

# IV. - Annular Eclipse of the Sun

1579 August 22



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$\Delta T = +164^s.5$   
Globe centred on E 56°5' and S 7°0'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 48.0	E 15 21.8	N 16 37.9
Beginning of northern limit of umbra	5 51.6	E 0 23.1	N 10 54.6
Beginning of centre line; central eclipse begins	5 51.8	E 0 24.3	N 10 29.3
Beginning of southern limit of umbra	5 52.0	E 0 25.5	N 10 04.0
Beginning of northern limit of penumbra	5 55.0	W 6 40.6	N 42 13.5
Beginning of southern limit of penumbra	6 36.7	W 4 12.1	S 30 05.4
Central eclipse at local apparent noon	7 56.0	E 60 57.0	S 10 52.5
End of southern limit of penumbra	8 40.2	E 76 06.1	S 80 28.7
End of northern limit of penumbra	9 22.7	E 127 19.6	S 12 37.5
End of southern limit of umbra	9 25.4	E 120 02.3	S 44 42.6
End of centre line; central eclipse ends	9 25.6	E 120 06.6	S 44 19.0
End of northern limit of umbra	9 25.7	E 120 10.9	S 43 55.5
⊙ Eclipse ends; last contact with Earth	10 29.3	E 105 49.2	S 38 14.4