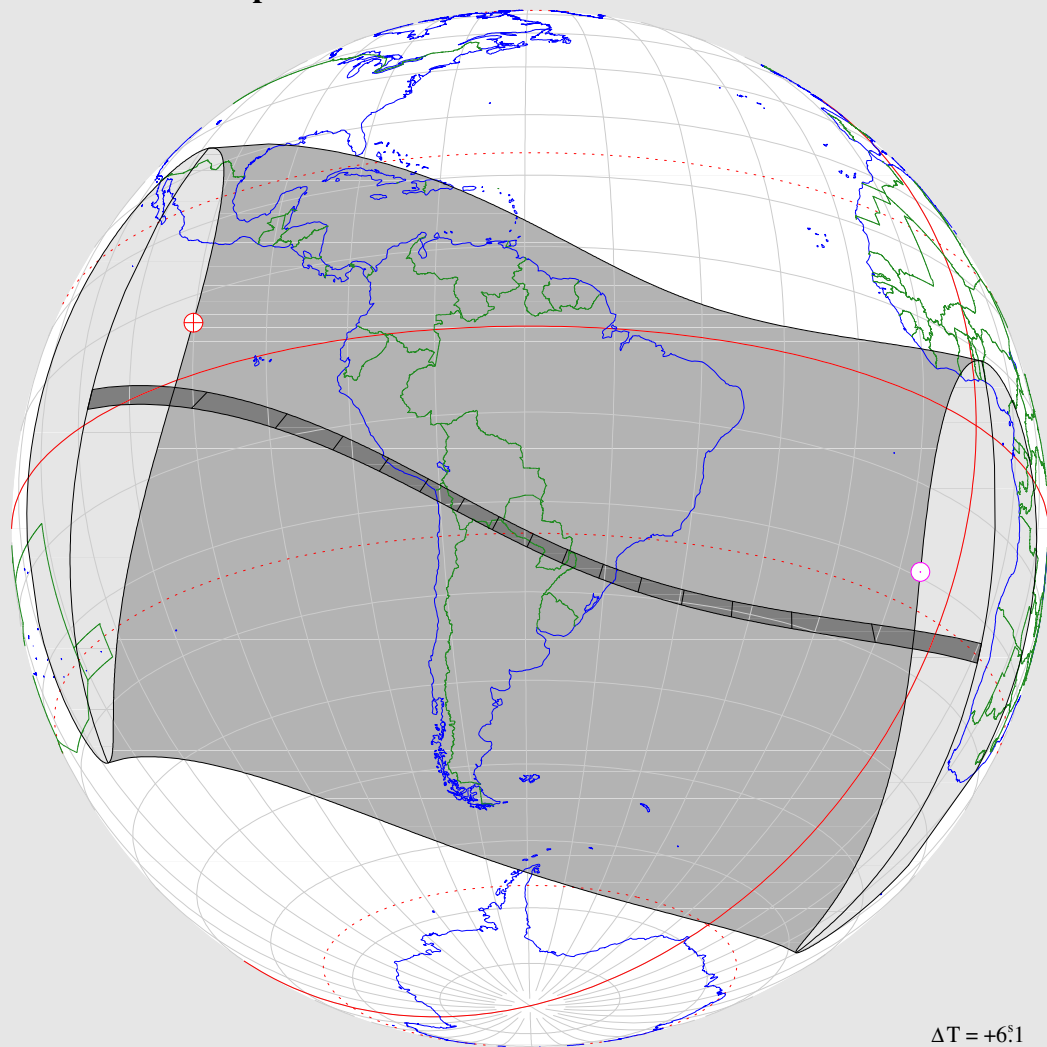


V. - Annular Eclipse of the Sun

1864 October 30



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$\Delta T = +6^s.1$
Globe centred on W 59°4 and S 23°0

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	12	31.0	W100	12.2	N 6	27.0
Beginning of northern limit of penumbra	13	36.0	W108	10.8	N34	31.7
Beginning of northern limit of umbra	13	36.3	W117	11.8	N 3	46.1
Beginning of centre line; central eclipse begins	13	36.9	W117	36.8	N 2	43.6
Beginning of southern limit of umbra	13	37.6	W118	02.3	N 1	40.8
Beginning of southern limit of penumbra	14	18.4	W138	19.2	S 33	57.7
Central eclipse at local apparent noon	15	35.3	W 57	53.8	S 24	56.0
End of southern limit of penumbra	16	42.2	E 39	37.7	S 58	39.6
End of southern limit of umbra	17	23.1	E 11	34.3	S 24	05.8
End of centre line; central eclipse ends	17	23.8	E 11	06.3	S 23	04.7
End of northern limit of umbra	17	24.4	E 10	39.0	S 22	03.8
End of northern limit of penumbra	17	25.0	E 2	27.7	N 8	49.1
⊙ Eclipse ends; last contact with Earth	18	29.6	W 6	25.4	S 19	22.6