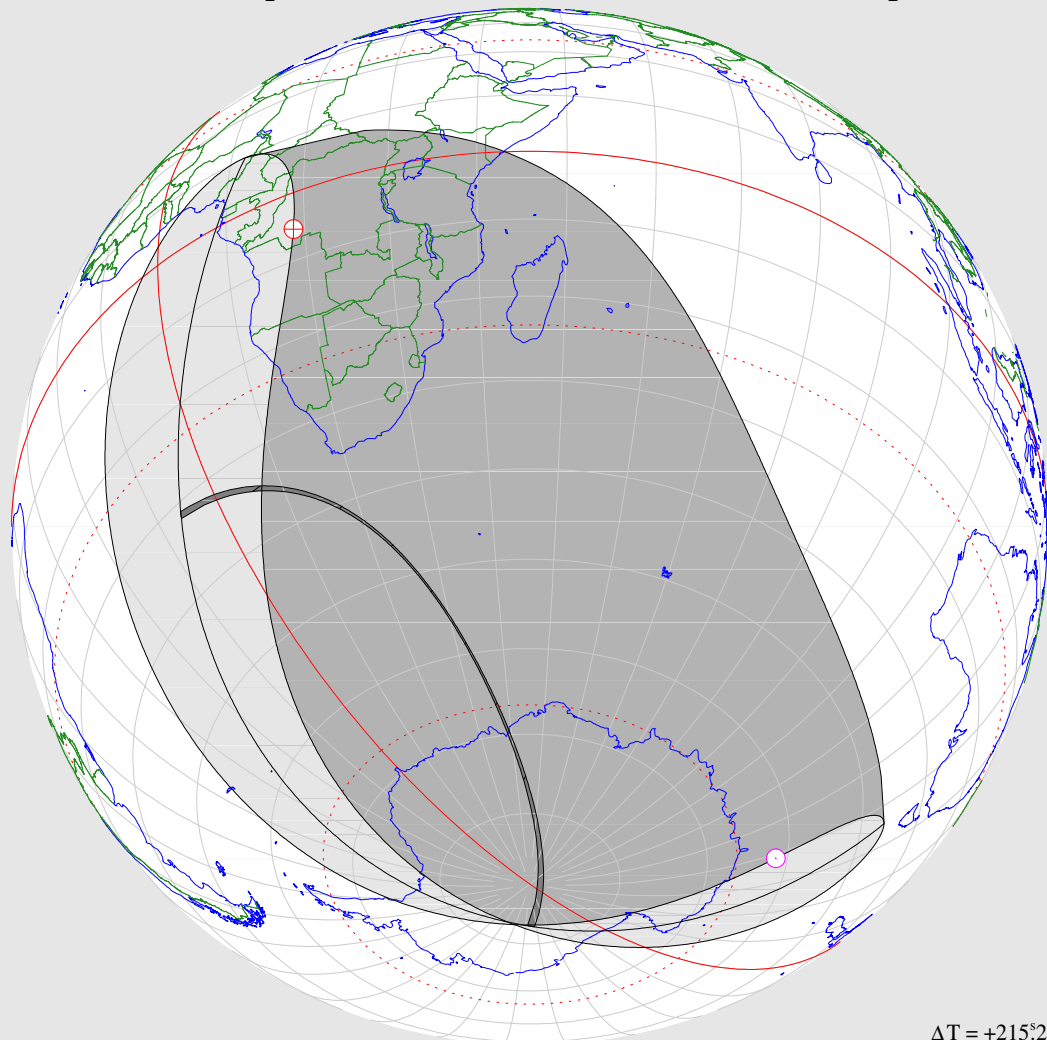


IV. - Annular Eclipse of the Sun

1540 September 30



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$\Delta T = +215^s.2$
Globe centred on E 45°9' and S 46°4'

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	4 30.2	E 18 37.2	S 5 32.1
Beginning of northern limit of penumbra	5 03.8	E 12 00.0	N 9 59.9
Beginning of northern limit of umbra	5 54.9	W 5 53.7	S 30 58.1
Beginning of centre line; central eclipse begins	5 55.5	W 6 05.7	S 31 19.0
Beginning of southern limit of umbra	5 56.1	W 6 18.0	S 31 40.1
Central eclipse at local apparent noon	7 41.1	E 61 31.2	S 85 44.4
End of southern limit of umbra	7 44.5	W131 57.5	S 83 14.2
End of centre line; central eclipse ends	7 45.1	W135 13.0	S 83 08.7
End of northern limit of umbra	7 45.7	W138 21.1	S 83 02.1
End of northern limit of penumbra	8 37.1	E 144 28.9	S 46 18.6
⊙ Eclipse ends; last contact with Earth	9 10.7	E 141 28.8	S 61 32.4