

Figure 3

# Partial Solar Eclipse of 2015 Sep 13

Ecliptic Conjunction = 06:42:23.7 TD (= 06:41:16.0 UT)  
Greatest Eclipse = 06:55:19.2 TD (= 06:54:11.6 UT)

Eclipse Magnitude = 0.7876      Gamma = -1.1003

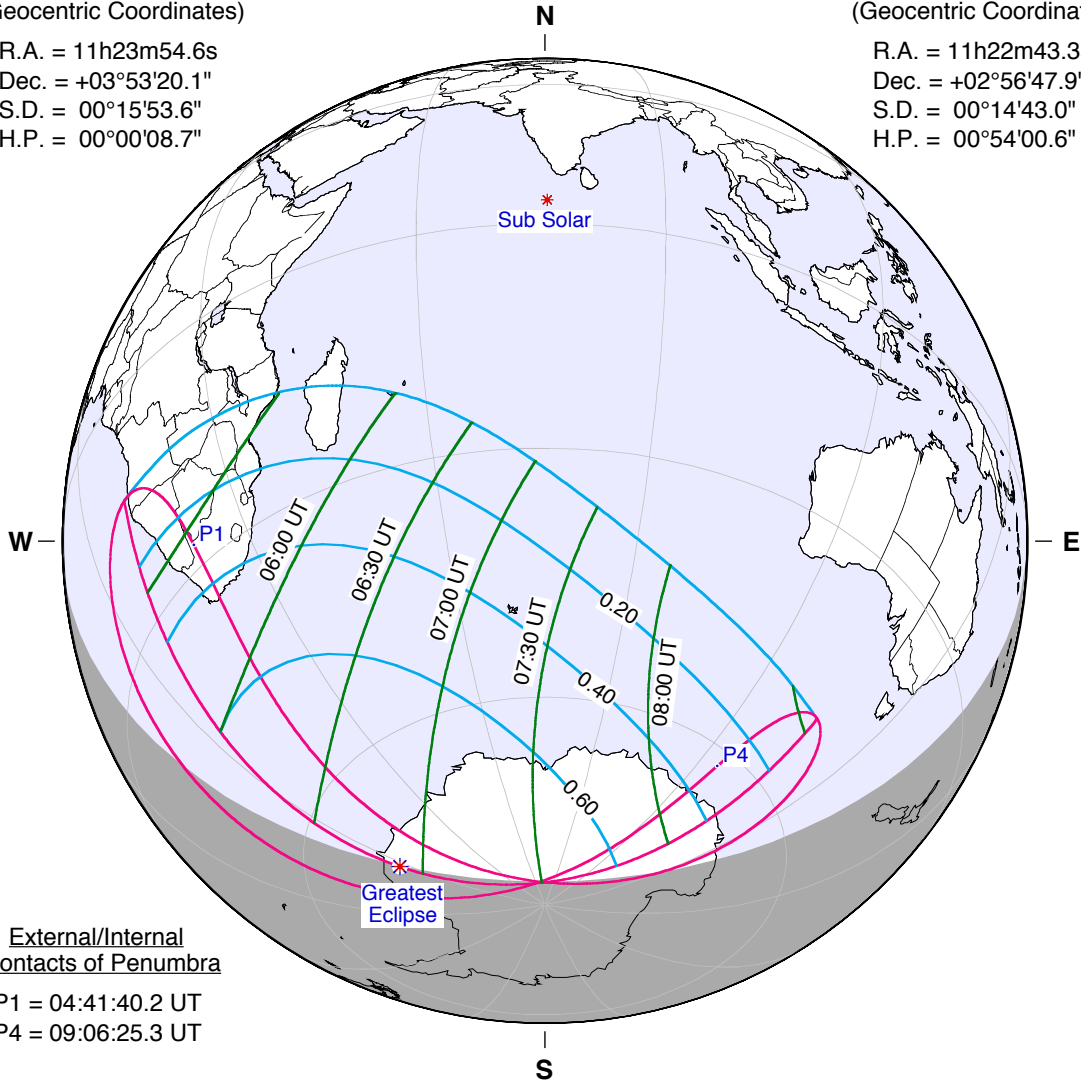
Saros Series = 125      Member = 54 of 73

Sun at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 11h23m54.6s  
Dec. = +03°53'20.1"  
S.D. = 00°15'53.6"  
H.P. = 00°00'08.7"

Moon at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 11h22m43.3s  
Dec. = +02°56'47.9"  
S.D. = 00°14'43.0"  
H.P. = 00°54'00.6"

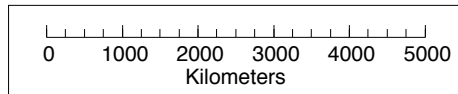


External/Internal  
Contacts of Penumbra

P1 = 04:41:40.2 UT  
P4 = 09:06:25.3 UT

Constants & Ephemeris

$\Delta T = 67.6$  s  
 $k1 = 0.2724880$   
 $k2 = 0.2722810$   
 $\Delta b = 0.0''$      $\Delta l = 0.0''$   
Eph. = VSOP87/ELP2000-85



Geocentric Libration  
(Optical + Physical)

$l = 1.34^\circ$   
 $b = 1.30^\circ$   
 $c = 24.64^\circ$   
Brown Lun. No. = 1147

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[eclipse.gsfc.nasa.gov/eclipse.html](http://eclipse.gsfc.nasa.gov/eclipse.html)

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