

Total Lunar Eclipse of 2058 Nov 30

Ecliptic Conjunction = 03:18:48.3 TD (= 03:16:57.1 UT)

Greatest Eclipse = 03:16:17.9 TD (= 03:14:26.6 UT)

Penumbral Magnitude = 2.4802

P. Radius = 1.2229°

Gamma = 0.2208

Umbral Magnitude = 1.4260

U. Radius = 0.6824°

Axis = 0.2077°

Saros Series = 136

Member = 22 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 16h25m34.1s

Dec. = -21°39'35.3"

S.D. = 00°16'12.9"

H.P. = 00°00'08.9"

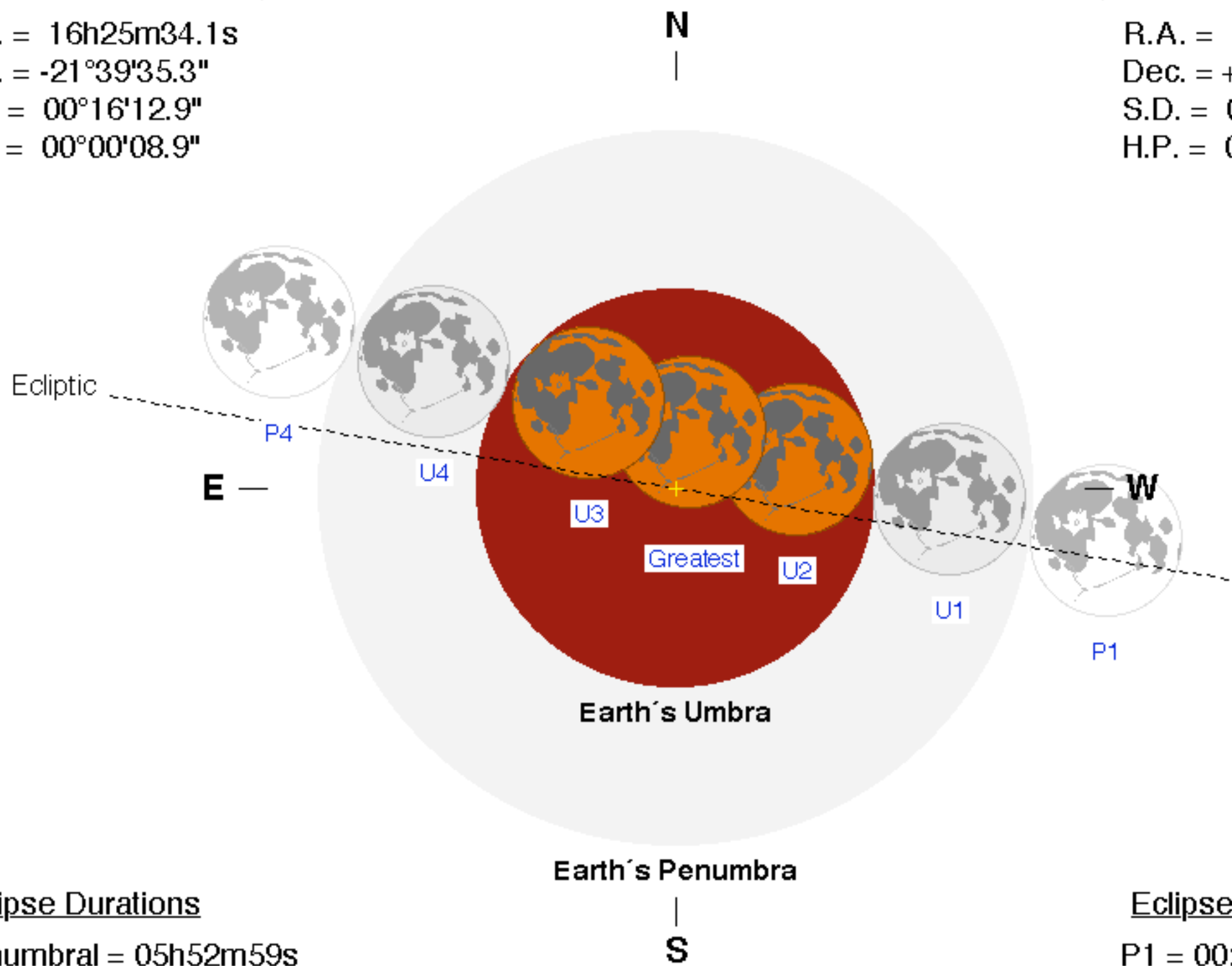
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 04h25m20.3s

Dec. = +21°51'37.8"

S.D. = 00°15'22.8"

H.P. = 00°56'26.8"



Eclipse Durations

Penumbral = 05h52m59s

Umbral = 03h40m40s

Total = 01h29m41s

$\Delta T = 111$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 00:18:01 UT

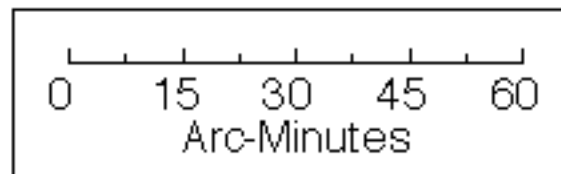
U1 = 01:24:05 UT

U2 = 02:29:35 UT

U3 = 03:59:16 UT

U4 = 05:04:45 UT

P4 = 06:11:00 UT



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

