

### III. - Annular Eclipse of the Sun

1694 June 22



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$\Delta T = +9^s.0$   
Globe centred on W 60°6 and N 33°1

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	13	06.2	W112	39.4	N14	29.0
Beginning of southern limit of penumbra	14	01.9	W115	43.8	S10	03.3
Beginning of southern limit of umbra	14	13.4	W131	22.2	N18	29.1
Beginning of centre line; central eclipse begins	14	14.4	W132	04.6	N19	26.5
Beginning of northern limit of umbra	14	15.4	W132	47.9	N20	24.3
Beginning of northern limit of penumbra	15	07.6	W172	49.2	N53	43.2
Central eclipse at local apparent noon	16	05.2	W 60	57.5	N38	34.7
End of northern limit of penumbra	17	09.7	E 37	17.8	N43	33.2
End of northern limit of umbra	18	01.8	E 3	41.5	N 8	41.7
End of centre line; central eclipse ends	18	02.8	E 3	01.4	N 7	43.7
End of southern limit of umbra	18	03.7	E 2	22.0	N 6	46.2
End of southern limit of penumbra	18	15.1	W 13	24.5	S21	44.1
⊙ Eclipse ends; last contact with Earth	19	10.9	W 16	12.0	N 2	43.8