

# Total Lunar Eclipse of 2065 Jul 17

Ecliptic Conjunction = 17:47:11.2 TD (= 17:45:05.9 UT)

Greatest Eclipse = 17:48:40.5 TD (= 17:46:35.2 UT)

Penumbral Magnitude = 2.5890

P. Radius = 1.2600°

Gamma = -0.1402

Umbral Magnitude = 1.6121

U. Radius = 0.7354°

Axis = 0.1382°

Saros Series = 130

Member = 37 of 72

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h50m48.2s

Dec. = +20°59'34.9"

S.D. = 00°15'44.3"

H.P. = 00°00'08.7"

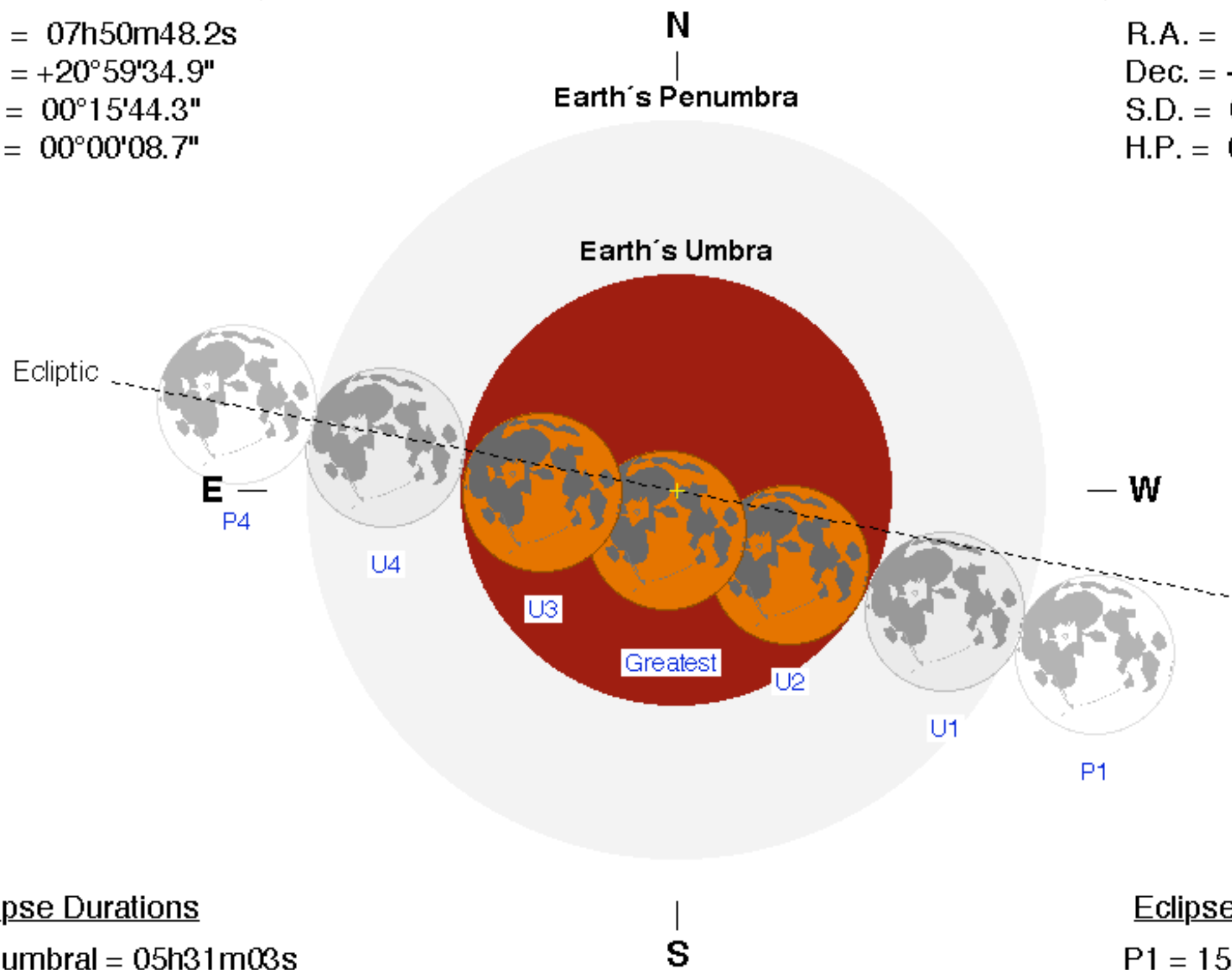
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h50m58.2s

Dec. = -21°07'32.2"

S.D. = 00°16'06.6"

H.P. = 00°59'07.5"



## Eclipse Durations

Penumbral = 05h31m03s

Umbral = 03h36m16s

Total = 01h37m00s

$\Delta T = 125$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

## Eclipse Contacts

P1 = 15:01:06 UT

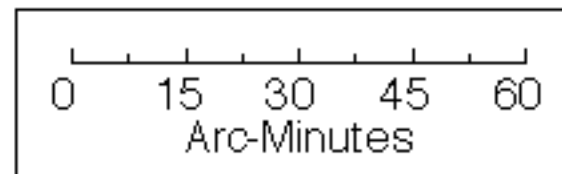
U1 = 15:58:26 UT

U2 = 16:58:04 UT

U3 = 18:35:05 UT

U4 = 19:34:42 UT

P4 = 20:32:09 UT



F. Espenak, NASA's GSFC

[eclipse.gsfc.nasa.gov/eclipse.html](http://eclipse.gsfc.nasa.gov/eclipse.html)

