

# ECLIPSES DURING 2023

By Fred Espenak

Figure 3

## Penumbral Lunar Eclipse of 2023 May 05

Greatest Eclipse = 17:24:04.3 TT (= 17:22:55.2 UTC)

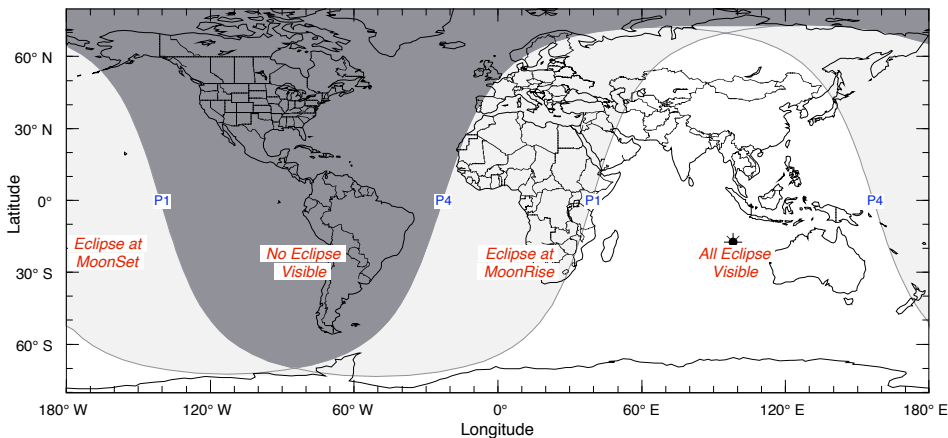
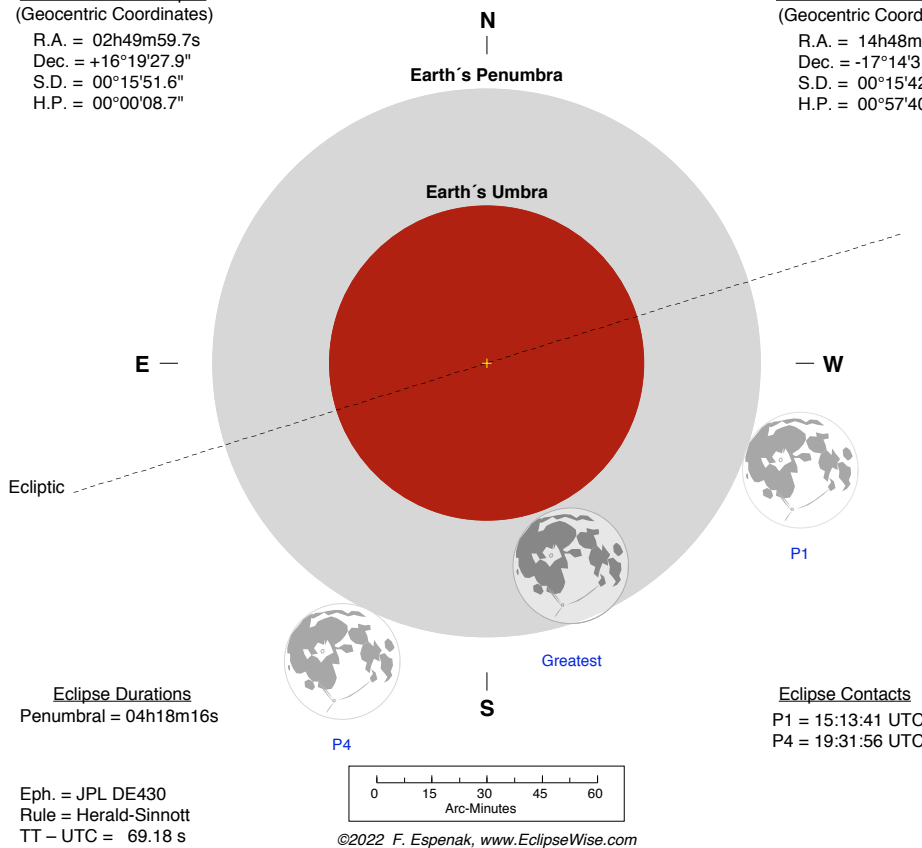
Penumbral Magnitude = 0.9655      Gamma = -1.0350      Saros Series = 141  
 Umbral Magnitude = -0.0438      Axis = 0.9946°      Saros Member = 24 of 72

Sun at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 02h49m59.7s  
 Dec. = +16°19'27.9"  
 S.D. = 00°15'51.6"  
 H.P. = 00°00'08.7"

Moon at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 14h48m23.5s  
 Dec. = -17°14'31.7"  
 S.D. = 00°15'42.8"  
 H.P. = 00°57'40.1"



Adapted from *21st Century Canon of Lunar Eclipses*, Fred Espenak, 2020.