

Total Lunar Eclipse of -0330 Sep 20

Ecliptic Conjunction = 22:20:48.6 TD (= 18:20:31.6 UT)

Greatest Eclipse = 22:24:31.5 TD (= 18:24:14.6 UT)

Penumbral Magnitude = 2.1730

P. Radius = 1.3038°

Gamma = 0.3630

Umbral Magnitude = 1.2105

U. Radius = 0.7673°

Axis = 0.3713°

Saros Series = 51

Member = 44 of 74

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 11h33m29.3s

Dec. = +02°54'18.0"

S.D. = 00°16'05.7"

H.P. = 00°00'08.8"

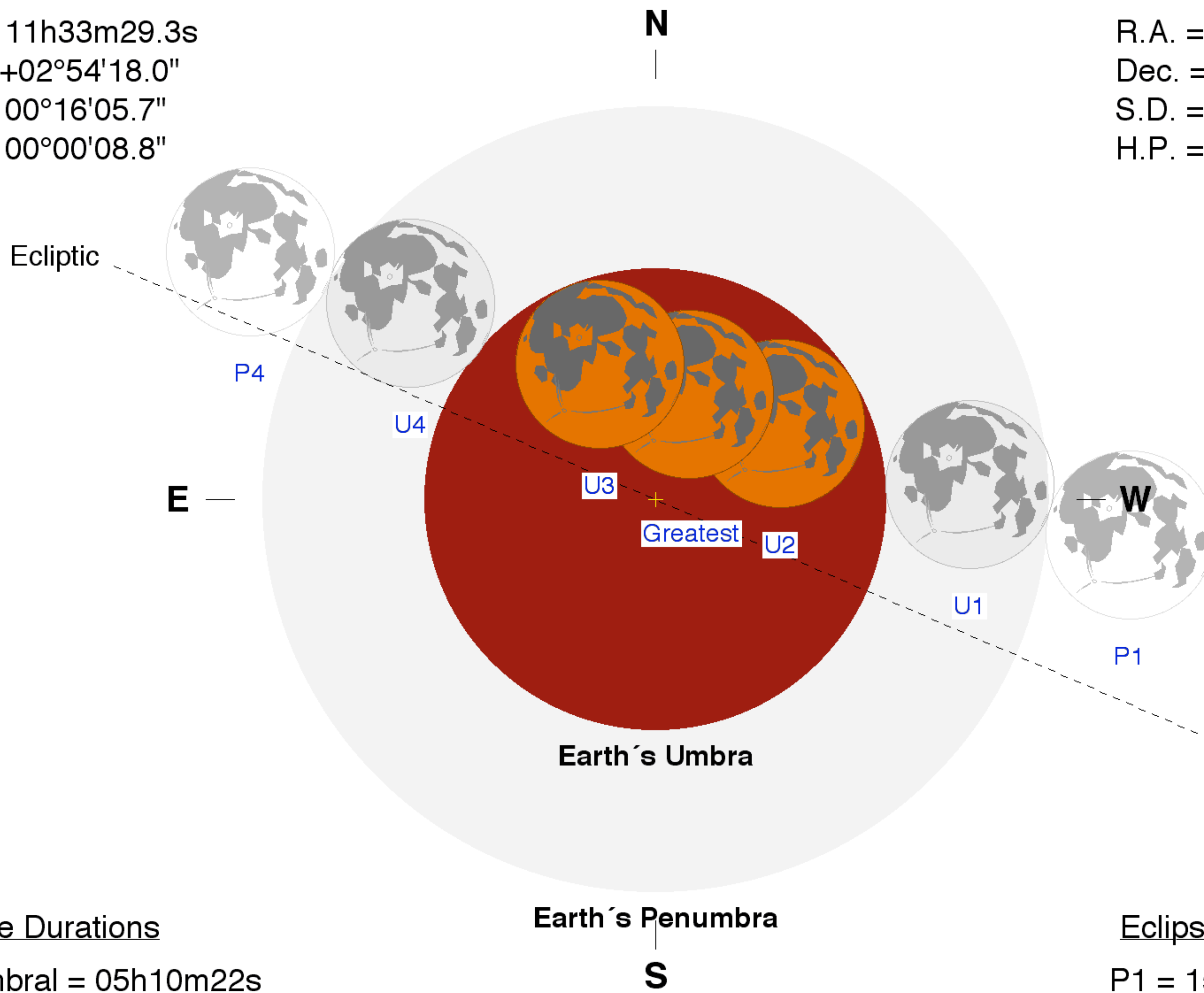
Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 23h33m01.9s

Dec. = -02°33'06.2"

S.D. = 00°16'43.3"

H.P. = 01°01'22.2"



Eclipse Durations

Penumbral = 05h10m22s

Umbral = 03h17m19s

Total = 01h04m06s

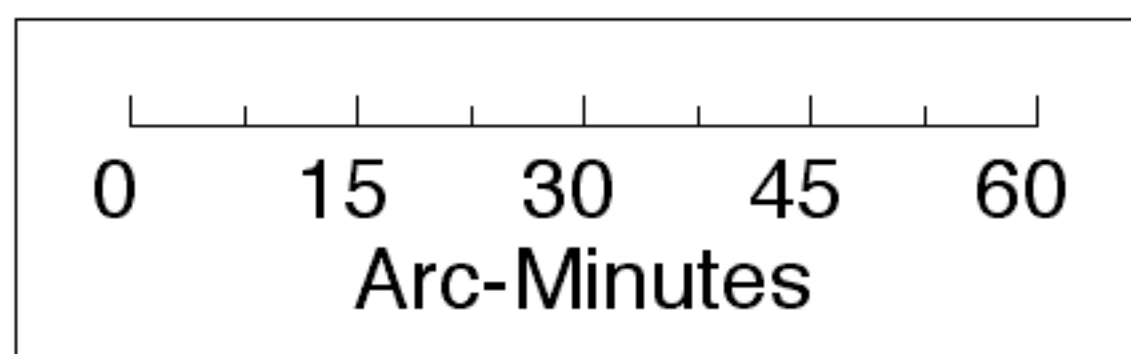
$\Delta T = 14417$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Earth's Penumbra

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F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

Eclipse Contacts

P1 = 15:49:05 UT

U1 = 16:45:35 UT

U2 = 17:52:11 UT

U3 = 18:56:17 UT

U4 = 20:02:54 UT

P4 = 20:59:26 UT

