

Eclipses During 2020

Figure 5

Penumbral Lunar Eclipse of 2020 Nov 30

Greatest Eclipse = 09:44:01.7 TD (= 09:42:51.8 UT1)

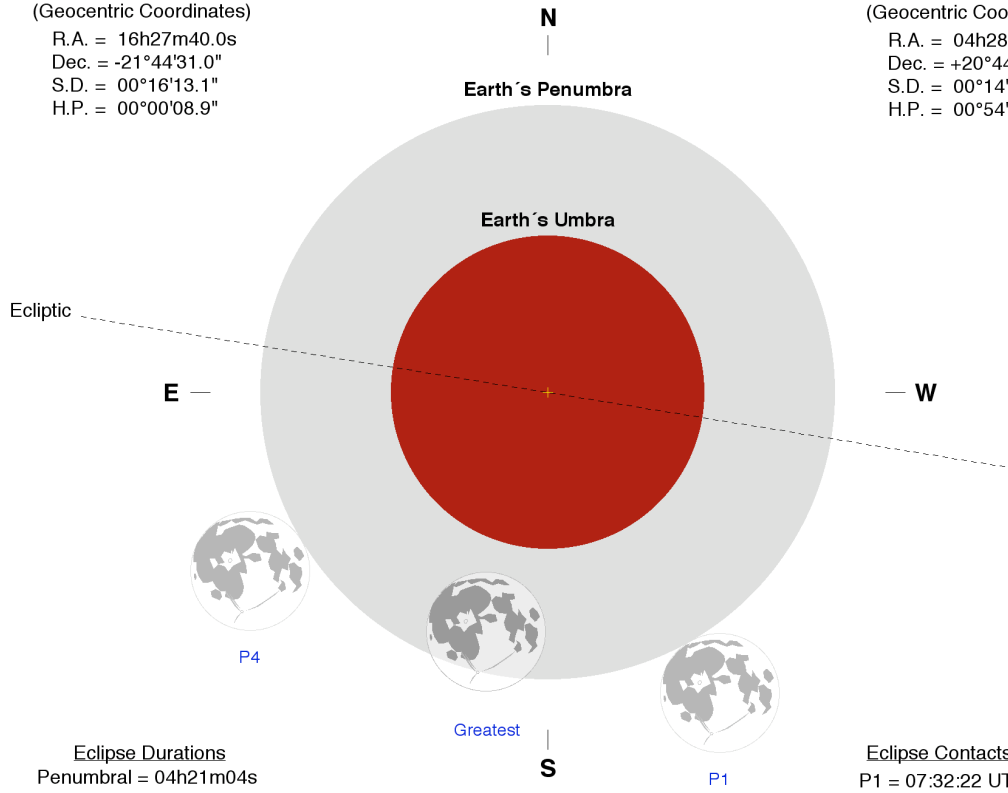
Penumbral Magnitude = 0.8285
Umbral Magnitude = -0.2619

Gamma = -1.1309
Axis = 1.0288°

Saros Series = 116
Saros Member = 58 of 73

Sun at Greatest Eclipse
(Geocentric Coordinates)
R.A. = 16h27m40.0s
Dec. = -21°44'31.0"
S.D. = 00°16'13.1"
H.P. = 00°00'08.9"

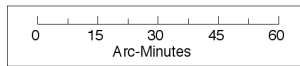
Moon at Greatest Eclipse
(Geocentric Coordinates)
R.A. = 04h28m46.7s
Dec. = +20°44'46.4"
S.D. = 00°14'52.4"
H.P. = 00°54'35.1"



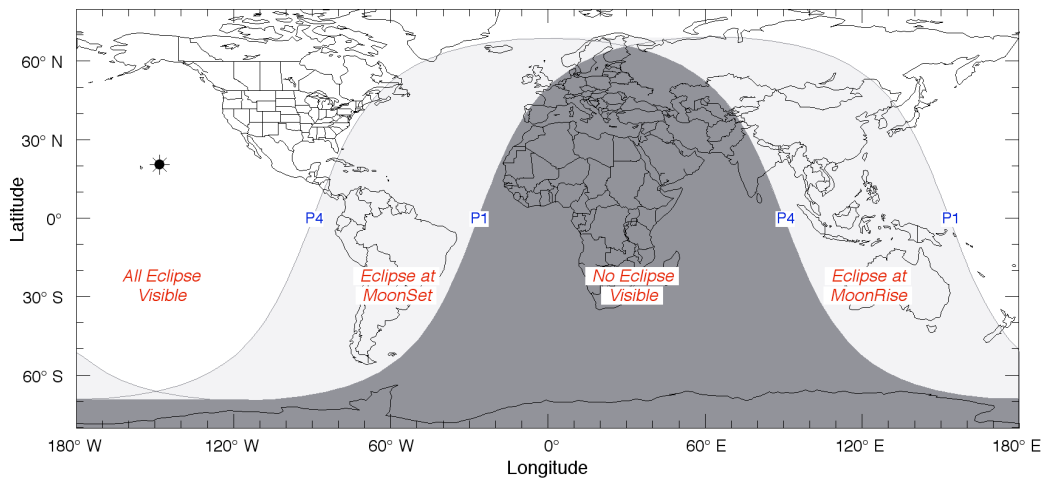
Eclipse Durations
Penumbral = 04h21m04s

Eclipse Contacts
P1 = 07:32:22 UT1
P4 = 11:53:26 UT1

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



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