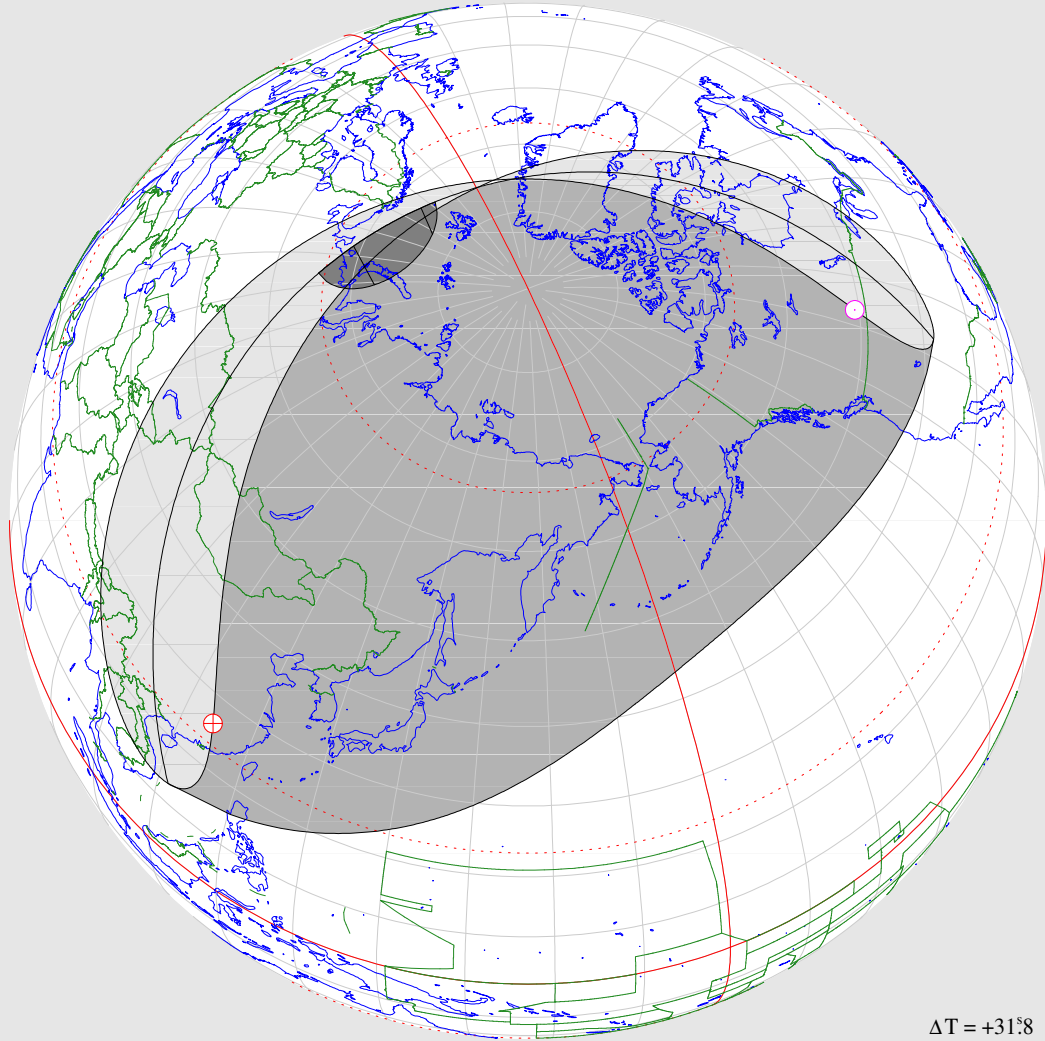


# I. - Annular Eclipse of the Sun

1957 April 29-30



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$\Delta T = +31^s.8$   
Globe centred on E 157°0 and N 63°4

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	21	50.4	E 114	20.1	N 26	16.4
Beginning of southern limit of penumbra	22	17.2	E 111	29.6	N 13	16.2
Beginning of southern limit of umbra	23	51.5	E 56	07.2	N 65	43.2
End of southern limit of umbra	0	18.0	E 18	01.1	N 74	09.2
End of southern limit of penumbra	1	52.4	W 106	57.9	N 38	05.9
○ Eclipse ends; last contact with Earth	2	19.1	W 106	53.2	N 50	38.8