

V. - Annular Eclipse of the Sun

1933 August 21



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$\Delta T = +23^s.9$
Globe centred on E 95°2 and N 15°3

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	2 52.1	E 40 59.3	N28 26.9
Beginning of southern limit of umbra	3 55.3	E 24 50.3	N29 38.2
Beginning of centre line; central eclipse begins	3 55.6	E 24 37.1	N30 11.8
Beginning of northern limit of umbra	3 55.8	E 24 23.8	N30 45.4
Beginning of southern limit of penumbra	4 01.8	E 30 46.2	S 1 57.6
Beginning of northern limit of penumbra	4 26.7	W 1 27.2	N63 13.5
Central eclipse at local apparent noon	5 44.0	E 94 47.8	N17 55.6
End of northern limit of penumbra	7 11.3	E 166 01.3	N13 48.4
End of southern limit of penumbra	7 35.3	E 140 43.5	S 52 09.8
End of northern limit of umbra	7 41.8	E 150 48.8	S 19 57.9
End of centre line; central eclipse ends	7 42.0	E 150 37.6	S 20 30.4
End of southern limit of umbra	7 42.2	E 150 26.5	S 21 02.8
⊙ Eclipse ends; last contact with Earth	8 45.4	E 134 20.8	S 22 15.6