

### III. - Annular Eclipse of the Sun

2070 October 04



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$\Delta T = +108^s 0$   
Globe centred on E 63°2' and S 26°8'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 20.0	E 22 04.8	S 1 11.3
Beginning of northern limit of penumbra	5 11.7	E 10 58.9	N20 57.8
Beginning of northern limit of umbra	5 28.1	E 4 13.9	S 11 38.4
Beginning of centre line; central eclipse begins	5 28.8	E 3 59.0	S 12 22.5
Beginning of southern limit of umbra	5 29.6	E 3 43.7	S 13 06.9
Central eclipse at local apparent noon	7 24.6	E 66 00.9	S 35 58.9
End of southern limit of umbra	8 44.4	E 141 05.1	S 47 48.9
End of centre line; central eclipse ends	8 45.2	E 140 45.1	S 47 03.3
End of northern limit of umbra	8 46.0	E 140 25.7	S 46 18.0
End of northern limit of penumbra	9 02.7	E 132 36.4	S 13 47.3
⊙ Eclipse ends; last contact with Earth	9 54.2	E 121 55.2	S 35 54.7