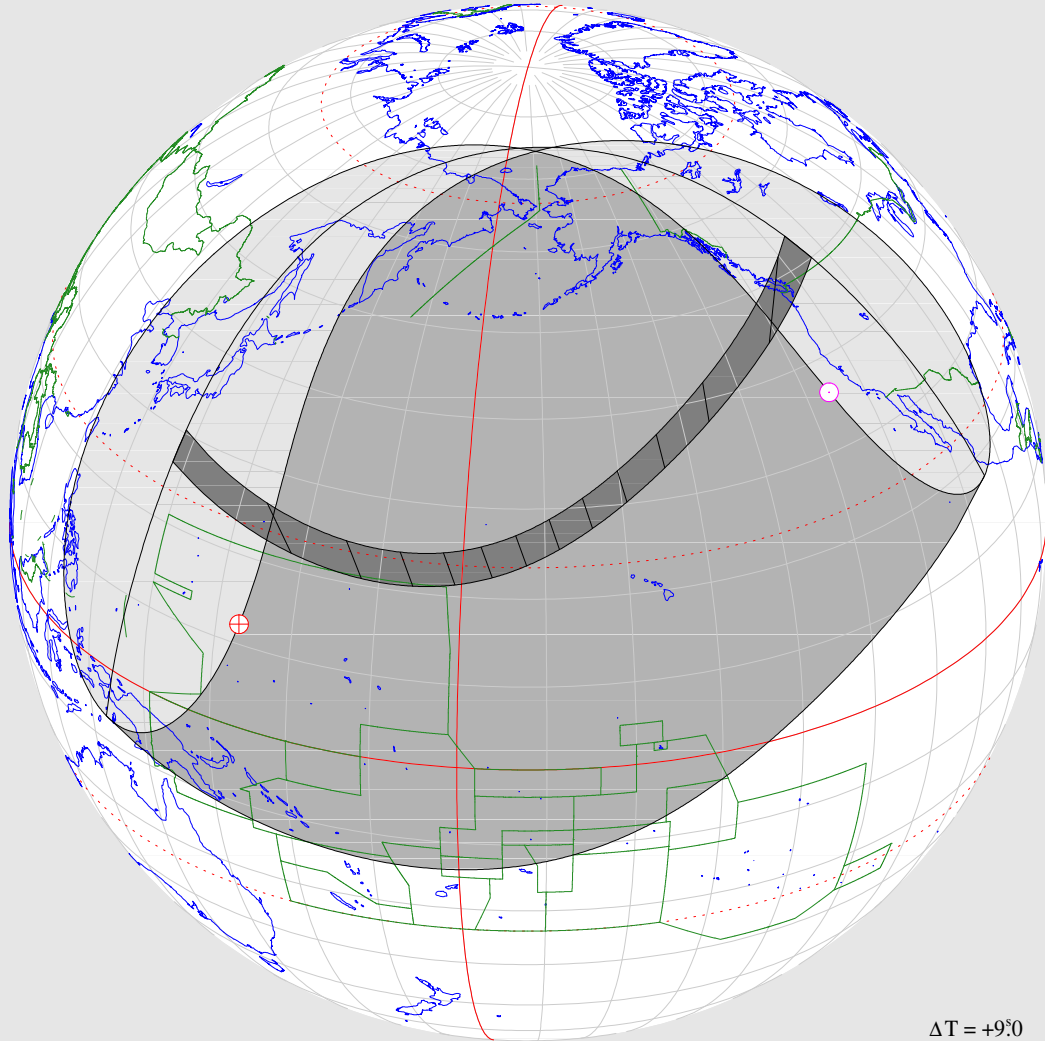


I. - Annular Eclipse of the Sun

1701 February 07-08



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$\Delta T = +9^s 0$
Globe centred on W 172°1 and N 28°5

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	20 15.9	E 153 07.2	N 12 17.0
Beginning of southern limit of penumbra	21 15.8	E 132 57.5	S 6 34.1
Beginning of southern limit of umbra	21 34.1	E 137 56.6	N 26 31.2
Beginning of centre line; central eclipse begins	21 36.4	E 138 01.1	N 28 25.5
Beginning of northern limit of umbra	21 39.0	E 138 05.3	N 30 23.3
Central eclipse at local apparent noon	23 22.1	W 166 50.0	N 28 04.9
End of northern limit of umbra	0 30.2	W 115 24.0	N 53 39.5
End of centre line; central eclipse ends	0 32.8	W 114 34.5	N 51 47.8
End of southern limit of umbra	0 35.2	W 113 51.4	N 49 58.6
End of southern limit of penumbra	0 53.6	W 104 36.5	N 17 32.3
○ Eclipse ends; last contact with Earth	1 53.5	W 126 03.6	N 36 11.1