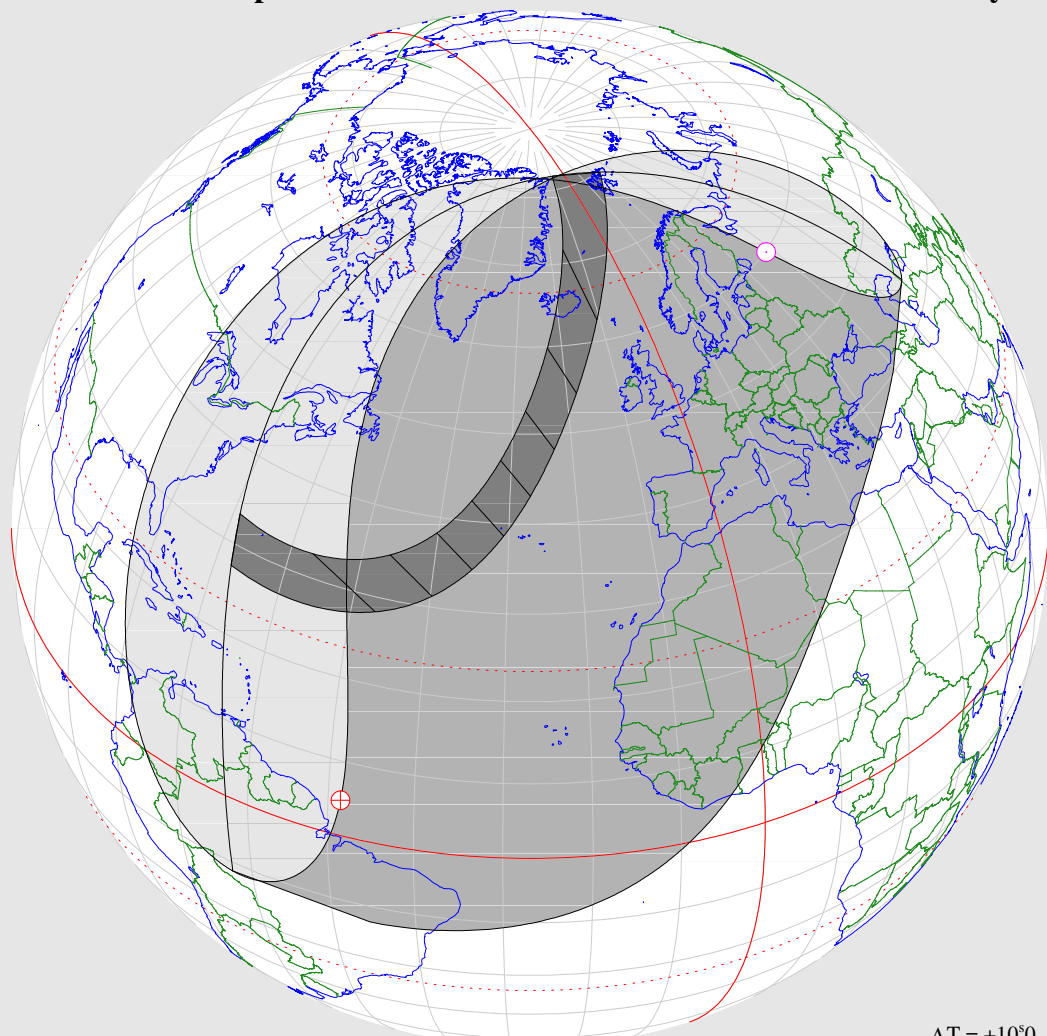


II. - Annular Eclipse of the Sun

1710 February 28



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$\Delta T = +10^{\circ}0$
Globe centred on W 27°0 and N 39°5

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	9 29.9	W 48 31.2	N 4 52.3
Beginning of southern limit of penumbra	10 17.7	W 62 49.6	S 11 35.5
Beginning of southern limit of umbra	11 00.3	W 67 34.9	N 27 36.5
Beginning of centre line; central eclipse begins	11 04.9	W 68 14.9	N 30 20.7
Beginning of northern limit of umbra	11 10.2	W 68 59.2	N 33 18.8
Central eclipse at local apparent noon	13 00.8	W 11 57.3	N 66 59.7
End of northern limit of umbra	13 03.8	W 9 07.2	N 81 59.9
End of centre line; central eclipse ends	13 09.1	E 9 43.9	N 81 17.2
End of southern limit of umbra	13 13.8	E 23 06.3	N 79 52.1
End of southern limit of penumbra	13 56.7	E 56 22.1	N 43 46.8
⊙ Eclipse ends; last contact with Earth	14 44.3	E 38 13.2	N 59 52.3