

# Penumbral Lunar Eclipse of 1984 Nov 08

Ecliptic Conjunction = 17:43:30.6 TD (= 17:42:36.3 UT)

Greatest Eclipse = 17:56:08.3 TD (= 17:55:14.0 UT)

Penumbral Magnitude = 0.8992

P. Radius = 1.1938°

Gamma = -1.0899

Umbral Magnitude = -0.1825

U. Radius = 0.6555°

Axis = 0.9952°

Saros Series = 116

Member = 56 of 73

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 14h56m10.9s

Dec. = -16°46'34.8"

S.D. = 00°16'08.9"

H.P. = 00°00'08.9"

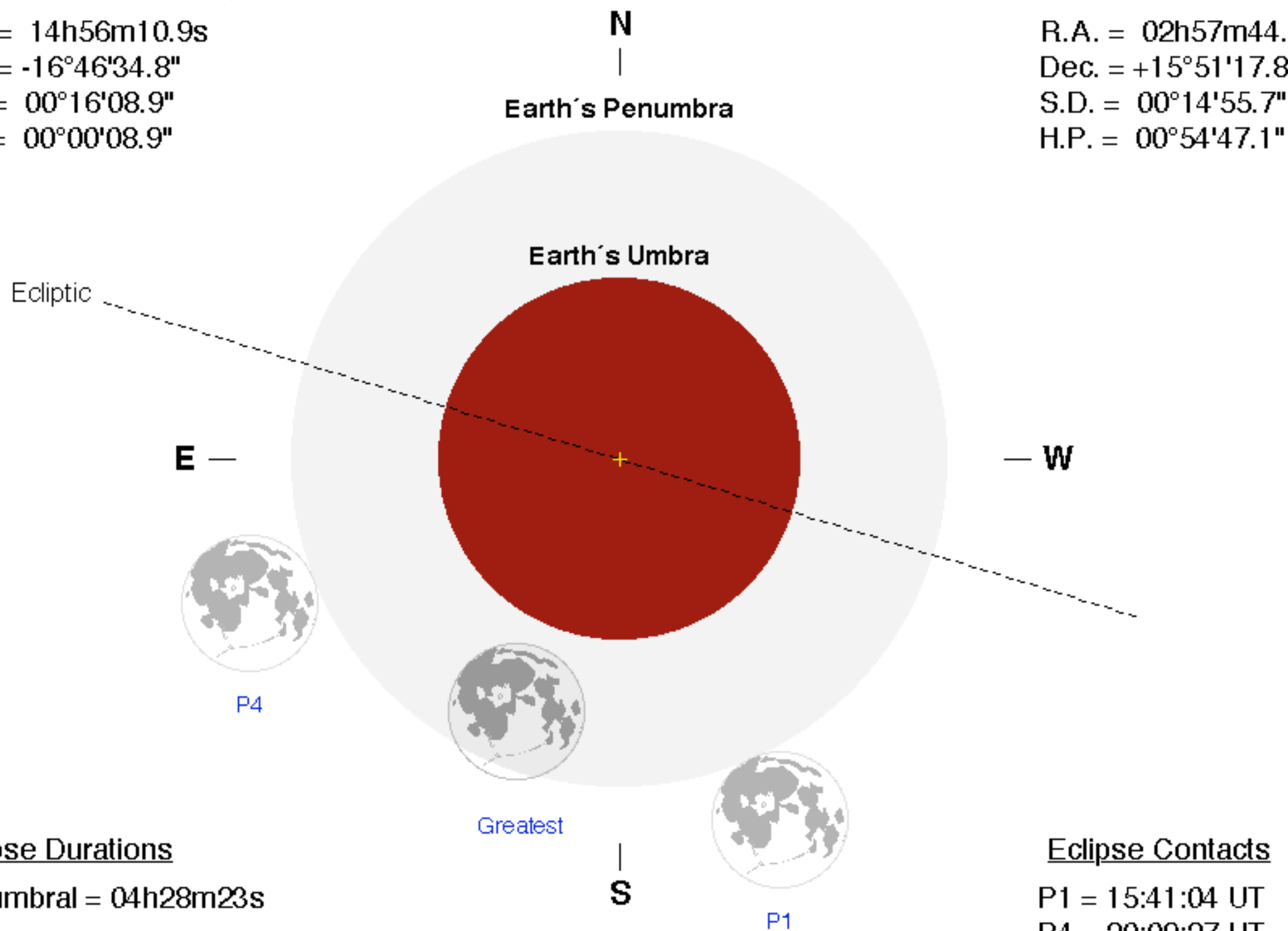
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 02h57m44.9s

Dec. = +15°51'17.8"

S.D. = 00°14'55.7"

H.P. = 00°54'47.1"



## Eclipse Durations

Penumbral = 04h28m23s

## Eclipse Contacts

P1 = 15:41:04 UT

P4 = 20:09:27 UT

$\Delta T = 54$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

[eclipse.gsfc.nasa.gov/eclipse.html](http://eclipse.gsfc.nasa.gov/eclipse.html)

