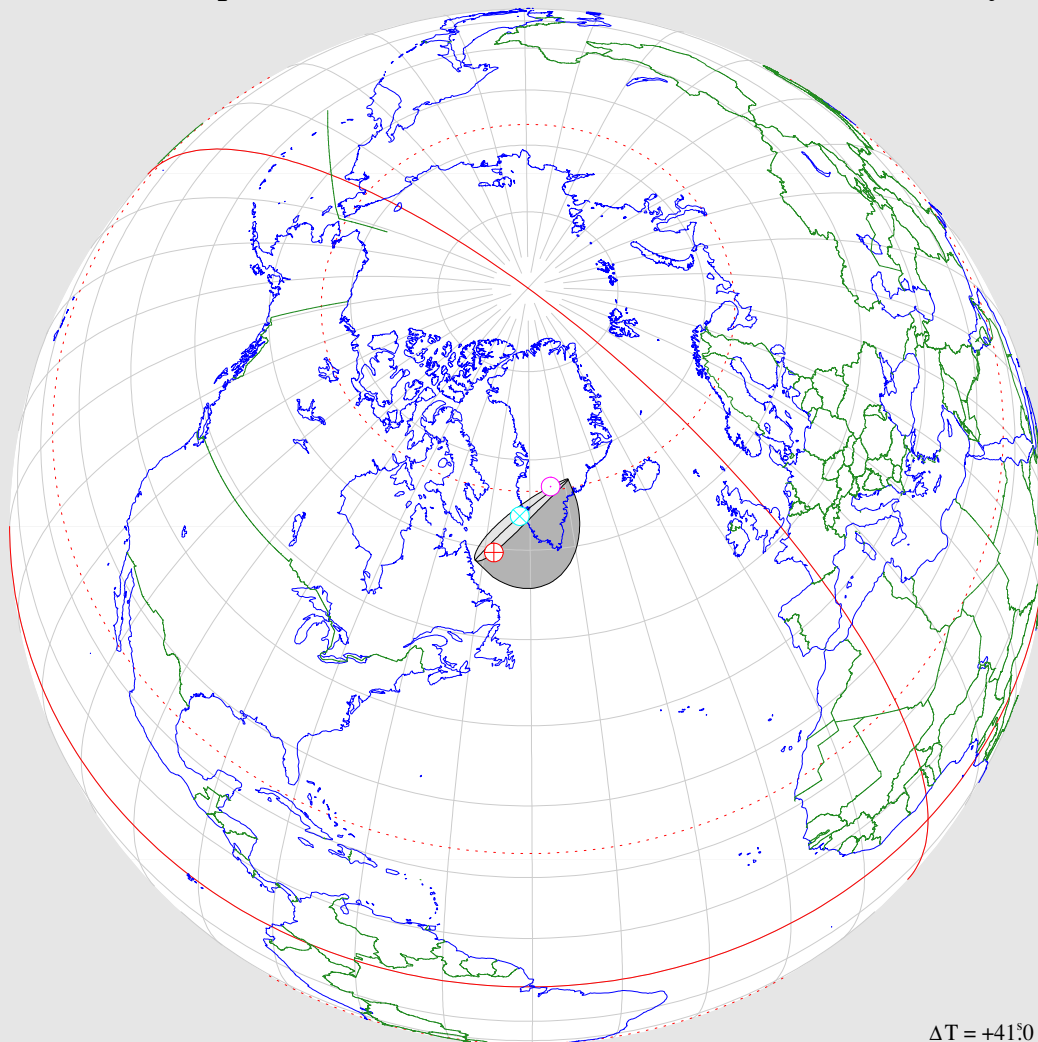


I. - Partial Eclipse of the Sun

1657 January 14



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$\Delta T = +41^s 0$
Globe centred on W 50°5 and N 62°6

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	12 46.7	W 57 56.9	N 59 31.5
Beginning of southern limit of penumbra	12 53.1	W 61 41.7	N 58 23.9
⊗ Greatest eclipse (magnitude = 0.0173)	13 07.5	W 52 32.6	N 63 45.0
End of southern limit of penumbra	13 21.5	W 38 51.5	N 67 27.6
○ Eclipse ends; last contact with Earth	13 28.0	W 44 06.3	N 66 54.8