

Total Lunar Eclipse of 2094 Dec 21

Ecliptic Conjunction = 19:58:48.8 TD (= 19:55:38.0 UT)

Greatest Eclipse = 19:56:32.1 TD (= 19:53:21.4 UT)

Penumbral Magnitude = 2.5138

P. Radius = 1.2290°

Gamma = 0.2016

Umbral Magnitude = 1.4627

U. Radius = 0.6871°

Axis = 0.1907°

Saros Series = 136

Member = 24 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 18h01m58.4s

Dec. = -23°25'33.8"

S.D. = 00°16'15.4"

H.P. = 00°00'08.9"

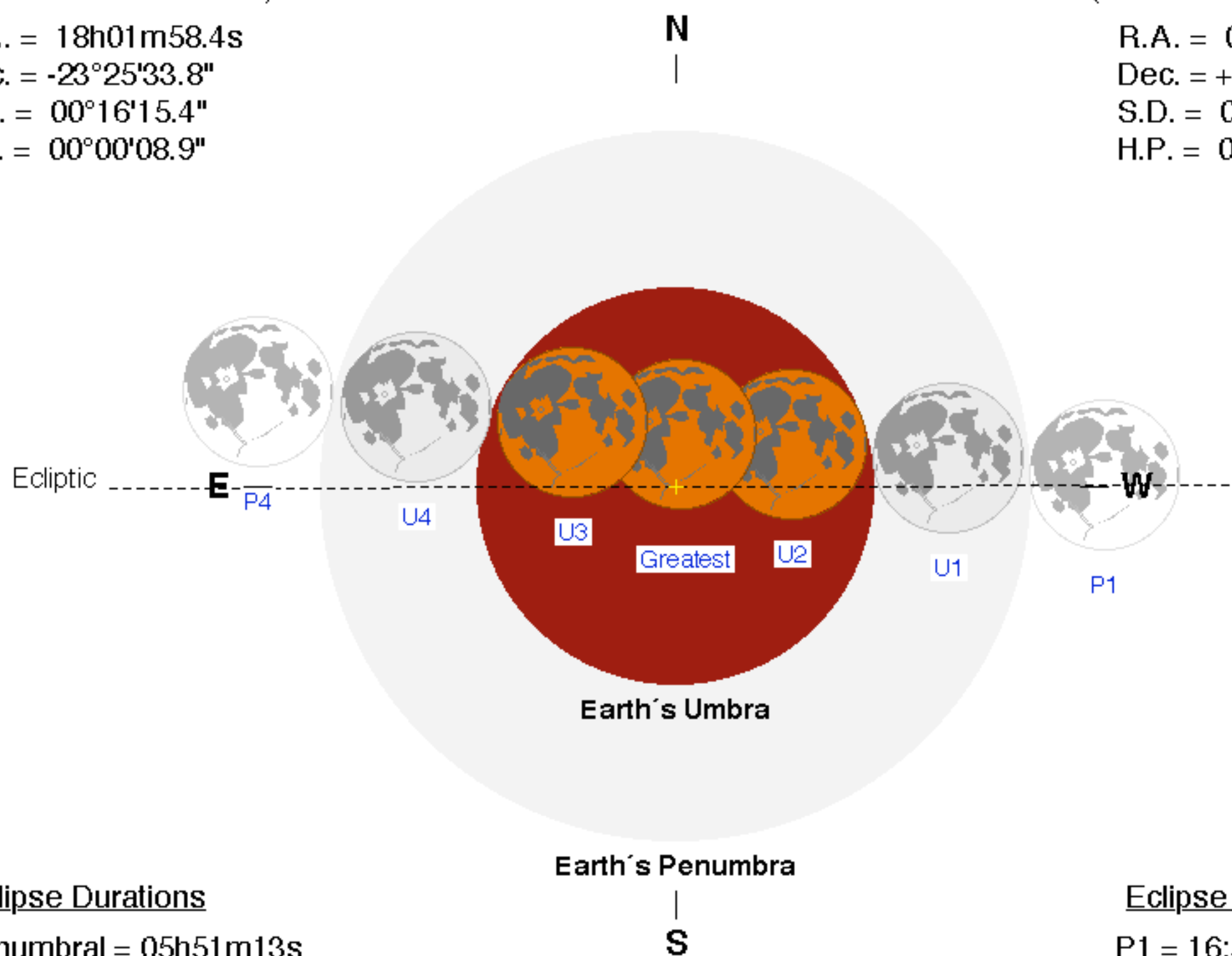
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 06h01m53.6s

Dec. = +23°36'57.3"

S.D. = 00°15'28.1"

H.P. = 00°56'46.0"



Eclipse Durations

Penumbral = 05h51m13s

Umbral = 03h40m27s

Total = 01h31m38s

$\Delta T = 191$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 16:57:48 UT

U1 = 18:03:06 UT

U2 = 19:07:32 UT

U3 = 20:39:09 UT

U4 = 21:43:34 UT

P4 = 22:49:01 UT

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

