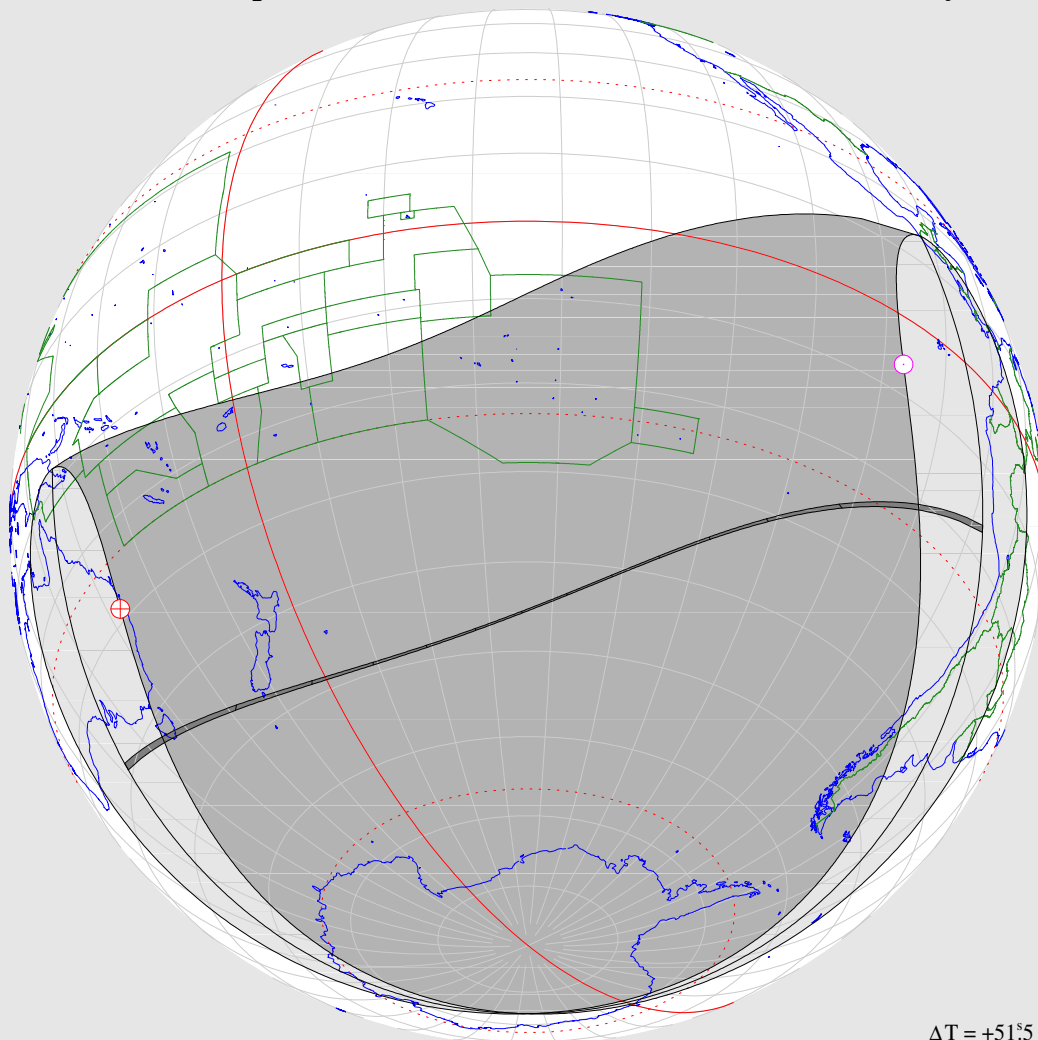


## II. - Annular Eclipse of the Sun

1981 February 04-05



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$\Delta T = +51^s.5$   
Globe centred on W 143°8 and S 36°1

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	19	27.8	E 152	29.0	S 28	40.6
Beginning of northern limit of penumbra	20	11.7	E 148	20.4	S 7	44.4
Beginning of northern limit of umbra	20	32.9	E 132	01.8	S 38	32.8
Beginning of centre line; central eclipse begins	20	33.3	E 131	45.3	S 38	54.0
Beginning of southern limit of umbra	20	33.7	E 131	28.6	S 39	15.2
Central eclipse at local apparent noon	21	57.6	W 145	54.2	S 45	53.3
End of southern limit of umbra	23	43.5	W 77	20.0	S 16	59.8
End of centre line; central eclipse ends	23	43.9	W 77	32.2	S 16	39.4
End of northern limit of umbra	23	44.3	W 77	44.4	S 16	19.1
End of northern limit of penumbra	0	05.3	W 92	09.5	N 14	47.6
⊙ Eclipse ends; last contact with Earth	0	49.2	W 96	59.8	S 6	14.8