

Eclipses During 2020

Figure 4

Penumbral Lunar Eclipse of 2020 Jul 05

Greatest Eclipse = 04:31:11.9 TD (= 04:30:02.2 UT1)

Penumbral Magnitude = 0.3546
 Umbral Magnitude = -0.6436

Gamma = -1.3639
 Axis = 1.3146°

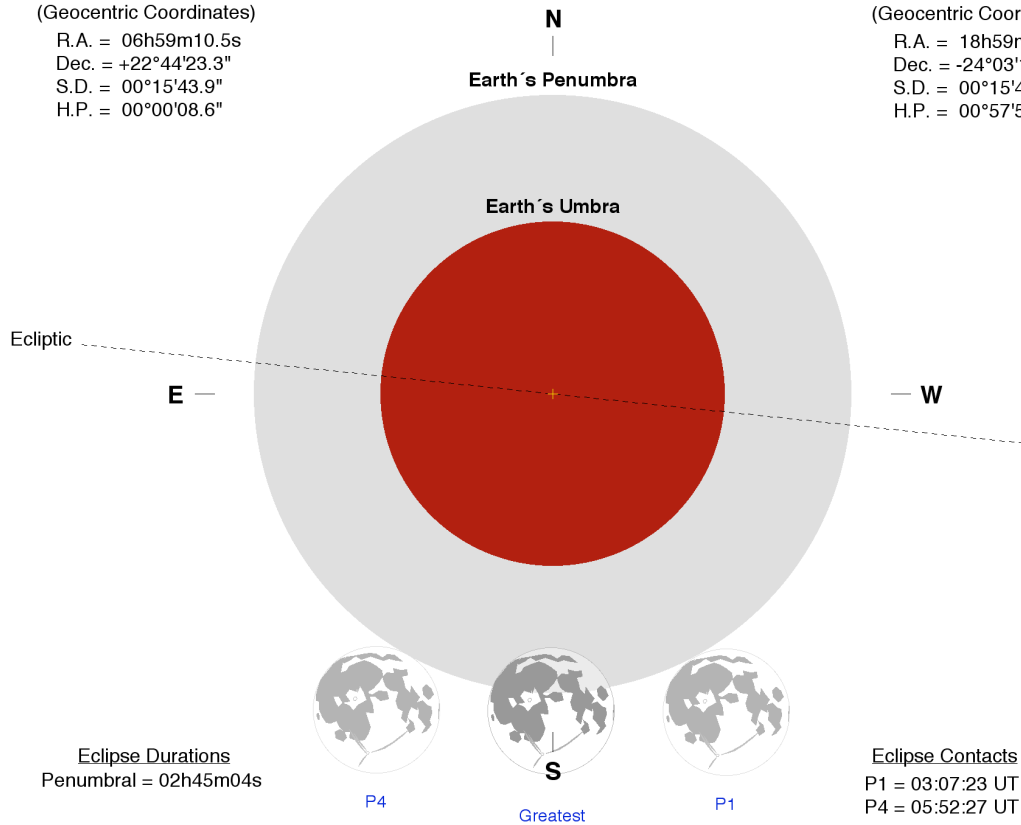
Saros Series = 149
 Saros Member = 3 of 71

Sun at Greatest Eclipse
 (Geocentric Coordinates)

R.A. = 06h59m10.5s
 Dec. = +22°44'23.3"
 S.D. = 00°15'43.9"
 H.P. = 00°00'08.6"

Moon at Greatest Eclipse
 (Geocentric Coordinates)

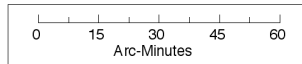
R.A. = 18h59m12.6s
 Dec. = -24°03'16.2"
 S.D. = 00°15'45.6"
 H.P. = 00°57'50.4"



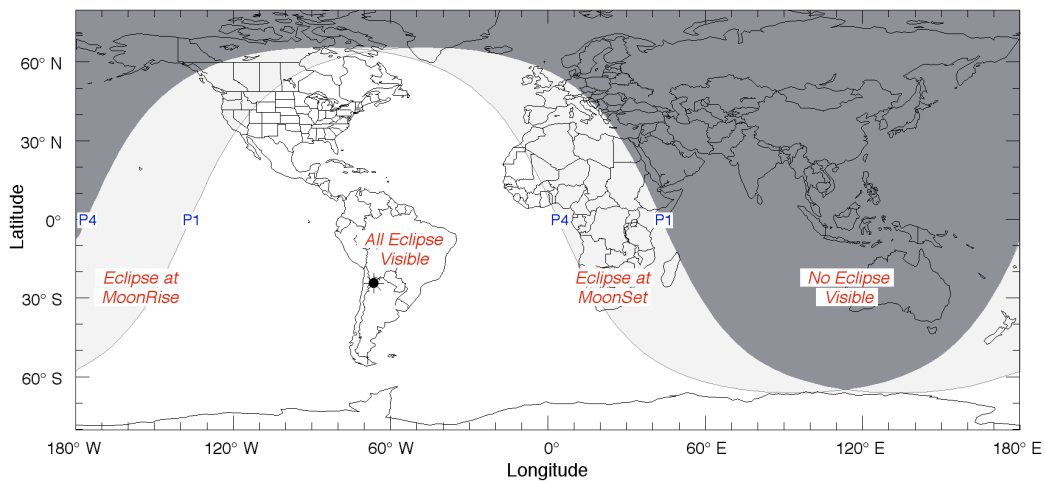
Eclipse Durations
 Penumbral = 02h45m04s

Eclipse Contacts
 P1 = 03:07:23 UT1
 P4 = 05:52:27 UT1

Eph. = JPL DE405
 Rule = Danjon
 ΔT = 70 s



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