

Partial Lunar Eclipse of 2046 Jul 18

Ecliptic Conjunction = 00:56:16.9 TD (= 00:54:47.0 UT)

Greatest Eclipse = 01:06:05.1 TD (= 01:04:35.2 UT)

Penumbral Magnitude = 1.2807

P. Radius = 1.2044°

Gamma = -0.8691

Umbral Magnitude = 0.2461

U. Radius = 0.6798°

Axis = 0.8086°

Saros Series = 120

Member = 60 of 84

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 07h50m23.8s

Dec. = +21°00'48.2"

S.D. = 00°15'44.2"

H.P. = 00°00'08.7"

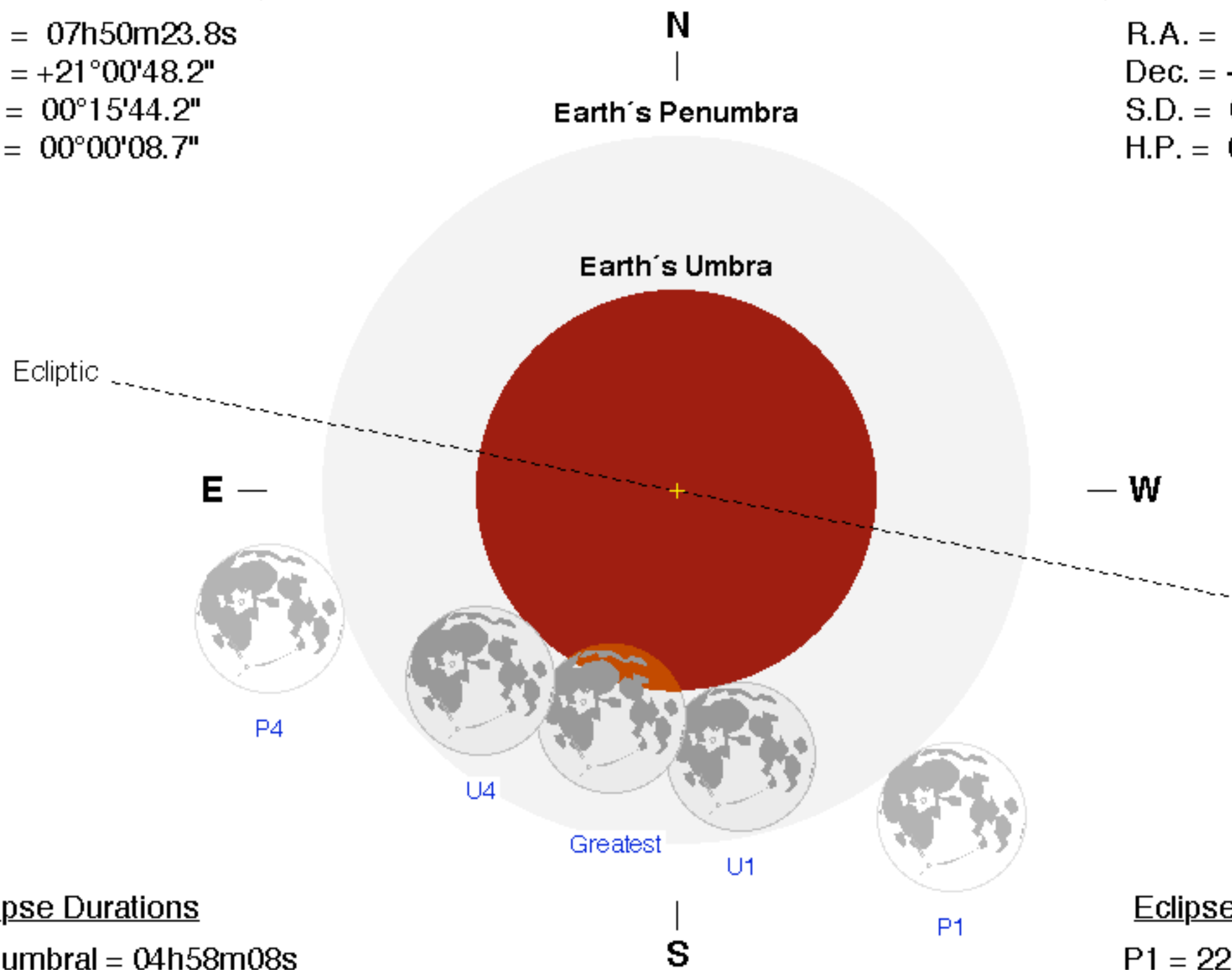
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h51m22.3s

Dec. = -21°47'22.3"

S.D. = 00°15'12.7"

H.P. = 00°55'49.5"



Eclipse Durations

Penumbral = 04h58m08s

Umbral = 01h54m35s

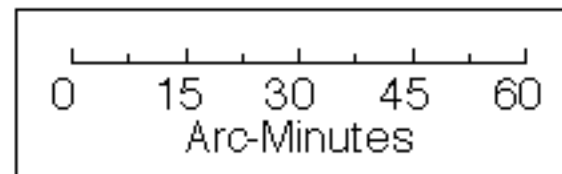
Eclipse Contacts

P1 = 22:35:30 UT

U1 = 00:07:13 UT

U4 = 02:01:48 UT

P4 = 03:33:38 UT



$\Delta T = 90$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

