

Total Solar Eclipse of 2019 Jul 02

Greatest Eclipse = 19:24:07.5 TD (= 19:22:57.9 UT1)

Eclipse Magnitude = 1.0459
Gamma = -0.6466

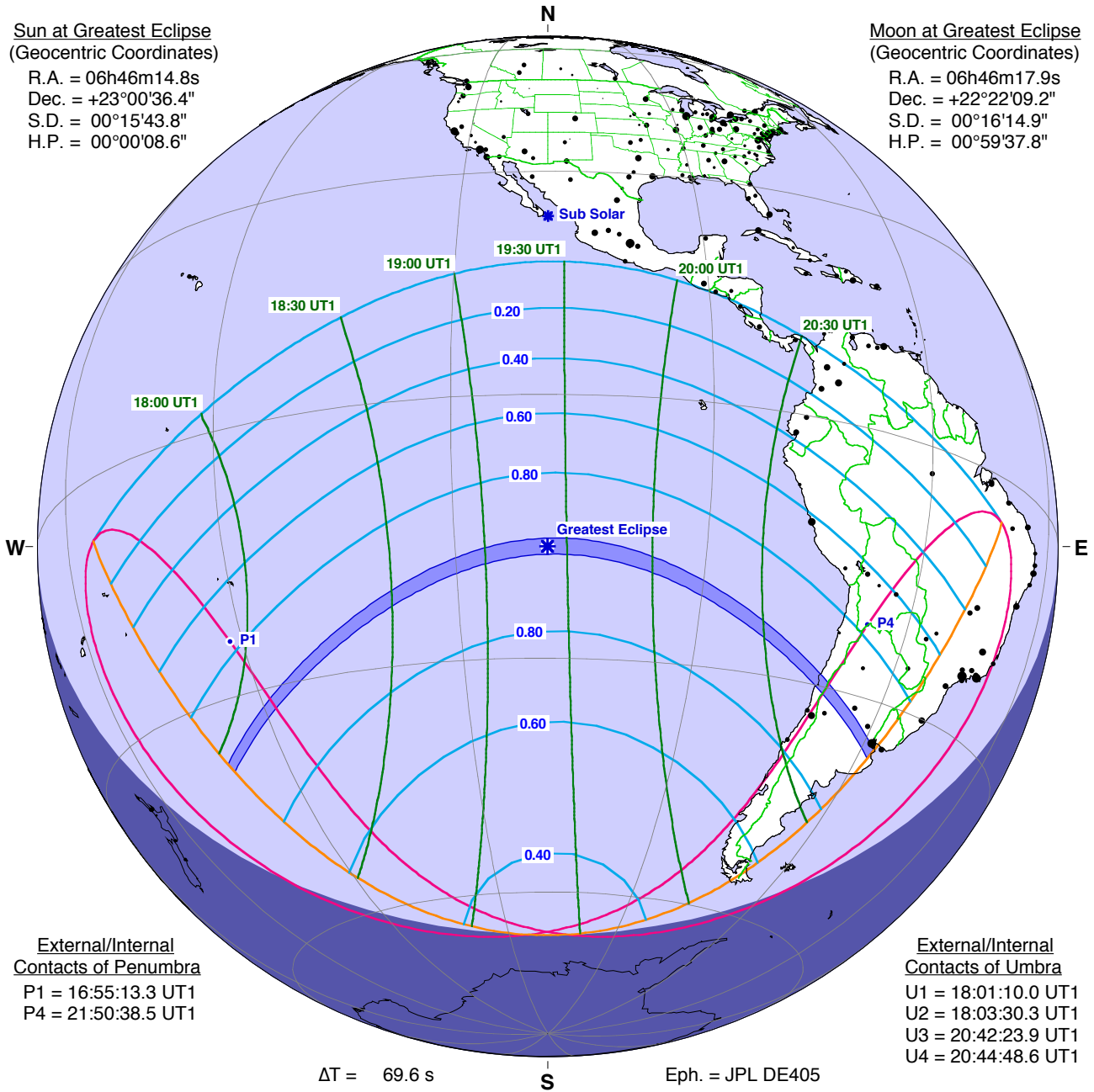
Saros Series = 127
Saros Member = 58 of 82

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 06h46m14.8s
Dec. = +23°00'36.4"
S.D. = 00°15'43.8"
H.P. = 00°00'08.6"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 06h46m17.9s
Dec. = +22°22'09.2"
S.D. = 00°16'14.9"
H.P. = 00°59'37.8"



External/Internal
Contacts of Penumbra
P1 = 16:55:13.3 UT1
P4 = 21:50:38.5 UT1

External/Internal
Contacts of Umbra
U1 = 18:01:10.0 UT1
U2 = 18:03:30.3 UT1
U3 = 20:42:23.9 UT1
U4 = 20:44:48.6 UT1

$\Delta T = 69.6 \text{ s}$

S

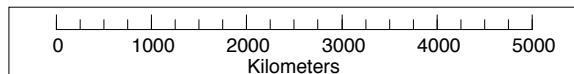
Eph. = JPL DE405

Circumstances at Greatest Eclipse: 19:22:57.9 UT1

Lat. = 17°23.3'S Sun Alt. = 49.6°
Long. = 108°59.9'W Sun Azm. = 359.0°
Path Width = 200.6 km Duration = 04m32.8s

Circumstances at Greatest Duration: 19:24:09.3 UT1

Lat. = 17°22.8'S Sun Alt. = 49.6°
Long. = 108°37.3'W Sun Azm. = 358.0°
Path Width = 200.7 km Duration = 04m32.8s



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