

# Total Lunar Eclipse of 2054 Aug 18

Ecliptic Conjunction = 09:23:08.1 TD (= 09:21:25.7 UT)

Greatest Eclipse = 09:26:30.1 TD (= 09:24:47.7 UT)

Penumbral Magnitude = 2.3805

P. Radius = 1.1743°

Gamma = 0.2806

Umbral Magnitude = 1.3062

U. Radius = 0.6476°

Axis = 0.2524°

Saros Series = 129

Member = 40 of 71

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h51m47.0s

Dec. = +12°57'08.7"

S.D. = 00°15'48.0"

H.P. = 00°00'08.7"

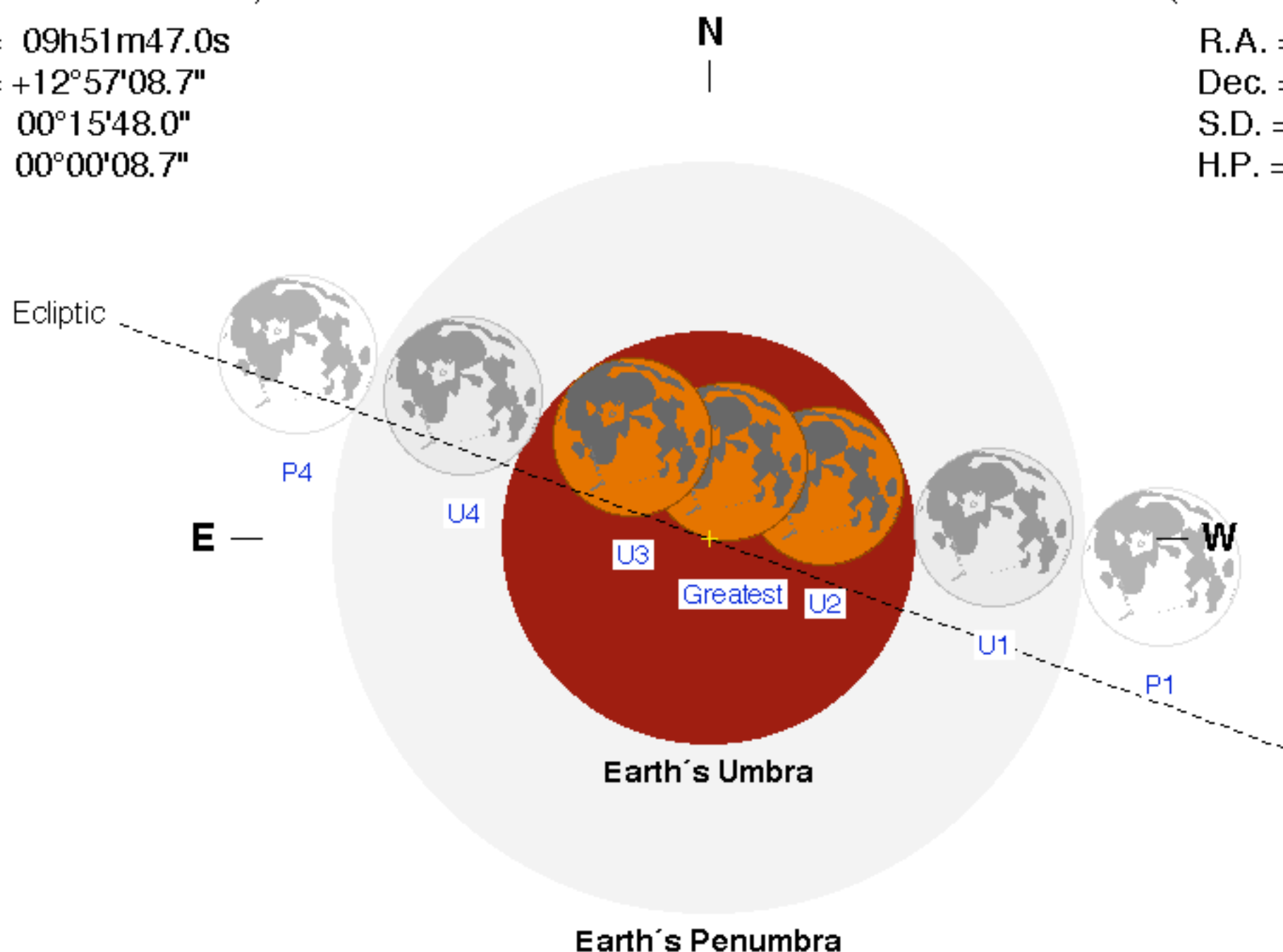
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 21h51m32.0s

Dec. = -12°42'26.7"

S.D. = 00°14'42.4"

H.P. = 00°53'58.4"



## Eclipse Durations

Penumbral = 06h09m27s

Umbral = 03h46m32s

Total = 01h22m57s

$\Delta T = 102$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

## Eclipse Contacts

P1 = 06:20:05 UT

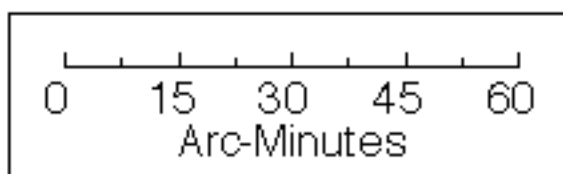
U1 = 07:31:32 UT

U2 = 08:43:19 UT

U3 = 10:06:16 UT

U4 = 11:18:04 UT

P4 = 12:29:32 UT



F. Espenak, NASA's GSFC  
eclipse.gsfc.nasa.gov/eclipse.html

