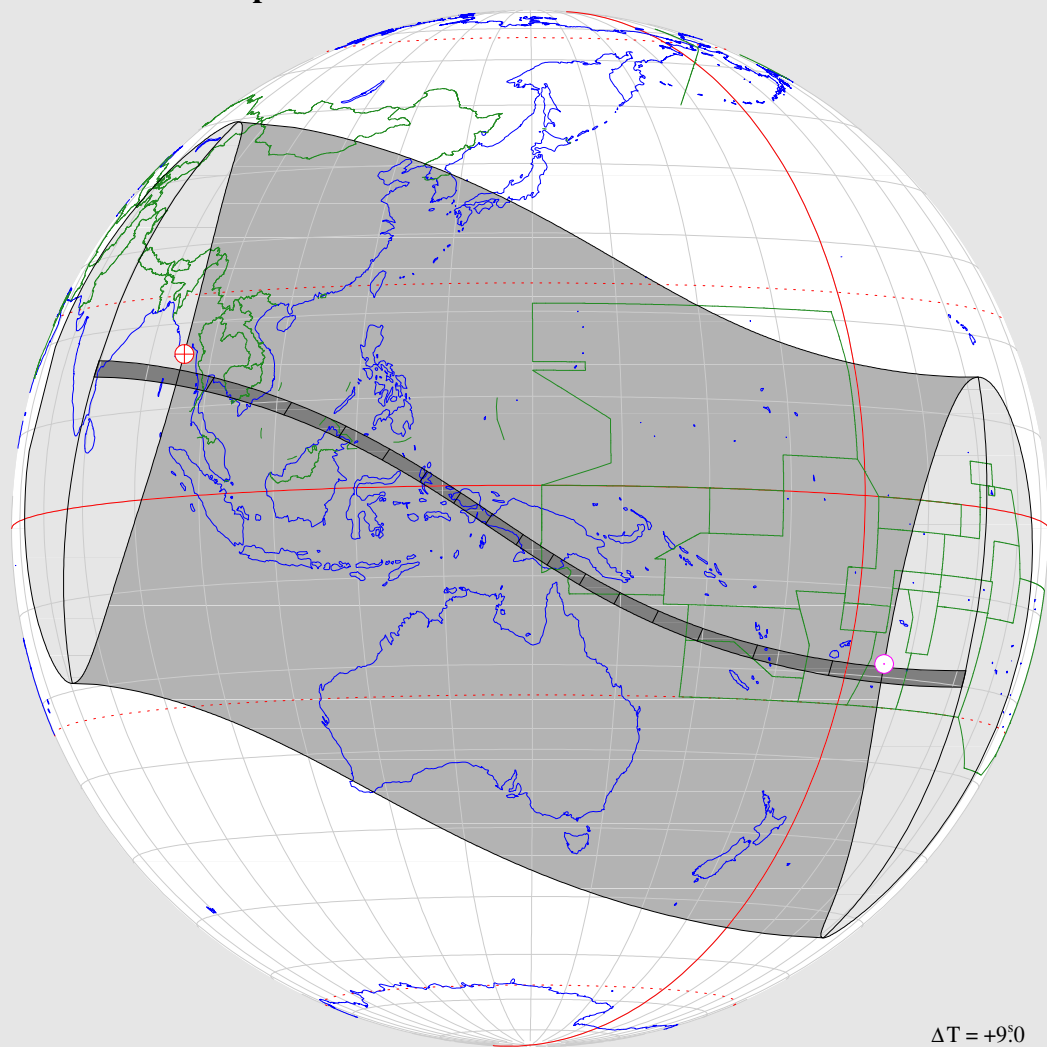


V. - Annular Eclipse of the Sun

1698 October 03-04



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ΔT = +9⁰
Globe centred on E 139°7' and S 4°8'

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	23 31.1	E 95 42.1	N 16 16.0
Beginning of northern limit of umbra	0 35.9	E 79 31.6	N 16 34.2
Beginning of centre line; central eclipse begins	0 36.0	E 79 25.1	N 15 37.8
Beginning of southern limit of umbra	0 36.1	E 79 18.2	N 14 41.3
Beginning of northern limit of penumbra	0 51.6	E 79 30.8	N 49 31.4
Beginning of southern limit of penumbra	1 00.3	E 70 32.1	S 19 07.9
Central eclipse at local apparent noon	2 32.3	E 139 04.4	S 6 21.6
End of southern limit of penumbra	4 01.8	W 147 08.2	S 53 45.7
End of northern limit of penumbra	4 11.2	W 156 51.7	N 14 53.6
End of southern limit of umbra	4 26.3	W 157 46.9	S 20 05.6
End of centre line; central eclipse ends	4 26.5	W 157 54.3	S 19 07.8
End of northern limit of umbra	4 26.6	W 158 01.3	S 18 10.1
⊙ Eclipse ends; last contact with Earth	5 31.5	W 174 12.8	S 18 29.6