

III. - Annular Eclipse of the Sun

1890 June 17



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ΔT = -5:9
Globe centred on E 30°1' and N 31°9'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	6	55.1	W 13	56.3	N 0	43.9
Beginning of southern limit of penumbra	7	51.7	W 16	33.5	S 24	14.0
Beginning of southern limit of umbra	8	00.9	W 31	56.4	N 4	18.6
Beginning of centre line; central eclipse begins	8	01.6	W 32	27.3	N 5	05.5
Beginning of northern limit of umbra	8	02.3	W 32	58.7	N 5	52.7
Beginning of northern limit of penumbra	8	49.8	W 63	30.1	N 39	52.8
Central eclipse at local apparent noon	9	58.6	E 30	30.2	N 36	41.1
End of northern limit of penumbra	11	00.3	E 138	44.8	N 52	02.5
End of northern limit of umbra	11	48.0	E 101	58.4	N 19	31.3
End of centre line; central eclipse ends	11	48.7	E 101	24.1	N 18	43.8
End of southern limit of umbra	11	49.5	E 100	50.4	N 17	56.5
End of southern limit of penumbra	11	58.7	E 85	47.5	S 10	41.0
⊙ Eclipse ends; last contact with Earth	12	55.3	E 82	42.1	N 14	24.3