

Total Lunar Eclipse of 2044 Mar 13

Ecliptic Conjunction = 19:42:24.5 TD (= 19:40:56.5 UT)

Greatest Eclipse = 19:38:32.5 TD (= 19:37:04.6 UT)

Penumbral Magnitude = 2.2303

P. Radius = 1.2383°

Gamma = -0.3496

Umbral Magnitude = 1.2031

U. Radius = 0.7020°

Axis = 0.3349°

Saros Series = 133 Member = 28 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h37m30.3s

Dec. = -02°25'56.8"

S.D. = 00°16'05.4"

H.P. = 00°00'08.8"

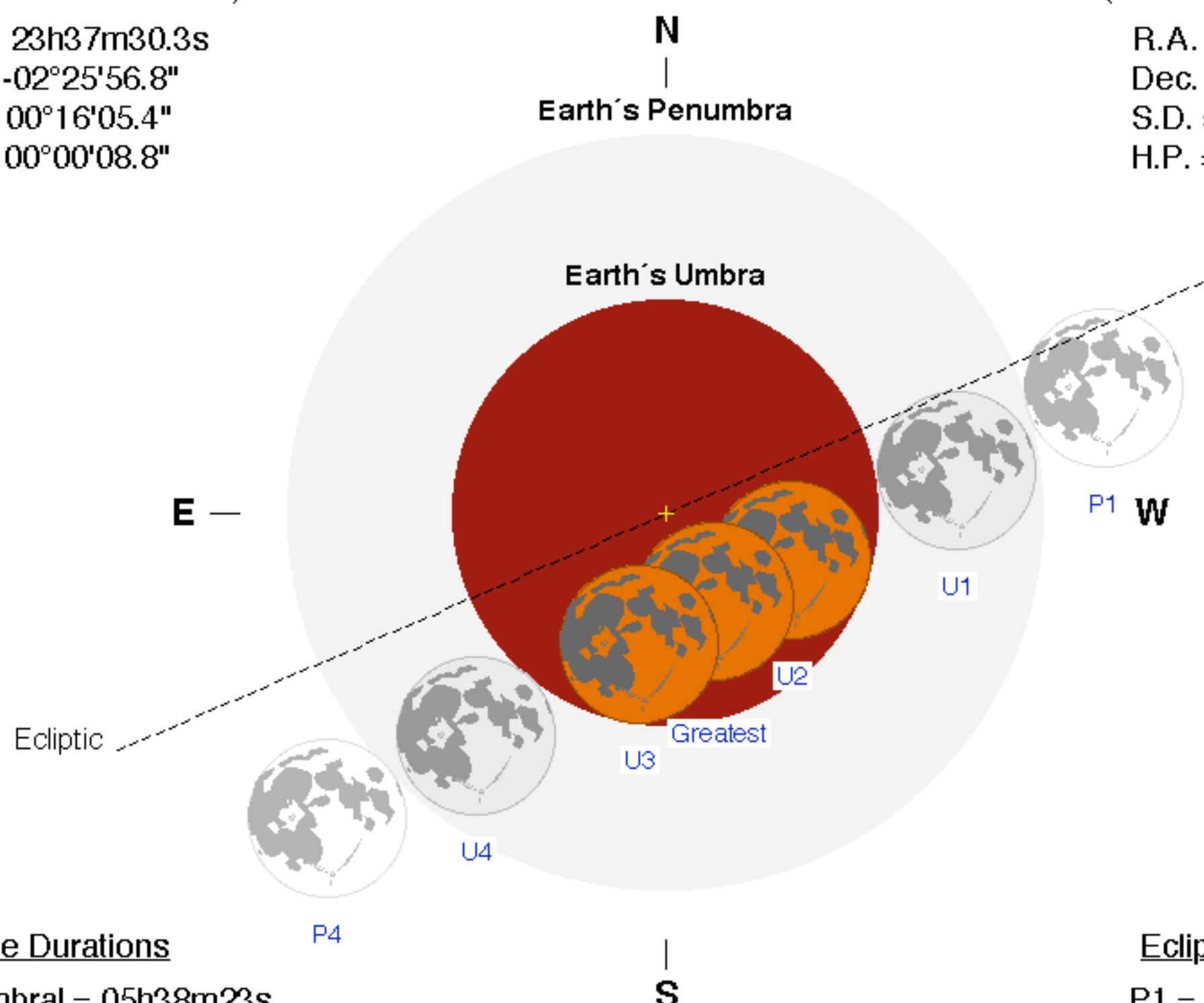
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h36m51.3s

Dec. = +02°08'22.4"

S.D. = 00°15'39.8"

H.P. = 00°57'29.1"



Eclipse Durations

Penumbral = 05h38m23s

Umbral = 03h29m05s

Total = 01h06m25s

$\Delta T = 88$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 16:47:56 UT

U1 = 17:52:31 UT

U2 = 19:03:51 UT

U3 = 20:10:16 UT

U4 = 21:21:35 UT

P4 = 22:26:19 UT

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

