

Total Lunar Eclipse of 2015 Sep 28

Ecliptic Conjunction = 02:51:38.3 TD (= 02:50:29.0 UT)

Greatest Eclipse = 02:48:16.8 TD (= 02:47:07.5 UT)

Penumbral Magnitude = 2.2296

P. Radius = 1.3027°

Gamma = -0.3296

Umbral Magnitude = 1.2764

U. Radius = 0.7707°

Axis = 0.3375°

Saros Series = 137 Member = 28 of 81

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h17m08.9s

Dec. = -01°51'21.0"

S.D. = 00°15'57.6"

H.P. = 00°00'08.8"

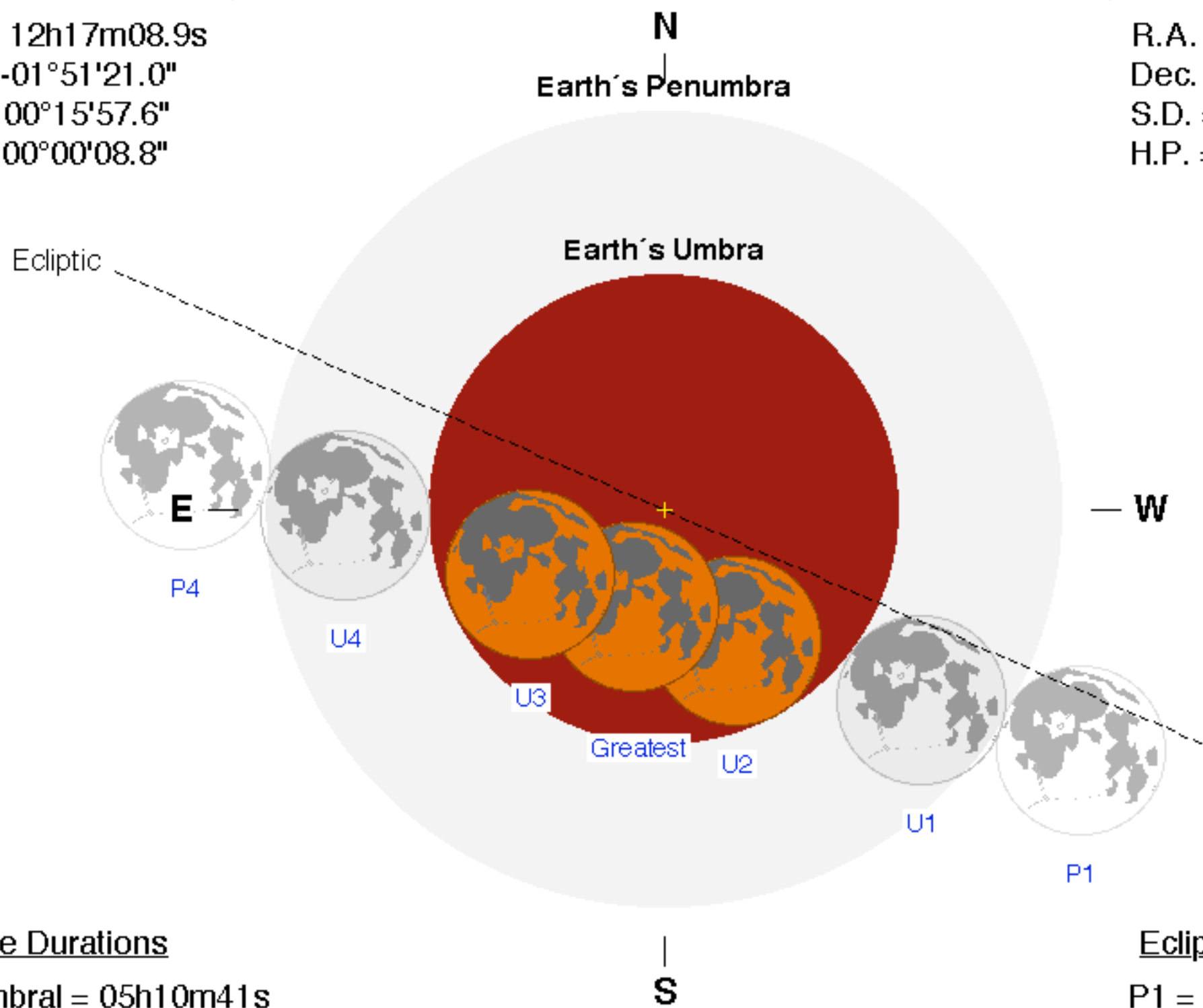
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h17m33.6s

Dec. = +01°32'03.7"

S.D. = 00°16'44.5"

H.P. = 01°01'26.6"



Eclipse Durations

Penumbral = 05h10m41s

Umbral = 03h19m52s

Total = 01h11m55s

$\Delta T = 69$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 00:11:47 UT

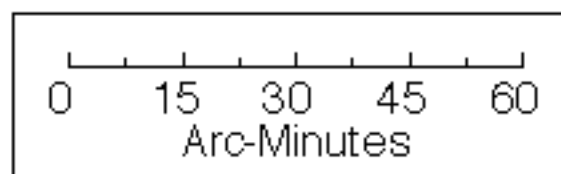
U1 = 01:07:11 UT

U2 = 02:11:10 UT

U3 = 03:23:05 UT

U4 = 04:27:03 UT

P4 = 05:22:27 UT



F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

