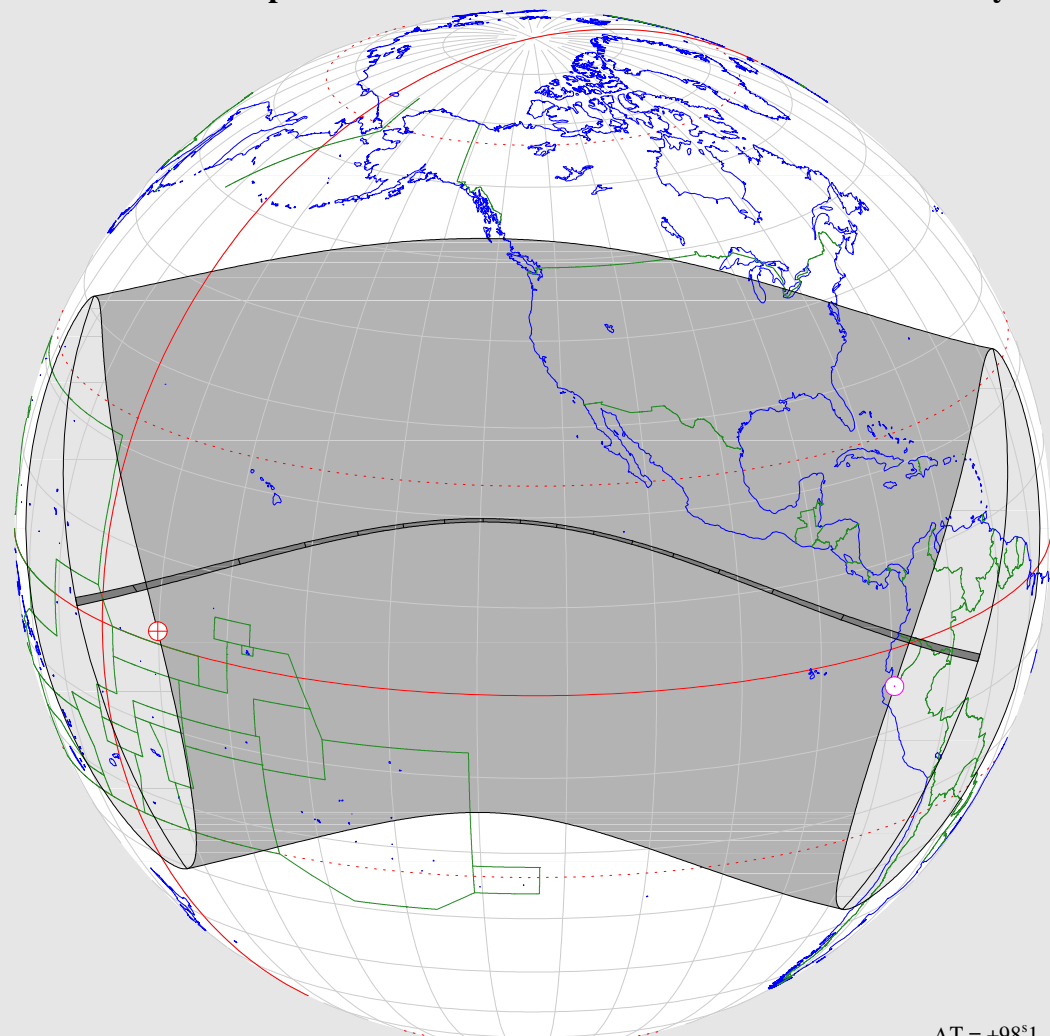


# IV. - Annular Eclipse of the Sun

2056 July 12



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$\Delta T = +98^s.1$   
Globe centred on W 123°8 and N 18°8

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	17	24.3	W170	11.6	N 1	28.9
Beginning of southern limit of umbra	18	27.0	E 174	36.4	N 0	15.9
Beginning of centre line; central eclipse begins	18	27.1	E 174	24.6	N 0	40.8
Beginning of northern limit of umbra	18	27.3	E 174	12.7	N 1	05.8
Beginning of southern limit of penumbra	18	38.5	W174	33.3	S 30	29.3
Beginning of northern limit of penumbra	18	51.6	E 154	38.2	N 31	04.4
Central eclipse at local apparent noon	20	20.6	W123	41.1	N 19	25.6
End of northern limit of penumbra	21	49.1	W 44	58.5	N 25	13.0
End of southern limit of penumbra	22	02.1	W 76	03.6	S 36	14.4
End of northern limit of umbra	22	13.4	W 63	50.8	S 4	54.7
End of centre line; central eclipse ends	22	13.5	W 64	02.1	S 5	18.3
End of southern limit of umbra	22	13.6	W 64	13.4	S 5	42.0
⊙ Eclipse ends; last contact with Earth	23	16.3	W 79	24.4	S 4	30.4