

Penumbral Lunar Eclipse of 1981 Jan 20

Ecliptic Conjunction = 07:39:48.4 TD (= 07:38:56.9 UT)

Greatest Eclipse = 07:50:48.4 TD (= 07:49:56.9 UT)

Penumbral Magnitude = 1.0136

P. Radius = 1.2456°

Gamma = -1.0141

Umbral Magnitude = -0.0192

U. Radius = 0.7039°

Axis = 0.9762°

Saros Series = 114 Member = 57 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h09m28.4s

Dec. = -20°06'46.4"

S.D. = 00°16'15.2"

H.P. = 00°00'08.9"

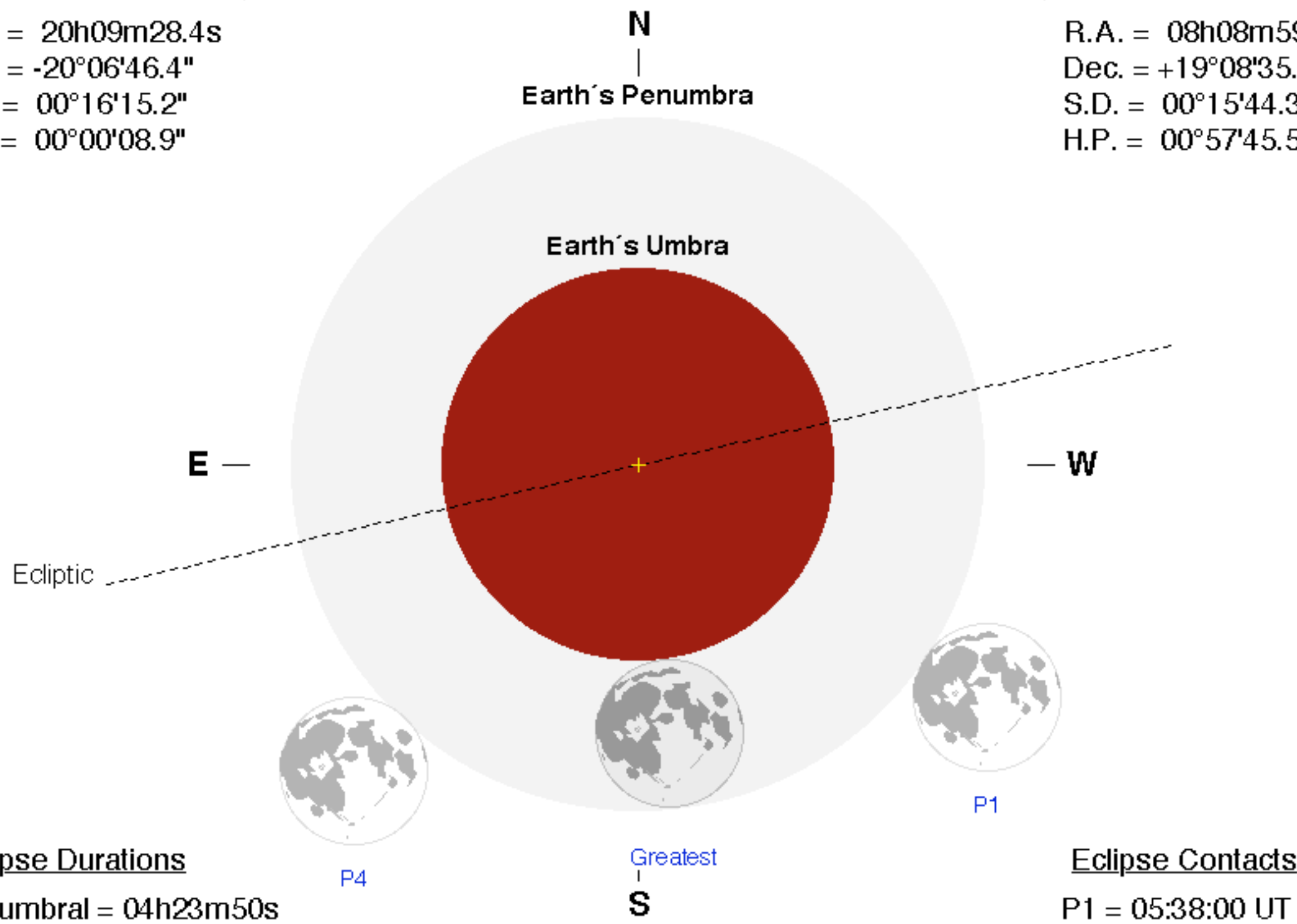
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 08h08m59.5s

Dec. = +19°08'35.6"

S.D. = 00°15'44.3"

H.P. = 00°57'45.5"



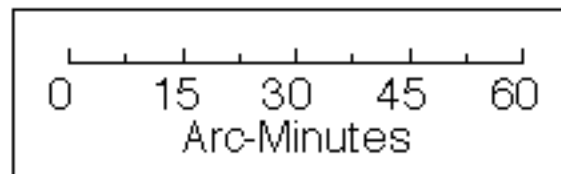
Eclipse Durations

Penumbral = 04h23m50s

Eclipse Contacts

P1 = 05:38:00 UT

P4 = 10:01:50 UT



$\Delta T = 51$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

