

# IV. - Annular Eclipse of the Sun

## 1597 September 11



©HM Nautical Almanac Office

$\Delta T = +143^s.2$   
Globe centred on W 52°1' and S 6°3'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	12	06.2	W 94	07.8	N 20	05.1
Beginning of northern limit of umbra	13	09.6	W 109	35.0	N 15	39.8
Beginning of centre line; central eclipse begins	13	09.8	W 109	35.4	N 15	08.7
Beginning of southern limit of umbra	13	10.0	W 109	35.8	N 14	37.5
Beginning of northern limit of penumbra	13	14.8	W 114	31.9	N 47	22.6
Beginning of southern limit of penumbra	13	48.7	W 116	07.5	S 23	38.5
Central eclipse at local apparent noon	15	13.5	W 49	19.1	S 11	14.7
End of southern limit of penumbra	16	08.6	W 0	13.6	S 80	17.6
End of northern limit of penumbra	16	43.4	E 17	24.5	S 10	15.9
End of southern limit of umbra	16	47.8	E 12	57.2	S 43	00.0
End of centre line; central eclipse ends	16	48.0	E 12	58.5	S 42	30.4
End of northern limit of umbra	16	48.2	E 12	59.8	S 42	00.9
⊙ Eclipse ends; last contact with Earth	17	51.5	W 2	14.5	S 37	35.2