

Total Lunar Eclipse of 1805 Jan 15

Ecliptic Conjunction = 08:40:15.8 TD (= 08:40:03.6 UT)

Greatest Eclipse = 08:40:57.7 TD (= 08:40:45.5 UT)

Penumbral Magnitude = 2.7305

P. Radius = 1.2895°

Gamma = 0.0663

Umbral Magnitude = 1.7420

U. Radius = 0.7476°

Axis = 0.0667°

Saros Series = 121

Member = 44 of 84

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h47m10.8s

Dec. = -21°10'50.9"

S.D. = 00°16'15.5"

H.P. = 00°00'08.9"

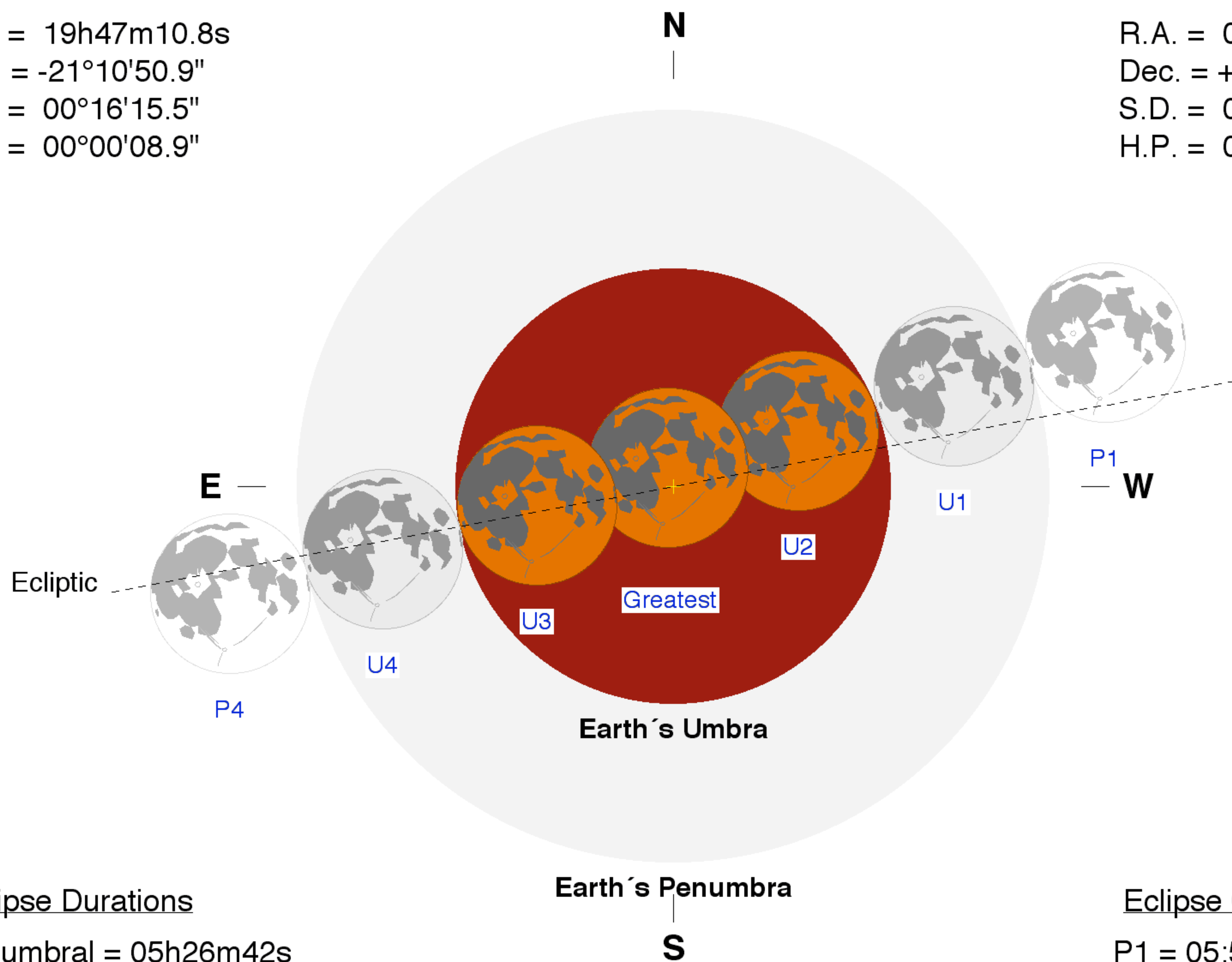
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h47m15.5s

Dec. = +21°14'41.7"

S.D. = 00°16'26.8"

H.P. = 01°00'21.7"



Eclipse Durations

Penumbral = 05h26m42s

Umbral = 03h33m14s

Total = 01h38m03s

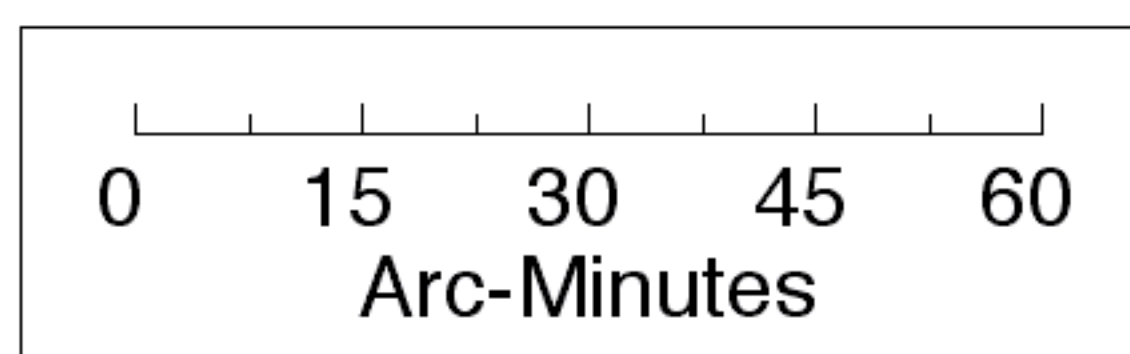
$\Delta T = 12$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Earth's Penumbra

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

Eclipse Contacts

P1 = 05:57:26 UT

U1 = 06:54:08 UT

U2 = 07:51:44 UT

U3 = 09:29:47 UT

U4 = 10:27:22 UT

P4 = 11:24:09 UT

