

Penumbral Lunar Eclipse of 2016 Mar 23

Greatest Eclipse = 11:48:22.1 TD (= 11:47:12.6 UT1)

Penumbral Magnitude = 0.7748
Umbral Magnitude = -0.3118

Gamma = 1.1592
Axis = 1.0469°

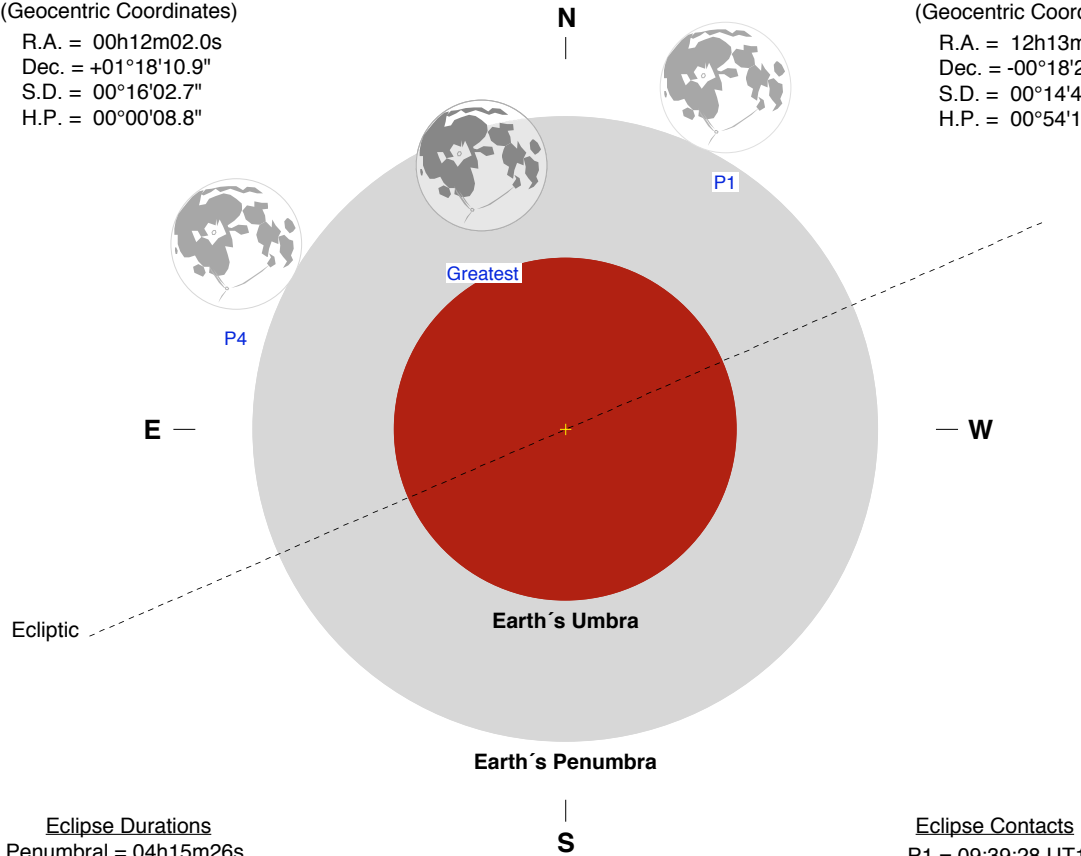
Saros Series = 142
Saros Member = 18 of 74

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 00h12m02.0s
Dec. = +01°18'10.9"
S.D. = 00°16'02.7"
H.P. = 00°00'08.8"

Moon at Greatest Eclipse
(Geocentric Coordinates)

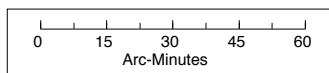
R.A. = 12h13m18.6s
Dec. = -00°18'21.4"
S.D. = 00°14'46.0"
H.P. = 00°54'11.6"



Eclipse Durations
Penumbral = 04h15m26s

Eclipse Contacts
P1 = 09:39:28 UT1
P4 = 13:54:54 UT1

Eph. = JPL DE405
Rule = Danjon
 $\Delta T = 70$ s



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