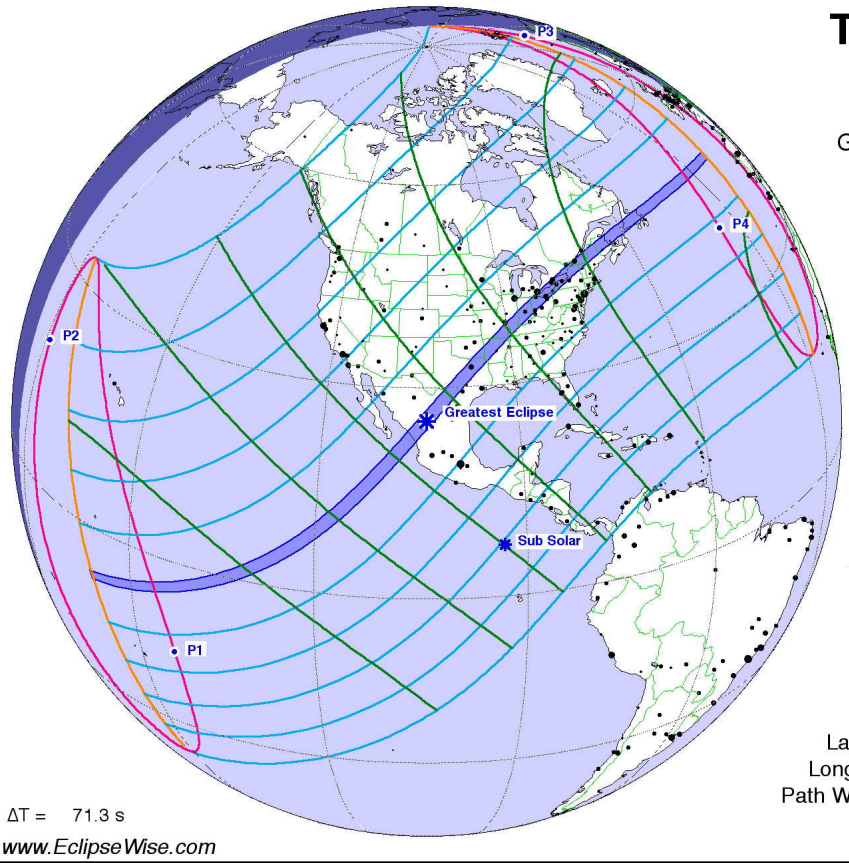

Total Solar Eclipse 2024 Apr 08

Greatest Eclipse = 18:17:18.1 UT1
Eclipse Magnitude = 1.0566
Eclipse Obscuration = 1.1163
Gamma = 0.3431
Saros = 139 [30 of 71]
Ascending Node

Geocentric Coordinates at Greatest Eclipse

Sun	Moon
R.A. = 01h11m36.9s	R.A. = 01h10m57.5s
Dec. = +07°35'29.4"	Dec. = +07°53'55.5"
S.D. = 00°15'58.2"	S.D. = 00°16'36.3"
H.P. = 00°00'08.8"	H.P. = 01°00'56.6"

External/Internal Contacts of Penumbra	External/Internal Contacts of Umbra
P1 = 15:42:12.0 UT1	U1 = 16:38:49.5 UT1
P2 = 17:44:57.9 UT1	U2 = 16:41:06.8 UT1
P3 = 18:49:12.6 UT1	U3 = 19:53:19.1 UT1
P4 = 20:52:19.1 UT1	U4 = 19:55:34.4 UT1

Circumstances at Greatest Eclipse

Lat. = 25°17.4'N	Sun Alt. = 69.8°
Long. = 104°08.4'W	Sun Azm. = 149.4°
Path Width = 197.5 km	Duration = 04m28.1s

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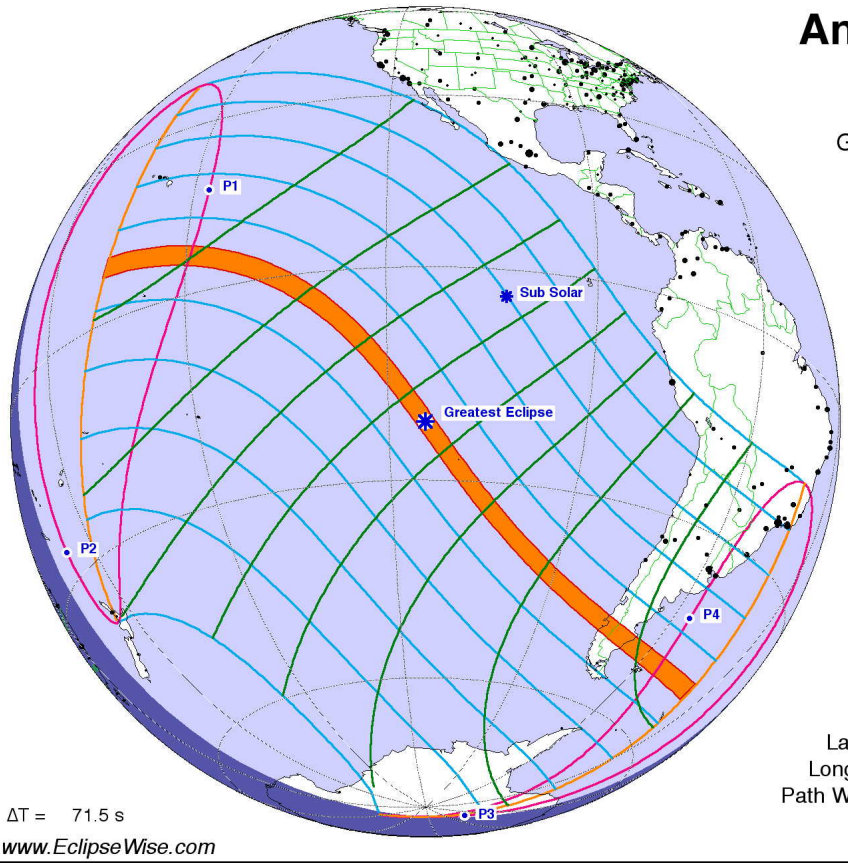

Annular Solar Eclipse 2024 Oct 02

Greatest Eclipse = 18:45:01.8 UT1
Eclipse Magnitude = 0.9326
Eclipse Obscuration = 0.8698
Gamma = -0.3509
Saros = 144 [17 of 70]
Decending Node

Geocentric Coordinates at Greatest Eclipse

Sun	Moon
R.A. = 12h36m58.9s	R.A. = 12h36m22.3s
Dec. = -03°59'03.9"	Dec. = -04°15'35.4"
S.D. = 00°15'58.9"	S.D. = 00°14'41.8"
H.P. = 00°00'08.8"	H.P. = 00°53'56.4"

External/Internal Contacts of Penumbra	External/Internal Contacts of Umbra
P1 = 15:42:56.6 UT1	U1 = 16:50:34.4 UT1
P2 = 18:15:39.7 UT1	U2 = 16:56:41.0 UT1
P3 = 19:13:50.6 UT1	U3 = 20:33:08.0 UT1
P4 = 21:46:58.2 UT1	U4 = 20:39:15.5 UT1

Circumstances at Greatest Eclipse

Lat. = 21°57.2'S	Sun Alt. = 69.3°
Long. = 114°30.5'W	Sun Azm. = 31.1°
Path Width = 266.5 km	Duration = 07m25.1s

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