

Penumbral Lunar Eclipse of 2002 Jun 24

Ecliptic Conjunction = 21:43:25.6 TD (= 21:42:21.3 UT)

Greatest Eclipse = 21:28:13.3 TD (= 21:27:08.9 UT)

Penumbral Magnitude = 0.2095

P. Radius = 1.2349°

Gamma = -1.4439

Umbral Magnitude = -0.7925

U. Radius = 0.7104°

Axis = 1.3870°

Saros Series = 149

Member = 2 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 06h13m52.0s

Dec. = +23°24'03.8"

S.D. = 00°15'44.2"

H.P. = 00°00'08.7"

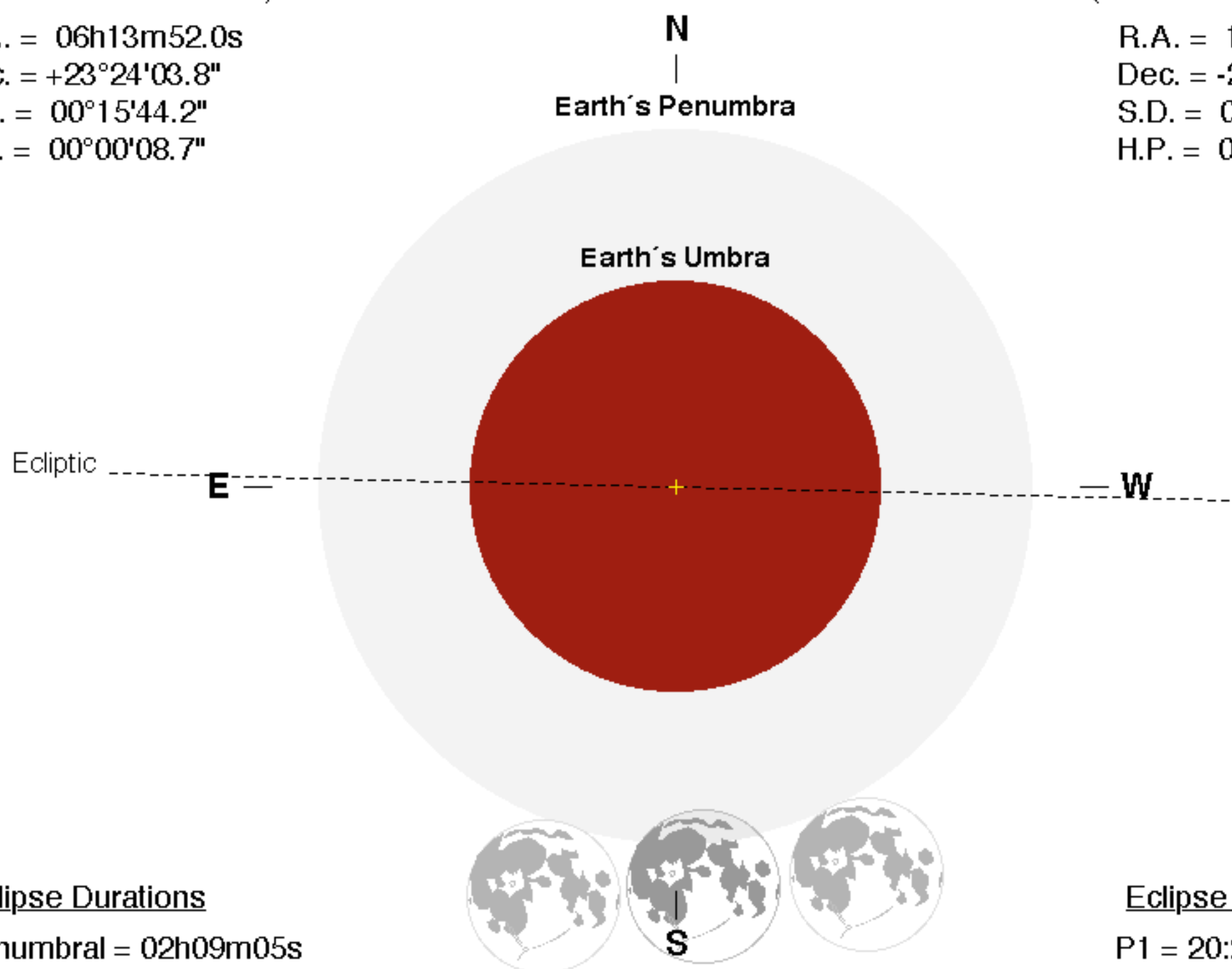
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 18h13m25.9s

Dec. = -24°47'04.8"

S.D. = 00°15'42.3"

H.P. = 00°57'38.4"



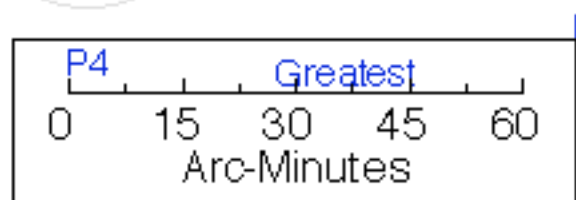
Eclipse Durations

Penumbral = 02h09m05s

Eclipse Contacts

P1 = 20:22:28 UT

P4 = 22:31:33 UT



$\Delta T = 64$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html

