

Total Lunar Eclipse of 2047 Jul 07

Ecliptic Conjunction = 10:35:04.6 TD (= 10:33:33.9 UT)

Greatest Eclipse = 10:35:45.4 TD (= 10:34:14.7 UT)

Penumbral Magnitude = 2.7310

P. Radius = 1.2567°

Gamma = -0.0636

Umbral Magnitude = 1.7513

U. Radius = 0.7323°

Axis = 0.0625°

Saros Series = 130

Member = 36 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h06m19.6s

Dec. = +22°33'30.9"

S.D. = 00°15'43.9"

H.P. = 00°00'08.6"

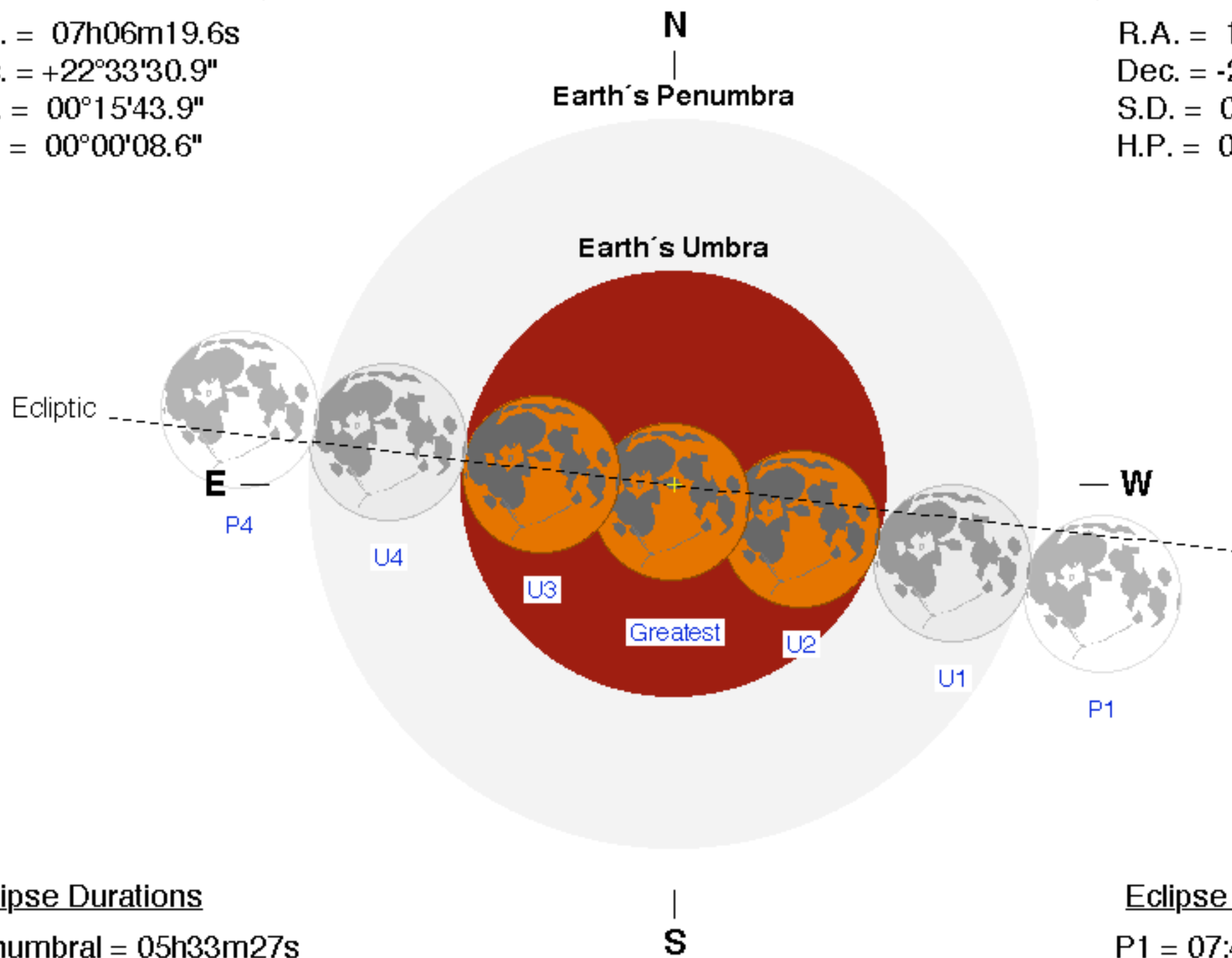
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h06m23.0s

Dec. = -22°37'10.8"

S.D. = 00°16'03.5"

H.P. = 00°58'56.1"



Eclipse Durations

Penumbral = 05h33m27s

Umbral = 03h38m31s

Total = 01h40m49s

$\Delta T = 91$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 07:47:34 UT

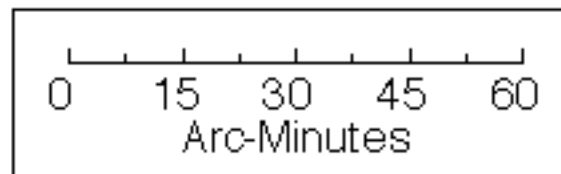
U1 = 08:44:58 UT

U2 = 09:43:49 UT

U3 = 11:24:39 UT

U4 = 12:23:29 UT

P4 = 13:21:01 UT



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

