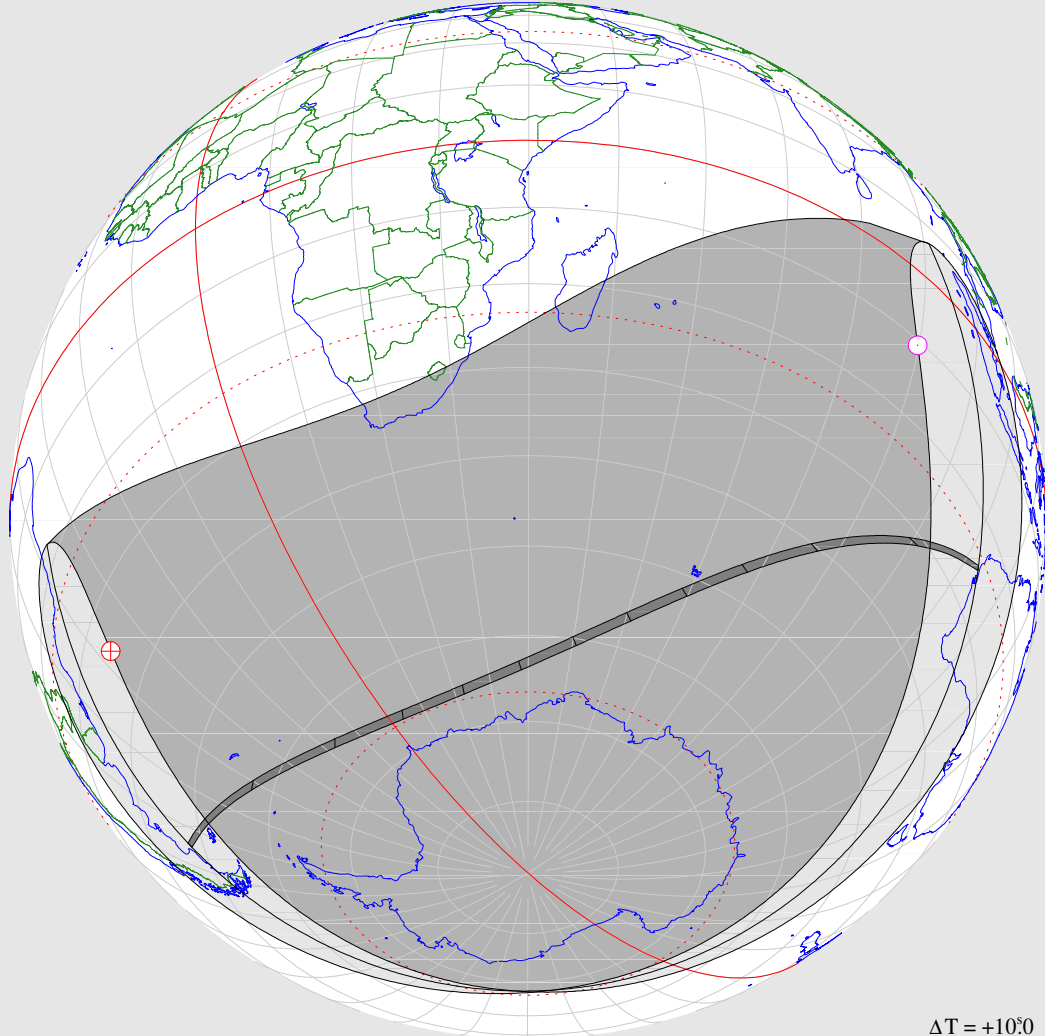


# I. - Total Eclipse of the Sun

1712 January 08



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$\Delta T = +10^{\text{s}}$   
Globe centred on E 39°9' and S 47°2'

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	7 31.5	W 37 28.8	S 34 24.3
Beginning of northern limit of penumbra	8 04.6	W 36 54.8	S 17 38.7
Beginning of northern limit of umbra	8 37.9	W 64 18.5	S 47 26.1
Beginning of centre line; central eclipse begins	8 38.3	W 64 37.3	S 47 39.4
Beginning of southern limit of umbra	8 38.6	W 64 56.3	S 47 52.7
Central eclipse at local apparent noon	9 43.0	E 36 01.5	S 63 44.7
End of southern limit of umbra	11 18.5	E 113 12.8	S 25 02.3
End of centre line; central eclipse ends	11 18.9	E 113 00.6	S 24 48.5
End of northern limit of umbra	11 19.2	E 112 48.6	S 24 34.8
End of northern limit of penumbra	11 52.4	E 91 00.6	N 6 29.2
⊙ Eclipse ends; last contact with Earth	12 25.6	E 89 49.4	S 10 40.5