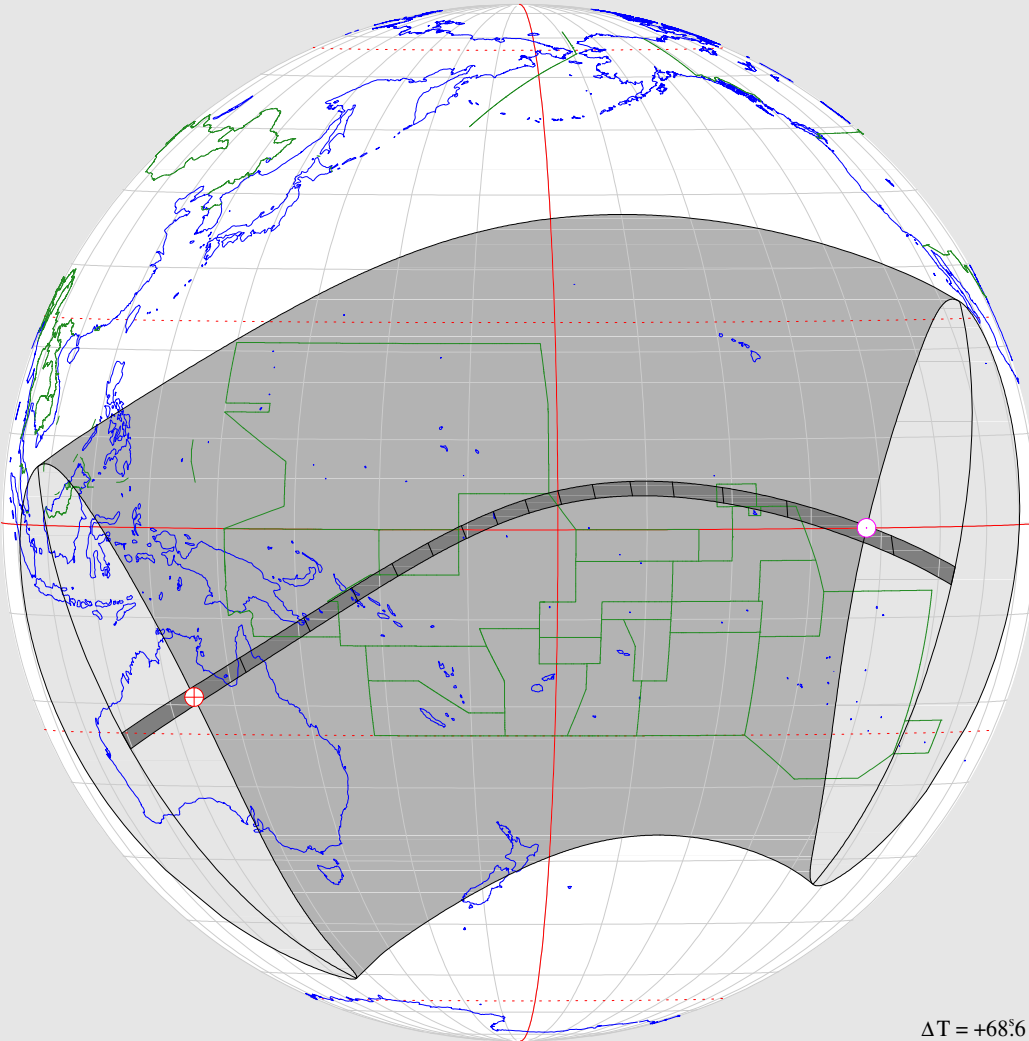


II. - Annular Eclipse of the Sun

2013 May 09-10



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ΔT = +68^m6
Globe centred on E 175°8 and N 0°8

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	21	25.1	E 134	06.4	S 19	03.9
Beginning of northern limit of umbra	22	32.4	E 118	56.0	S 23	31.6
Beginning of centre line; central eclipse begins	22	32.6	E 119	14.4	S 24	28.7
Beginning of southern limit of umbra	22	32.9	E 119	32.7	S 25	25.9
Beginning of northern limit of penumbra	22	42.3	E 106	26.3	N 6	31.0
Beginning of southern limit of penumbra	23	14.1	E 135	20.6	S 60	54.8
Central eclipse at local apparent noon	0	19.6	E 174	11.2	N 1	44.7
End of southern limit of penumbra	1	36.6	W 132	44.6	S 43	43.9
End of northern limit of penumbra	2	07.9	W 114	09.3	N 25	32.4
End of southern limit of umbra	2	17.5	W 127	20.5	S 6	25.7
End of centre line; central eclipse ends	2	17.8	W 127	05.5	S 5	26.9
End of northern limit of umbra	2	18.0	W 126	50.3	S 4	28.4
⊙ Eclipse ends; last contact with Earth	3	25.3	W 142	14.4	N 0	00.9