

# I. - Total Eclipse of the Sun

1820 March 14



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$\Delta T = +11^{\text{m}} 39^{\text{s}}$   
Globe centred on E 3°0' and S 39°5'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	16.7	W 80	35.8	S 57	00.0
Beginning of northern limit of penumbra	11	54.2	W 88	13.9	S 39	38.2
Beginning of northern limit of umbra	12	24.6	W102	31.4	S 74	19.4
Beginning of centre line; central eclipse begins	12	25.6	W103	14.2	S 75	04.4
Beginning of southern limit of umbra	12	26.7	W104	00.7	S 75	50.0
Central eclipse at local apparent noon	12	55.8	W 11	36.6	S 58	09.4
End of southern limit of umbra	14	47.9	E 51	08.9	S 17	59.1
End of centre line; central eclipse ends	14	48.9	E 50	51.6	S 17	13.3
End of northern limit of umbra	14	49.9	E 50	34.8	S 16	28.1
End of northern limit of penumbra	15	20.0	E 41	32.3	N 18	30.2
⊙ Eclipse ends; last contact with Earth	15	57.7	E 32	51.4	N 1	01.6