

# I. - Annular Eclipse of the Sun

2010 January 15



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$\Delta T = +66^s.6$   
Globe centred on E 68°3' and N 5°1'

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	4 05.4	E 30 27.2	S 1 19.5
Beginning of southern limit of umbra	5 16.8	E 15 12.7	N 5 21.9
Beginning of centre line; central eclipse begins	5 17.5	E 15 38.9	N 6 58.3
Beginning of northern limit of umbra	5 18.4	E 16 04.2	N 8 36.0
Beginning of southern limit of penumbra	5 21.3	E 2 06.6	S 23 58.3
Beginning of northern limit of penumbra	6 37.3	E 26 31.5	N 55 01.0
Central eclipse at local apparent noon	7 20.3	E 72 14.9	N 3 30.9
End of northern limit of penumbra	7 35.2	E 58 01.0	N 68 32.8
End of southern limit of penumbra	8 51.9	E 136 56.7	N 6 14.3
End of northern limit of umbra	8 54.5	E 120 54.5	N 38 22.9
End of centre line; central eclipse ends	8 55.4	E 121 41.4	N 36 49.3
End of southern limit of umbra	8 56.1	E 122 26.8	N 35 16.4
⊙ Eclipse ends; last contact with Earth	10 07.6	E 108 11.8	N 28 47.9