

Total Lunar Eclipse of 2097 Oct 21

Ecliptic Conjunction = 01:25:57.7 TD (= 01:22:40.4 UT)

Greatest Eclipse = 01:30:55.1 TD (= 01:27:37.8 UT)

Penumbral Magnitude = 2.0152

P. Radius = 1.2571°

Gamma = -0.4608

Umbral Magnitude = 1.0097

U. Radius = 0.7217°

Axis = 0.4502°

Saros Series = 128 Member = 45 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h45m46.5s

Dec. = -10°55'19.9"

S.D. = 00°16'03.7"

H.P. = 00°00'08.8"

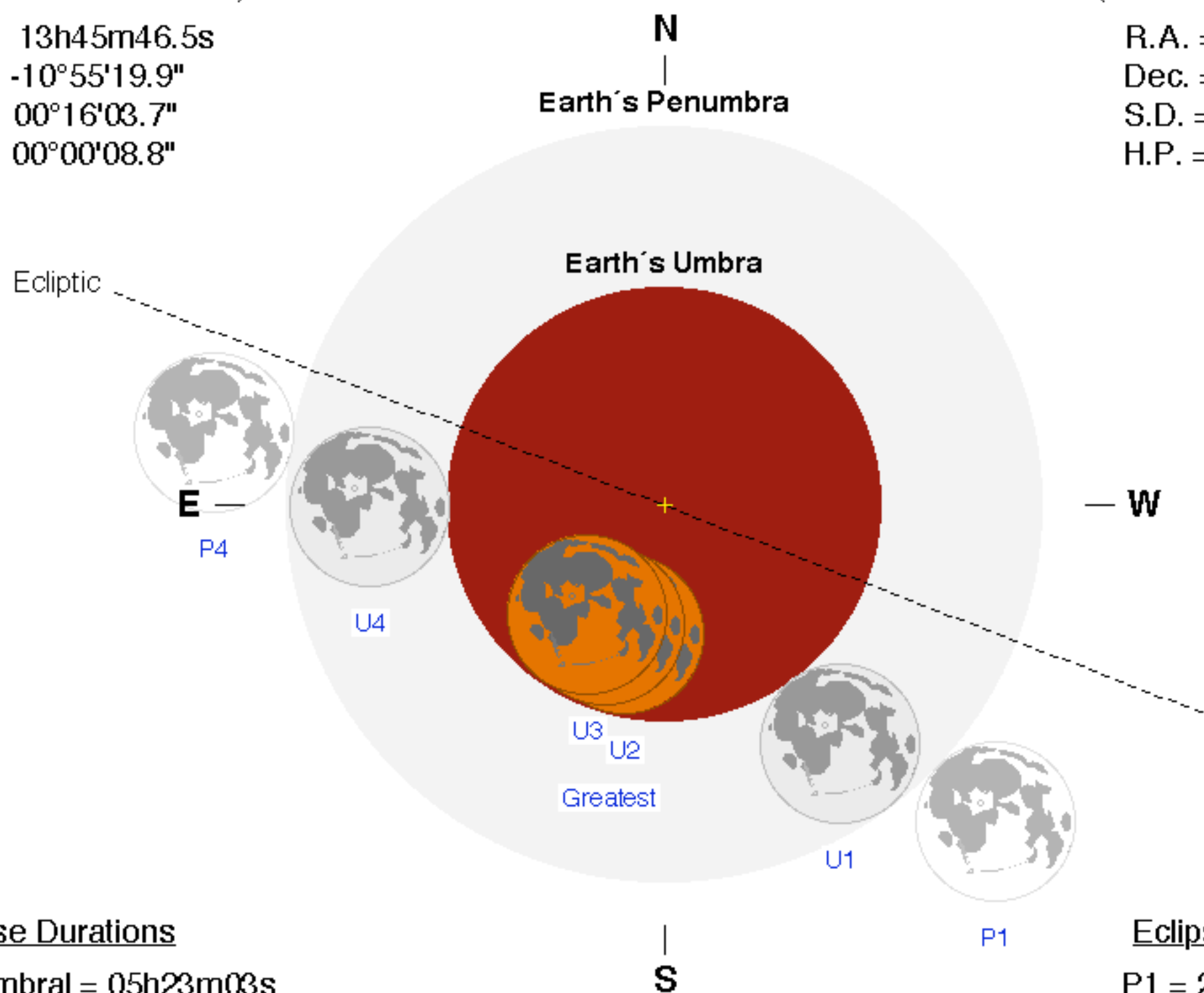
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h46m35.5s

Dec. = +10°31'09.3"

S.D. = 00°15'58.5"

H.P. = 00°58'37.8"



Eclipse Durations

Penumbral = 05h23m03s

Umbral = 03h15m14s

Total = 00h15m13s

$\Delta T = 197$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 22:46:04 UT

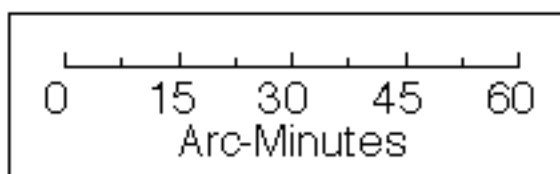
U1 = 23:50:03 UT

U2 = 01:20:03 UT

U3 = 01:35:16 UT

U4 = 03:05:16 UT

P4 = 04:09:07 UT



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eclipse.gsfc.nasa.gov/eclipse.html

