

II. - Annular Eclipse of the Sun

2031 May 21



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ΔT = +80:8
Globe centred on E 71°9' and N 8°1'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 14.0	E 30 29.3	S 12 57.8
Beginning of northern limit of umbra	5 20.4	E 15 04.7	S 15 57.9
Beginning of centre line; central eclipse begins	5 20.4	E 15 24.7	S 16 49.1
Beginning of southern limit of umbra	5 20.5	E 15 44.6	S 17 40.3
Beginning of northern limit of penumbra	5 35.8	E 0 04.1	N 13 43.3
Beginning of southern limit of penumbra	5 49.8	E 28 31.1	S 50 53.4
Central eclipse at local apparent noon	7 12.1	E 71 07.4	N 8 46.8
End of southern limit of penumbra	8 39.8	E 121 29.9	S 39 37.8
End of northern limit of penumbra	8 53.6	E 145 59.3	N 25 48.4
End of southern limit of umbra	9 09.0	E 129 51.8	S 5 31.8
End of northern limit of umbra	9 09.1	E 130 29.4	S 3 47.0
End of centre line; central eclipse ends	9 09.0	E 130 10.5	S 4 39.3
⊙ Eclipse ends; last contact with Earth	10 15.5	E 114 59.3	S 0 46.8