

III. - Total Eclipse of the Sun

1650 October 25



$\Delta T = +47^{\text{s}}.2$

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Globe centred on E 129°1' and N 25°0'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	1	49.3	E 72	39.0	N 48	10.9
Beginning of southern limit of penumbra	2	39.7	E 53	10.0	N 29	34.3
Beginning of southern limit of umbra	2	56.8	E 65	25.2	N 61	41.4
Beginning of centre line; central eclipse begins	2	56.8	E 65	27.3	N 61	44.1
Beginning of northern limit of umbra	2	56.9	E 65	29.3	N 61	46.8
Central eclipse at local apparent noon	3	48.6	E 118	56.4	N 31	22.7
End of northern limit of umbra	5	44.6	E 177	16.3	N 12	03.3
End of centre line; central eclipse ends	5	44.7	E 177	16.2	N 11	59.1
End of southern limit of umbra	5	44.8	E 177	16.0	N 11	54.9
End of southern limit of penumbra	6	01.5	W 179	29.2	S 21	16.0
○ Eclipse ends; last contact with Earth	6	52.0	E 163	33.8	S 2	20.1