

Total Lunar Eclipse of 2033 Apr 14

Ecliptic Conjunction = 19:18:33.8 TD (= 19:17:14.1 UT)

Greatest Eclipse = 19:13:51.3 TD (= 19:12:31.6 UT)

Penumbral Magnitude = 2.1711

P. Radius = 1.1831°

Gamma = 0.3954

Umbral Magnitude = 1.0944

U. Radius = 0.6516°

Axis = 0.3581°

Saros Series = 132

Member = 31 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h33m13.7s

Dec. = +09°43'50.3"

S.D. = 00°15'56.7"

H.P. = 00°00'08.8"

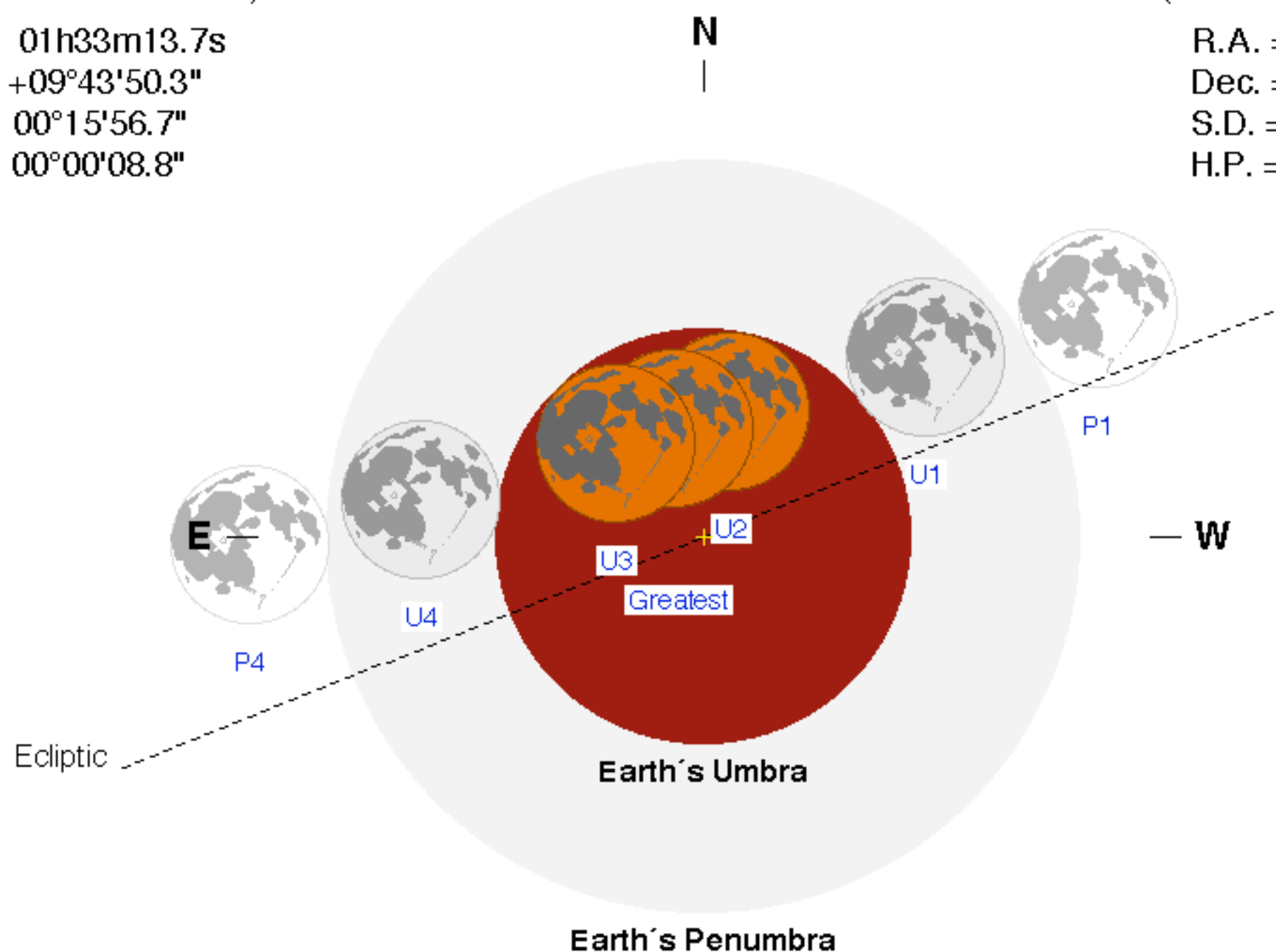
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h33m37.2s

Dec. = -09°23'08.8"

S.D. = 00°14'48.5"

H.P. = 00°54'21.0"



Eclipse Durations

Penumbral = 06h01m11s

Umbral = 03h35m00s

Total = 00h49m12s

$\Delta T = 80$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 16:11:54 UT

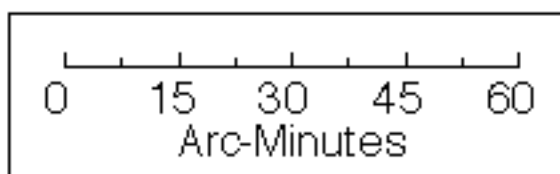
U1 = 17:25:03 UT

U2 = 18:47:56 UT

U3 = 19:37:09 UT

U4 = 21:00:02 UT

P4 = 22:13:05 UT



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eclipse.gsfc.nasa.gov/eclipse.html

