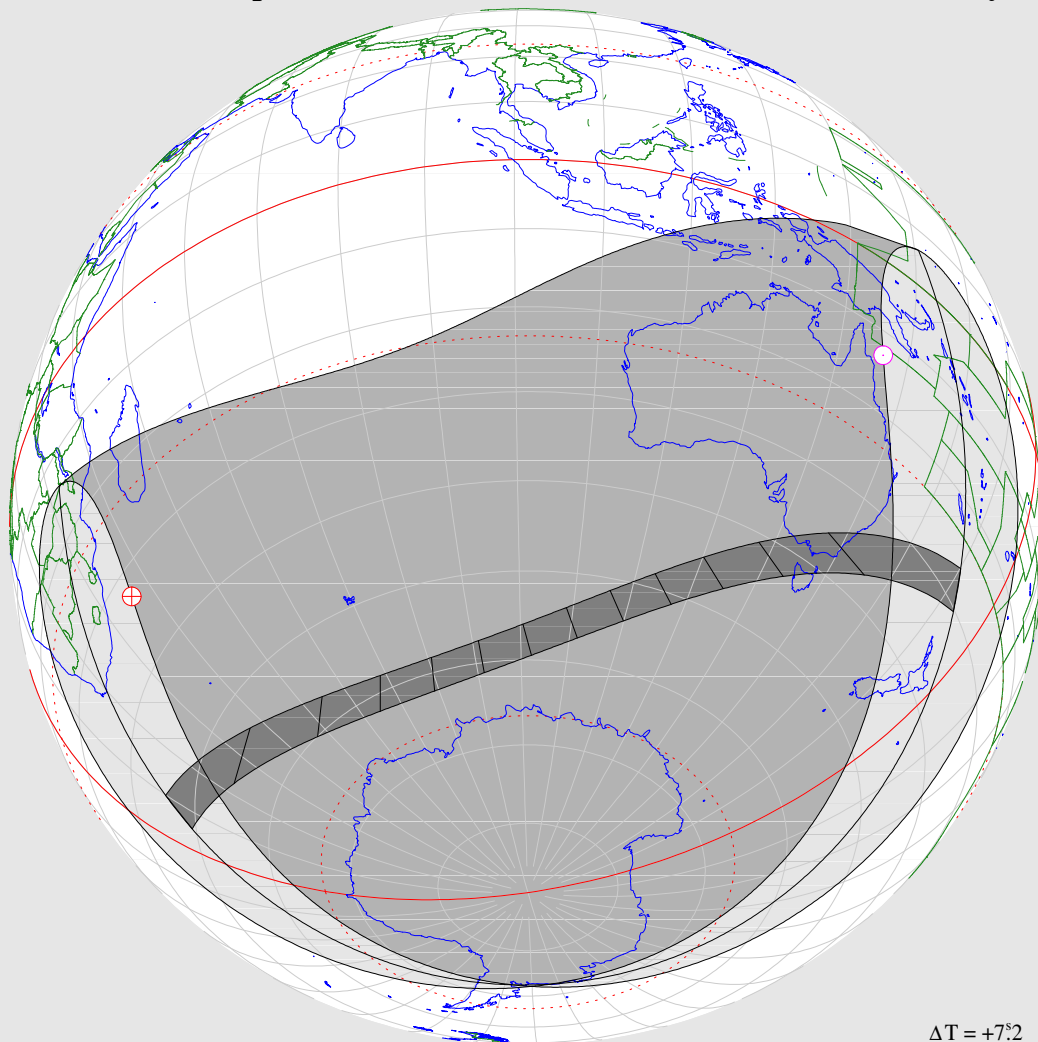


II. - Annular Eclipse of the Sun

1851 February 01



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$\Delta T = +7^s.2$
Globe centred on E 101°5' and S 45°1'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	3	03.2	E 36	04.8	S 32	47.7
Beginning of northern limit of penumbra	3	45.1	E 32	43.8	S 13	59.3
Beginning of northern limit of umbra	4	20.2	E 9	53.2	S 45	37.4
Beginning of centre line; central eclipse begins	4	23.2	E 7	50.2	S 47	28.3
Beginning of southern limit of umbra	4	26.5	E 5	36.2	S 49	21.8
Central eclipse at local apparent noon	5	40.3	E 98	22.5	S 58	14.3
End of southern limit of umbra	7	22.3	E 173	17.2	S 30	13.1
End of centre line; central eclipse ends	7	25.5	E 171	39.1	S 28	13.2
End of northern limit of umbra	7	28.6	E 170	06.9	S 26	16.7
End of northern limit of penumbra	8	03.5	E 150	43.9	N 5	57.0
⊙ Eclipse ends; last contact with Earth	8	45.5	E 146	12.4	S 13	04.3