

# IV. - Annular Eclipse of the Sun

## 1608 August 10



©HM Nautical Almanac Office

$\Delta T = +133^s.1$   
Globe centred on W 40°5' and N 27°0'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	11 58.3	W 94 40.0	N 21 26.3
Beginning of southern limit of penumbra	12 57.0	W 101 53.9	S 4 17.0
Beginning of southern limit of umbra	13 04.9	W 112 50.9	N 26 05.2
Beginning of centre line; central eclipse begins	13 05.6	W 113 21.0	N 26 59.3
Beginning of northern limit of umbra	13 06.4	W 113 52.0	N 27 53.7
Beginning of northern limit of penumbra	13 58.3	W 153 08.1	N 64 05.6
Central eclipse at local apparent noon	14 51.0	W 41 36.0	N 31 48.3
End of northern limit of penumbra	15 57.7	E 46 25.9	N 42 35.7
End of northern limit of umbra	16 49.4	E 20 01.2	N 4 25.7
End of centre line; central eclipse ends	16 50.2	E 19 33.9	N 3 29.7
End of southern limit of umbra	16 51.0	E 19 07.1	N 2 34.0
End of southern limit of penumbra	16 58.6	E 8 07.6	S 27 47.8
⊙ Eclipse ends; last contact with Earth	17 57.5	E 1 10.9	S 2 06.4