

## II. - Annular Eclipse of the Sun

1963 January 25



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$\Delta T = +34^s.5$   
Globe centred on W 17°7' and S 38°6'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	10	56.7	W 80	27.4	S 25	11.6
Beginning of northern limit of penumbra	11	38.7	W 83	16.7	S 4	49.5
Beginning of northern limit of umbra	12	01.6	W101	22.1	S 35	03.4
Beginning of centre line; central eclipse begins	12	02.0	W101	38.5	S 35	22.8
Beginning of southern limit of umbra	12	02.4	W101	55.0	S 35	42.2
Central eclipse at local apparent noon	13	28.9	W 19	08.8	S 48	58.6
End of southern limit of umbra	15	10.9	E 52	40.0	S 20	16.2
End of centre line; central eclipse ends	15	11.3	E 52	27.1	S 19	57.6
End of northern limit of umbra	15	11.6	E 52	14.3	S 19	39.2
End of northern limit of penumbra	15	34.4	E 35	40.1	N 10	52.0
⊙ Eclipse ends; last contact with Earth	16	16.5	E 32	17.2	S 9	36.0