

### III. - Total Eclipse of the Sun

2081 September 03



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$\Delta T = +115^s.7$   
Globe centred on E 50°8' and N 20°2'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	6 32.2	W 14 27.7	N 40 31.0
Beginning of southern limit of penumbra	7 21.6	W 22 46.7	N 16 47.7
Beginning of southern limit of umbra	7 28.5	W 30 01.0	N 46 35.8
Beginning of centre line; central eclipse begins	7 29.0	W 30 24.0	N 47 26.8
Beginning of northern limit of umbra	7 29.7	W 30 48.0	N 48 18.1
Beginning of northern limit of penumbra	8 17.0	W 114 38.8	N 82 39.8
Central eclipse at local apparent noon	8 47.1	E 48 02.0	N 29 54.1
End of northern limit of penumbra	9 54.7	E 125 43.9	N 32 24.4
End of northern limit of umbra	10 41.7	E 108 27.1	S 7 22.8
End of centre line; central eclipse ends	10 42.3	E 108 11.2	S 8 14.8
End of southern limit of umbra	10 42.9	E 107 55.7	S 9 06.6
End of southern limit of penumbra	10 49.4	E 101 35.7	S 38 59.1
⊙ Eclipse ends; last contact with Earth	11 39.1	E 93 03.4	S 15 14.5