

II. - Annular-Total Eclipse of the Sun

1669 April 30



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$\Delta T = +26^s.7$
Globe centred on E 100°0 and N 12°1

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	2 34.5	E 57 21.7	S 23 56.5
Beginning of centre line; central eclipse begins	3 35.2	E 42 17.5	S 24 15.9
Beginning of northern limit of umbra	3 35.3	E 42 13.6	S 24 05.6
Beginning of southern limit of umbra	3 35.2	E 42 21.4	S 24 26.3
Beginning of southern limit of penumbra	3 48.0	E 55 03.3	S 55 33.4
Beginning of northern limit of penumbra	3 57.8	E 27 40.9	N 7 44.1
Central eclipse at local apparent noon	5 24.8	E 98 00.4	N 13 56.4
End of northern limit of penumbra	6 53.1	W 172 57.5	N 53 28.8
End of southern limit of penumbra	7 03.7	E 160 34.2	S 10 00.2
End of northern limit of umbra	7 16.0	E 166 33.3	N 22 31.8
End of centre line; central eclipse ends	7 16.1	E 166 28.9	N 22 20.0
End of southern limit of umbra	7 16.1	E 166 24.6	N 22 08.3
⊙ Eclipse ends; last contact with Earth	8 16.9	E 151 23.3	N 22 39.6