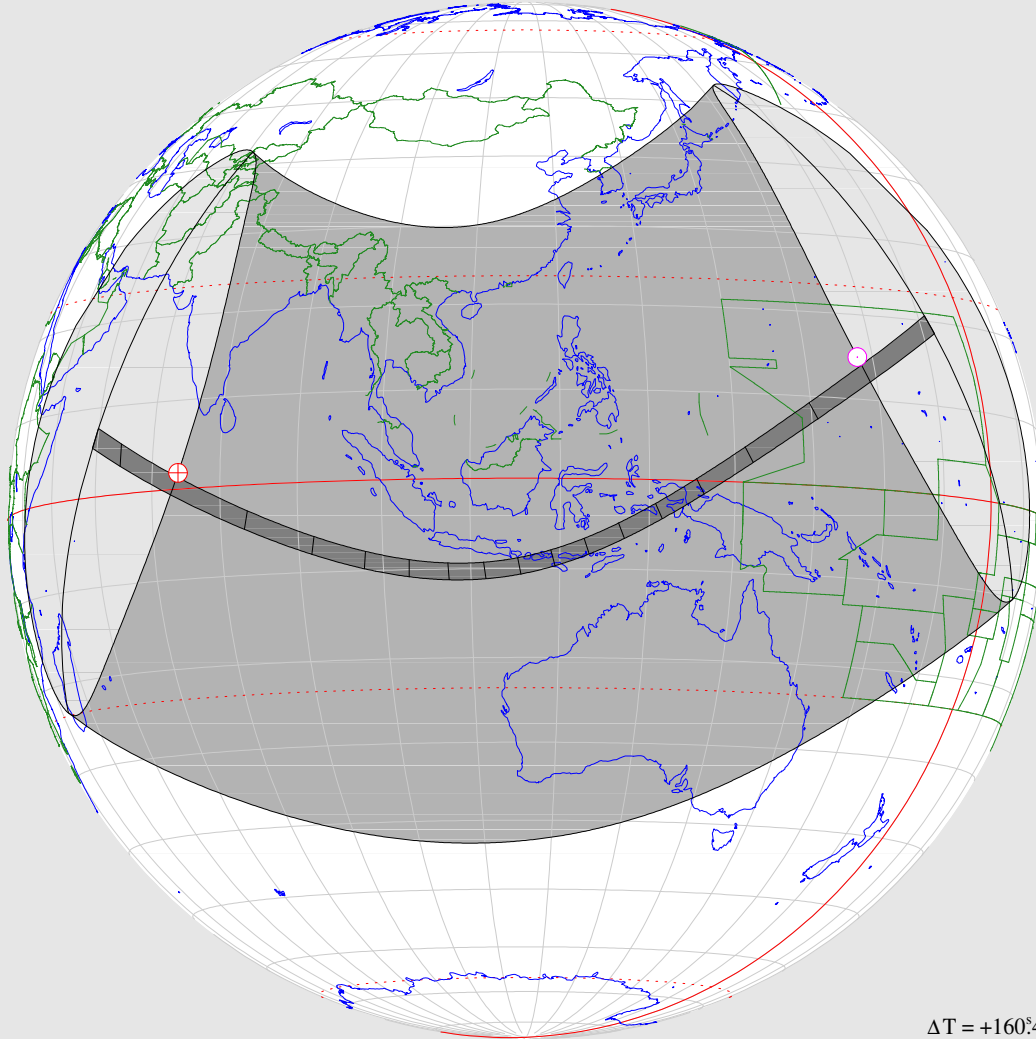


VI. - Annular Eclipse of the Sun

1582 December 25



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$\Delta T = +160^s.4$
Globe centred on E 116°2 and S 4°7

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	1 07.9	E 74 00.3	N 1 48.4
Beginning of centre line; central eclipse begins	2 14.4	E 59 27.8	N 6 35.0
Beginning of southern limit of umbra	2 14.3	E 59 00.9	N 5 30.6
Beginning of northern limit of umbra	2 14.5	E 59 54.3	N 7 39.6
Beginning of southern limit of penumbra	2 28.0	E 42 28.0	S 23 11.2
Beginning of northern limit of penumbra	2 49.0	E 71 01.4	N 42 05.6
Central eclipse at local apparent noon	4 09.5	E 117 49.9	S 9 11.1
End of northern limit of penumbra	5 22.7	E 153 38.9	N 53 29.2
End of southern limit of penumbra	5 43.9	W 171 17.8	S 10 10.7
End of northern limit of umbra	5 57.3	E 171 27.6	N 20 39.9
End of centre line; central eclipse ends	5 57.4	E 171 56.8	N 19 37.3
End of southern limit of umbra	5 57.5	E 172 26.1	N 18 34.8
⊙ Eclipse ends; last contact with Earth	7 03.9	E 157 36.6	N 14 53.5