

IV. - Annular Eclipse of the Sun

2016 September 01



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$\Delta T = +70^s.6$
Globe centred on E 38°1' and S 9°6'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	6 13.1	W 3 51.6	N 4 00.4
Beginning of northern limit of umbra	7 18.8	W 19 23.1	S 2 23.5
Beginning of centre line; central eclipse begins	7 19.2	W 19 22.7	S 3 04.4
Beginning of southern limit of umbra	7 19.5	W 19 22.4	S 3 45.4
Beginning of northern limit of penumbra	7 19.8	W 24 30.9	N 29 08.1
Beginning of southern limit of penumbra	8 13.1	W 24 45.1	S 46 21.3
Central eclipse at local apparent noon	9 18.0	E 40 27.7	S 12 20.4
End of southern limit of penumbra	10 00.1	E 82 05.5	S 77 01.4
End of southern limit of umbra	10 54.0	E 100 30.0	S 36 20.3
End of northern limit of penumbra	10 54.0	E 105 57.9	S 3 26.3
End of centre line; central eclipse ends	10 54.4	E 100 33.3	S 35 38.2
End of northern limit of umbra	10 54.8	E 100 36.5	S 34 56.2
⊙ Eclipse ends; last contact with Earth	12 00.6	E 85 23.9	S 28 35.4