

Penumbral Lunar Eclipse of 2049 Jun 15

Ecliptic Conjunction = 19:28:02.6 TD (= 19:26:30.1 UT)

Greatest Eclipse = 19:14:11.9 TD (= 19:12:39.5 UT)

Penumbral Magnitude = 0.2511

P. Radius = 1.2893°

Gamma = 1.4068

Umbral Magnitude = -0.6985

U. Radius = 0.7644°

Axis = 1.4268°

Saros Series = 150 Member = 3 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 05h38m45.5s

Dec. = +23°20'31.0"

S.D. = 00°15'44.8"

H.P. = 00°00'08.7"

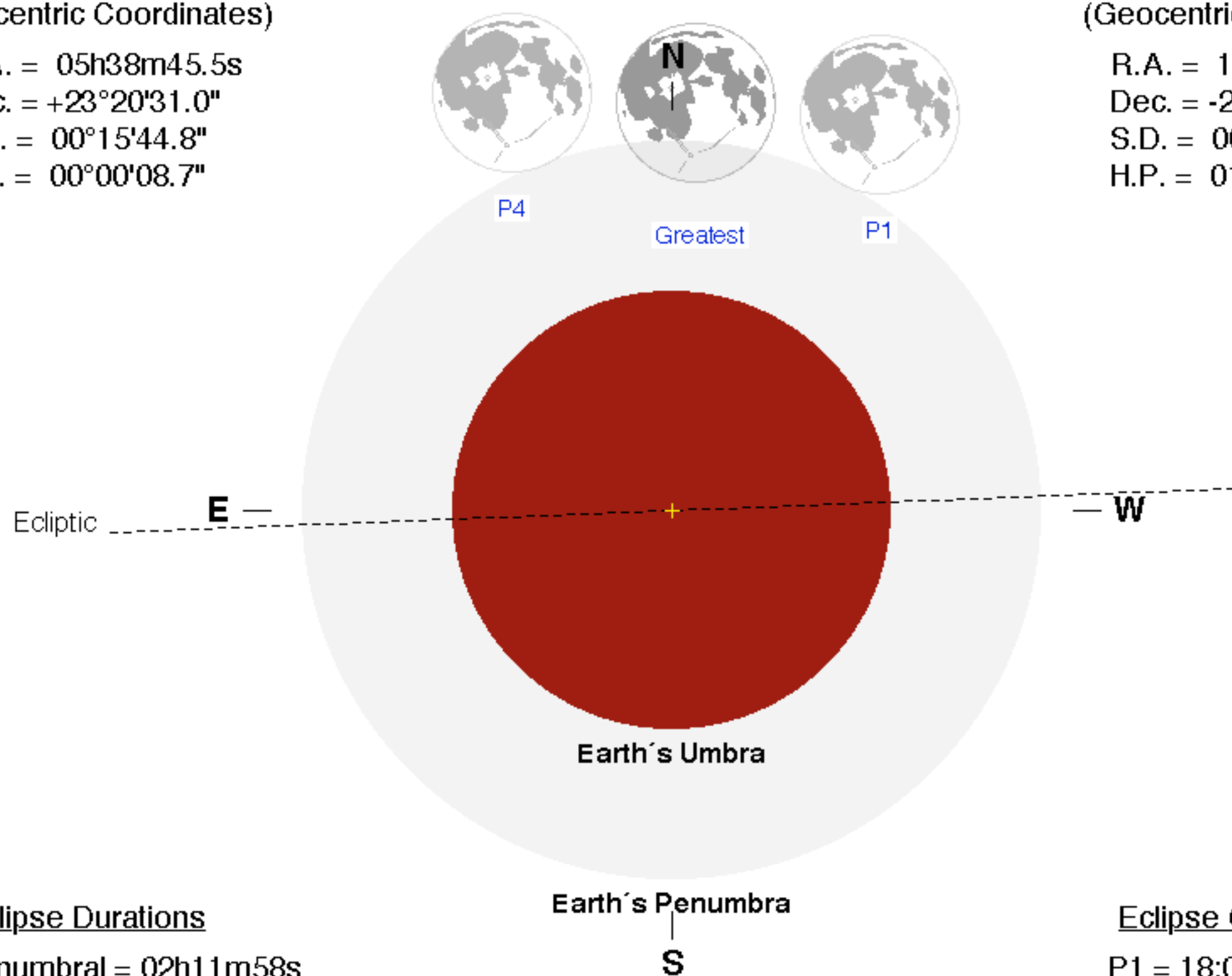
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 17h38m24.2s

Dec. = -21°55'02.3"

S.D. = 00°16'34.9"

H.P. = 01°00'51.4"



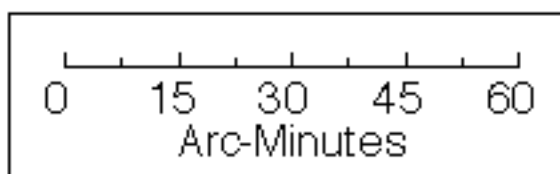
Eclipse Durations

Penumbral = 02h11m58s

Eclipse Contacts

P1 = 18:06:44 UT

P4 = 20:18:43 UT



$\Delta T = 92$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

