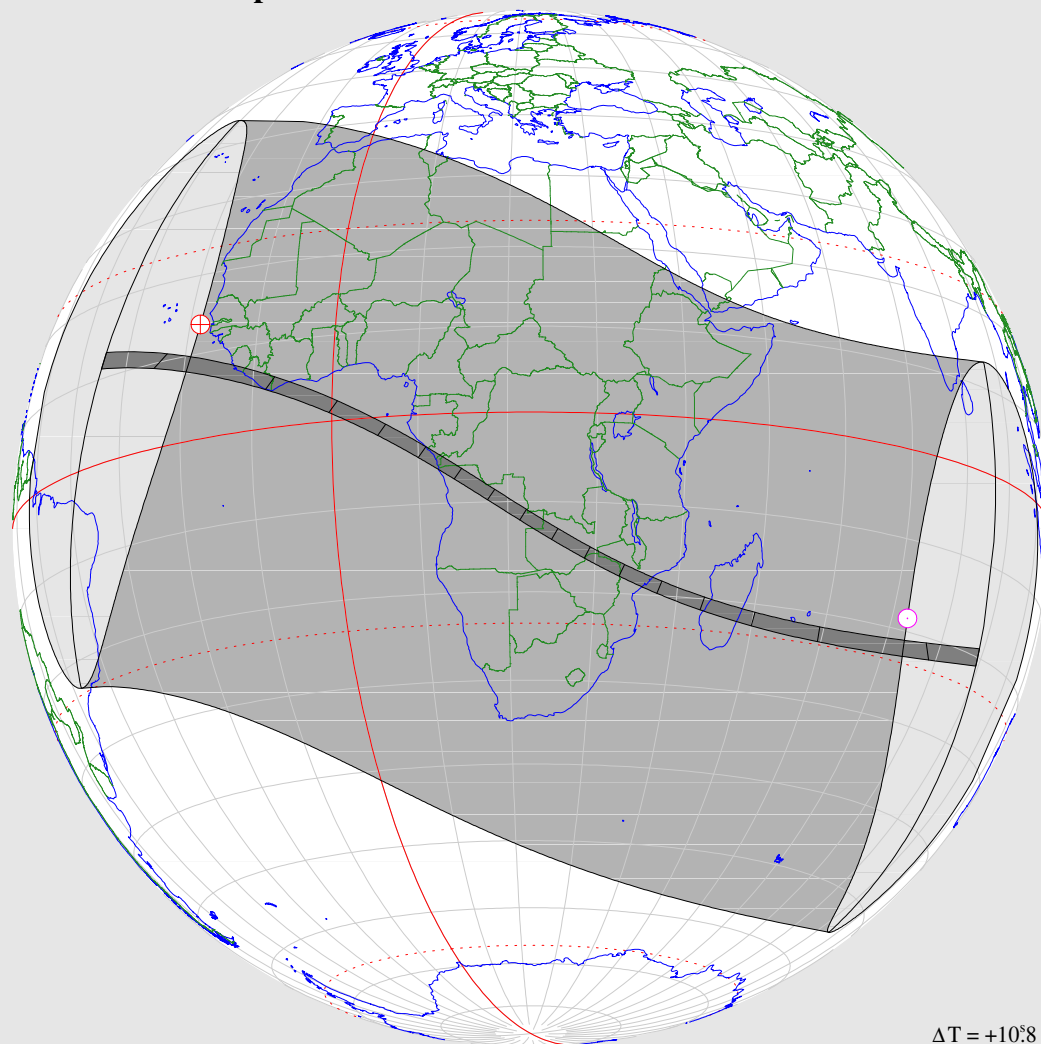


V. - Annular Eclipse of the Sun

1716 October 15



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$\Delta T = +10^s 8$
Globe centred on E 22°6' and S 13°0'

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	7 07.8	W 18 23.9	N 13 35.5
Beginning of northern limit of umbra	8 12.4	W 34 37.3	N 13 06.5
Beginning of centre line; central eclipse begins	8 12.7	W 34 50.1	N 12 10.2
Beginning of southern limit of umbra	8 13.0	W 35 03.2	N 11 13.9
Beginning of northern limit of penumbra	8 23.1	W 30 30.0	N 45 17.0
Beginning of southern limit of penumbra	8 41.8	W 47 38.3	S 22 49.8
Central eclipse at local apparent noon	10 09.7	E 24 01.5	S 12 50.3
End of southern limit of penumbra	11 32.8	E 105 39.4	S 54 38.3
End of northern limit of penumbra	11 52.1	E 86 21.4	N 13 19.5
End of southern limit of umbra	12 01.9	E 89 19.8	S 20 56.5
End of centre line; central eclipse ends	12 02.2	E 89 05.3	S 19 58.9
End of northern limit of umbra	12 02.5	E 88 51.3	S 19 01.4
⊙ Eclipse ends; last contact with Earth	13 07.1	E 72 36.7	S 18 33.7