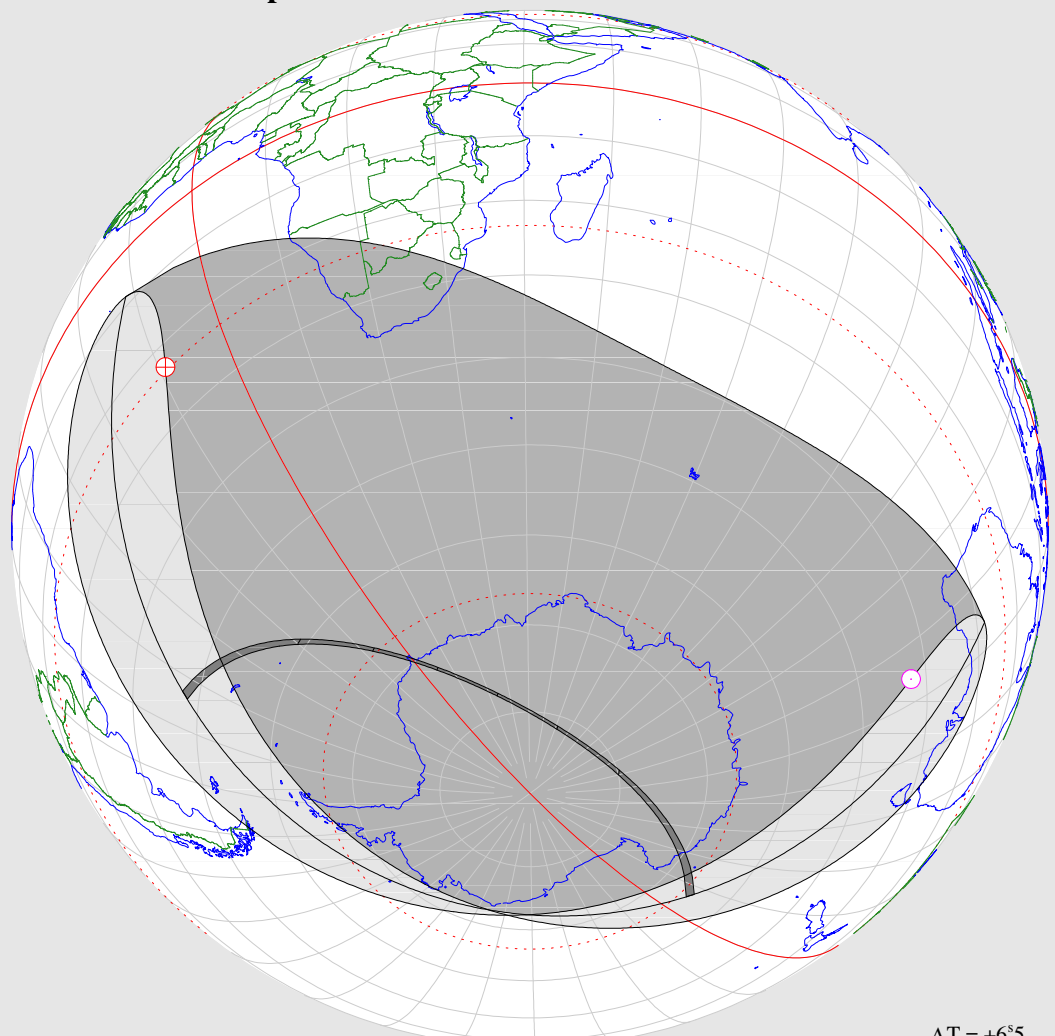


III. - Annular Eclipse of the Sun

1863 November 11



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$\Delta T = +6^s.5$
Globe centred on E 40°7' and S 59°3'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	5 50.2	W 9 06.6	S 22 57.9
Beginning of northern limit of penumbra	6 18.9	W 11 21.3	S 8 31.2
Beginning of northern limit of umbra	7 16.3	W 43 01.0	S 47 36.7
Beginning of centre line; central eclipse begins	7 17.0	W 43 29.6	S 48 00.2
Beginning of southern limit of umbra	7 17.8	W 43 58.8	S 48 24.0
Central eclipse at local apparent noon	8 26.4	E 49 26.8	S 80 43.3
End of southern limit of umbra	8 59.9	E 174 12.5	S 65 27.3
End of centre line; central eclipse ends	9 00.6	E 173 18.8	S 65 09.7
End of northern limit of umbra	9 01.3	E 172 26.8	S 64 52.2
End of northern limit of penumbra	9 58.9	E 126 02.0	S 28 21.8
⊙ Eclipse ends; last contact with Earth	10 27.4	E 125 47.6	S 42 26.4