

Partial Lunar Eclipse of 2086 Nov 20

Ecliptic Conjunction = 20:14:43.4 TD (= 20:11:51.2 UT)

Greatest Eclipse = 20:19:42.3 TD (= 20:16:50.1 UT)

Penumbral Magnitude = 1.9679

P. Radius = 1.2910°

Gamma = 0.4799

Umbral Magnitude = 0.9865

U. Radius = 0.7515°

Axis = 0.4841°

Saros Series = 127 Member = 46 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 15h47m01.2s

Dec. = -19°55'10.2"

S.D. = 00°16'11.1"

H.P. = 00°00'08.9"

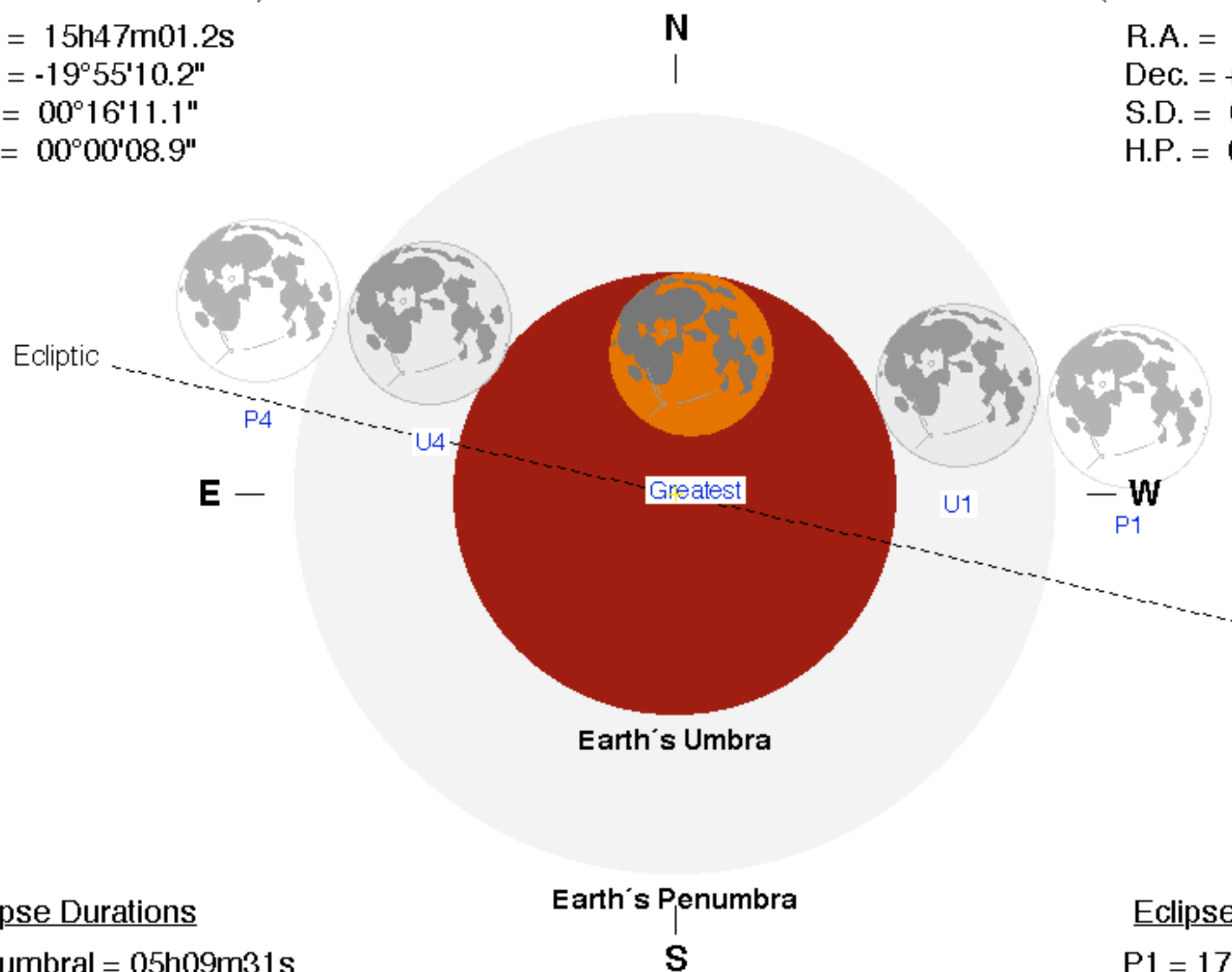
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h46m46.2s

Dec. = +20°24'00.1"

S.D. = 00°16'29.4"

H.P. = 01°00'31.3"



Eclipse Durations

Penumbral = 05h09m31s

Umbral = 03h08m08s

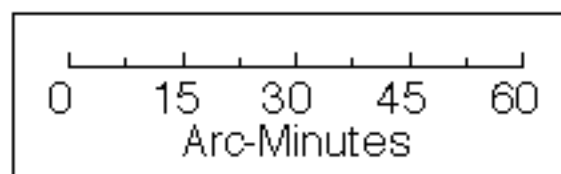
$\Delta T = 172$ s

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 = 17:42:06 UT

U1 = 18:42:45 UT

U4 = 21:50:53 UT

P4 = 22:51:37 UT

