

# Penumbral Lunar Eclipse of 1994 Nov 18

Ecliptic Conjunction = 06:58:01.4 TD (= 06:57:00.7 UT)

Greatest Eclipse = 06:44:53.5 TD (= 06:43:52.9 UT)

Penumbral Magnitude = 0.8815

P. Radius = 1.1805°

Gamma = -1.1047

Umbral Magnitude = -0.2189

U. Radius = 0.6412°

Axis = 0.9935°

Saros Series = 145 Member = 10 of 71

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 15h33m27.5s

Dec. = -19°10'54.7"

S.D. = 00°16'10.8"

H.P. = 00°00'08.9"

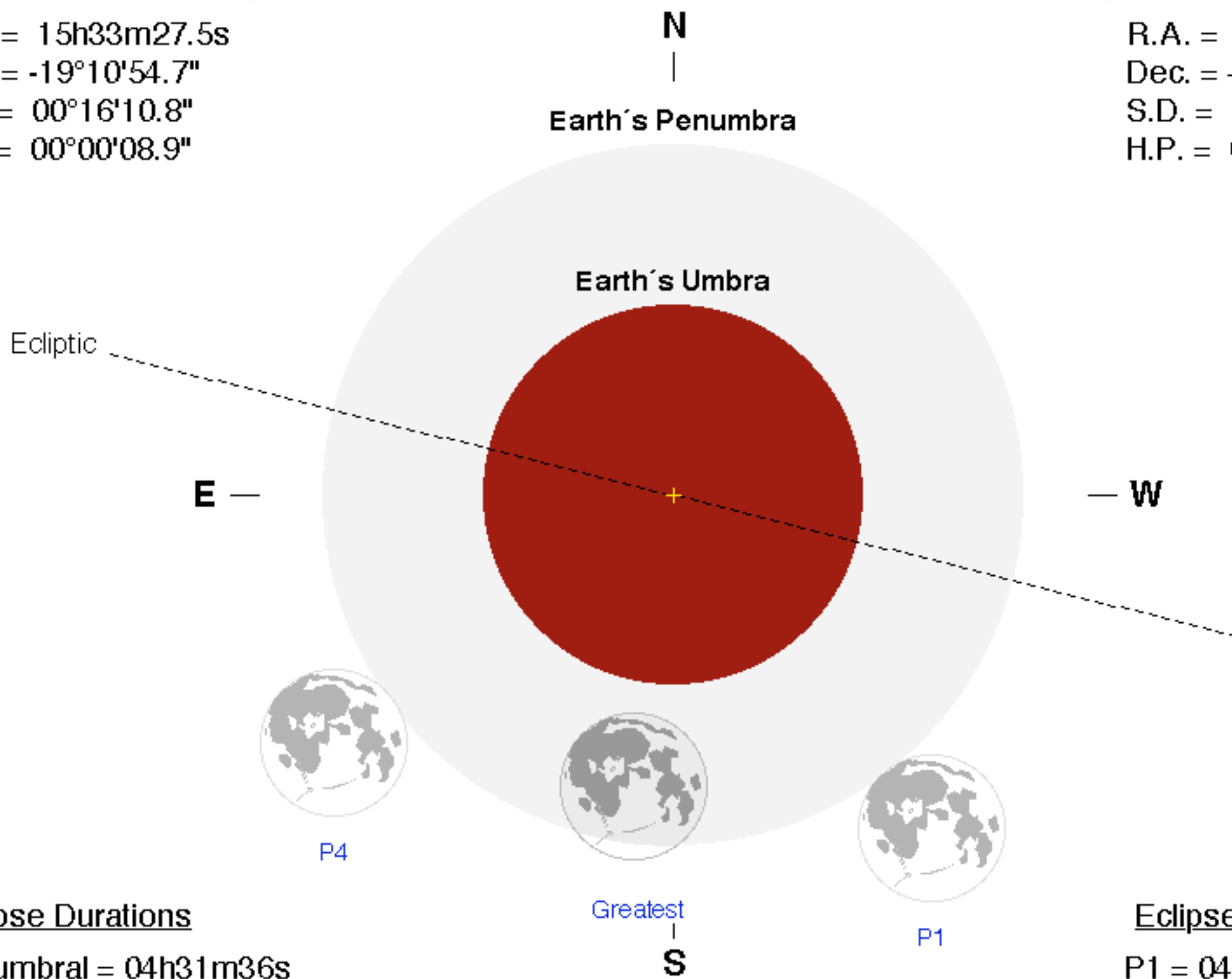
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h34m02.6s

Dec. = +18°11'52.9"

S.D. = 00°14'42.2"

H.P. = 00°53'57.7"



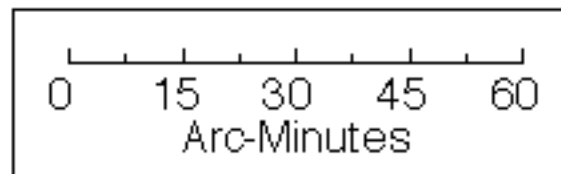
## Eclipse Durations

Penumbral = 04h31m36s

## Eclipse Contacts

P1 = 04:28:04 UT

P4 = 08:59:41 UT



$\Delta T = 61$  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)

