

Total Lunar Eclipse of 2019 Jan 21

Greatest Eclipse = 05:13:27.1 TD (= 05:12:18.0 UT1)

Penumbral Magnitude = 2.1684
Umbral Magnitude = 1.1953

Gamma = 0.3684
Axis = 0.3763°

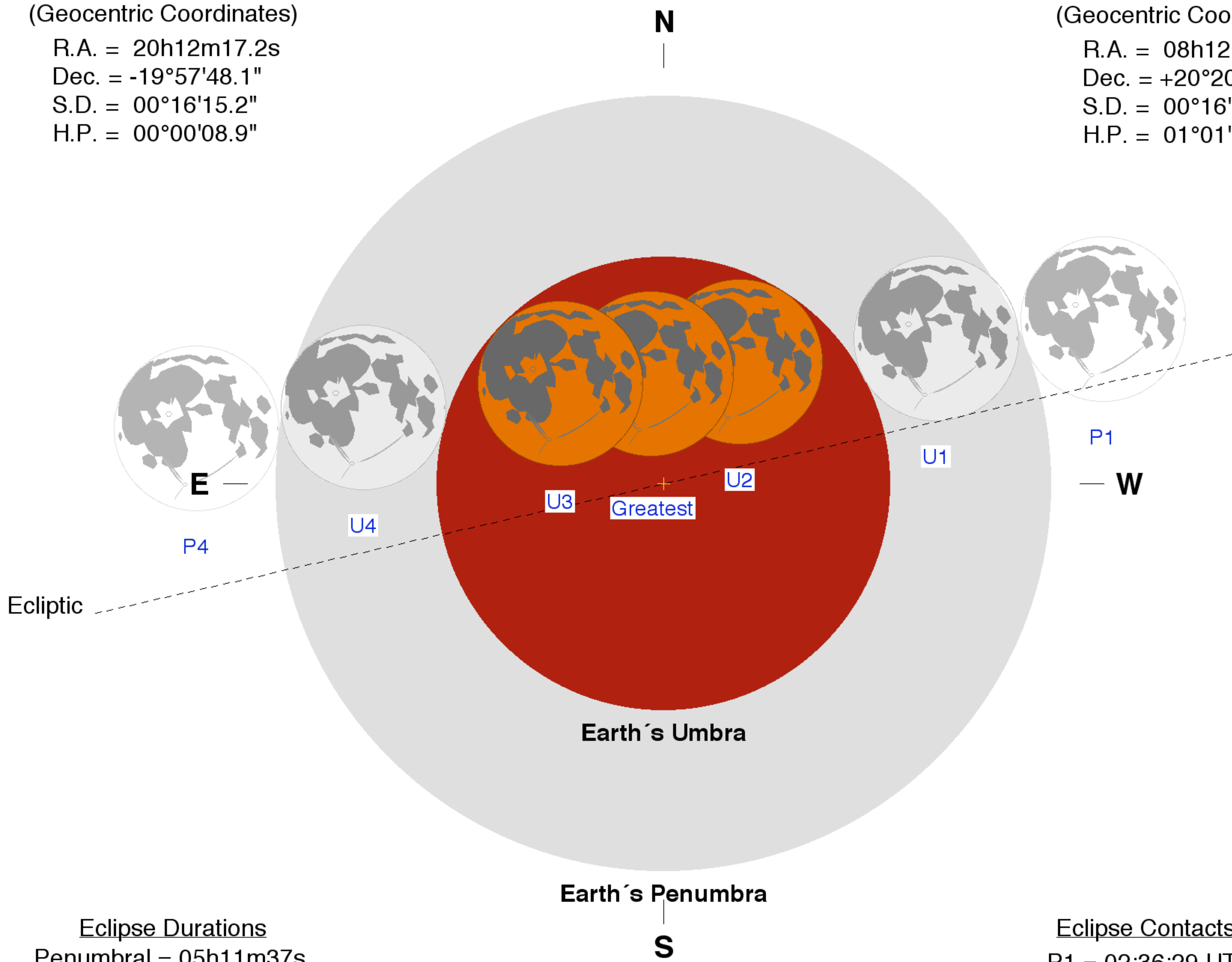
Saros Series = 134
Saros Member = 27 of 72

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 20h12m17.2s
Dec. = -19°57'48.1"
S.D. = 00°16'15.2"
H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 08h12m28.7s
Dec. = +20°20'13.2"
S.D. = 00°16'42.1"
H.P. = 01°01'17.9"



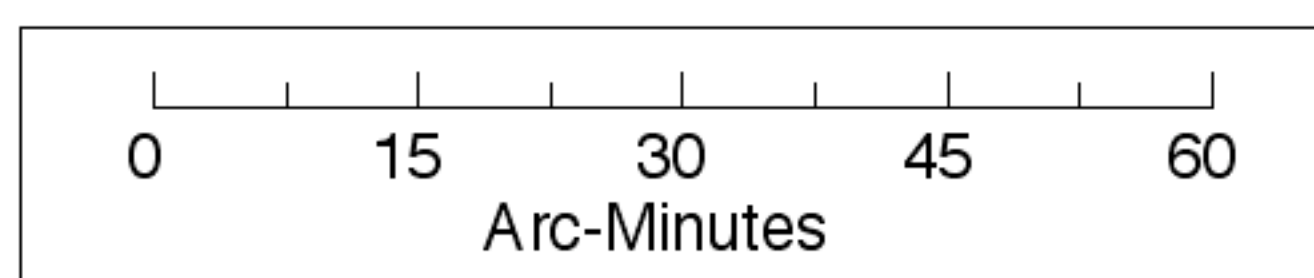
Eclipse Durations

Penumbral = 05h11m37s
Umbral = 03h16m47s
Total = 01h01m59s

Eph. = JPL DE405
Rule = Danjon
 $\Delta T = 69$ s

Eclipse Contacts

P1 = 02:36:29 UT1
U1 = 03:33:55 UT1
U2 = 04:41:19 UT1
U3 = 05:43:18 UT1
U4 = 06:50:42 UT1
P4 = 07:48:06 UT1



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