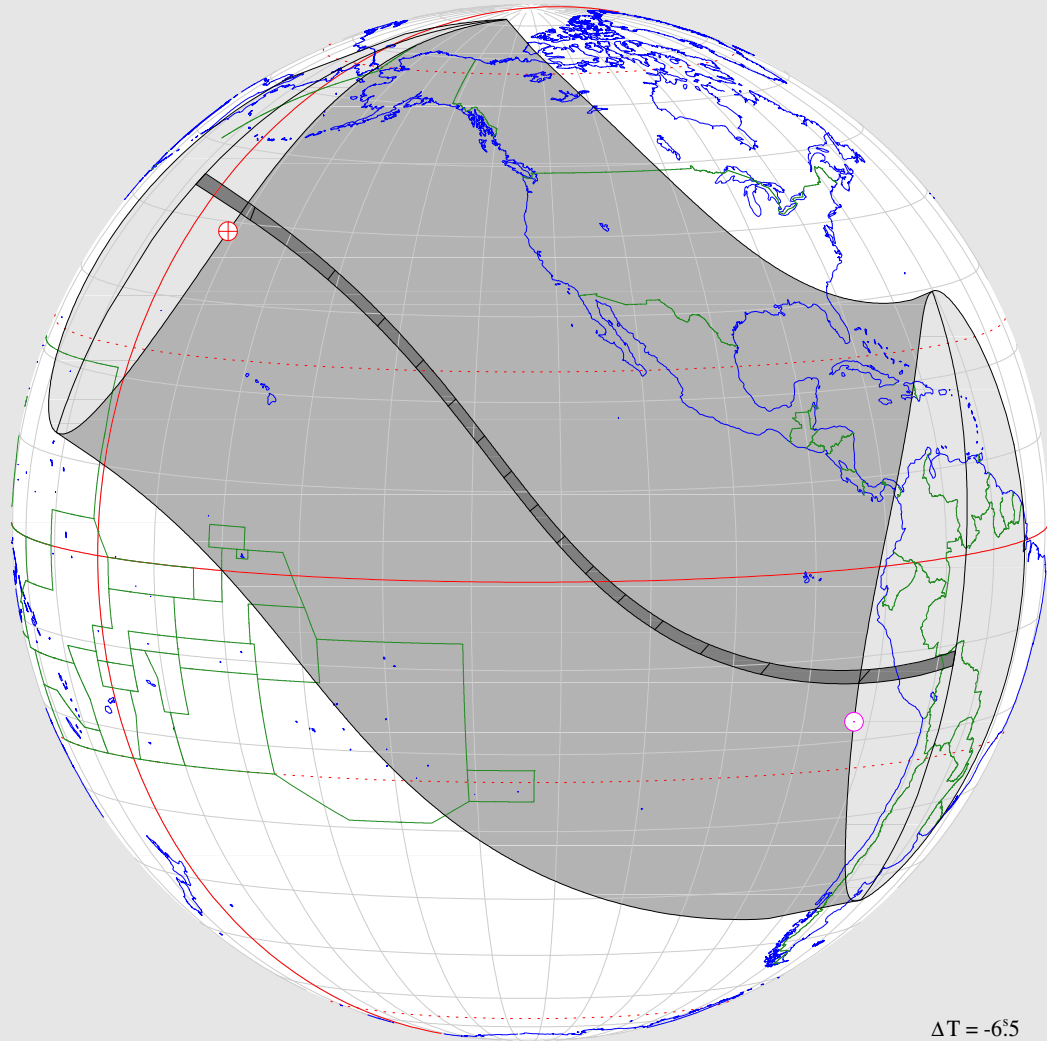


IV. - Annular Eclipse of the Sun

1893 October 09



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$\Delta T = -6^s.5$
Globe centred on W 123°5 and N 6°6

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	17	35.6	W171	50.0	N38	45.2
Beginning of southern limit of umbra	18	41.0	E 172	54.7	N43	57.1
Beginning of centre line; central eclipse begins	18	41.3	E 173	00.1	N44	46.1
Beginning of northern limit of umbra	18	41.7	E 173	05.5	N45	35.2
Beginning of southern limit of penumbra	18	44.0	E 167	13.5	N12	25.6
Beginning of northern limit of penumbra	19	28.4	W143	45.7	N82	31.8
Central eclipse at local apparent noon	20	12.9	W126	26.7	N12	29.0
End of northern limit of penumbra	21	33.2	W 60	18.1	N29	37.7
End of southern limit of penumbra	22	16.7	W 60	58.6	S 43	58.3
End of northern limit of umbra	22	19.4	W 66	49.0	S 10	45.2
End of centre line; central eclipse ends	22	19.8	W 66	48.8	S 11	36.3
End of southern limit of umbra	22	20.2	W 66	48.4	S 12	27.1
⊙ Eclipse ends; last contact with Earth	23	25.5	W 82	29.9	S 17	39.9