

Total Lunar Eclipse of 2098 Apr 15

Ecliptic Conjunction = 19:07:16.6 TD (= 19:03:58.2 UT)

Greatest Eclipse = 19:04:47.9 TD (= 19:01:29.5 UT)

Penumbral Magnitude = 2.4454

P. Radius = 1.2449°

Gamma = -0.2272

Umbral Magnitude = 1.4369

U. Radius = 0.7134°

Axis = 0.2197°

Saros Series = 133

Member = 31 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 01h37m51.1s

Dec. = +10°10'23.6"

S.D. = 00°15'56.7"

H.P. = 00°00'08.8"

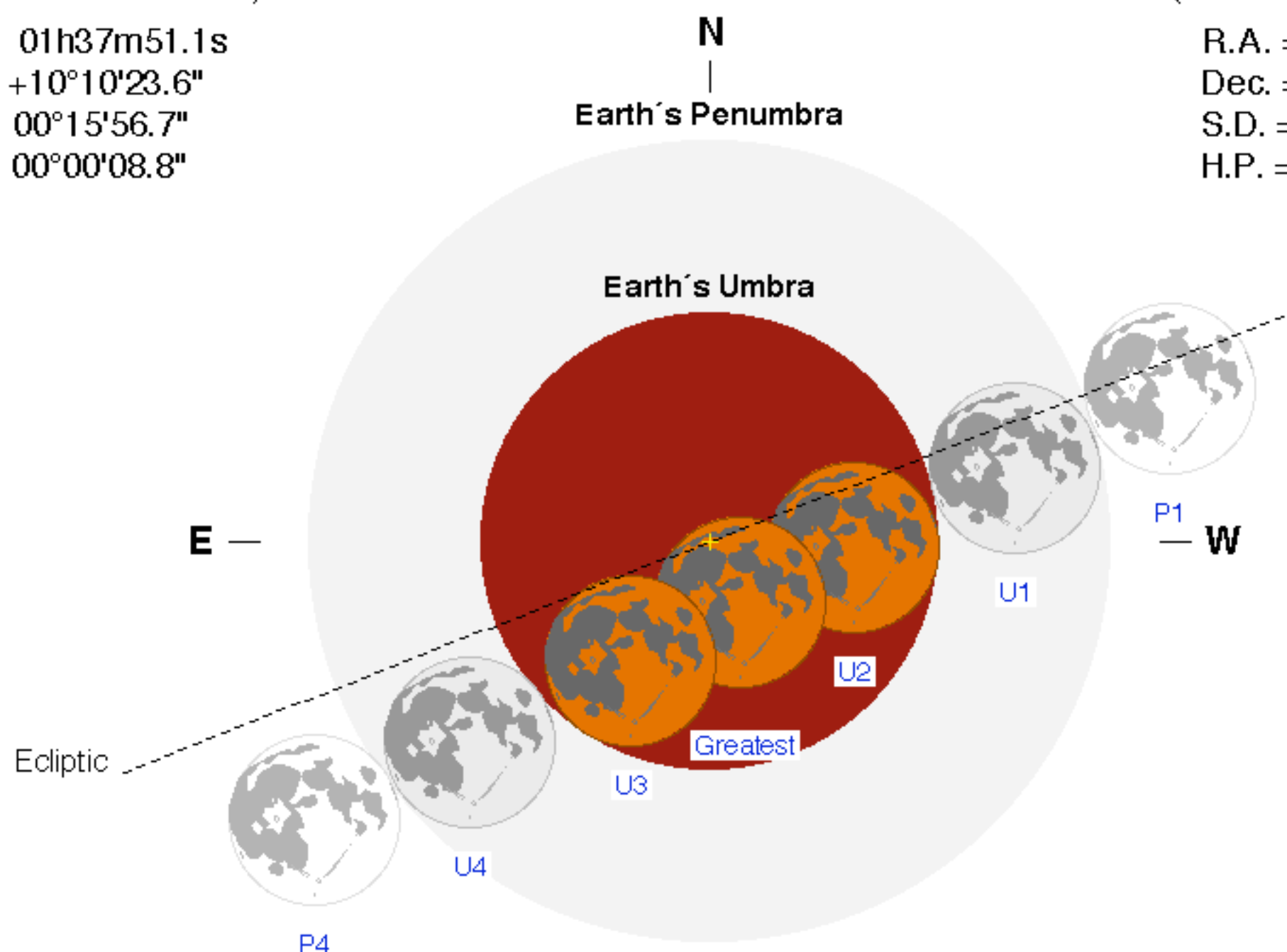
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 13h37m26.8s

Dec. = -10°22'08.8"

S.D. = 00°15'48.6"

H.P. = 00°58'01.5"



Eclipse Durations

Penumbral = 05h38m18s

Umbral = 03h35m49s

Total = 01h29m02s

$\Delta T = 198$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 16:12:24 UT

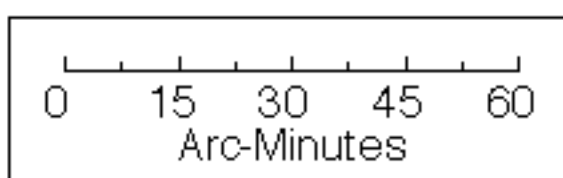
U1 = 17:13:34 UT

U2 = 18:16:58 UT

U3 = 19:45:59 UT

U4 = 20:49:23 UT

P4 = 21:50:42 UT



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

