

Partial Lunar Eclipse of 2088 Oct 30

Ecliptic Conjunction = 03:12:53.5 TD (= 03:09:56.9 UT)

Greatest Eclipse = 03:03:20.0 TD (= 03:00:23.4 UT)

Penumbral Magnitude = 1.1761

P. Radius = 1.2728°

Gamma = -0.9147

Umbral Magnitude = 0.1831

U. Radius = 0.7360°

Axis = 0.9073°

Saros Series = 147 Member = 13 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 14h21m16.6s

Dec. = -14°03'44.4"

S.D. = 00°16'06.3"

H.P. = 00°00'08.9"

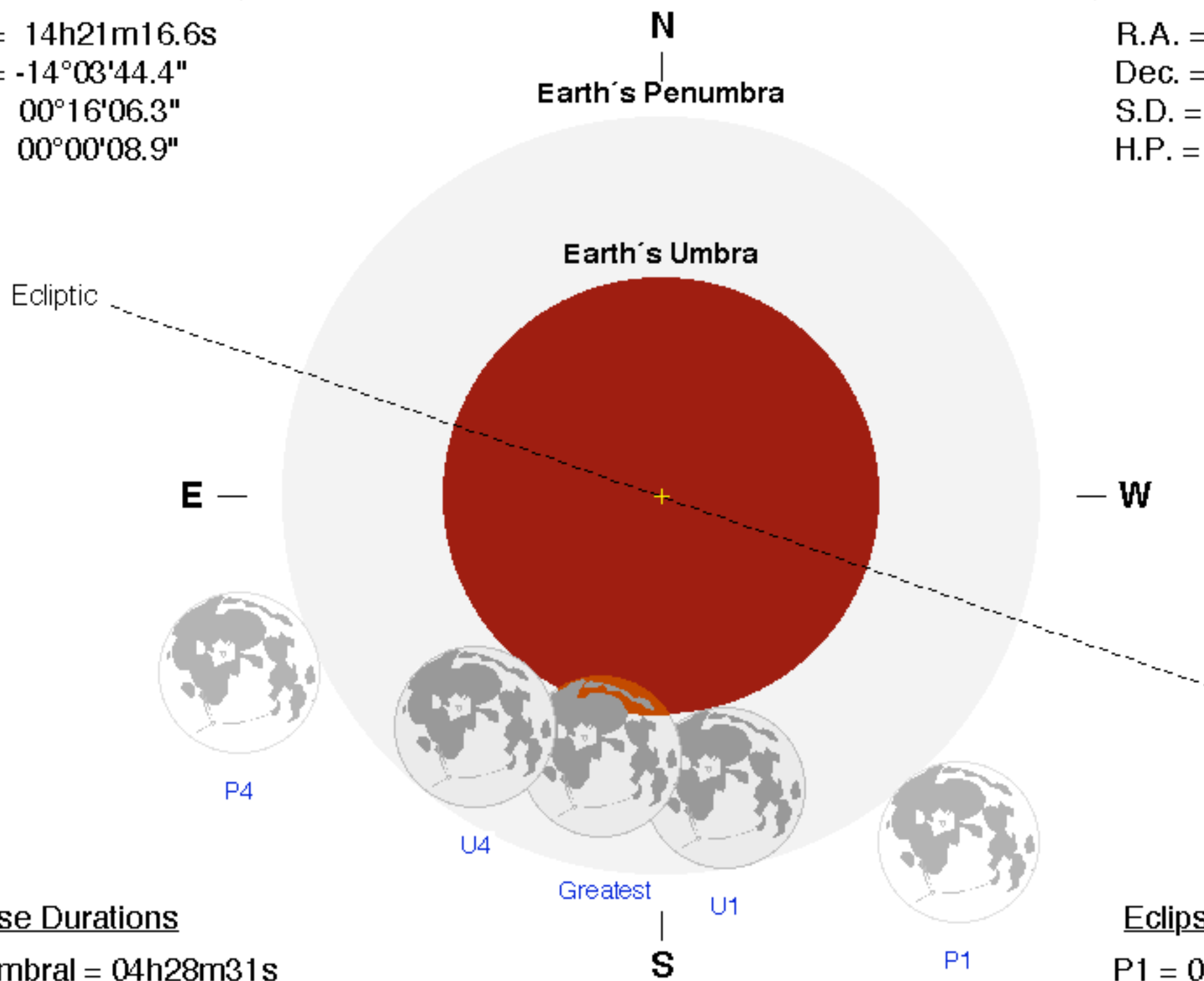
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 02h22m08.1s

Dec. = +13°10'45.7"

S.D. = 00°16'13.1"

H.P. = 00°59'31.3"



Eclipse Durations

Penumbral = 04h28m31s

Umbral = 01h33m38s

Eclipse Contacts

P1 = 00:46:09 UT

U1 = 02:13:39 UT

U4 = 03:47:17 UT

P4 = 05:14:39 UT

$\Delta T = 177$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

