

# Total Lunar Eclipse of 2011 Jun 15

Geocentric Conjunction = 20:13:10.3 UT J.D. = 2455728.34248  
 Greatest Eclipse = 20:12:37.2 UT J.D. = 2455728.34210

Penumbral Magnitude = 2.7117 P. Radius = 1.2638° Gamma = 0.0899  
 Umbral Magnitude = 1.7050 U. Radius = 0.7285° Axis = 0.0877°

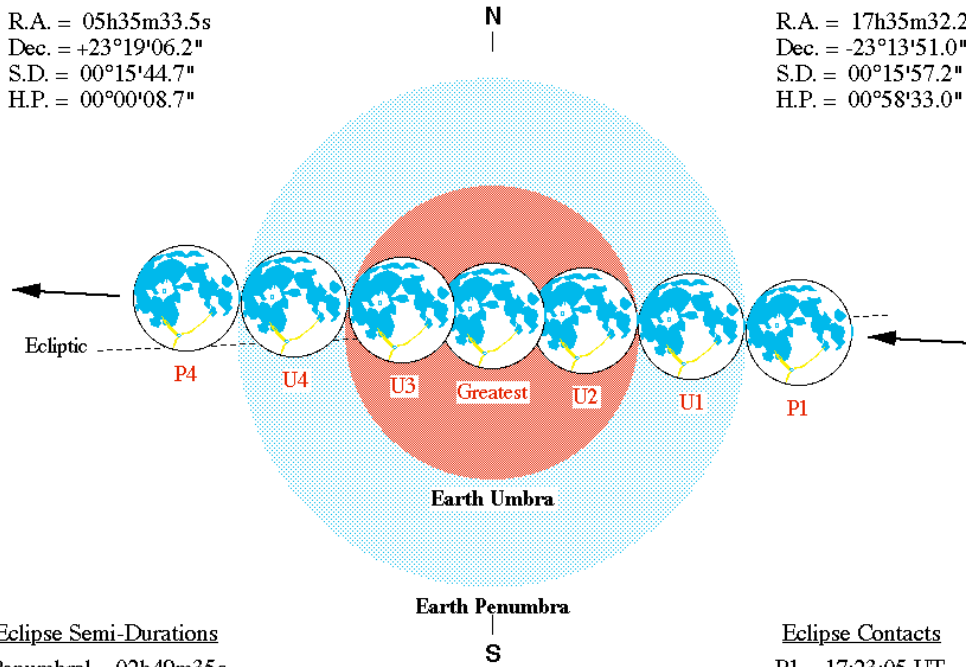
Saros Series = 130 Member = 34 of 72

Sun at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 05h35m33.5s  
 Dec. = +23°19'06.2"  
 S.D. = 00°15'44.7"  
 H.P. = 00°00'08.7"

Moon at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 17h35m32.2s  
 Dec. = -23°13'51.0"  
 S.D. = 00°15'57.2"  
 H.P. = 00°58'33.0"



Eclipse Semi-Durations

Penumbral = 02h49m35s  
 Umbral = 01h49m59s  
 Total = 00h50m26s

Eph. = Newcomb/ILE  
 ΔT = 68.0 s

Eclipse Contacts

P1 = 17:23:05 UT  
 U1 = 18:22:37 UT  
 U2 = 19:22:11 UT  
 U3 = 21:03:02 UT  
 U4 = 22:02:35 UT  
 P4 = 23:02:15 UT

F. Espenak, NASA's GSFC - 2004 Jul 07

<http://sunearth.gsfc.nasa.gov/eclipse/eclipse.html>

