

Total Lunar Eclipse of 2011 Jun 15

Ecliptic Conjunction = 20:14:40.7 TD (= 20:13:33.4 UT)
 Greatest Eclipse = 20:13:43.1 TD (= 20:12:35.8 UT)

Penumbral Magnitude = 2.6868 P. Radius = 1.2504° Gamma = 0.0897
 Umbral Magnitude = 1.6998 U. Radius = 0.7256° Axis = 0.0875°

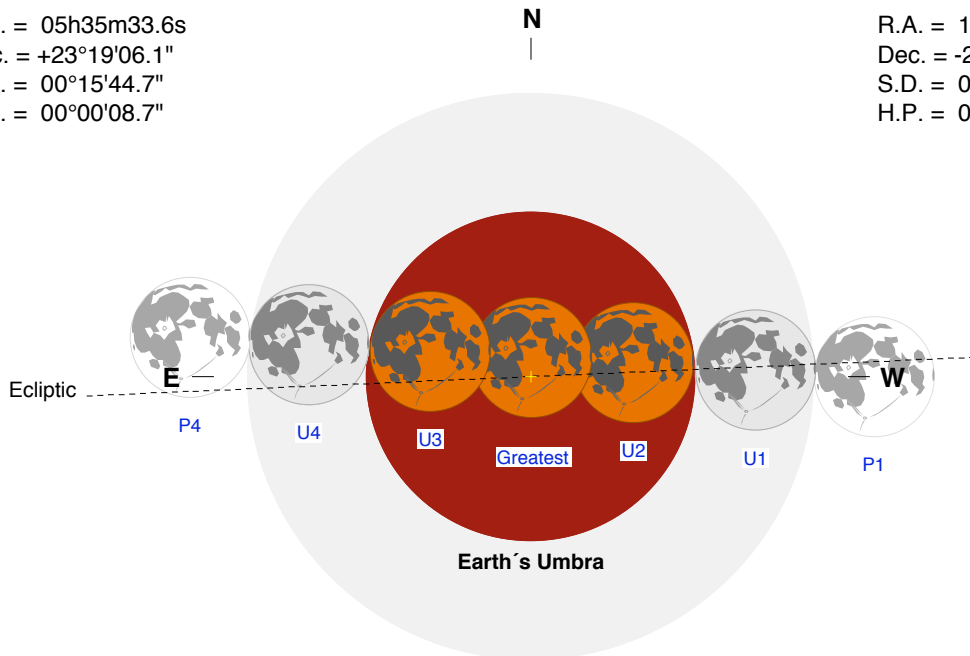
Saros Series = 130 Member = 34 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 05h35m33.6s
 Dec. = +23°19'06.1"
 S.D. = 00°15'44.7"
 H.P. = 00°00'08.7"

Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 17h35m32.3s
 Dec. = -23°13'51.6"
 S.D. = 00°15'57.2"
 H.P. = 00°58'33.0"



Eclipse Durations

Penumbral = 05h36m12s
 Umbral = 03h39m19s
 Total = 01h40m13s

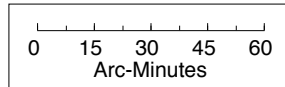
$\Delta T = 67$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Earth's Penumbra

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

Eclipse Contacts

P1 = 17:24:33 UT
 U1 = 18:22:55 UT
 U2 = 19:22:29 UT
 U3 = 21:02:41 UT
 U4 = 22:02:14 UT
 P4 = 23:00:44 UT

