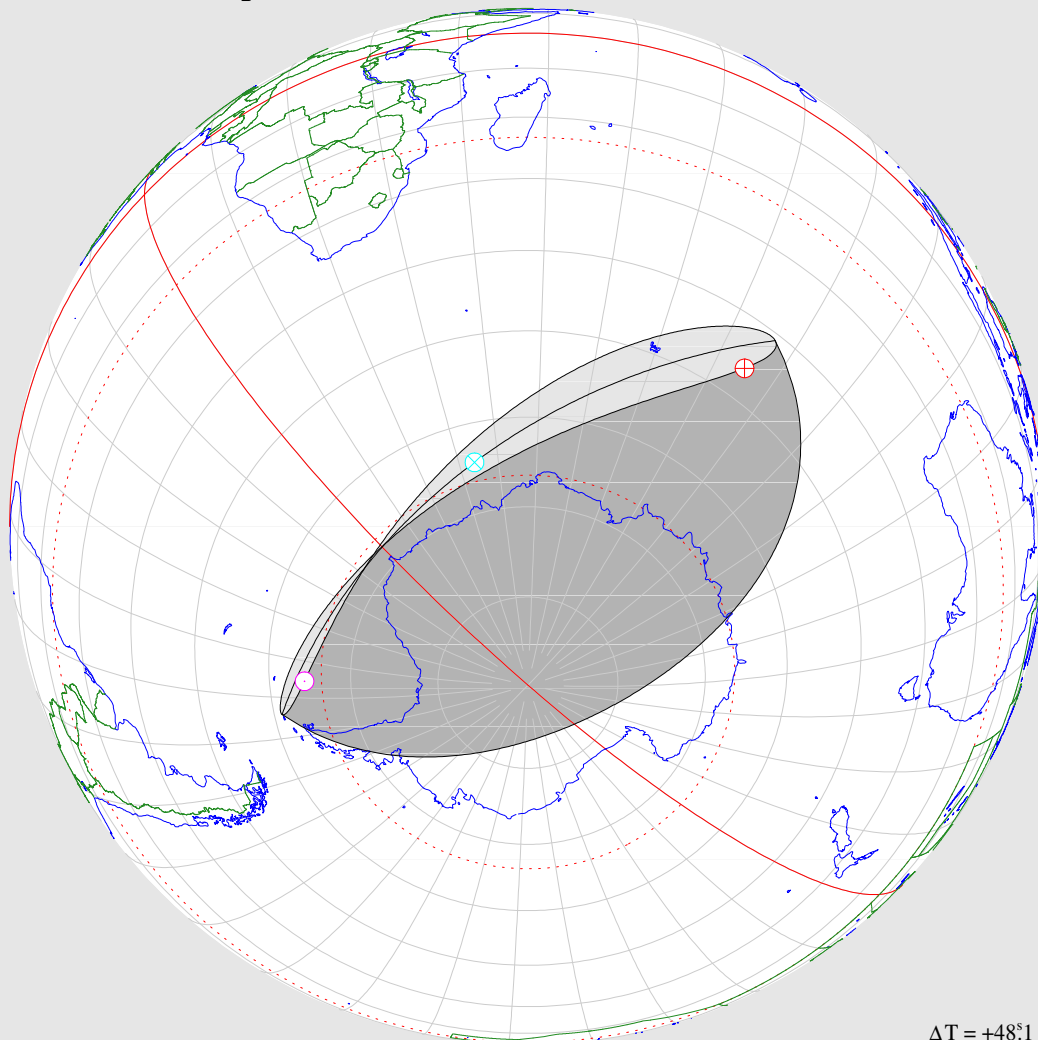


VI. - Partial Eclipse of the Sun

1649 December 03-04



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$\Delta T = +48^s.1$
Globe centred on E 47°7' and S 72°2'

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	22 30.5	E 84 48.4	S 46 09.7
Beginning of northern limit of penumbra	22 40.5	E 86 48.8	S 40 51.5
⊗ Greatest eclipse (magnitude = 0.2896)	23 39.8	E 33 53.7	S 64 23.4
End of northern limit of penumbra	0 38.8	W 54 11.9	S 61 00.2
○ Eclipse ends; last contact with Earth	0 48.9	W 45 26.8	S 64 25.3