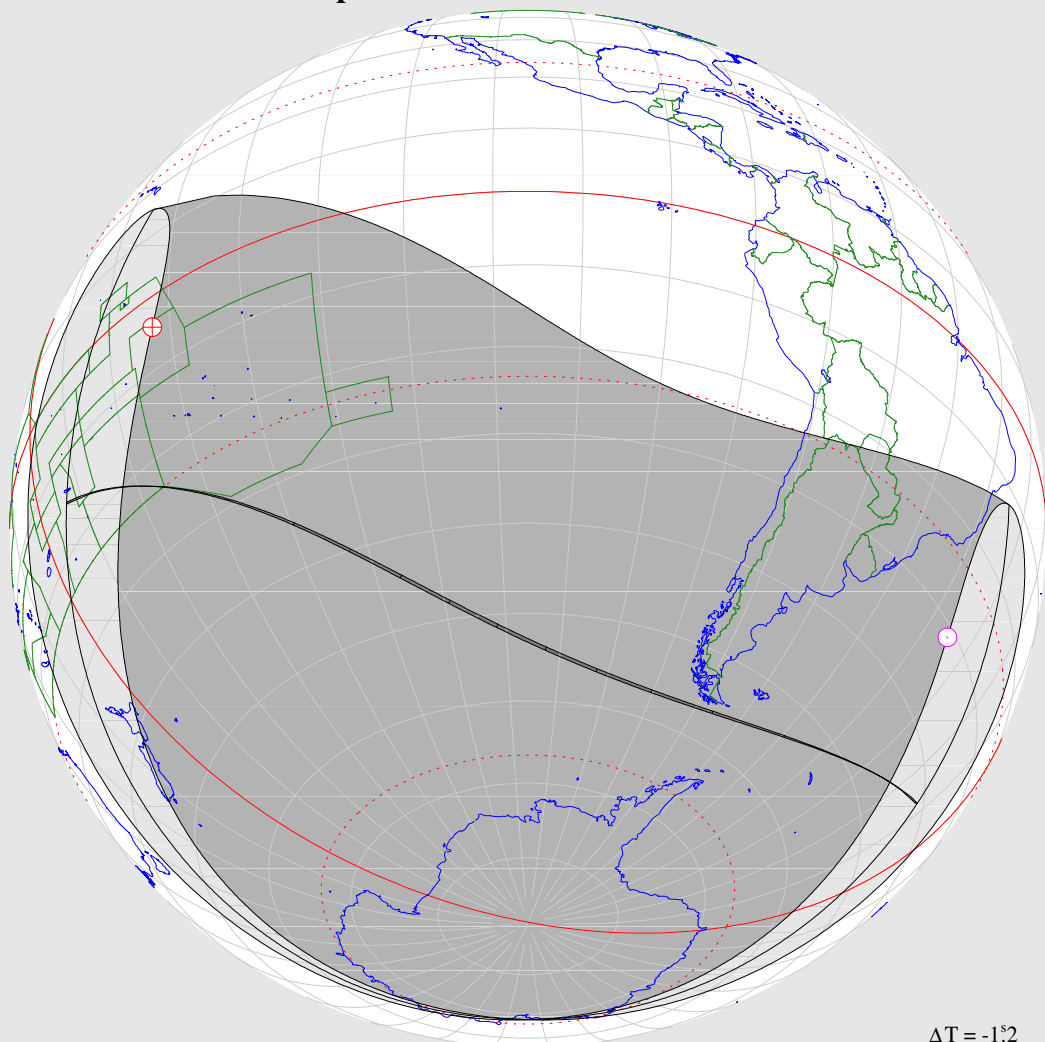


V. - Annular-Total Eclipse of the Sun

1872 November 30



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$\Delta T = -1^s 2$
Globe centred on W 106°1' and S 40°6'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	53.1	W152	43.1	S 4	18.3
Beginning of northern limit of penumbra	16	32.4	W154	34.7	N15	13.1
Beginning of northern limit of umbra	16	57.3	W173	07.9	S 14	50.6
Beginning of centre line; central eclipse begins	16	57.4	W173	11.4	S 14	55.3
Beginning of southern limit of umbra	16	57.5	W173	14.9	S 15	00.1
Central eclipse at local apparent noon	18	43.6	W103	37.3	S 53	43.6
End of southern limit of umbra	20	01.5	W 12	30.0	S 41	17.5
End of centre line; central eclipse ends	20	01.5	W 12	33.6	S 41	14.2
End of northern limit of umbra	20	01.6	W 12	37.2	S 41	10.9
End of northern limit of penumbra	20	26.7	W 34	34.0	S 11	51.0
⊙ Eclipse ends; last contact with Earth	21	05.8	W 35	12.0	S 31	05.5