

V. - Annular Eclipse of the Sun

1557 October 22



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$\Delta T = +192^s.1$
Globe centred on E 56°7' and S 19°3'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 45.8	E 19 42.9	N 19 22.2
Beginning of northern limit of umbra	5 51.0	E 2 59.3	N 17 51.7
Beginning of centre line; central eclipse begins	5 51.5	E 2 33.3	N 16 48.0
Beginning of southern limit of umbra	5 52.1	E 2 07.0	N 15 43.9
Beginning of northern limit of penumbra	5 54.5	E 14 10.3	N 48 24.5
Beginning of southern limit of penumbra	6 28.0	W 15 57.4	S 18 38.6
Central eclipse at local apparent noon	7 52.9	E 57 46.3	S 22 33.1
End of southern limit of penumbra	9 04.0	E 162 14.9	S 64 16.6
End of northern limit of penumbra	9 38.3	E 121 05.2	N 1 15.4
End of southern limit of umbra	9 40.3	E 130 08.8	S 31 54.2
End of centre line; central eclipse ends	9 40.8	E 129 36.9	S 30 49.6
End of northern limit of umbra	9 41.4	E 129 06.2	S 29 45.2
⊙ Eclipse ends; last contact with Earth	10 46.7	E 112 17.0	S 28 16.5