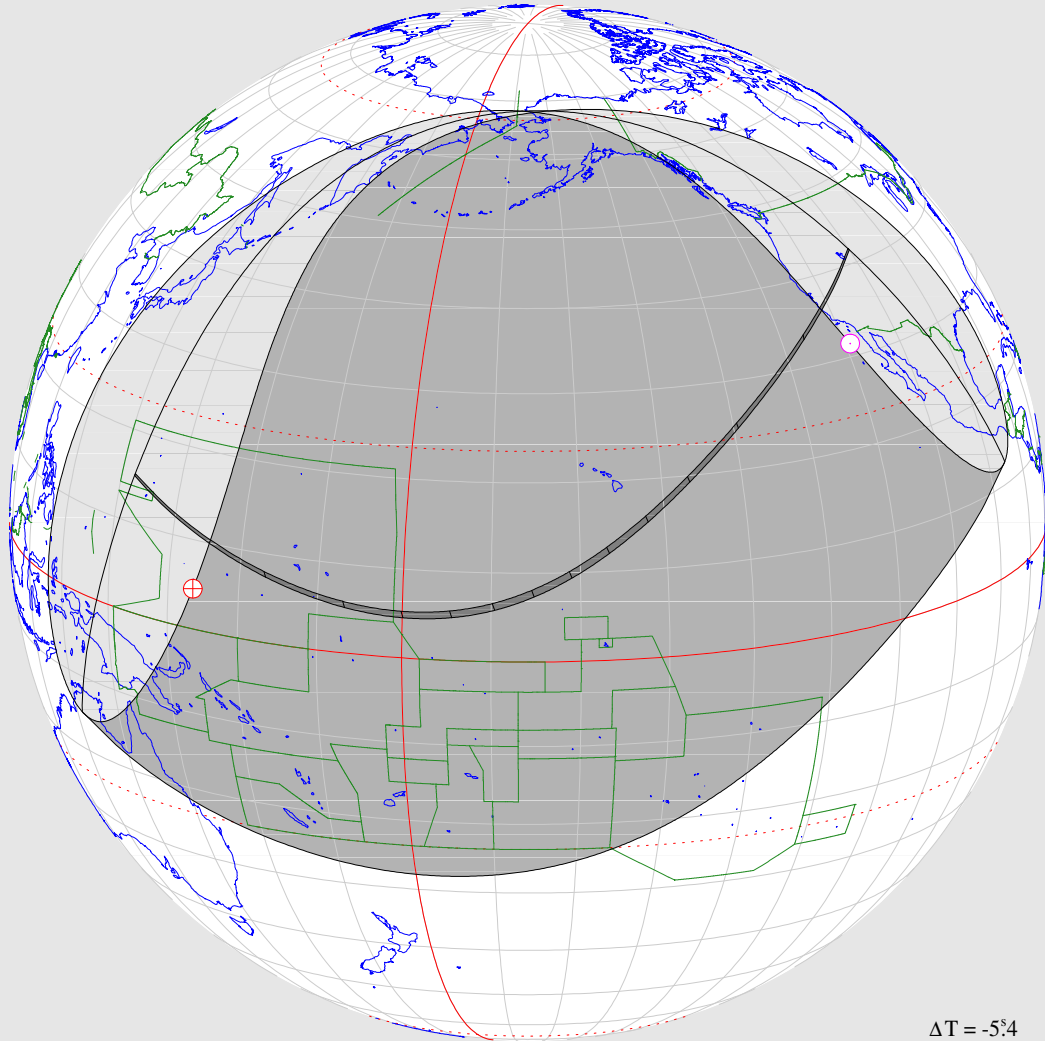


I. - Total Eclipse of the Sun

1880 January 11-12



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ΔT = -5:4
Globe centred on W 165°9 and N 15°6

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	20	00.8	E 153	39.9	N 4	33.6
Beginning of southern limit of penumbra	20	58.6	E 131	19.8	S 14	48.2
Beginning of centre line; central eclipse begins	21	04.0	E 142	18.4	N 15	14.2
Beginning of southern limit of umbra	21	03.9	E 142	16.6	N 15	06.8
Beginning of northern limit of umbra	21	04.1	E 142	20.2	N 15	21.5
Central eclipse at local apparent noon	22	48.6	W 160	05.5	N 10	19.7
End of northern limit of umbra	0	04.8	W 110	02.3	N 41	45.6
End of centre line; central eclipse ends	0	04.8	W 109	58.9	N 41	39.7
End of southern limit of umbra	0	04.9	W 109	55.5	N 41	33.7
End of southern limit of penumbra	0	10.4	W 95	34.0	N 12	21.2
⊙ Eclipse ends; last contact with Earth	1	08.1	W 119	06.9	N 31	27.5