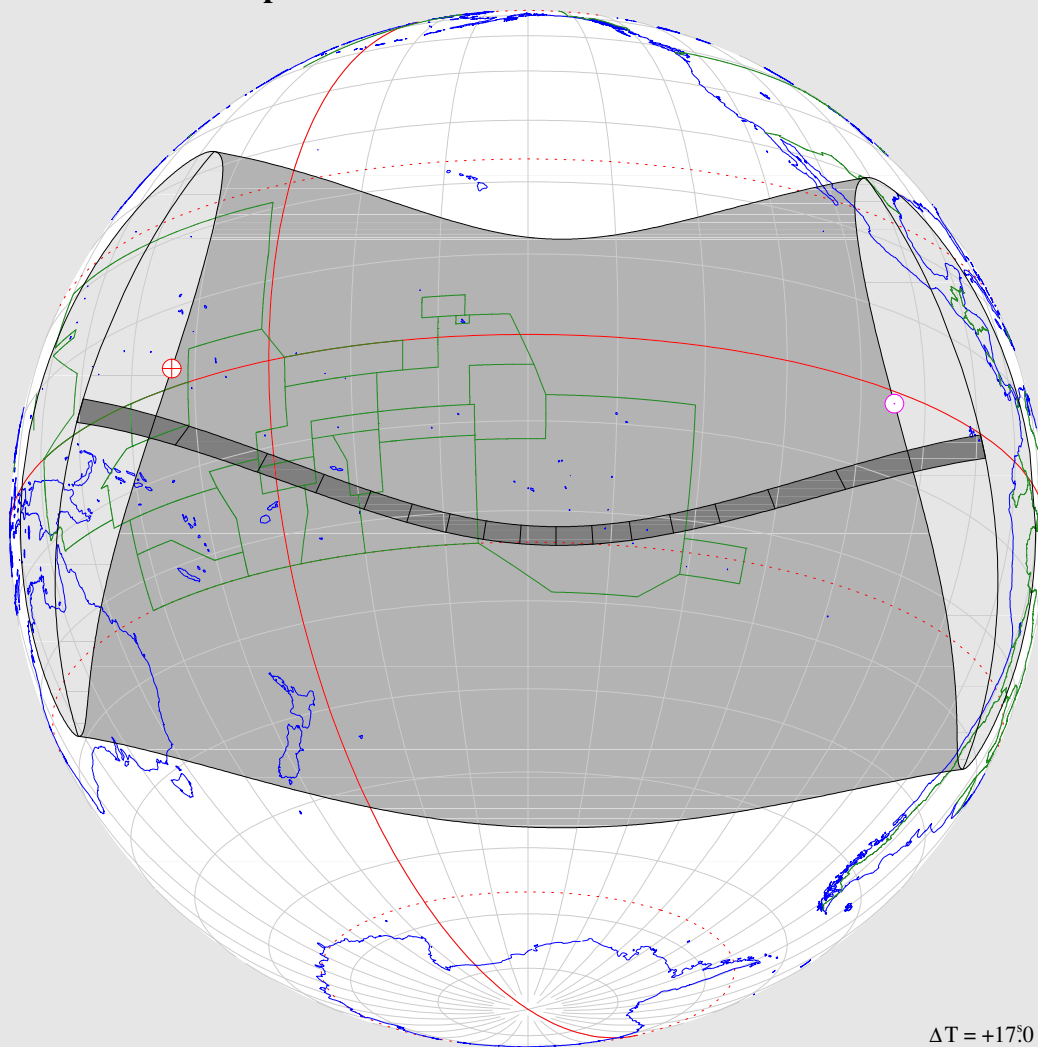


VI. - Annular Eclipse of the Sun

1777 December 29-30



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$\Delta T = +17^s 0$
Globe centred on W 150°0 and S 22°0

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	19 00.7	E 166 32.9	N 2 17.5
Beginning of northern limit of umbra	20 06.4	E 150 42.4	N 3 39.7
Beginning of centre line; central eclipse begins	20 06.9	E 150 05.0	N 2 29.0
Beginning of southern limit of umbra	20 07.4	E 149 27.0	N 1 18.2
Beginning of northern limit of penumbra	20 15.6	E 163 23.4	N 33 36.7
Beginning of southern limit of penumbra	20 36.0	E 128 06.0	S 28 49.4
Central eclipse at local apparent noon	22 03.1	W 150 01.6	S 22 41.8
End of southern limit of penumbra	23 30.2	W 66 01.1	S 32 25.8
End of northern limit of penumbra	23 50.7	W 101 13.9	N 29 59.3
End of southern limit of umbra	23 58.9	W 87 55.5	S 2 25.7
End of centre line; central eclipse ends	23 59.4	W 88 33.0	S 1 16.0
End of northern limit of umbra	23 59.9	W 89 09.8	S 0 06.4
⊙ Eclipse ends; last contact with Earth	1 05.5	W 104 59.7	S 1 27.5