

# IV. - Total Eclipse of the Sun

1835 November 20



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$\Delta T = +5^s.7$   
Globe centred on E 21°8' and S 10°6'

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	7 54.5	W 23 16.0	N23 36.1
Beginning of centre line; central eclipse begins	8 50.4	W 35 51.7	N26 42.0
Beginning of northern limit of umbra	8 50.4	W 35 39.1	N27 10.3
Beginning of southern limit of umbra	8 50.4	W 36 04.3	N26 13.6
Beginning of southern limit of penumbra	9 03.3	W 50 20.3	S 2 36.7
Beginning of northern limit of penumbra	9 11.9	W 17 43.0	N57 24.3
Central eclipse at local apparent noon	10 26.1	E 19 54.4	S 9 38.2
End of northern limit of penumbra	11 52.2	E 79 12.8	N24 03.8
End of southern limit of penumbra	12 00.2	E 102 25.3	S 37 48.2
End of northern limit of umbra	12 13.4	E 86 04.5	S 8 20.1
End of centre line; central eclipse ends	12 13.4	E 86 14.8	S 8 49.1
End of southern limit of umbra	12 13.4	E 86 25.3	S 9 18.0
⊙ Eclipse ends; last contact with Earth	13 09.2	E 73 27.1	S 11 57.4