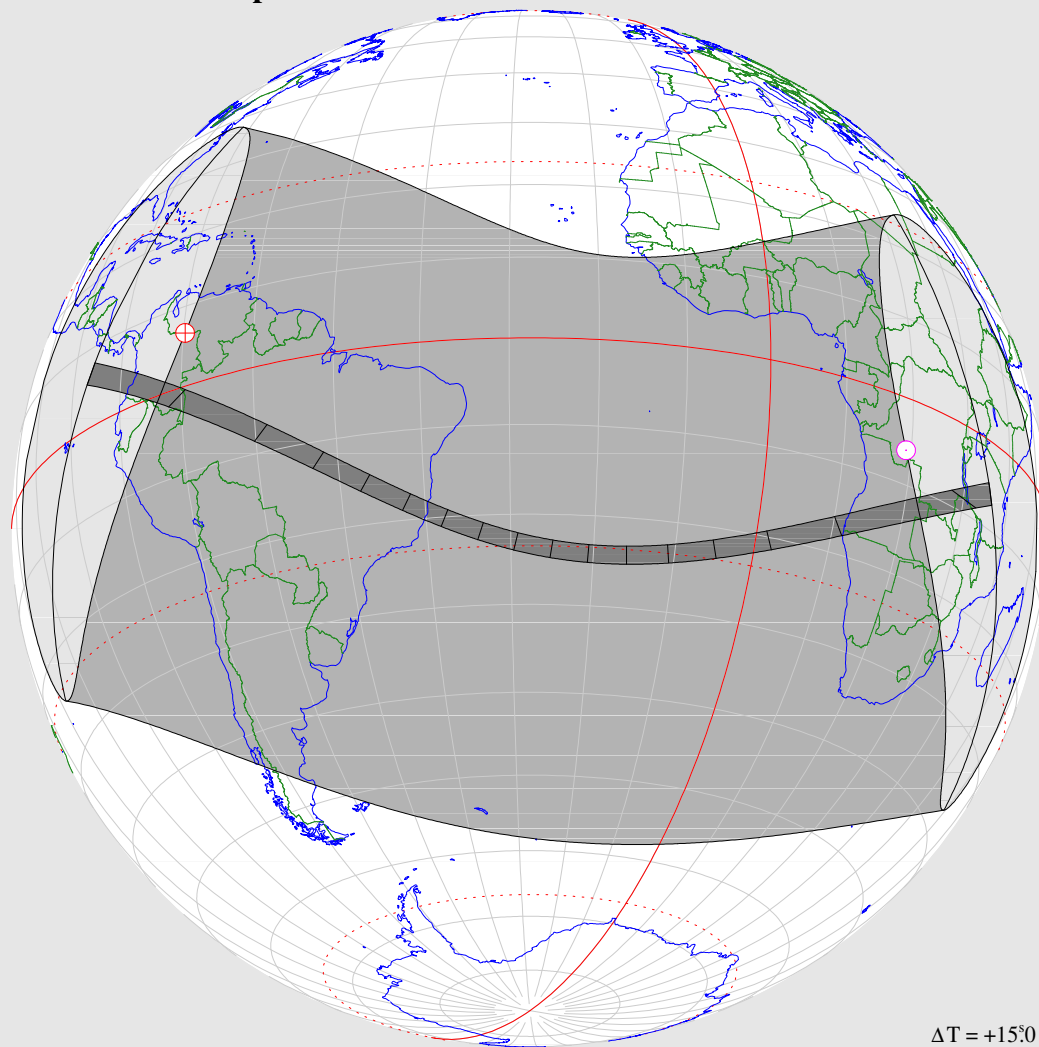


V. - Annular Eclipse of the Sun

1759 December 19



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$\Delta T = +15^s$
Globe centred on W 27°7' and S 21°6'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	10 47.9	W 69 44.6	N 6 32.8
Beginning of northern limit of umbra	11 53.4	W 85 34.3	N 7 45.6
Beginning of centre line; central eclipse begins	11 53.9	W 86 11.4	N 6 37.4
Beginning of southern limit of umbra	11 54.4	W 86 49.0	N 5 29.1
Beginning of northern limit of penumbra	12 01.9	W 71 45.3	N 37 21.1
Beginning of southern limit of penumbra	12 23.3	W 107 57.6	S 24 44.0
Central eclipse at local apparent noon	13 49.7	W 28 02.4	S 23 17.8
End of southern limit of penumbra	15 16.2	E 59 21.3	S 36 54.4
End of northern limit of penumbra	15 37.8	E 23 11.5	N 25 09.2
End of southern limit of umbra	15 45.3	E 36 12.6	S 7 09.0
End of centre line; central eclipse ends	15 45.8	E 35 35.5	S 6 01.9
End of northern limit of umbra	15 46.2	E 34 59.1	S 4 54.8
⊙ Eclipse ends; last contact with Earth	16 51.6	E 19 09.9	S 6 06.5