

Annular Solar Eclipse of 2019 Dec 26

Greatest Eclipse = 05:18:53.1 TD (= 05:17:43.3 UT1)

Eclipse Magnitude = 0.9701
Gamma = 0.4135

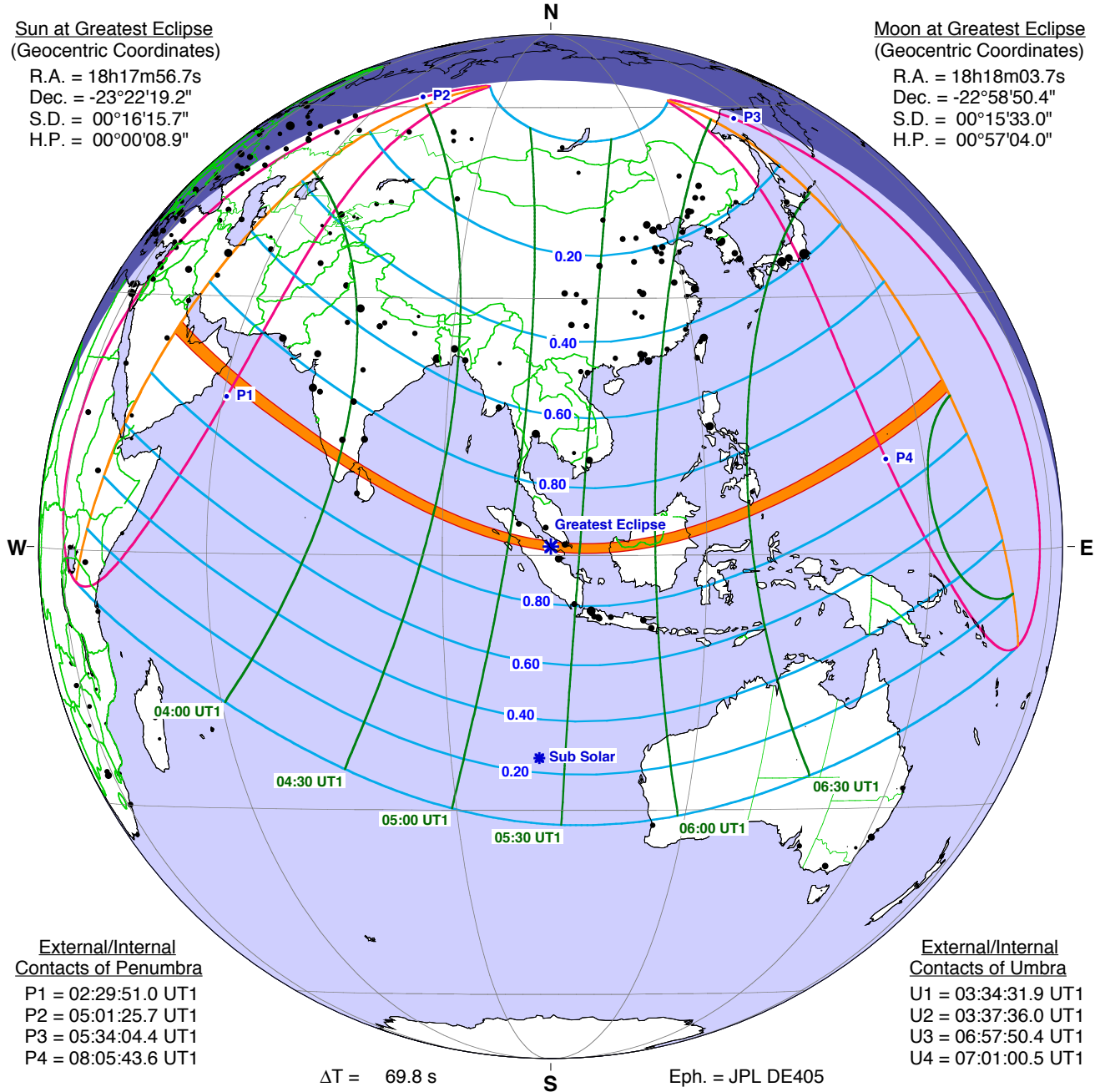
Saros Series = 132
Saros Member = 46 of 71

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 18h17m56.7s
Dec. = -23°22'19.2"
S.D. = 00°16'15.7"
H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 18h18m03.7s
Dec. = -22°58'50.4"
S.D. = 00°15'33.0"
H.P. = 00°57'04.0"



External/Internal
Contacts of Penumbra

P1 = 02:29:51.0 UT1
P2 = 05:01:25.7 UT1
P3 = 05:34:04.4 UT1
P4 = 08:05:43.6 UT1

External/Internal
Contacts of Umbra

U1 = 03:34:31.9 UT1
U2 = 03:37:36.0 UT1
U3 = 06:57:50.4 UT1
U4 = 07:01:00.5 UT1

$\Delta T = 69.8$ s

S

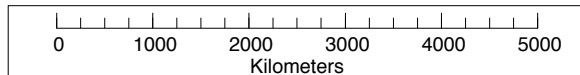
Eph. = JPL DE405

Circumstances at Greatest Eclipse: 05:17:43.3 UT1

Lat. = 01°00.5'N Sun Alt. = 65.6°
Long. = 102°14.9'E Sun Azm. = 183.6°
Path Width = 117.9 km Duration = 03m39.5s

Circumstances at Greatest Duration: 05:28:29.5 UT1

Lat. = 00°46.7'N Sun Alt. = 64.9°
Long. = 105°05.1'E Sun Azm. = 195.6°
Path Width = 118.6 km Duration = 03m40.0s



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