

# Total Lunar Eclipse of 2022 Nov 08

Ecliptic Conjunction = 11:03:18.4 TD (= 11:02:05.3 UT)

Greatest Eclipse = 11:00:22.0 TD (= 10:59:08.8 UT)

Penumbral Magnitude = 2.4143

P. Radius = 1.2164°

Gamma = 0.2570

Umbral Magnitude = 1.3589

U. Radius = 0.6783°

Axis = 0.2404°

Saros Series = 136

Member = 20 of 72

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 14h54m11.2s

Dec. = -16°37'47.0"

S.D. = 00°16'08.5"

H.P. = 00°00'08.9"

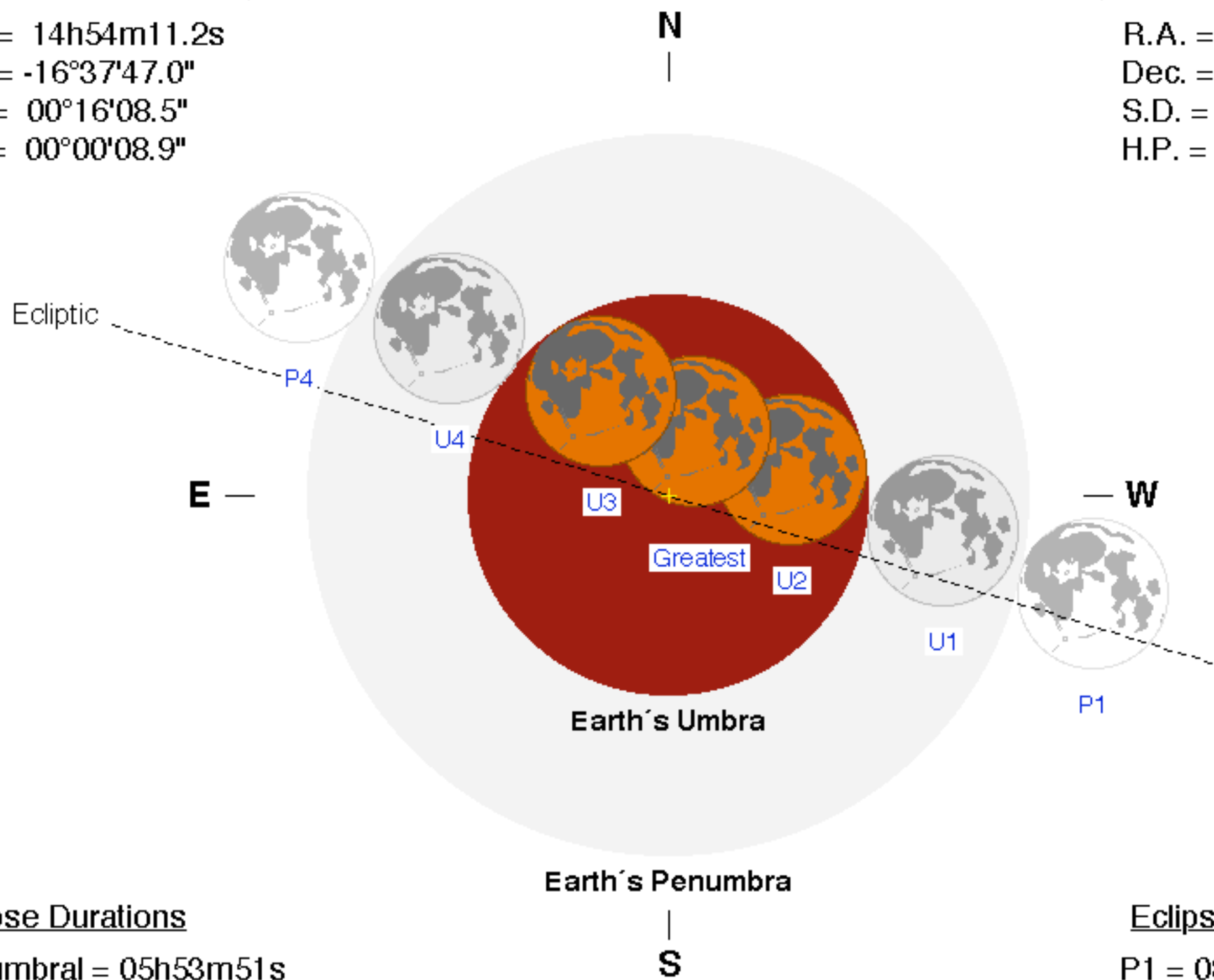
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 02h53m48.1s

Dec. = +16°51'06.7"

S.D. = 00°15'17.7"

H.P. = 00°56'07.8"



## Eclipse Durations

Penumbral = 05h53m51s

Umbral = 03h39m50s

Total = 01h24m58s

$\Delta T = 73$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

## Eclipse Contacts

P1 = 08:02:17 UT

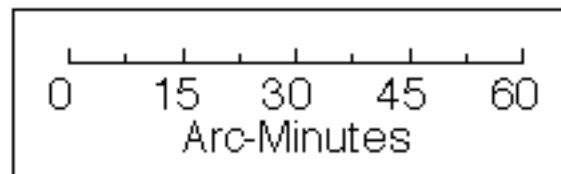
U1 = 09:09:12 UT

U2 = 10:16:39 UT

U3 = 11:41:37 UT

U4 = 12:49:03 UT

P4 = 13:56:08 UT



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

