

# Total Lunar Eclipse of 2083 Feb 02

Ecliptic Conjunction = 18:22:55.8 TD (= 18:20:12.2 UT)

Greatest Eclipse = 18:26:45.7 TD (= 18:24:02.1 UT)

Penumbral Magnitude = 2.2400

P. Radius = 1.2420°

Gamma = 0.3463

Umbral Magnitude = 1.2052

U. Radius = 0.7010°

Axis = 0.3323°

Saros Series = 125

Member = 52 of 72

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 21h06m12.7s

Dec. = -16°35'42.1"

S.D. = 00°16'13.8"

H.P. = 00°00'08.9"

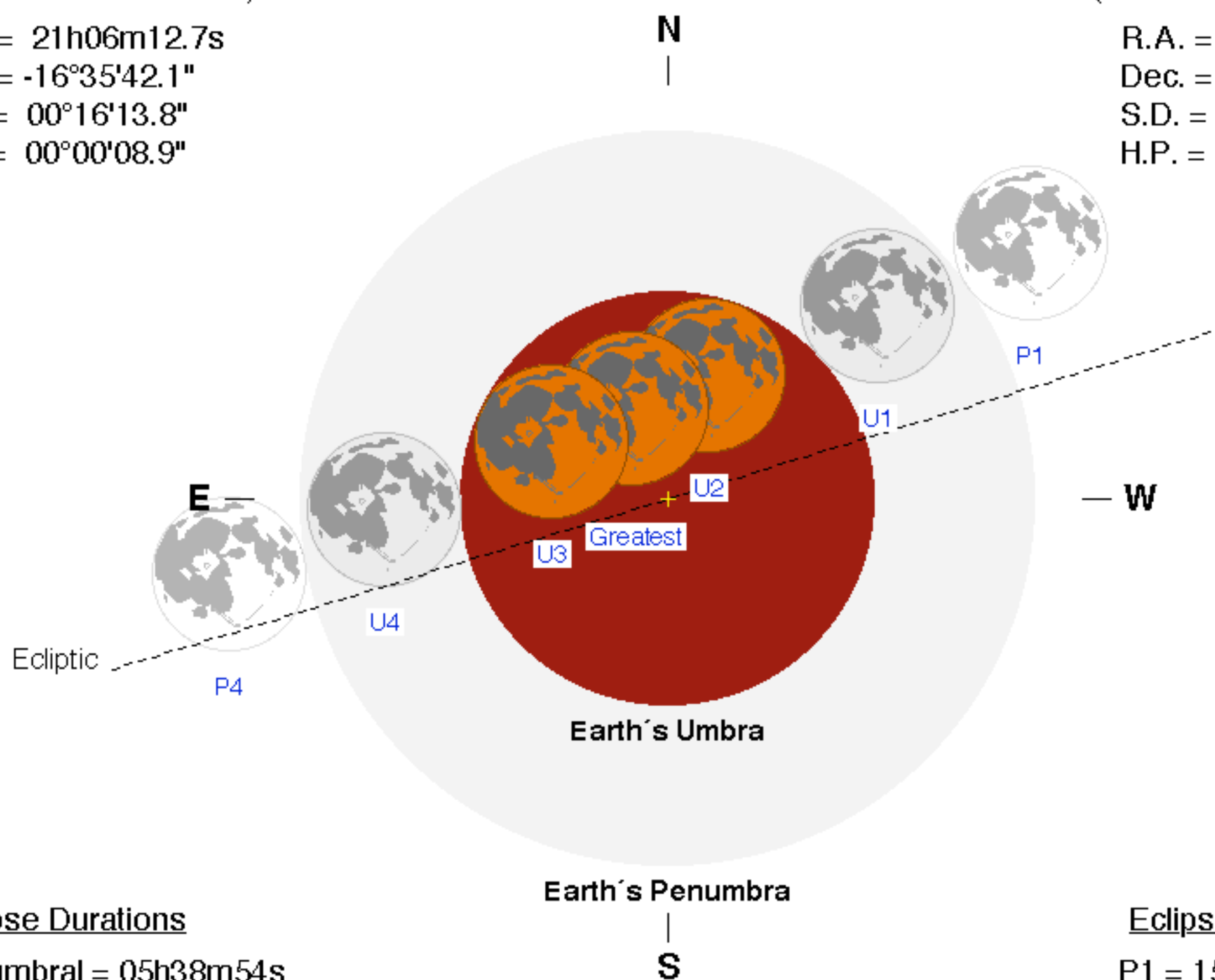
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h06m44.6s

Dec. = +16°54'07.3"

S.D. = 00°15'41.1"

H.P. = 00°57'34.0"



## Eclipse Durations

Penumbral = 05h38m54s

Umbral = 03h28m47s

Total = 01h06m32s

$\Delta T = 164$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

## Eclipse Contacts

P1 = 15:34:32 UT

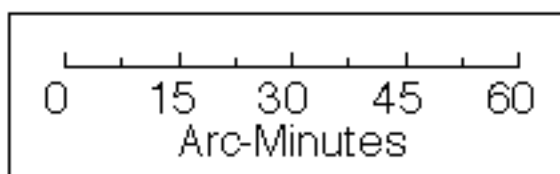
U1 = 16:39:40 UT

U2 = 17:50:48 UT

U3 = 18:57:19 UT

U4 = 20:08:27 UT

P4 = 21:13:26 UT



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

