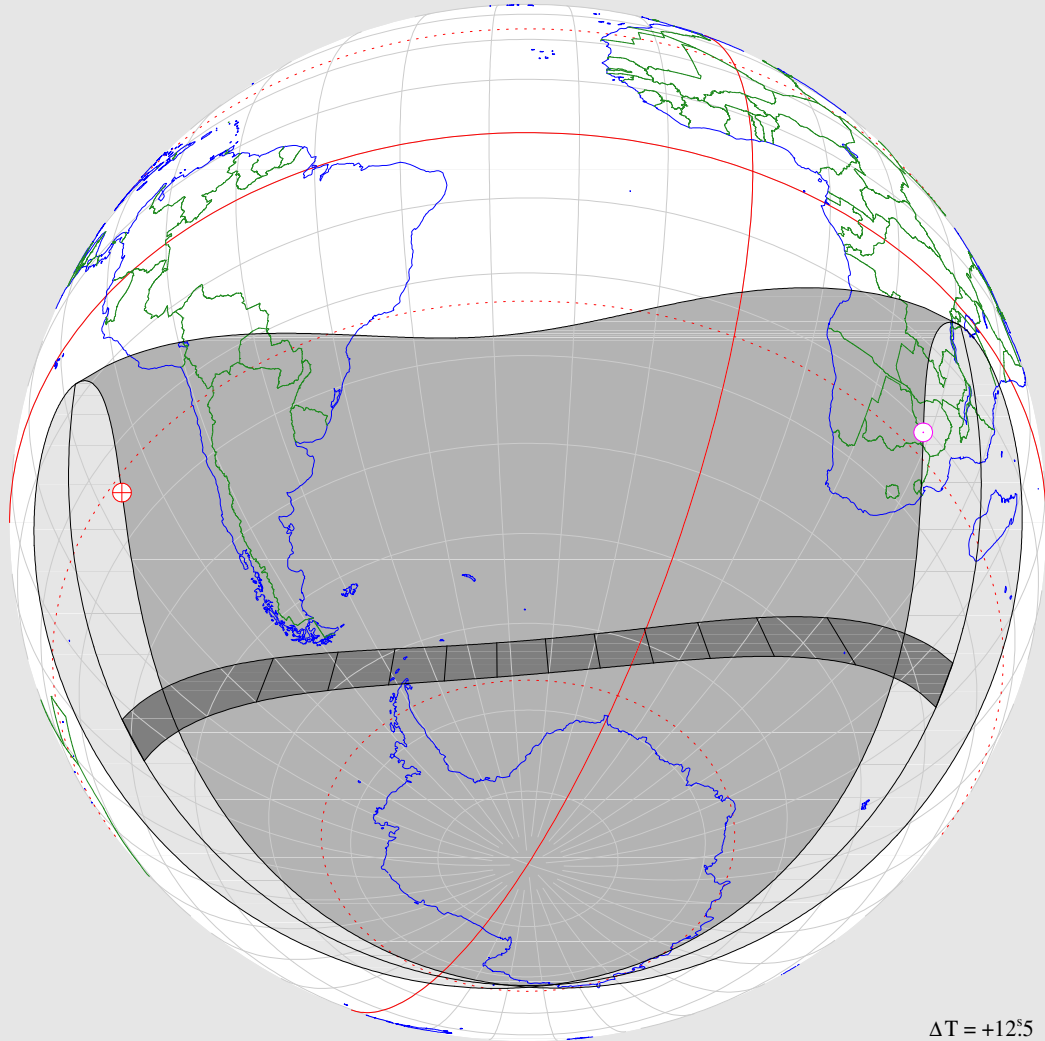


I. - Annular Eclipse of the Sun

1815 January 10



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$\Delta T = +12^s.5$
Globe centred on W 25°7' and S 48°8'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	06.5	W 85	45.0	S 25	18.4
Beginning of northern limit of penumbra	11	45.2	W 87	25.7	S 7	31.0
Beginning of northern limit of umbra	12	24.4	W112	52.3	S 38	22.2
Beginning of centre line; central eclipse begins	12	27.8	W115	04.7	S 40	15.8
Beginning of southern limit of umbra	12	31.4	W117	28.0	S 42	12.5
Central eclipse at local apparent noon	13	53.4	W 26	25.5	S 63	52.7
End of southern limit of umbra	15	22.4	E 59	39.6	S 37	51.0
End of centre line; central eclipse ends	15	26.0	E 57	26.5	S 35	51.8
End of northern limit of umbra	15	29.4	E 55	23.0	S 33	56.0
End of northern limit of penumbra	16	08.6	E 30	56.9	S 2	51.5
⊙ Eclipse ends; last contact with Earth	16	47.3	E 28	55.6	S 20	43.7