

Total Lunar Eclipse of 2084 Jan 22

Ecliptic Conjunction = 23:17:17.0 TD (= 23:14:31.2 UT)

Greatest Eclipse = 23:13:00.0 TD (= 23:10:14.2 UT)

Penumbral Magnitude = 2.2407

P. Radius = 1.1950°

Gamma = -0.3610

Umbral Magnitude = 1.1513

U. Radius = 0.6533°

Axis = 0.3294°

Saros Series = 135 Member = 27 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h20m36.4s

Dec. = -19°30'36.9"

S.D. = 00°16'15.1"

H.P. = 00°00'08.9"

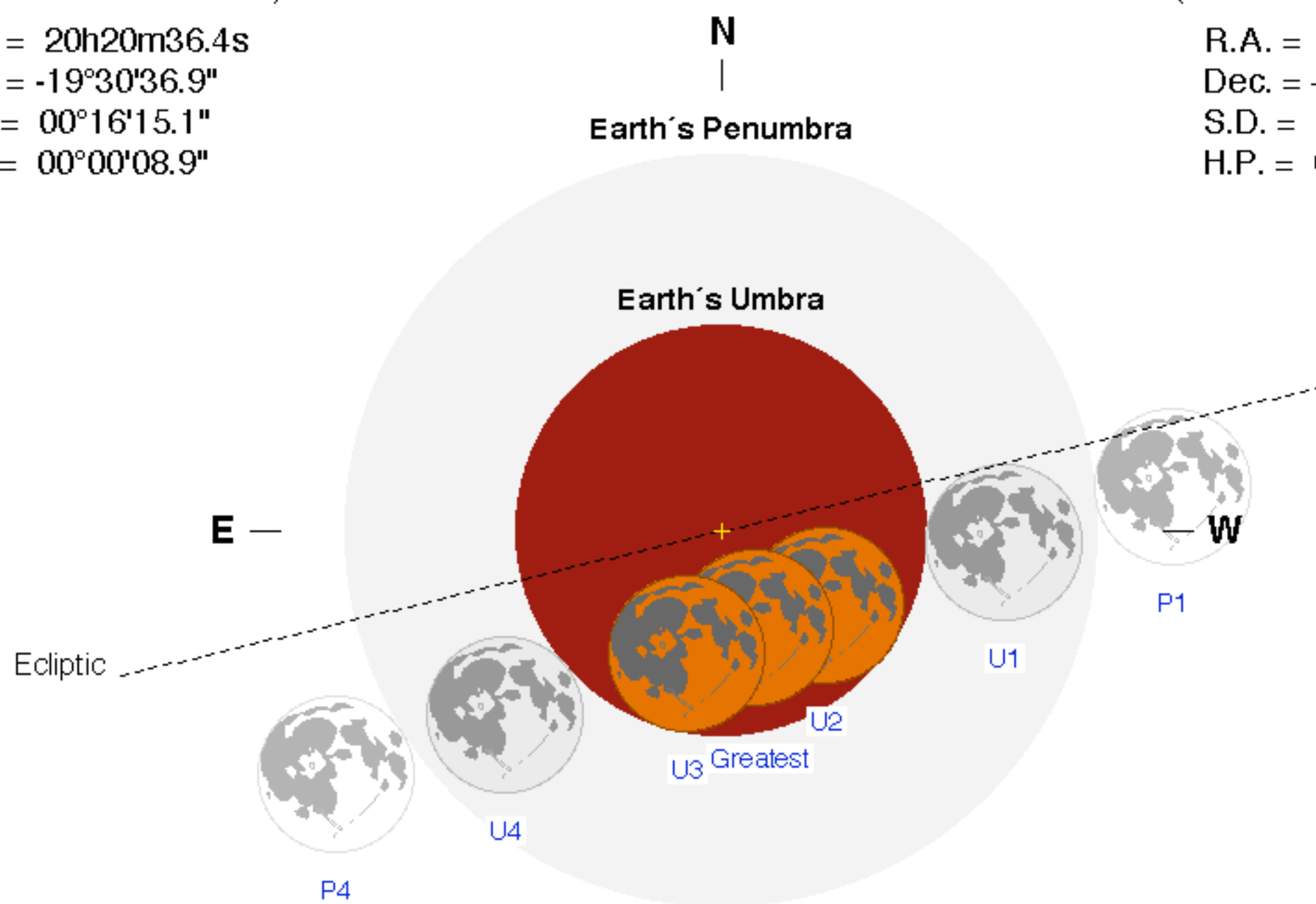
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 08h20m09.1s

Dec. = +19°11'55.7"

S.D. = 00°14'55.1"

H.P. = 00°54'45.0"



Eclipse Durations

Penumbral = 06h02m00s

Umbral = 03h36m16s

Total = 01h00m32s

$\Delta T = 166$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 20:09:13 UT

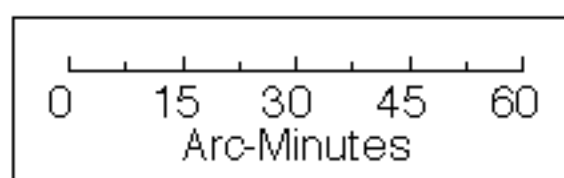
U1 = 21:22:08 UT

U2 = 22:39:59 UT

U3 = 23:40:31 UT

U4 = 00:58:23 UT

P4 = 02:11:13 UT



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

