

Total Lunar Eclipse of 2091 Aug 29

Ecliptic Conjunction = 00:42:10.7 TD (= 00:39:07.6 UT)

Greatest Eclipse = 00:38:24.8 TD (= 00:35:21.7 UT)

Penumbral Magnitude = 2.2810

P. Radius = 1.2015°

Gamma = -0.3270

Umbral Magnitude = 1.2351

U. Radius = 0.6737°

Axis = 0.3028°

Saros Series = 139

Member = 26 of 81

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 10h31m03.4s

Dec. = +09°18'39.6"

S.D. = 00°15'49.9"

H.P. = 00°00'08.7"

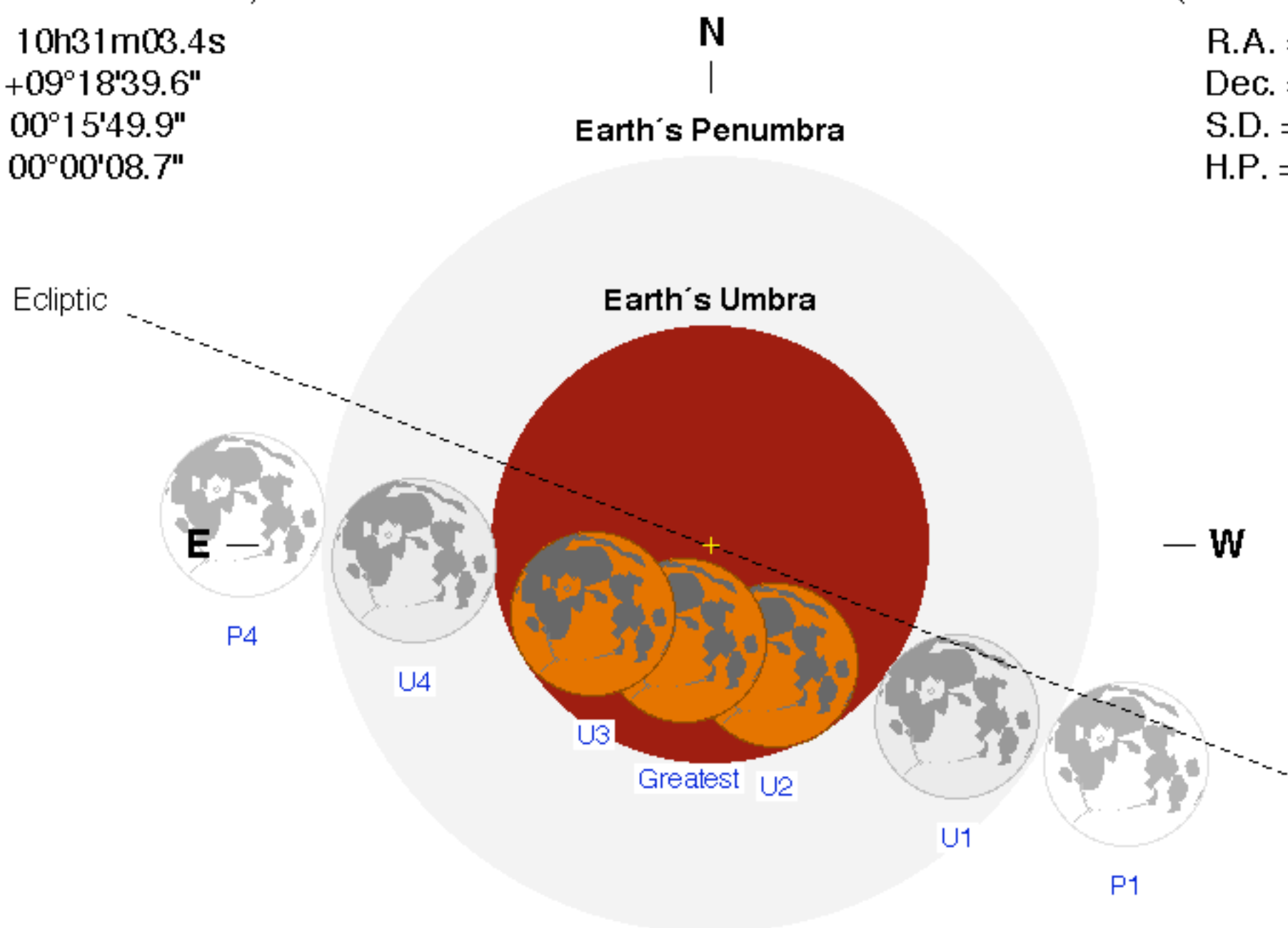
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 22h31m23.6s

Dec. = -09°36'08.0"

S.D. = 00°15'08.2"

H.P. = 00°55'33.3"



Eclipse Durations

Penumbral = 05h53m23s

Umbral = 03h37m31s

Total = 01h12m52s

$\Delta T = 183$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 21:38:42 UT

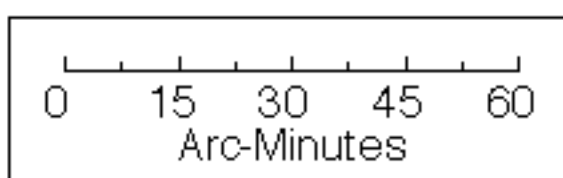
U1 = 22:46:35 UT

U2 = 23:58:55 UT

U3 = 01:11:47 UT

U4 = 02:24:06 UT

P4 = 03:32:05 UT



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

