

Total Lunar Eclipse of 2080 Apr 04

Ecliptic Conjunction = 11:26:39.3 TD (= 11:24:02.0 UT)

Greatest Eclipse = 11:23:38.4 TD (= 11:21:01.1 UT)

Penumbral Magnitude = 2.3607

P. Radius = 1.2427°

Gamma = -0.2751

Umbral Magnitude = 1.3460

U. Radius = 0.7096°

Axis = 0.2651°

Saros Series = 133 Member = 30 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h57m31.9s

Dec. = +06°08'40.1"

S.D. = 00°15'59.6"

H.P. = 00°00'08.8"

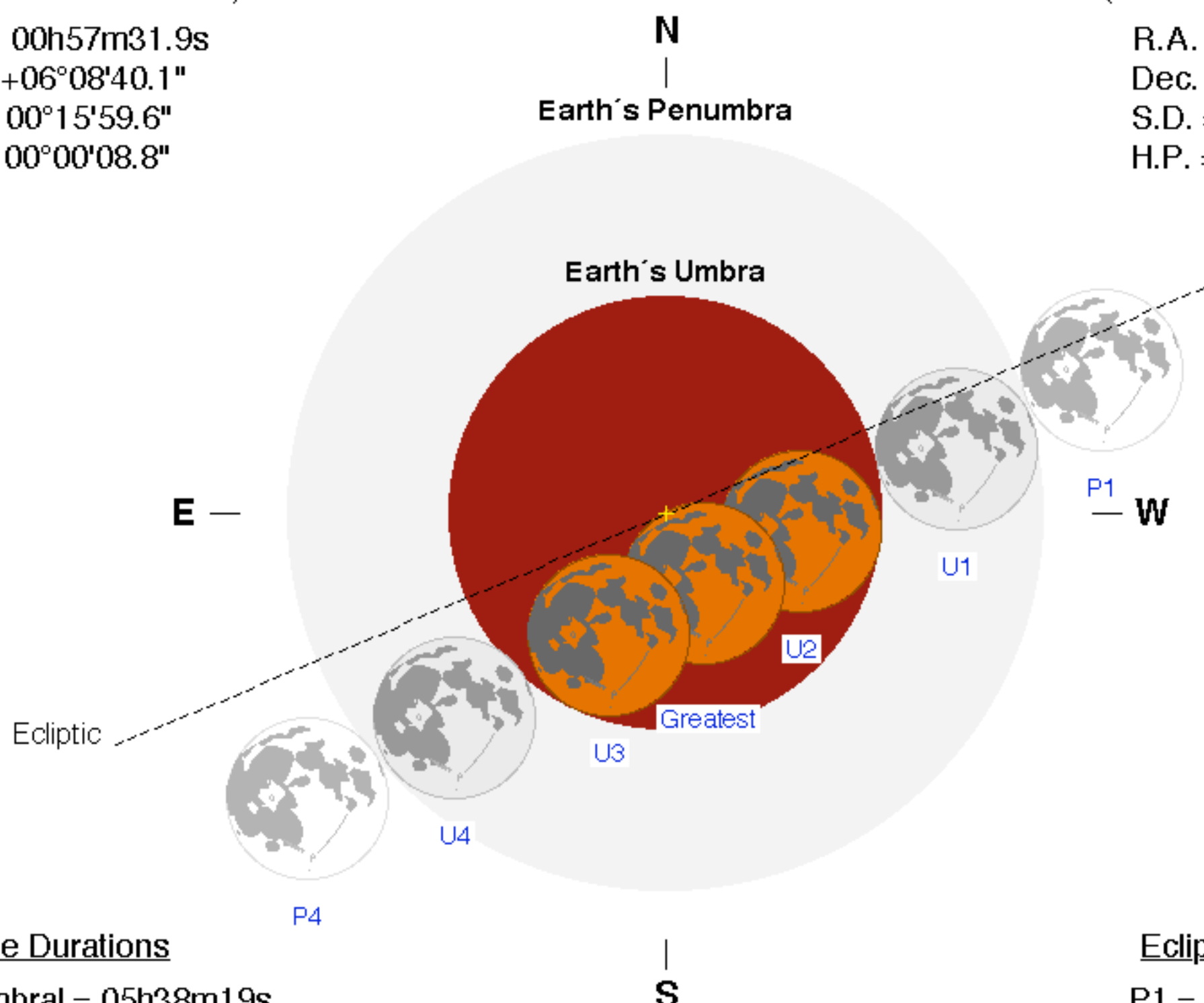
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h57m01.5s

Dec. = -06°22'40.1"

S.D. = 00°15'45.6"

H.P. = 00°57'50.5"



Eclipse Durations

Penumbral = 05h38m19s

Umbral = 03h33m35s

Total = 01h22m09s

$\Delta T = 157$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 08:31:55 UT

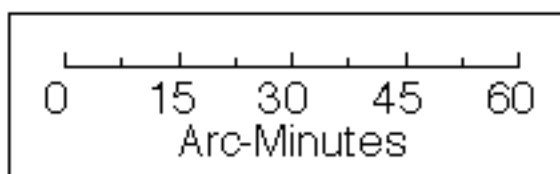
U1 = 09:34:13 UT

U2 = 10:39:56 UT

U3 = 12:02:04 UT

U4 = 13:07:47 UT

P4 = 14:10:14 UT



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

