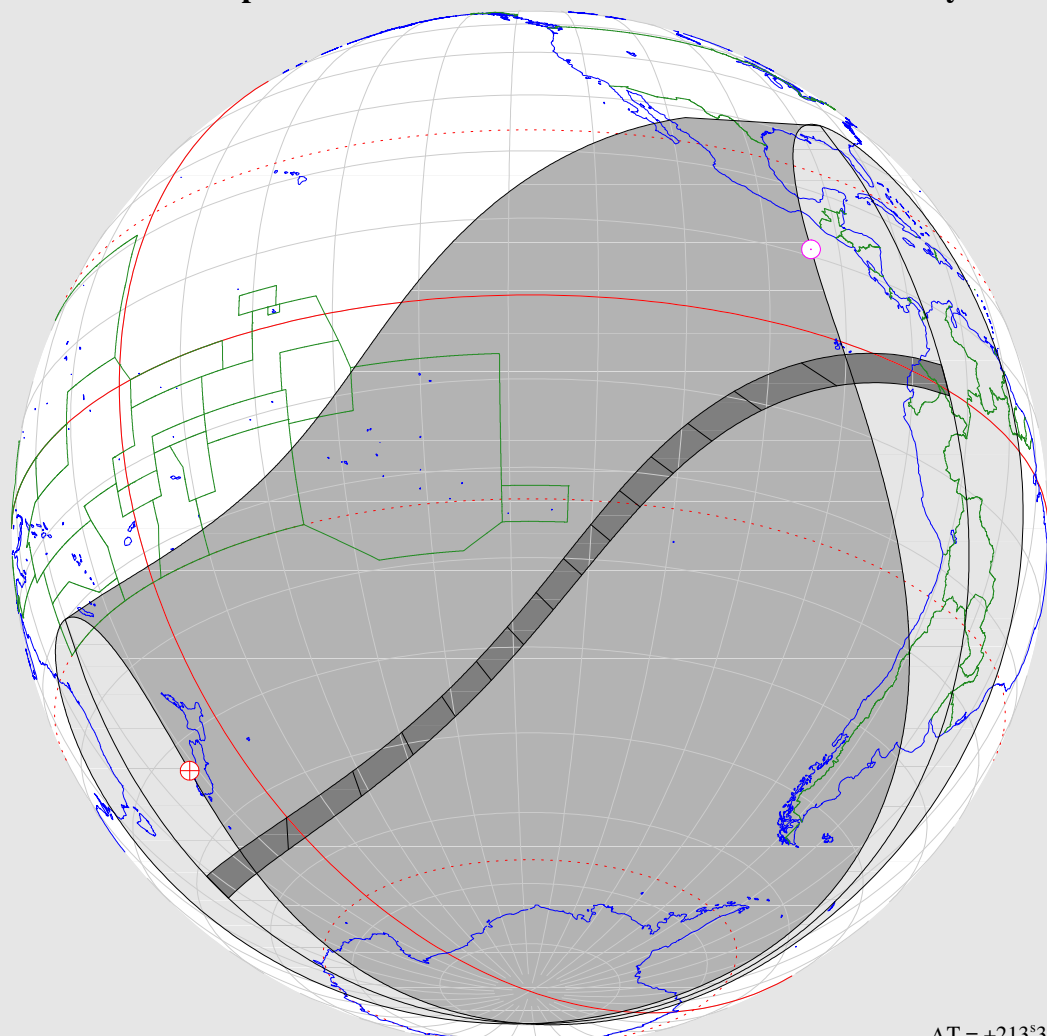


# I - Annular Eclipse of the Sun

1542 February 14-15



$\Delta T = +213^s.3$

©HM Nautical Almanac Office

Globe centred on W 127°6 and S 26°8

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	18	24.9	E 168	14.6	S 43	08.9
Beginning of northern limit of penumbra	19	20.2	E 159	59.6	S 19	52.0
Beginning of northern limit of umbra	19	35.9	E 147	30.5	S 51	14.2
Beginning of centre line; central eclipse begins	19	37.6	E 146	23.0	S 52	47.9
Beginning of southern limit of umbra	19	39.4	E 145	10.2	S 54	22.7
Central eclipse at local apparent noon	20	56.6	W 130	39.8	S 39	34.2
End of southern limit of umbra	23	08.5	W 73	33.0	S 0	30.9
End of centre line; central eclipse ends	23	10.2	W 74	15.8	N 1	07.3
End of northern limit of umbra	23	11.9	W 74	57.1	N 2	44.1
End of northern limit of penumbra	23	27.3	W 84	51.4	N 34	22.1
⊙ Eclipse ends; last contact with Earth	0	22.9	W 94	04.6	N 10	58.3