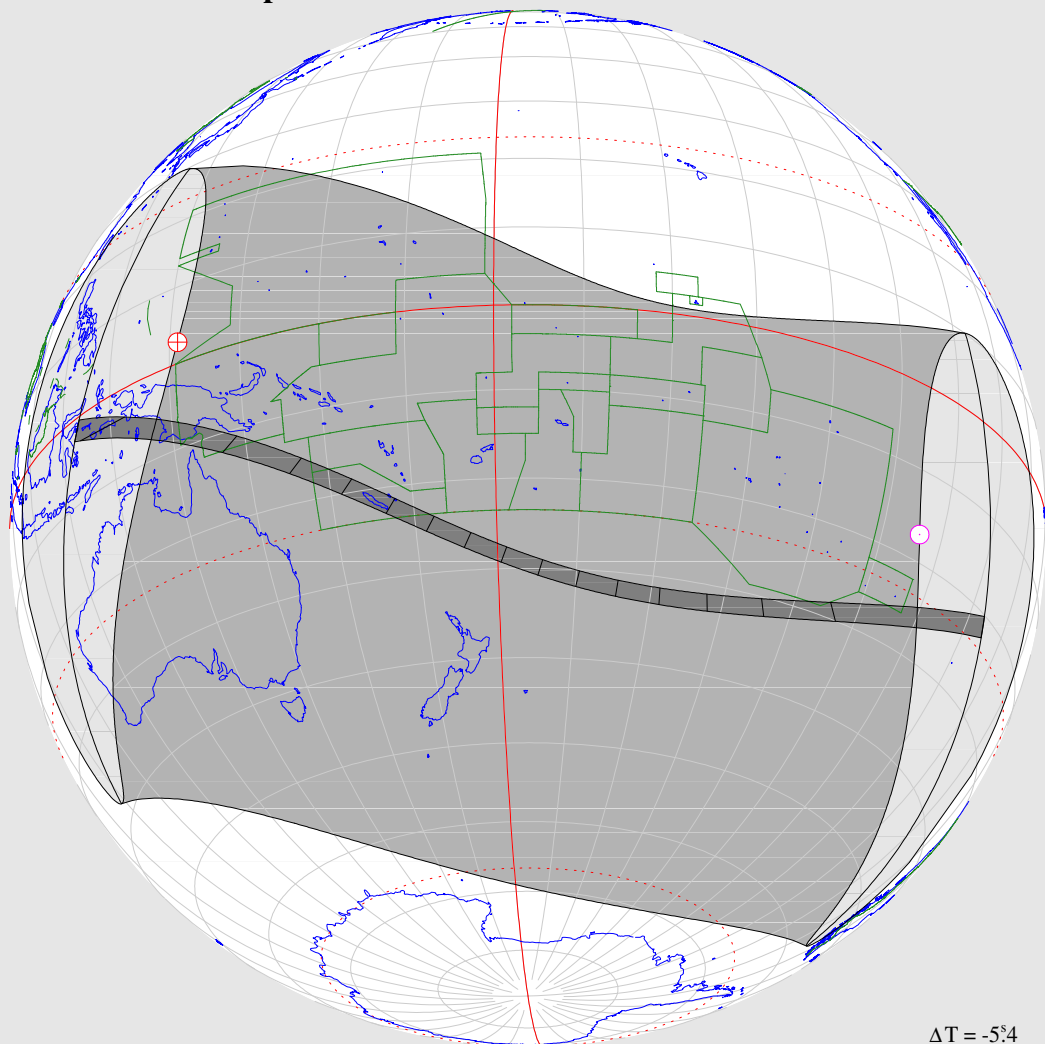


IV. - Annular Eclipse of the Sun

1882 November 10-11



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$\Delta T = -5^s.4$
Globe centred on W 176°2 and S 25°6

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	20 22.6	E 141 11.9	N 2 39.8
Beginning of northern limit of penumbra	21 24.5	E 135 08.4	N 29 40.2
Beginning of northern limit of umbra	21 28.4	E 123 49.0	S 0 23.9
Beginning of centre line; central eclipse begins	21 29.1	E 123 16.5	S 1 30.3
Beginning of southern limit of umbra	21 30.0	E 122 43.2	S 2 37.1
Beginning of southern limit of penumbra	22 14.3	E 98 15.6	S 38 09.3
Central eclipse at local apparent noon	23 26.7	W 175 39.4	S 29 35.1
End of southern limit of penumbra	0 30.3	W 73 20.9	S 56 31.5
End of southern limit of umbra	1 14.8	W 105 19.2	S 22 16.4
End of centre line; central eclipse ends	1 15.6	W 105 55.2	S 21 11.4
End of northern limit of umbra	1 16.4	W 106 30.1	S 20 06.7
End of northern limit of penumbra	1 20.5	W 117 16.1	N 10 03.3
⊙ Eclipse ends; last contact with Earth	2 22.1	W 123 58.9	S 17 03.1