

# I. - Annular Eclipse of the Sun

1708 March 22



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ΔT = +10'0  
Globe centred on E 95°3' and S 27°1'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 13.0	E 29 21.3	S 51 37.0
Beginning of northern limit of penumbra	5 01.4	E 16 50.3	S 31 21.2
Beginning of northern limit of umbra	5 22.0	E 12 42.3	S 64 59.2
Beginning of centre line; central eclipse begins	5 22.5	E 12 36.7	S 65 25.1
Beginning of southern limit of umbra	5 23.0	E 12 31.0	S 65 51.1
Central eclipse at local apparent noon	6 15.2	E 87 58.3	S 41 54.5
End of southern limit of umbra	8 20.3	E 146 36.2	S 7 18.3
End of centre line; central eclipse ends	8 20.7	E 146 29.6	S 6 53.7
End of northern limit of umbra	8 21.2	E 146 23.1	S 6 29.3
End of northern limit of penumbra	8 41.4	E 141 46.3	N 27 15.6
⊙ Eclipse ends; last contact with Earth	9 30.0	E 129 20.6	N 6 56.9