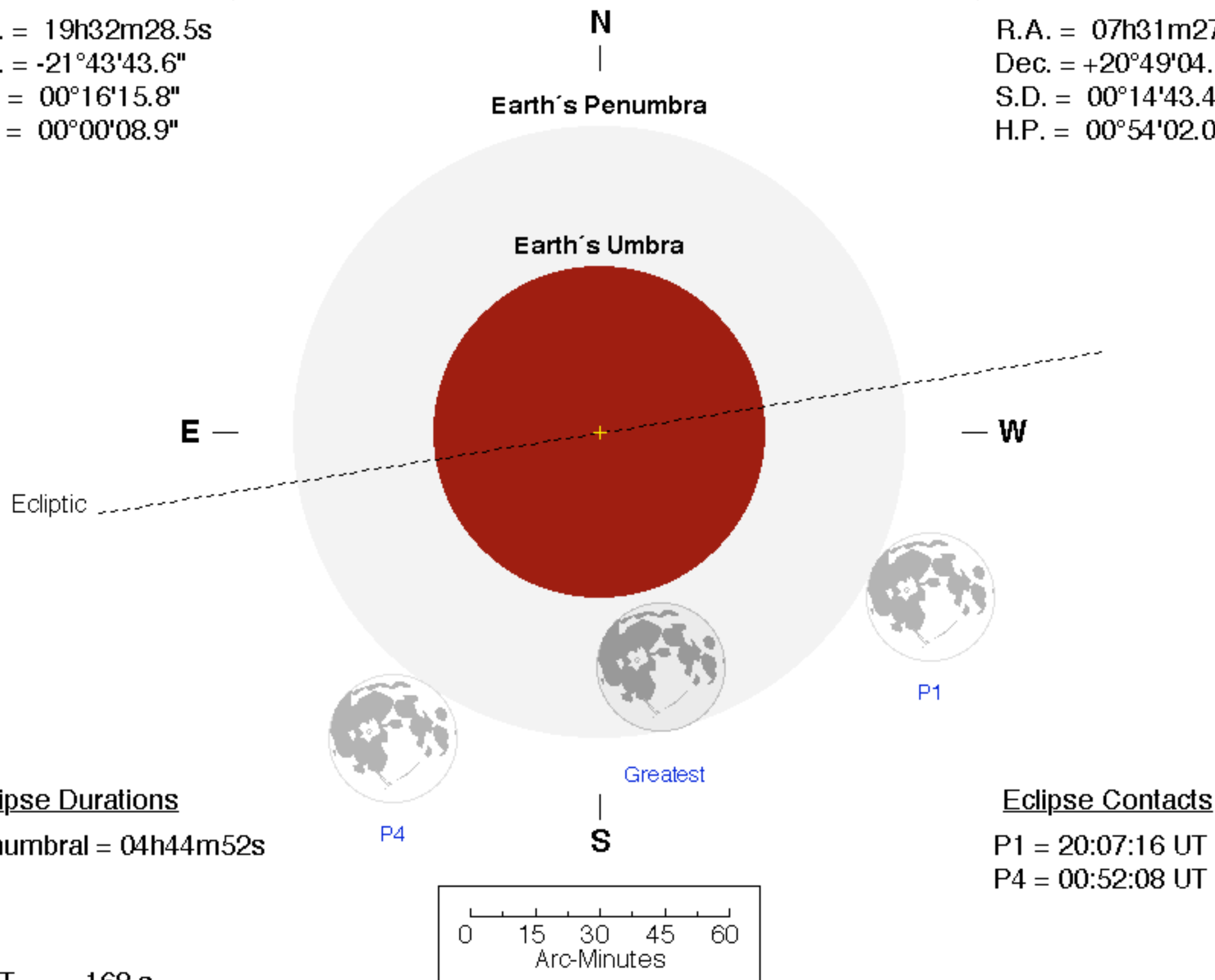
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h31m27.3s

Dec. = +20°49'04.5"

S.D. = 00°14'43.4"

H.P. = 00°54'02.0"



Eclipse Durations

Penumbral = 04h44m52s

Eclipse Contacts

P1 = 20:07:16 UT

P4 = 00:52:08 UT

$\Delta T = 168$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

