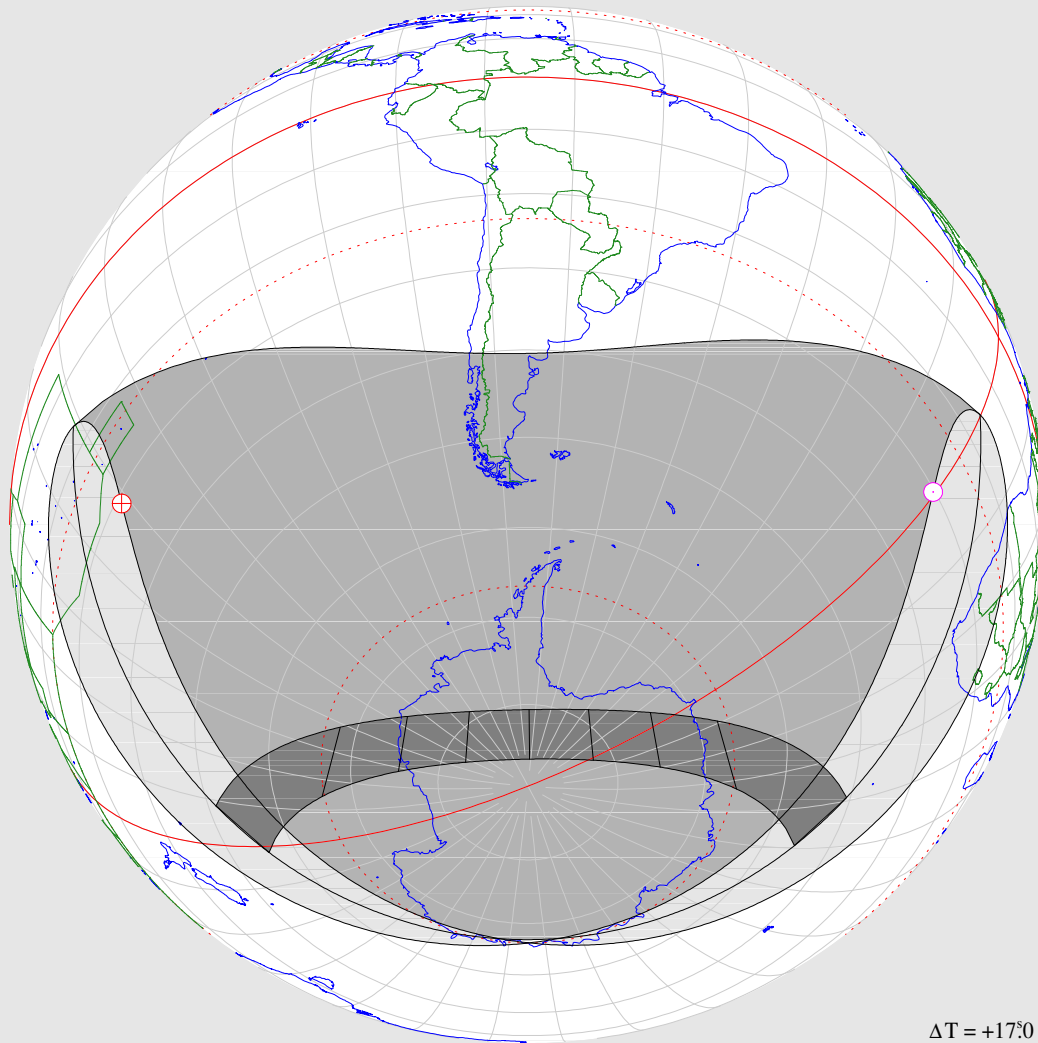


V. - Annular Eclipse of the Sun

1787 December 09



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$\Delta T = +17^{\text{s}}0$
Globe centred on W 65°2' and S 59°7'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	13	39.2	W131	16.0	S 30	57.8
Beginning of northern limit of penumbra	14	09.7	W131	26.4	S 16	35.9
Beginning of northern limit of umbra	15	10.9	W171	13.1	S 51	14.0
Beginning of centre line; central eclipse begins	15	16.7	W175	54.2	S 53	36.6
Beginning of southern limit of umbra	15	23.2	E 178	26.3	S 56	07.8
Central eclipse at local apparent noon	16	14.6	W 65	26.6	S 83	26.4
End of southern limit of umbra	17	07.4	E 49	23.1	S 55	34.3
End of centre line; central eclipse ends	17	14.0	E 43	49.5	S 53	00.9
End of northern limit of umbra	17	19.8	E 39	12.9	S 50	36.6
End of northern limit of penumbra	18	21.0	W 0	08.0	S 15	52.5
⊙ Eclipse ends; last contact with Earth	18	51.5	W 0	22.8	S 30	15.5