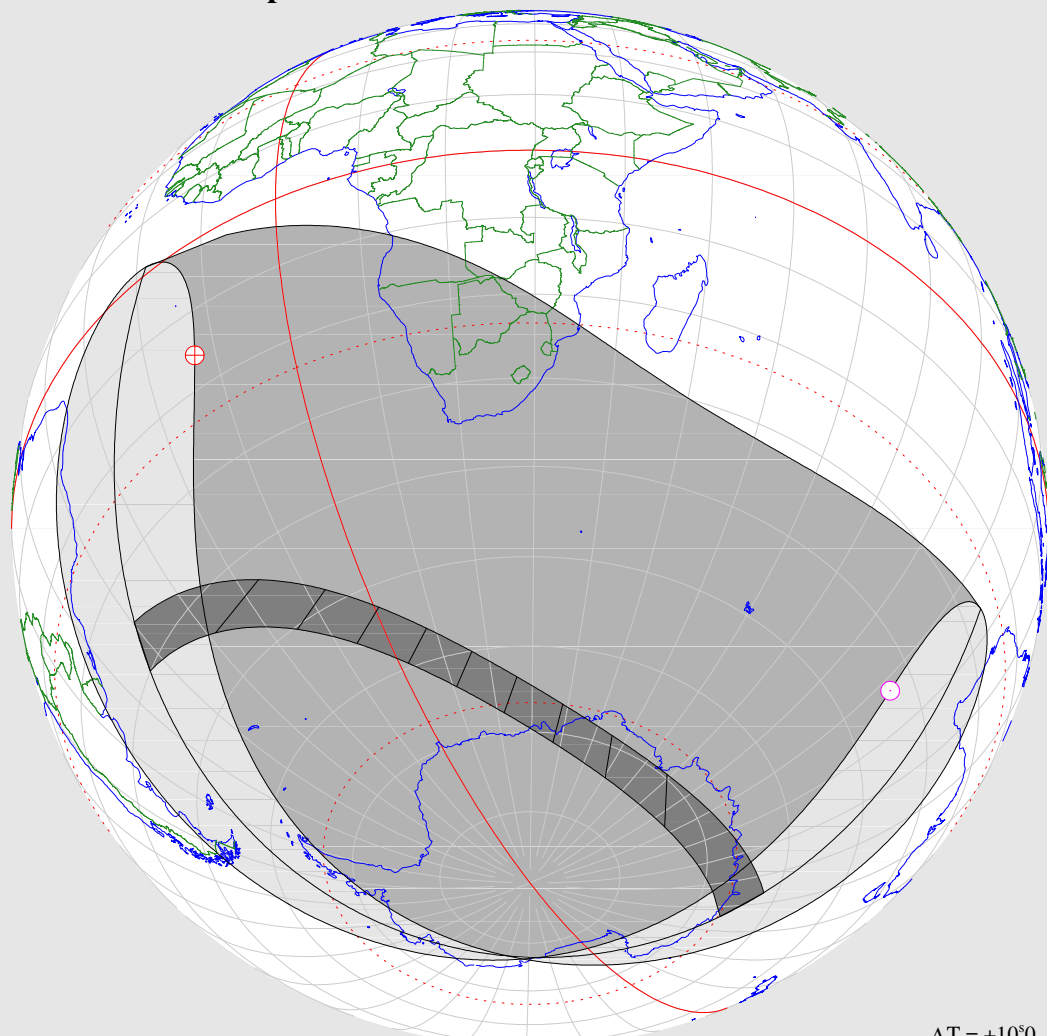


### III. - Annular Eclipse of the Sun

1715 October 27



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$\Delta T = +10^s$   
Globe centred on E 29°4' and S 46°9'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	6 21.0	W 12 49.8	S 15 46.8
Beginning of northern limit of penumbra	6 59.1	W 18 27.5	N 1 13.4
Beginning of northern limit of umbra	7 46.3	W 39 37.8	S 35 10.8
Beginning of centre line; central eclipse begins	7 50.5	W 41 28.6	S 37 30.1
Beginning of southern limit of umbra	7 54.9	W 43 30.9	S 39 57.4
Central eclipse at local apparent noon	9 26.6	E 34 23.7	S 68 00.5
End of southern limit of umbra	10 10.0	E 144 06.4	S 66 10.3
End of centre line; central eclipse ends	10 14.5	E 139 49.5	S 63 59.5
End of northern limit of umbra	10 18.6	E 136 14.1	S 61 52.8
End of northern limit of penumbra	11 06.1	E 105 58.8	S 26 37.0
⊙ Eclipse ends; last contact with Earth	11 44.1	E 102 16.5	S 43 21.1