

Total Lunar Eclipse of 2025 Sep 07

Ecliptic Conjunction = 18:10:03.1 TD (= 18:08:48.3 UT)

Greatest Eclipse = 18:12:57.9 TD (= 18:11:43.1 UT)

Penumbral Magnitude = 2.3440

P. Radius = 1.2655°

Gamma = -0.2752

Umbral Magnitude = 1.3619

U. Radius = 0.7364°

Axis = 0.2720°

Saros Series = 128 Member = 41 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h06m09.1s

Dec. = +05°45'47.5"

S.D. = 00°15'52.4"

H.P. = 00°00'08.7"

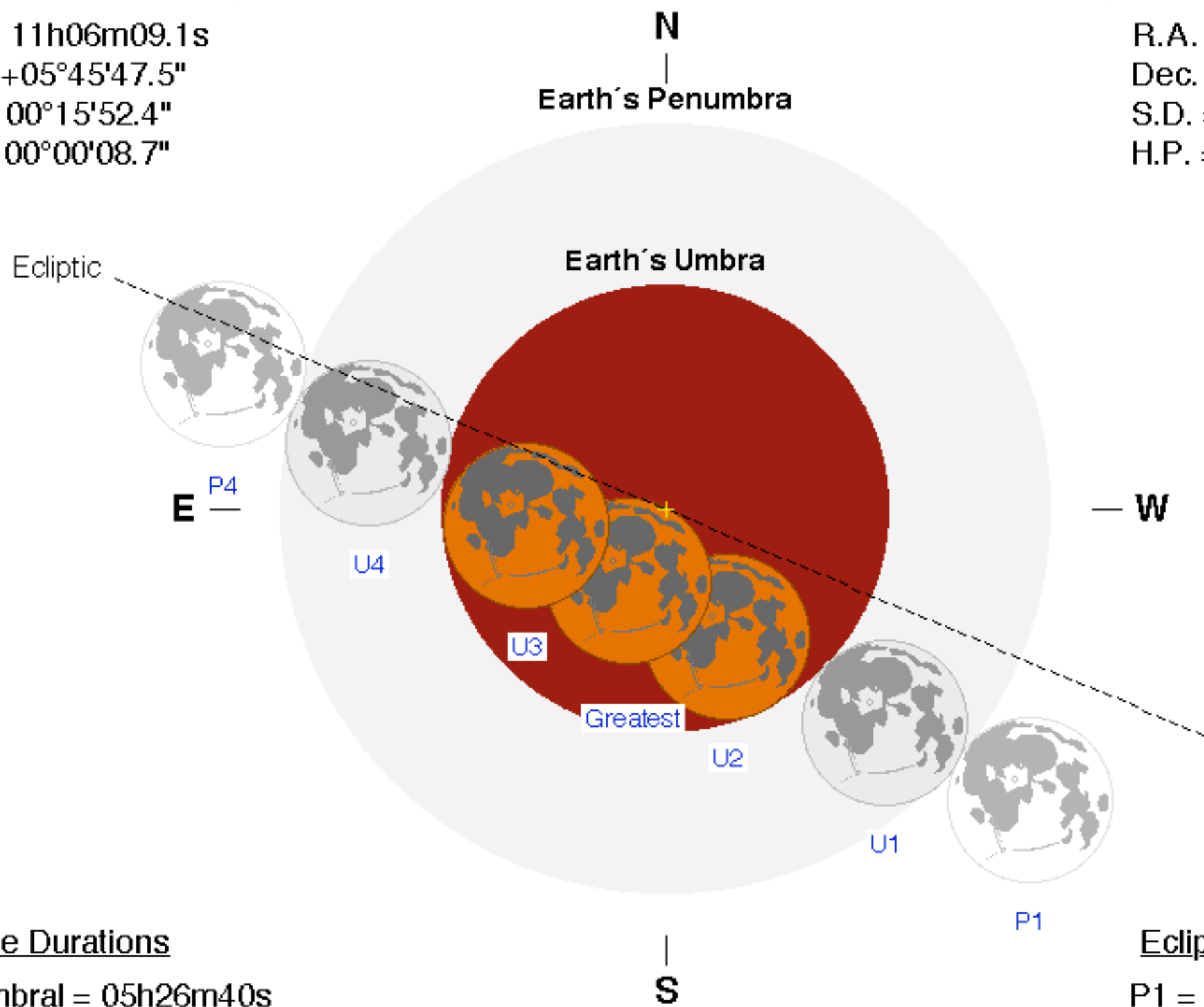
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h06m40.4s

Dec. = -06°00'08.9"

S.D. = 00°16'09.8"

H.P. = 00°59'19.1"



Eclipse Durations

Penumbral = 05h26m40s

Umbral = 03h29m24s

Total = 01h22m06s

$\Delta T = 75$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 15:28:21 UT

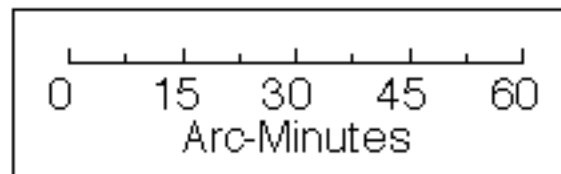
U1 = 16:27:02 UT

U2 = 17:30:41 UT

U3 = 18:52:47 UT

U4 = 19:56:26 UT

P4 = 20:55:00 UT



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

