

II. - Annular-Total Eclipse of the Sun

1630 June 10



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$\Delta T = +83^s.7$
Globe centred on W 91°9' and N 49°1'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	04.4	W141	54.6	N12	36.8
Beginning of southern limit of penumbra	15	39.3	W143	08.6	S 4	45.9
Beginning of centre line; central eclipse begins	16	14.1	W165	57.1	N26	11.6
Beginning of southern limit of umbra	16	14.0	W165	56.4	N26	10.8
Beginning of northern limit of umbra	16	14.1	W165	57.8	N26	12.3
Central eclipse at local apparent noon	17	51.9	W 88	19.2	N62	43.2
End of southern limit of umbra	19	05.2	E 7	36.2	N43	56.3
End of centre line; central eclipse ends	19	05.2	E 7	35.5	N43	55.7
End of northern limit of umbra	19	05.2	E 7	34.8	N43	55.2
End of southern limit of penumbra	19	40.0	W 19	16.4	N13	55.6
⊙ Eclipse ends; last contact with Earth	20	14.8	W 19	12.9	N30	59.6