

Total Lunar Eclipse of 2018 Jul 27

Ecliptic Conjunction = 20:21:30.3 TD (= 20:20:19.6 UT)

Greatest Eclipse = 20:22:54.3 TD (= 20:21:43.5 UT)

Penumbral Magnitude = 2.6792

P. Radius = 1.1738°

Gamma = 0.1168

Umbral Magnitude = 1.6087

U. Radius = 0.6488°

Axis = 0.1051°

Saros Series = 129

Member = 38 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 08h28m22.0s

Dec. = +19°04'25.2"

S.D. = 00°15'45.0"

H.P. = 00°00'08.7"

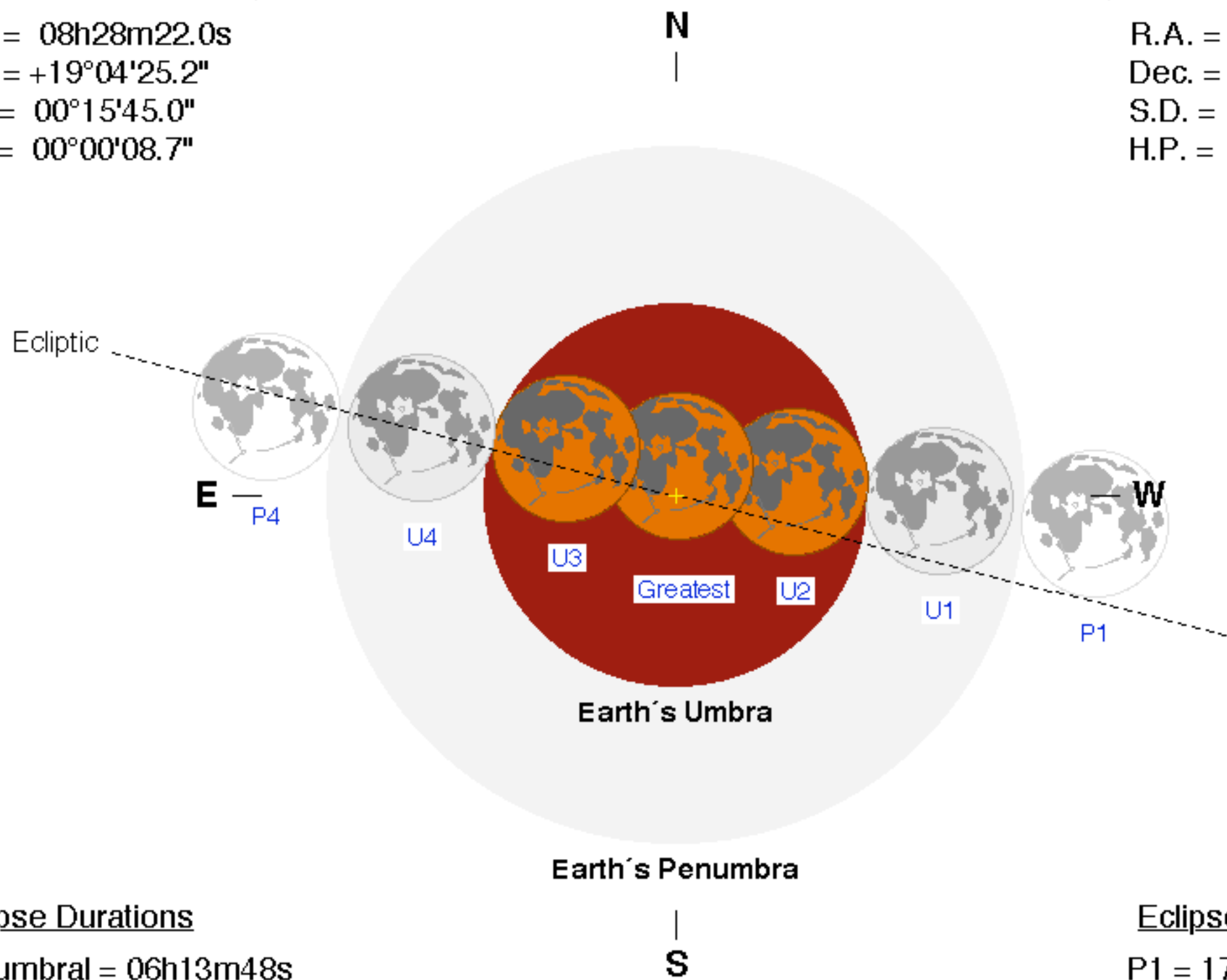
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h28m18.2s

Dec. = -18°58'10.6"

S.D. = 00°14'42.7"

H.P. = 00°53'59.7"



Eclipse Durations

Penumbral = 06h13m48s

Umbral = 03h54m32s

Total = 01h42m57s

$\Delta T = 71$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 17:14:49 UT

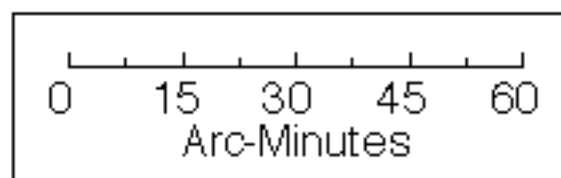
U1 = 18:24:27 UT

U2 = 19:30:15 UT

U3 = 21:13:12 UT

U4 = 22:19:00 UT

P4 = 23:28:37 UT



F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

