

# Penumbral Lunar Eclipse of 2092 Jul 19

Ecliptic Conjunction = 00:26:55.6 TD (= 00:23:50.4 UT)

Greatest Eclipse = 00:41:57.9 TD (= 00:38:52.8 UT)

Penumbral Magnitude = 0.0620

P. Radius = 1.2762°

Gamma = 1.5131

Umbral Magnitude = -0.8992

U. Radius = 0.7516°

Axis = 1.5152°

Saros Series = 111 Member = 71 of 71

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h57m50.3s

Dec. = +20°40'07.3"

S.D. = 00°15'44.3"

H.P. = 00°00'08.7"

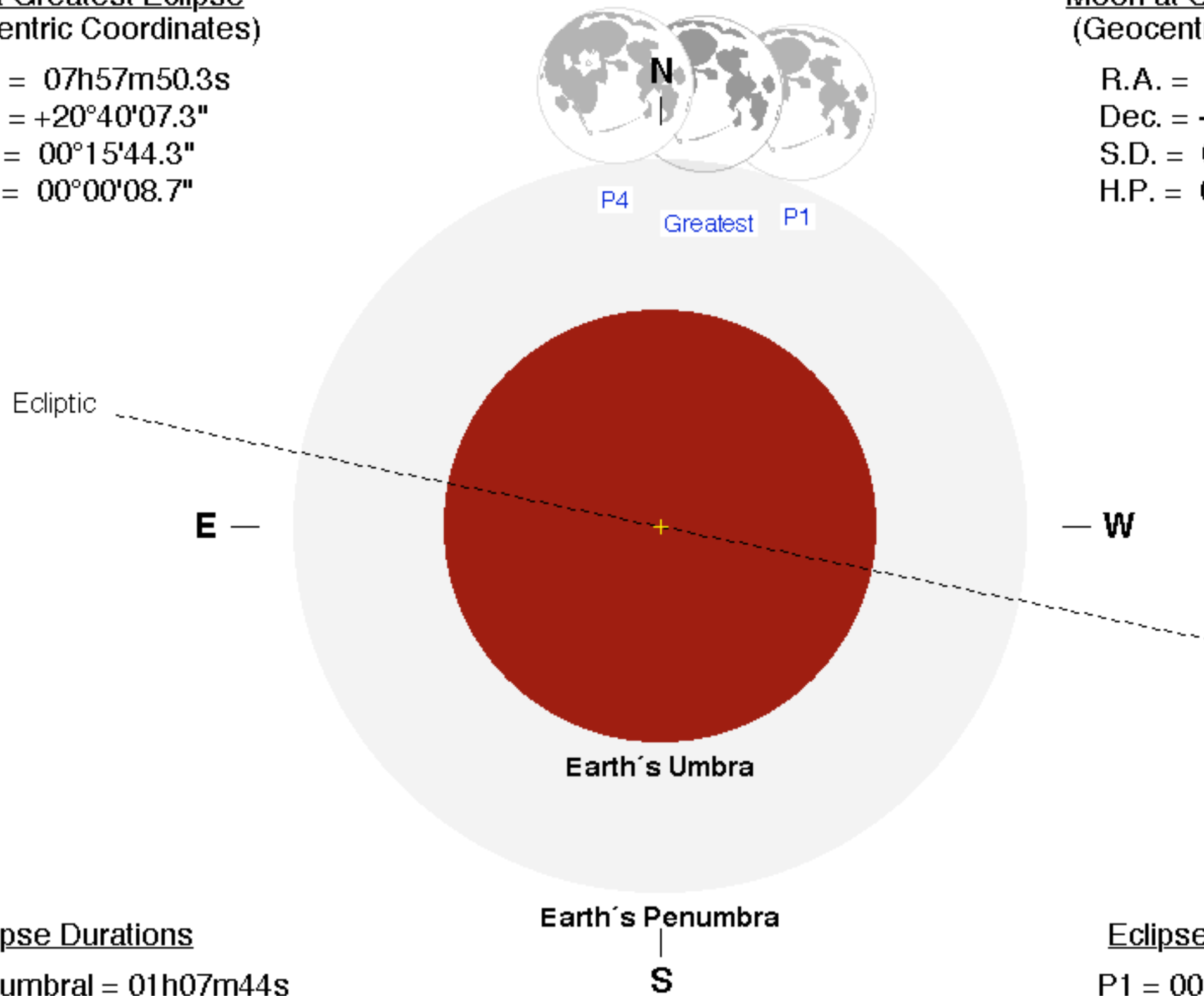
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h57m10.8s

Dec. = -19°09'40.3"

S.D. = 00°16'22.4"

H.P. = 01°00'05.3"



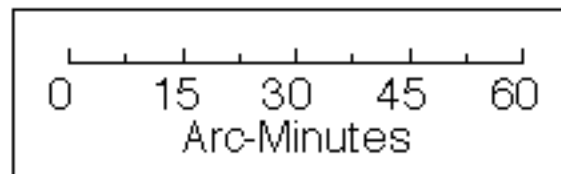
## Eclipse Durations

Penumbral = 01h07m44s

## Eclipse Contacts

P1 = 00:04:54 UT

P4 = 01:12:38 UT



$\Delta T = 185$  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)

