

Total Solar Eclipse of 2017 Aug 21

Greatest Eclipse = 18:26:40.3 TD (= 18:25:31.5 UT1)

Eclipse Magnitude = 1.0306

Saros Series = 145

Gamma = 0.4367

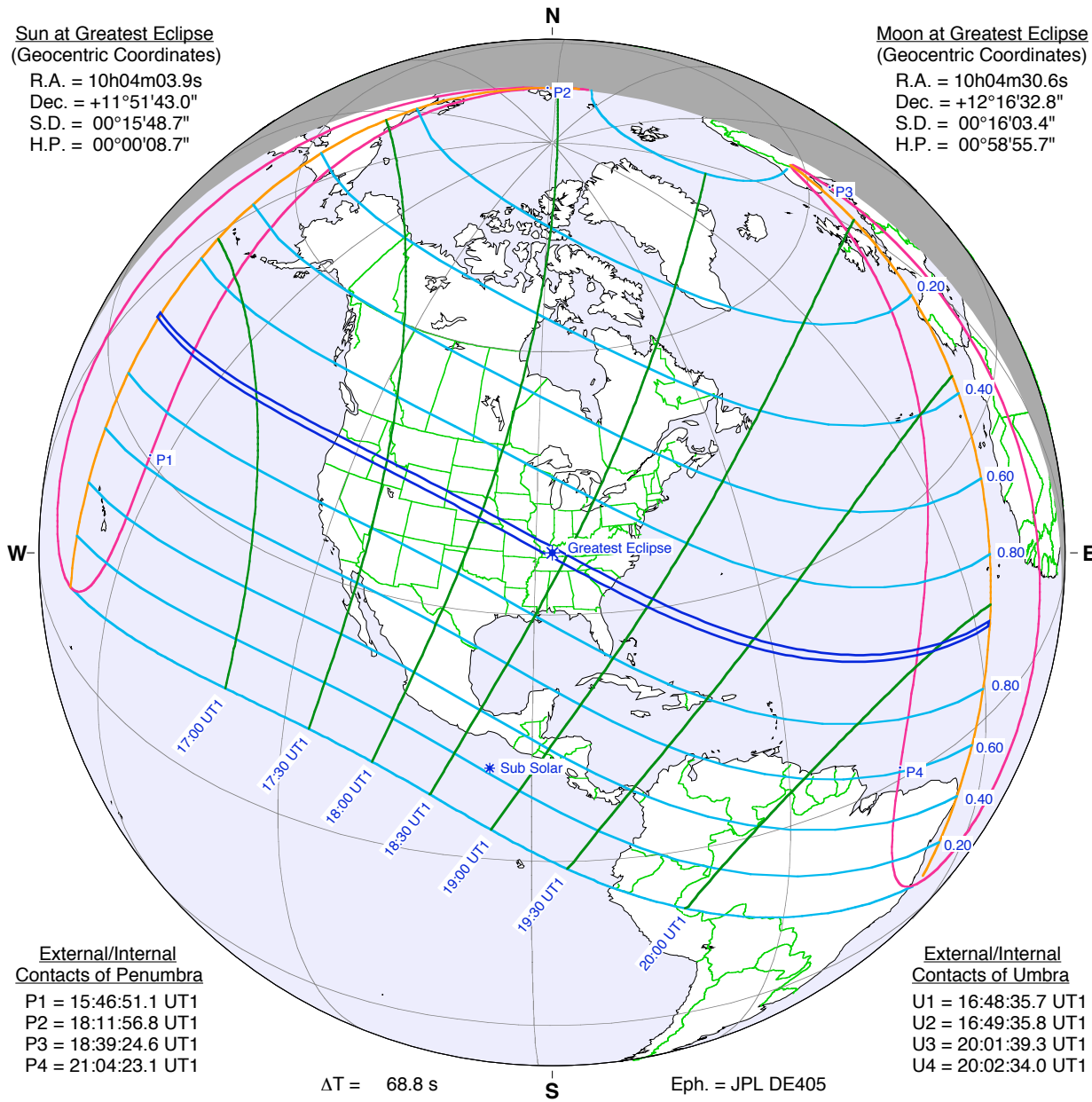
Saros Member = 22 of 77

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 10h04m03.9s
Dec. = +11°51'43.0"
S.D. = 00°15'48.7"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 10h04m30.6s
Dec. = +12°16'32.8"
S.D. = 00°16'03.4"
H.P. = 00°58'55.7"



External/Internal
Contacts of Penumbra

P1 = 15:46:51.1 UT1
P2 = 18:11:56.8 UT1
P3 = 18:39:24.6 UT1
P4 = 21:04:23.1 UT1

External/Internal
Contacts of Umbra

U1 = 16:48:35.7 UT1
U2 = 16:49:35.8 UT1
U3 = 20:01:39.3 UT1
U4 = 20:02:34.0 UT1

$\Delta T = 68.8$ s

Eph. = JPL DE405

Circumstances at Greatest Eclipse: 18:25:31.5 UT1

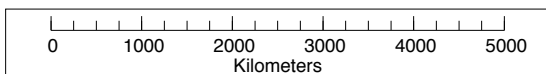
Lat. = 36°58.0'N
Long. = 087°40.2'W
Path Width = 114.7 km

Sun Alt. = 63.9°
Sun Azm. = 197.9°
Duration = 02m40.1s

Circumstances at Greatest Duration: 18:21:48.8 UT1

Lat. = 37°34.6'N
Long. = 089°06.6'W
Path Width = 114.5 km

Sun Alt. = 63.8°
Sun Azm. = 192.5°
Duration = 02m40.3s



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