

Total Lunar Eclipse of 0828 Jul 01

Ecliptic Conjunction = 04:05:31.2 TD (= 03:20:19.0 UT)

Greatest Eclipse = 04:05:59.3 TD (= 03:20:47.1 UT)

Penumbral Magnitude = 2.7441

P. Radius = 1.2970°

Gamma = 0.0461

Umbral Magnitude = 1.8020

U. Radius = 0.7723°

Axis = 0.0471°

Saros Series = 91

Member = 38 of 73

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 06h55m09.5s

Dec. = +22°58'53.6"

S.D. = 00°15'44.4"

H.P. = 00°00'08.7"

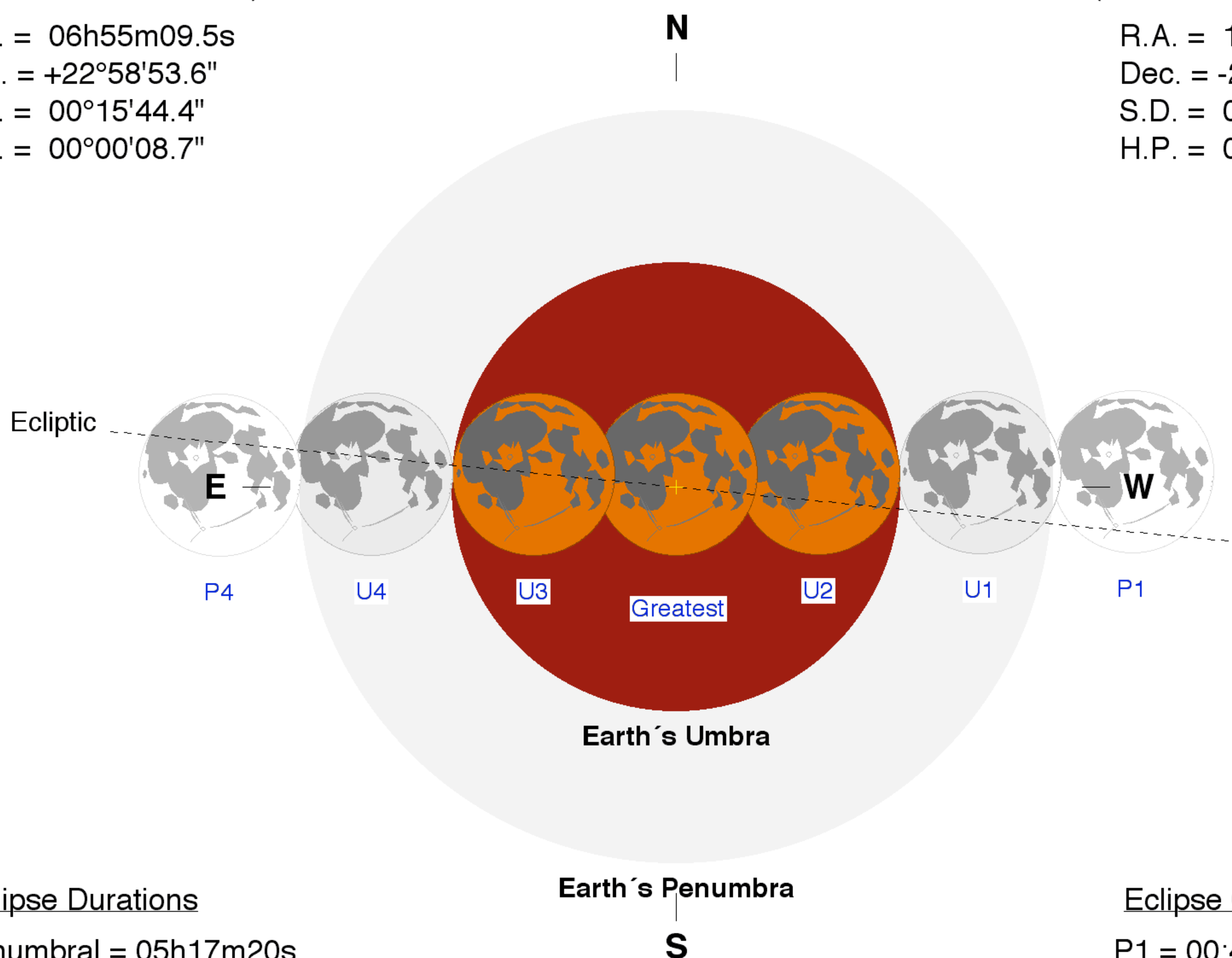
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 18h55m09.6s

Dec. = -22°56'03.9"

S.D. = 00°16'42.5"

H.P. = 01°01'19.2"



Eclipse Durations

Penumbral = 05h17m20s

Umbral = 03h31m34s

Total = 01h39m05s

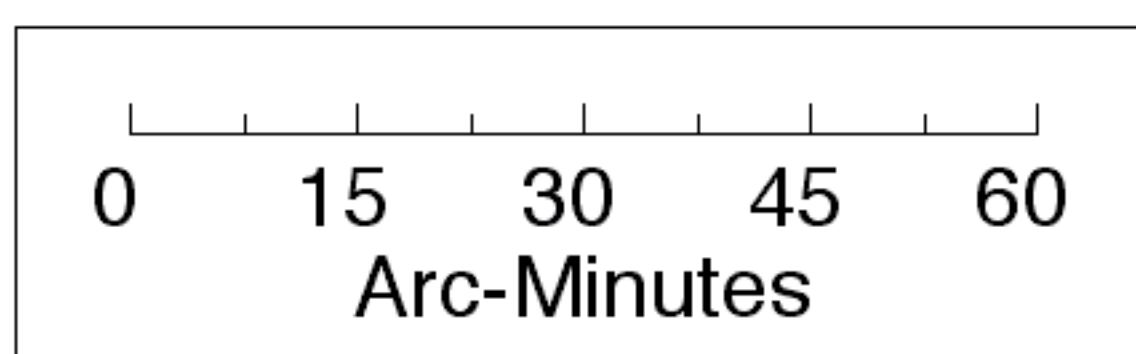
$\Delta T = 2712$ s

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 = 00:42:06 UT

U1 = 01:35:00 UT

U2 = 02:31:15 UT

U3 = 04:10:20 UT

U4 = 05:06:34 UT

P4 = 05:59:27 UT

