

# IV. - Annular-Total Eclipse of the Sun

1666 July 02



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$\Delta T = +30^s.5$   
Globe centred on E 64°9' and N 41°0'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 58.8	E 9 26.9	N 15 13.5
Beginning of southern limit of penumbra	5 40.0	E 7 47.9	S 4 41.5
Beginning of southern limit of umbra	6 04.3	W 11 31.0	N 24 36.6
Beginning of centre line; central eclipse begins	6 04.4	W 11 36.7	N 24 43.3
Beginning of northern limit of umbra	6 04.6	W 11 42.5	N 24 50.1
Central eclipse at local apparent noon	7 43.0	E 65 03.4	N 51 23.1
End of northern limit of umbra	9 19.4	E 143 25.7	N 26 52.5
End of centre line; central eclipse ends	9 19.5	E 143 21.0	N 26 47.1
End of southern limit of umbra	9 19.6	E 143 16.3	N 26 41.7
End of southern limit of penumbra	9 43.8	E 123 45.5	S 2 33.8
⊙ Eclipse ends; last contact with Earth	10 25.0	E 122 11.0	N 17 19.5