

III. - Total Eclipse of the Sun

1582 June 20



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$\Delta T = +161^s 0$
Globe centred on E 100°0 and N 30°6

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	2	40.6	E 43	45.4	N 15	14.3
Beginning of southern limit of penumbra	3	33.5	E 41	24.4	S 9	35.4
Beginning of southern limit of umbra	3	40.8	E 26	55.3	N 18	58.9
Beginning of centre line; central eclipse begins	3	40.9	E 26	51.9	N 19	03.9
Beginning of northern limit of umbra	3	40.9	E 26	48.4	N 19	09.0
Beginning of northern limit of penumbra	4	21.6	W 6	30.8	N 50	43.7
Central eclipse at local apparent noon	5	24.2	E 99	34.5	N 35	19.6
End of northern limit of penumbra	6	34.0	W 169	55.3	N 35	37.5
End of northern limit of umbra	7	14.6	E 163	03.5	N 2	31.1
End of centre line; central eclipse ends	7	14.7	E 163	01.1	N 2	27.3
End of southern limit of umbra	7	14.7	E 162	58.8	N 2	23.5
End of southern limit of penumbra	7	21.9	E 147	59.8	S 26	06.7
⊙ Eclipse ends; last contact with Earth	8	15.0	E 146	15.8	S 1	24.6