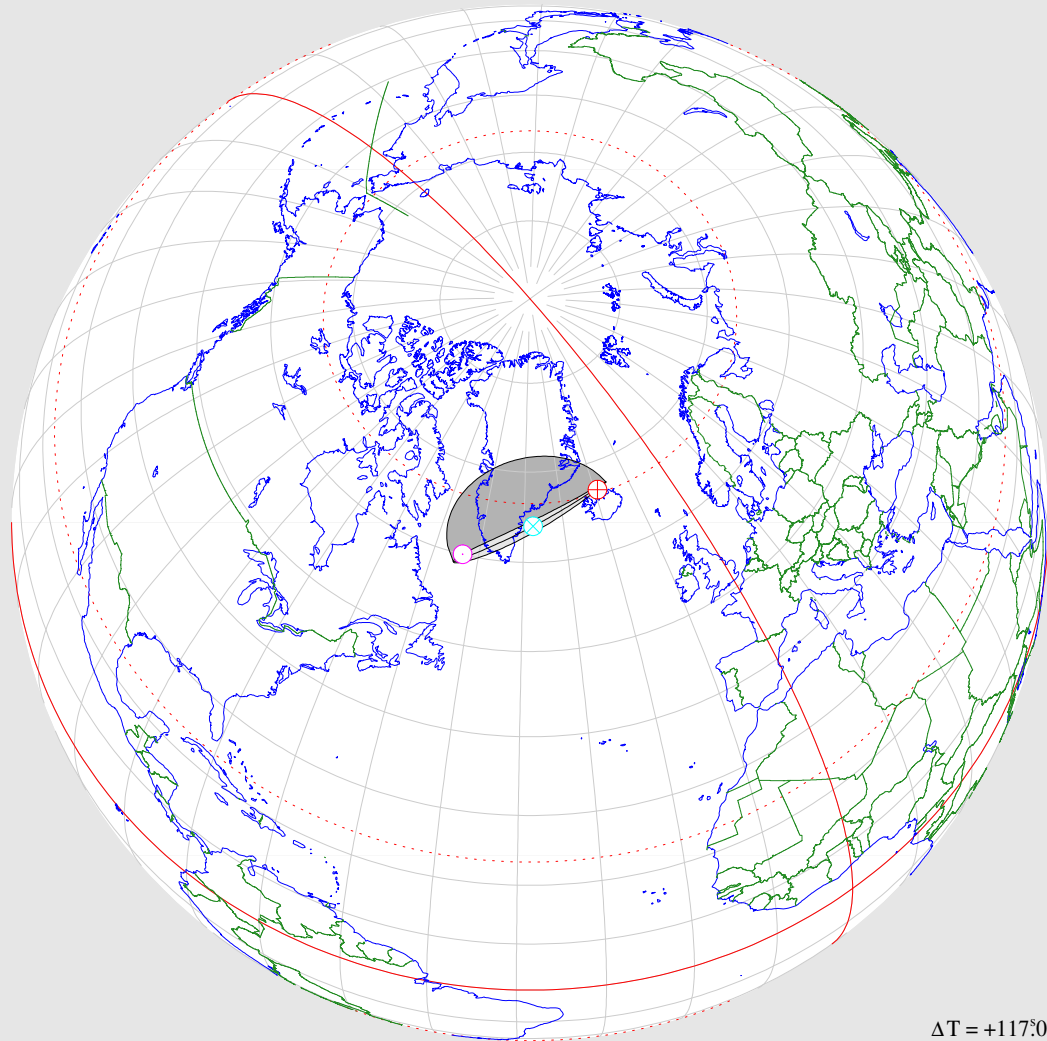


III. - Partial Eclipse of the Sun

2083 July 14-15



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$\Delta T = +117^{\circ}0$
Globe centred on W 38°5 and N 64°4

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	23 52.5	W 19 06.1	N66 54.1
Beginning of southern limit of penumbra	23 55.2	W 16 05.8	N67 24.0
⊗ Greatest eclipse (magnitude = 0.0170)	0 12.4	W 37 42.5	N63 59.8
End of southern limit of penumbra	0 30.0	W 55 07.9	N58 55.8
○ Eclipse ends; last contact with Earth	0 32.6	W 53 34.0	N60 01.0