

Partial Lunar Eclipse of 2082 Feb 13

Ecliptic Conjunction = 06:19:00.8 TD (= 06:16:19.4 UT)

Greatest Eclipse = 06:29:18.8 TD (= 06:26:37.4 UT)

Penumbral Magnitude = 0.9955

P. Radius = 1.2916°

Gamma = 1.0101

Umbral Magnitude = 0.0134

U. Radius = 0.7516°

Axis = 1.0191°

Saros Series = 115 Member = 61 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 21h49m00.2s

Dec. = -13°11'39.5"

S.D. = 00°16'12.1"

H.P. = 00°00'08.9"

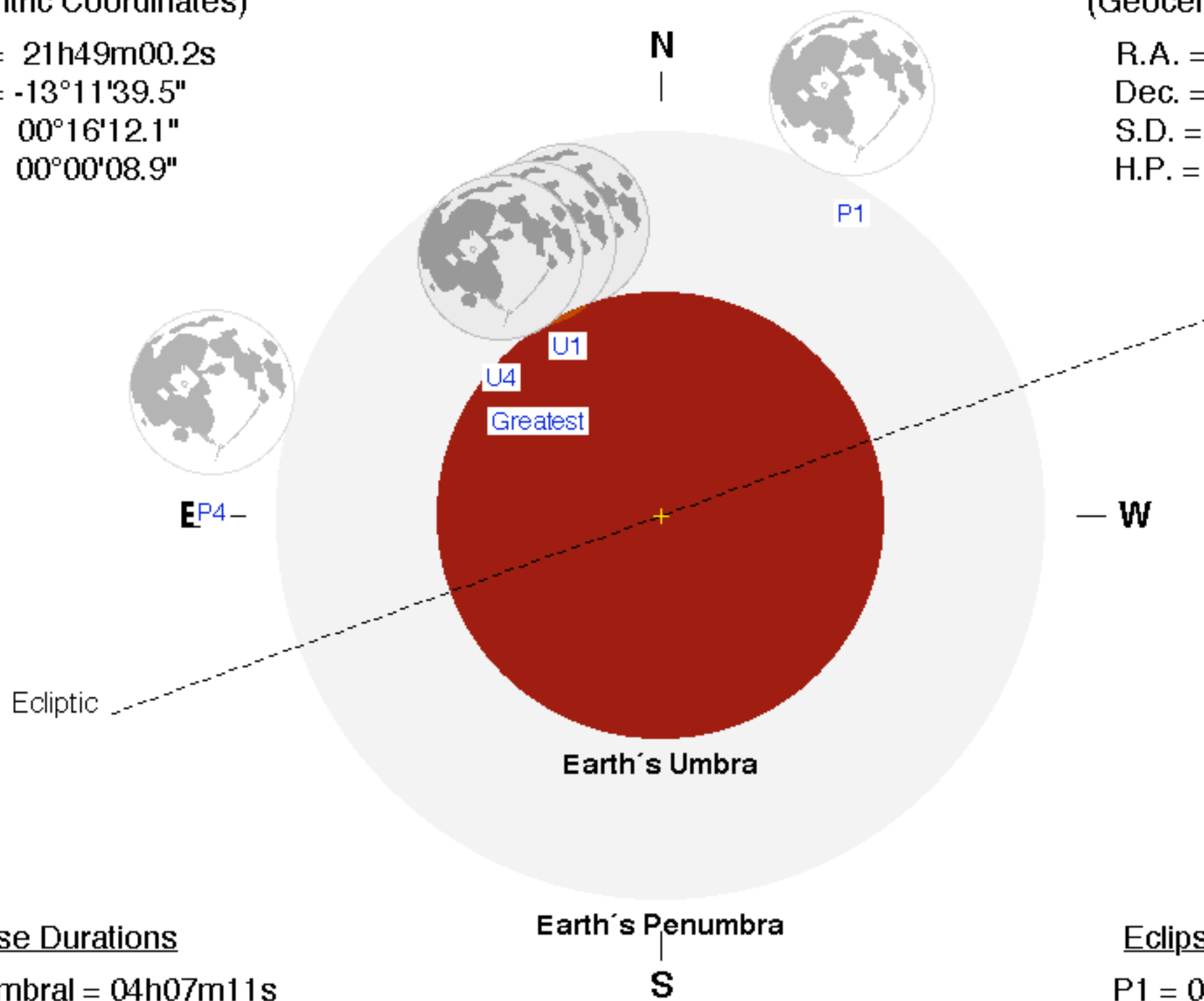
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h50m47.2s

Dec. = +14°07'00.8"

S.D. = 00°16'29.8"

H.P. = 01°00'32.5"



Eclipse Durations

Penumbral = 04h07m11s

Umbral = 00h25m30s

Eclipse Contacts

P1 = 04:23:03 UT

U1 = 06:13:56 UT

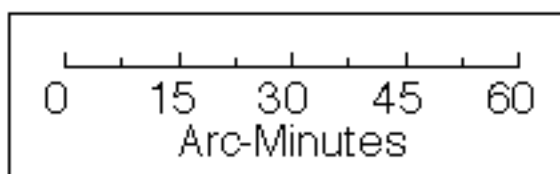
U4 = 06:39:27 UT

P4 = 08:30:13 UT

$\Delta T = 161$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85



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

