## ECLIPSES DURING 2023

## By Fred Espenak

Figure 1

## Hybrid Solar Eclipse of 2023 Apr 20

Greatest Eclipse $=$ 04:17:56.0 TT (= 04:16:46.8 UTC)<br>Eclipse Magnitude $=1.0132 \quad$ Saros Series $=129$<br>Gamma $=-0.3952$<br>Saros Member $=52$ of 80



Circumstances at Greatest Eclipse: 04:16:46.8 UTC

Lat. $=09^{\circ} 35.7^{\prime} \mathrm{S}$
Long. $=125^{\circ} 46.8^{\prime} \mathrm{E}$
Path Width $=49.0 \mathrm{~km}$

Sun Alt. $=66.7^{\circ}$
Sun Azm. $=334.0^{\circ}$
Duration $=01 \mathrm{~m} 16.1 \mathrm{~s}$

Circumstances at Greatest Duration: 04:16:16.3 UTC

Sun Alt. $=66.7^{\circ}$
Sun Azm. $=334.6^{\circ}$
Duration $=01 \mathrm{~m} 16.1 \mathrm{~s}$
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