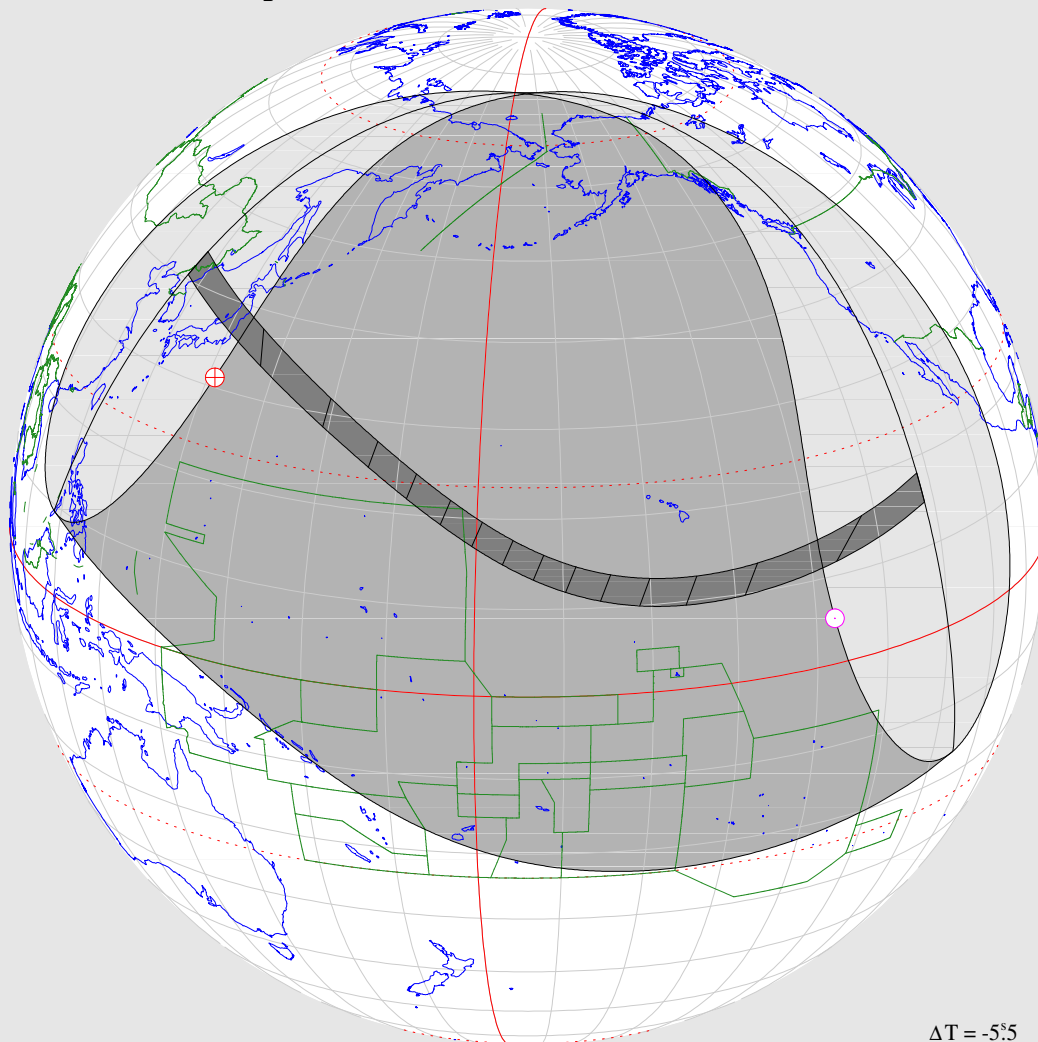


IV. - Annular Eclipse of the Sun

1883 October 30-31



©HM Nautical Almanac Office

$\Delta T = -5^s 5$
Globe centred on W 174°0 and N 19°2

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	20	53.5	E 141	08.3	N 31	05.2
Beginning of southern limit of penumbra	22	00.3	E 118	10.9	N 9	18.6
Beginning of southern limit of umbra	22	06.8	E 126	27.4	N 40	30.3
Beginning of centre line; central eclipse begins	22	08.2	E 126	50.5	N 42	08.4
Beginning of northern limit of umbra	22	09.7	E 127	14.8	N 43	47.9
Central eclipse at local apparent noon	23	36.8	W 178	16.0	N 17	18.2
End of northern limit of umbra	1	32.4	W 121	51.3	N 18	12.8
End of centre line; central eclipse ends	1	33.9	W 121	46.2	N 16	30.6
End of southern limit of umbra	1	35.3	W 121	40.2	N 14	50.1
End of southern limit of penumbra	1	41.5	W 115	11.9	S 16	37.4
⊙ Eclipse ends; last contact with Earth	2	48.5	W 137	30.7	N 5	15.3