

Total Solar Eclipse of 2028 Jul 22

Greatest Eclipse = 02:56:39.6 TD (= 02:55:26.4 UT1)

Eclipse Magnitude = 1.0560
Gamma = -0.6056

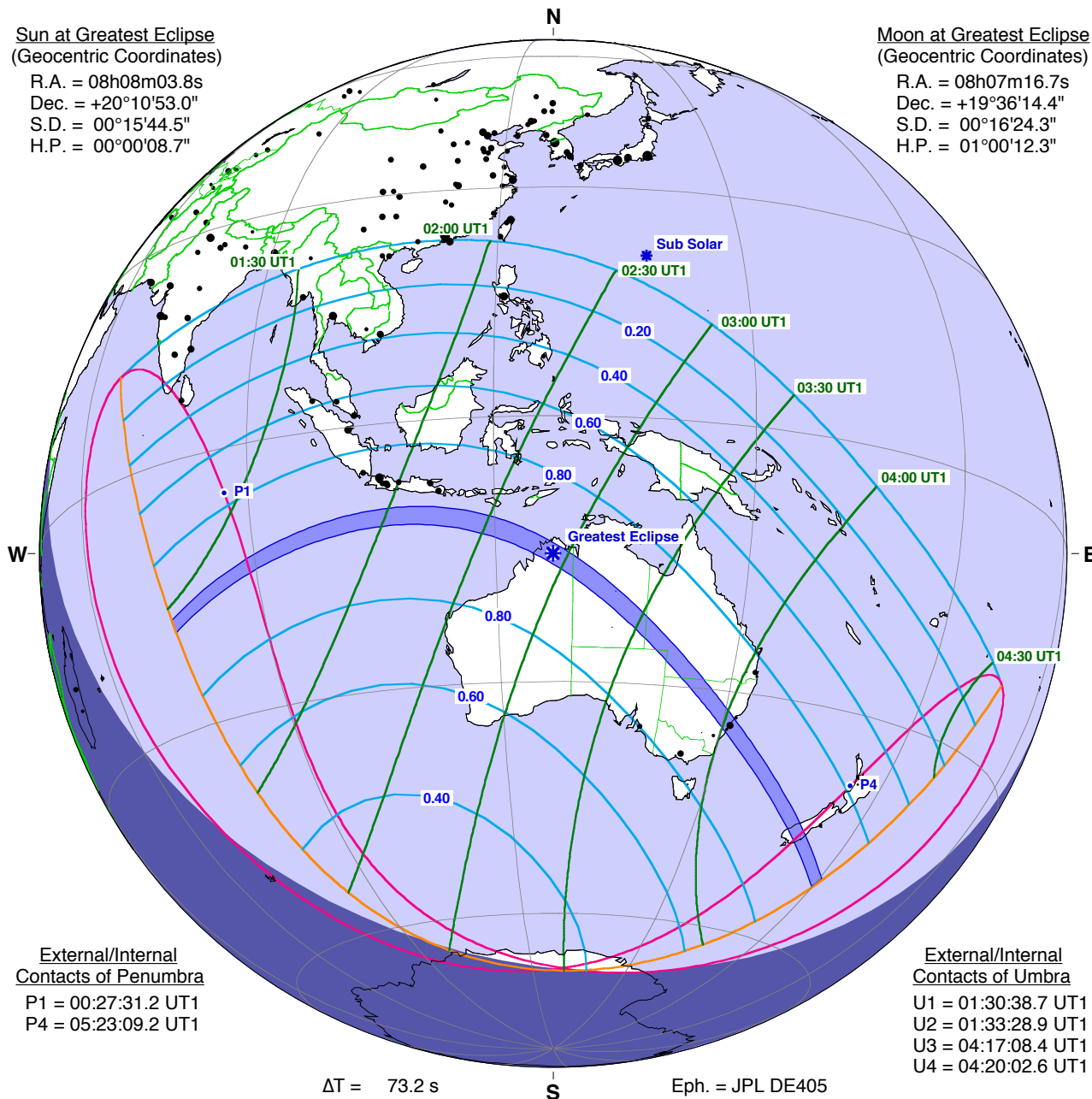
Saros Series = 146
Saros Member = 28 of 76

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 08h08m03.8s
Dec. = +20°10'53.0"
S.D. = 00°15'44.5"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 08h07m16.7s
Dec. = +19°36'14.4"
S.D. = 00°16'24.3"
H.P. = 01°00'12.3"



External/Internal
Contacts of Penumbra

P1 = 00:27:31.2 UT1
P4 = 05:23:09.2 UT1

External/Internal
Contacts of Umbra

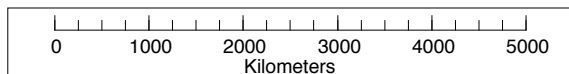
U1 = 01:30:38.7 UT1
U2 = 01:33:28.9 UT1
U3 = 04:17:08.4 UT1
U4 = 04:20:02.6 UT1

Circumstances at Greatest Eclipse: 02:55:26.4 UT1

Lat. = 15°34.7'S Sun Alt. = 52.6°
Long. = 126°42.4'E Sun Azm. = 17.2°
Path Width = 230.2 km Duration = 05m09.7s

Circumstances at Greatest Duration: 02:52:17.7 UT1

Lat. = 15°04.6'S Sun Alt. = 52.6°
Long. = 125°47.3'E Sun Azm. = 19.9°
Path Width = 231.4 km Duration = 05m09.9s



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