

# Total Lunar Eclipse of 2072 Aug 28

Ecliptic Conjunction = 16:01:25.5 TD (= 15:59:04.9 UT)

Greatest Eclipse = 16:05:42.2 TD (= 16:03:21.6 UT)

Penumbral Magnitude = 2.2428

P. Radius = 1.1750°

Gamma = 0.3563

Umbral Magnitude = 1.1662

U. Radius = 0.6471°

Axis = 0.3205°

Saros Series = 129

Member = 41 of 71

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 10h31m55.6s

Dec. = +09°13'37.6"

S.D. = 00°15'50.1"

H.P. = 00°00'08.7"

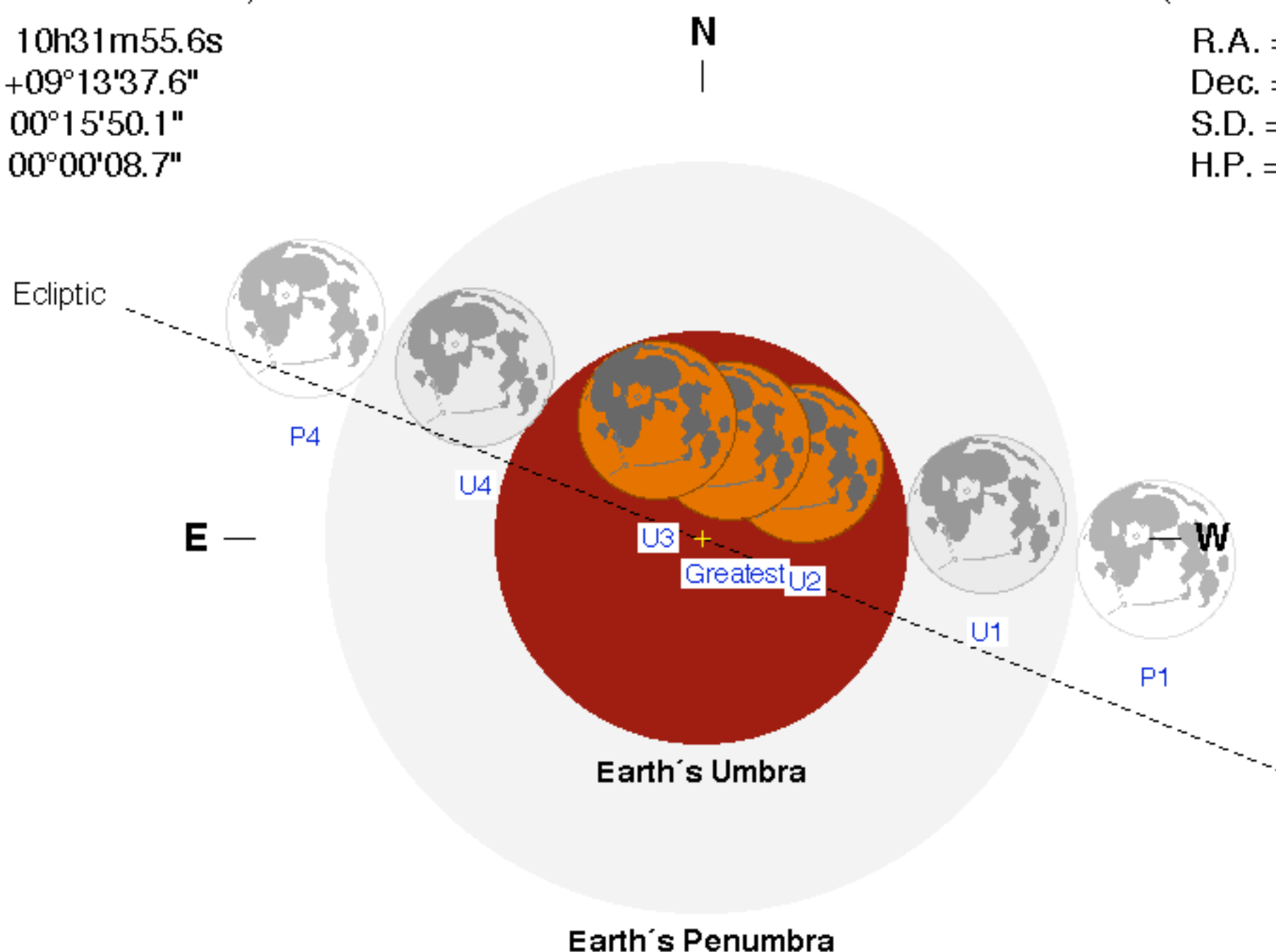
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 22h31m34.3s

Dec. = -08°55'07.6"

S.D. = 00°14'42.5"

H.P. = 00°53'58.7"



## Eclipse Durations

Penumbral = 06h06m00s

Umbral = 03h40m19s

Total = 01h04m12s

$\Delta T = 141$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

## Eclipse Contacts

P1 = 13:00:22 UT

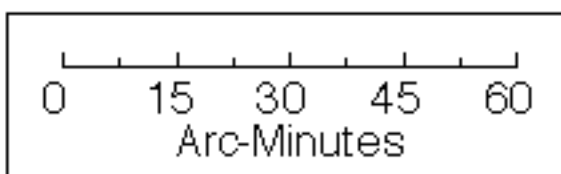
U1 = 14:13:12 UT

U2 = 15:31:16 UT

U3 = 16:35:27 UT

U4 = 17:53:31 UT

P4 = 19:06:22 UT



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

