

V. - Annular Eclipse of the Sun

1821 August 27



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$\Delta T = +11^s.5$
Globe centred on W 47°0 and N 13°2

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	12 19.7	W100 17.7	N29 07.9
Beginning of southern limit of umbra	13 24.2	W116 33.2	N29 43.6
Beginning of centre line; central eclipse begins	13 24.5	W116 47.9	N30 30.0
Beginning of northern limit of umbra	13 24.7	W117 03.0	N31 16.4
Beginning of southern limit of penumbra	13 33.7	W112 39.3	S 2 22.9
Beginning of northern limit of penumbra	13 54.1	W139 42.6	N64 07.9
Central eclipse at local apparent noon	15 15.5	W 48 33.5	N14 28.8
End of northern limit of penumbra	16 45.4	E 21 04.4	N11 38.8
End of southern limit of penumbra	17 04.9	W 0 48.0	S 55 25.4
End of northern limit of umbra	17 14.3	E 7 36.3	S 22 09.5
End of centre line; central eclipse ends	17 14.6	E 7 22.5	S 22 57.4
End of southern limit of umbra	17 14.8	E 7 08.8	S 23 45.2
⊙ Eclipse ends; last contact with Earth	18 19.4	W 9 06.8	S 24 19.7