

II. - Annular-Total Eclipse of the Sun

1705 May 22



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$\Delta T = +9^s 0$
Globe centred on W 116°3 and N 10°9

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	17	06.3	W159	01.2	S 21	42.6
Beginning of centre line; central eclipse begins	18	06.7	W172	48.9	S 24	35.4
Beginning of northern limit of umbra	18	06.7	W172	49.1	S 24	35.1
Beginning of southern limit of umbra	18	06.7	W172	48.8	S 24	35.7
Beginning of northern limit of penumbra	18	22.4	E 171	30.7	N 5	05.8
Beginning of southern limit of penumbra	18	28.3	W155	05.2	S 55	33.5
Central eclipse at local apparent noon	19	49.7	W118	23.5	N 11	20.3
End of southern limit of penumbra	21	22.0	W 61	27.1	S 24	54.8
End of northern limit of penumbra	21	27.3	W 36	09.4	N 37	27.8
End of southern limit of umbra	21	43.2	W 53	44.1	N 8	06.1
End of northern limit of umbra	21	43.2	W 53	42.8	N 8	09.4
End of centre line; central eclipse ends	21	43.2	W 53	43.4	N 8	07.8
⊙ Eclipse ends; last contact with Earth	22	43.7	W 67	42.2	N 11	02.7