

ECLIPSES DURING 2023

By Fred Espenak

Figure 4

Annular Solar Eclipse of 2023 Oct 14

Greatest Eclipse = 18:00:40.6 TT (= 17:59:31.4 UTC)

Eclipse Magnitude = 0.9520

Saros Series = 134

Gamma = 0.3753

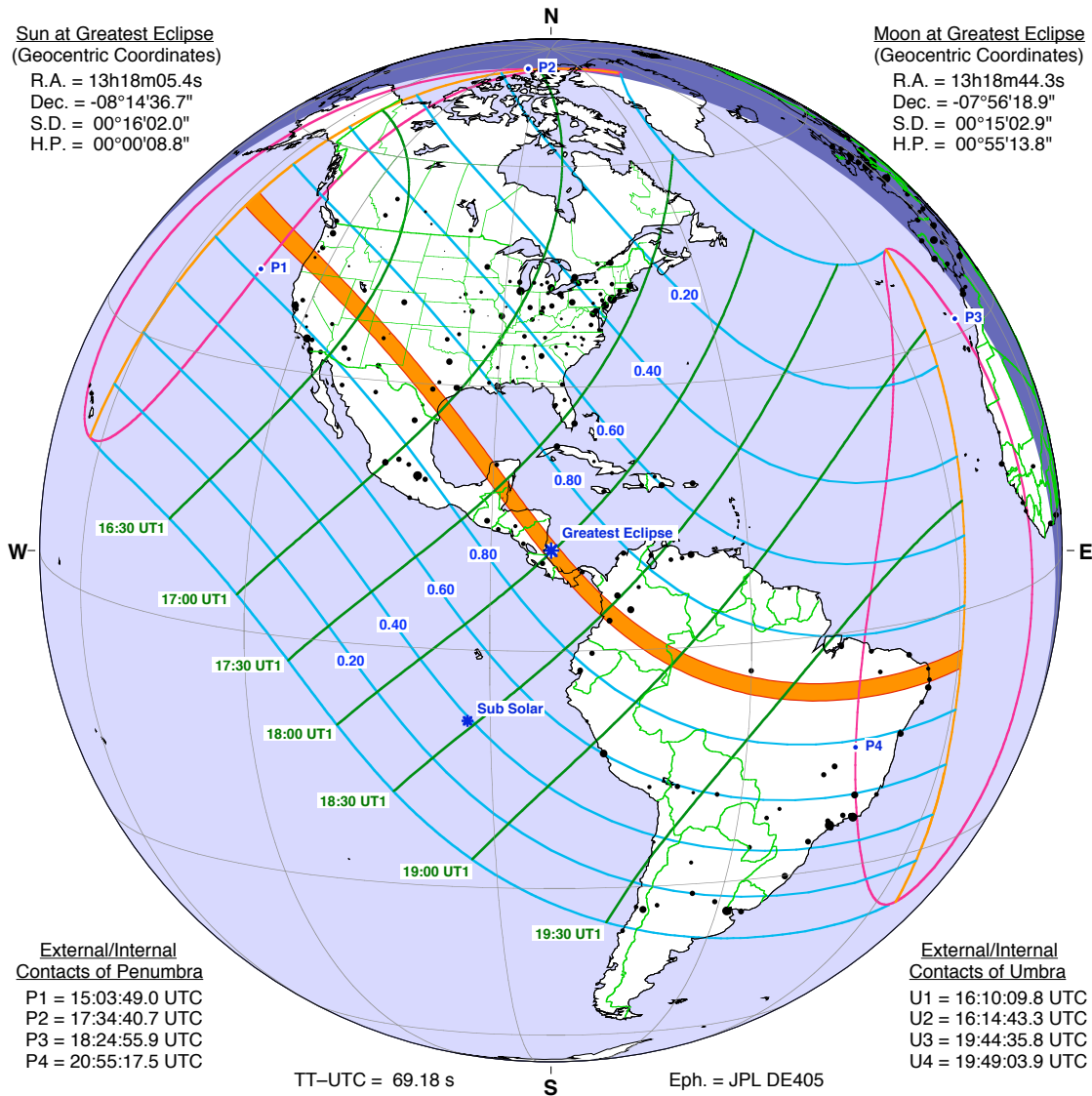
Saros Member = 44 of 71

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 13h18m05.4s
Dec. = -08°14'36.7"
S.D. = 00°16'02.0"
H.P. = 00°00'08.8"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 13h18m44.3s
Dec. = -07°56'18.9"
S.D. = 00°15'02.9"
H.P. = 00°55'13.8"



Circumstances at Greatest Eclipse: 17:59:31.4 UTC

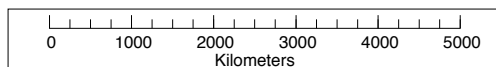
Lat. = 11°22.1'N
Long. = 083°06.1'W
Path Width = 187.4 km

Sun Alt. = 67.9°
Sun Azm. = 208.0°
Duration = 05m17.2s

Circumstances at Greatest Duration: 18:13:11.0 UTC

Lat. = 08°14.6'N
Long. = 080°24.1'W
Path Width = 191.1 km

Sun Alt. = 66.8°
Sun Azm. = 225.1°
Duration = 05m17.8s



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Adapted from *21st Century Canon of Solar Eclipses*, Fred Espenak, 2016.