

Total Lunar Eclipse of 1982 Jan 09

Ecliptic Conjunction = 19:53:41.8 TD (= 19:52:49.6 UT)

Greatest Eclipse = 19:56:43.5 TD (= 19:55:51.2 UT)

Penumbral Magnitude = 2.3147

P. Radius = 1.2950°

Gamma = -0.2916

Umbral Magnitude = 1.3310

U. Radius = 0.7528°

Axis = 0.2949°

Saros Series = 124

Member = 47 of 74

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h23m18.7s

Dec. = -22°03'36.2"

S.D. = 00°16'15.8"

H.P. = 00°00'08.9"

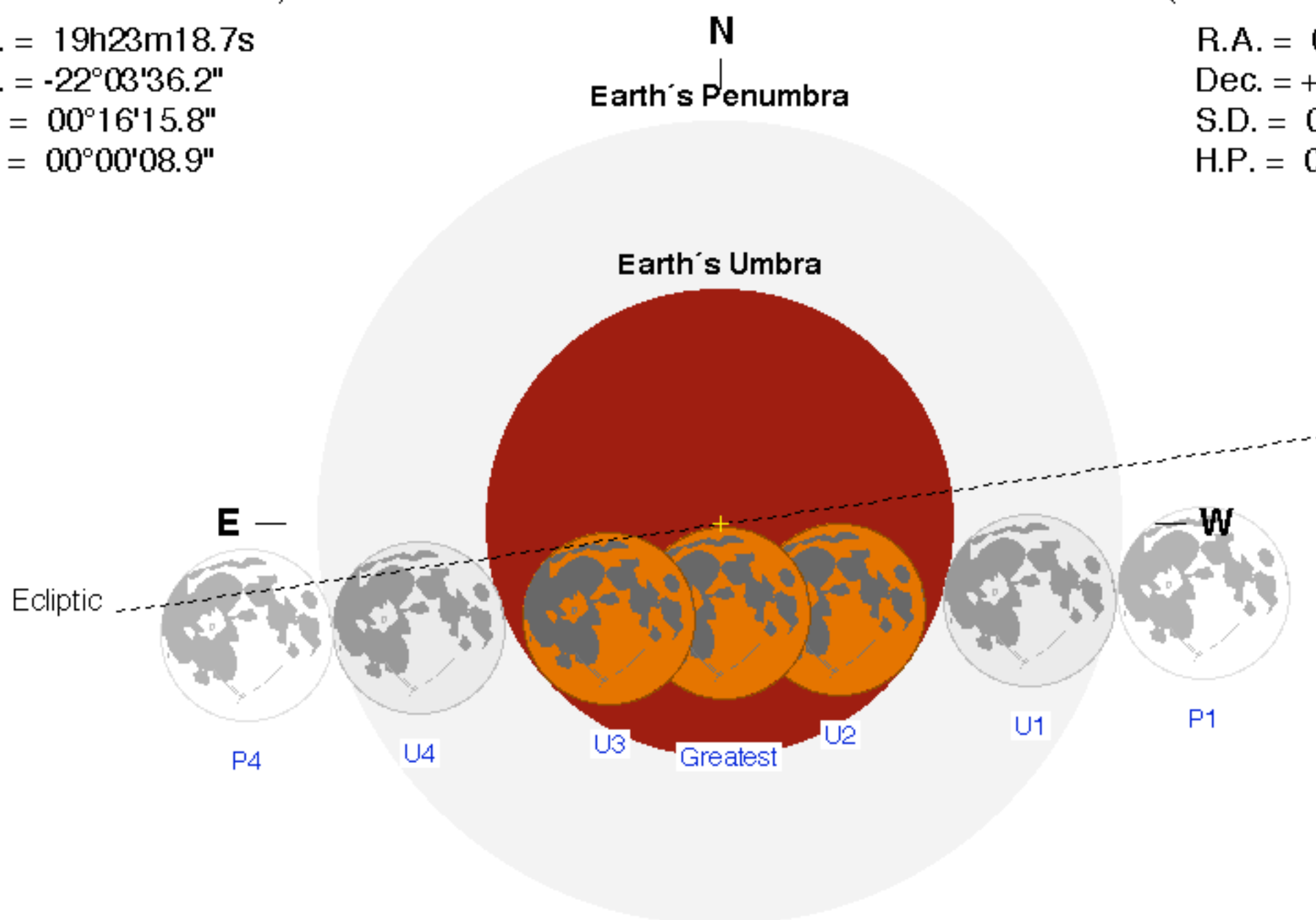
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h23m15.4s

Dec. = +21°45'55.7"

S.D. = 00°16'32.0"

H.P. = 01°00'40.7"



Eclipse Durations

Penumbral = 05h19m06s

Umbral = 03h23m50s

Total = 01h17m39s

$\Delta T = 52$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 17:16:20 UT

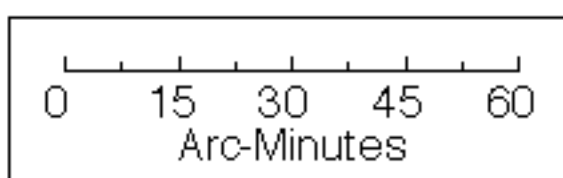
U1 = 18:13:56 UT

U2 = 19:17:01 UT

U3 = 20:34:40 UT

U4 = 21:37:45 UT

P4 = 22:35:26 UT



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eclipse.gsfc.nasa.gov/eclipse.html

