

Total Lunar Eclipse of 2040 Nov 18

Ecliptic Conjunction = 19:07:21.9 TD (= 19:05:56.6 UT)

Greatest Eclipse = 19:04:40.5 TD (= 19:03:15.2 UT)

Penumbral Magnitude = 2.4525

P. Radius = 1.2197°

Gamma = 0.2361

Umbral Magnitude = 1.3974

U. Radius = 0.6803°

Axis = 0.2215°

Saros Series = 136

Member = 21 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 15h39m03.9s

Dec. = -19°29'49.8"

S.D. = 00°16'11.0"

H.P. = 00°00'08.9"

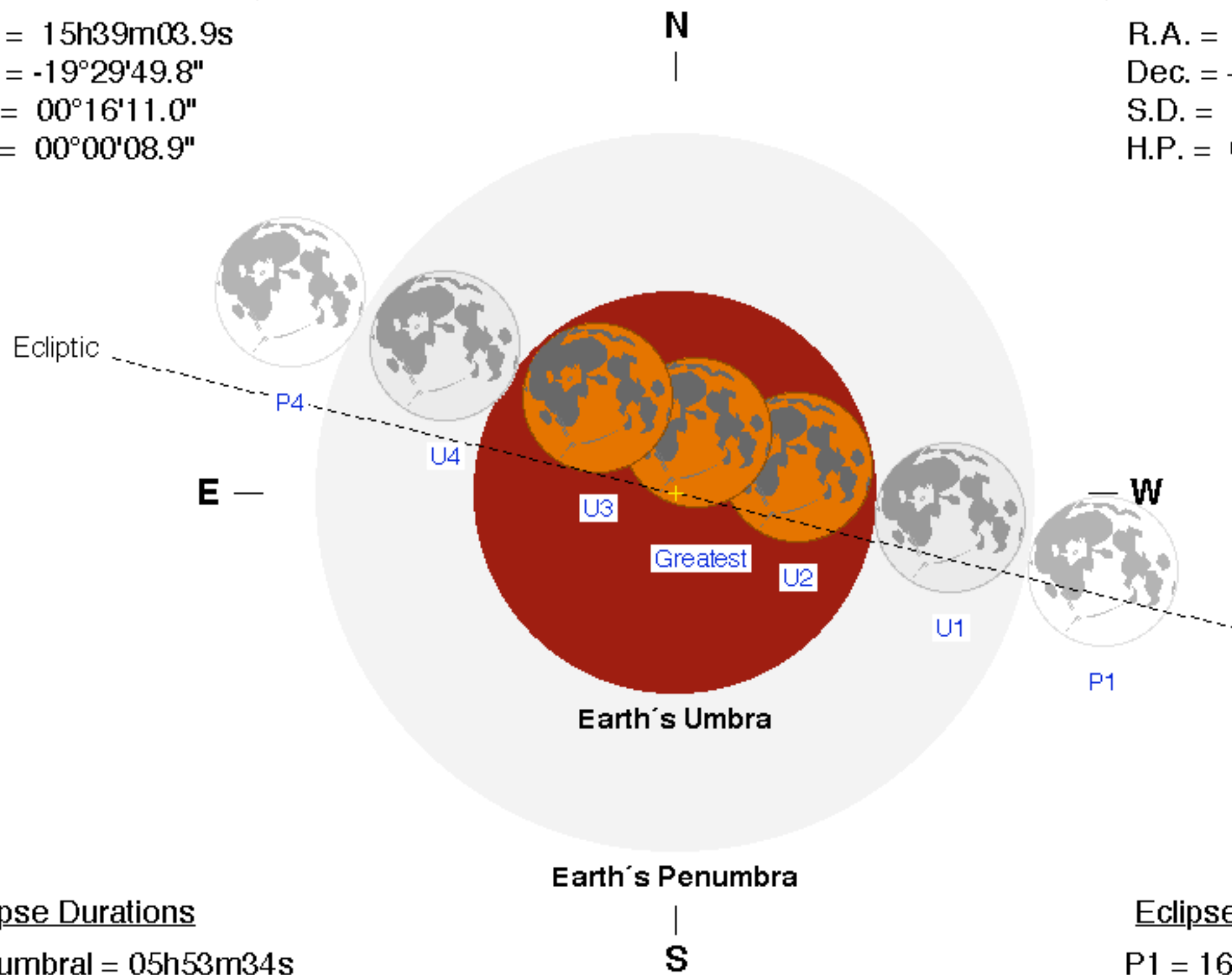
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h38m45.6s

Dec. = +19°42'23.7"

S.D. = 00°15'20.2"

H.P. = 00°56'17.3"



Eclipse Durations

Penumbral = 05h53m34s

Umbral = 03h40m27s

Total = 01h27m51s

$\Delta T = 85$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 16:06:31 UT

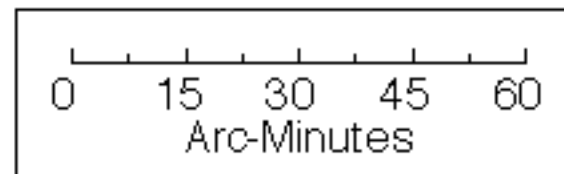
U1 = 17:13:01 UT

U2 = 18:19:19 UT

U3 = 19:47:10 UT

U4 = 20:53:27 UT

P4 = 22:00:06 UT



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eclipse.gsfc.nasa.gov/eclipse.html

