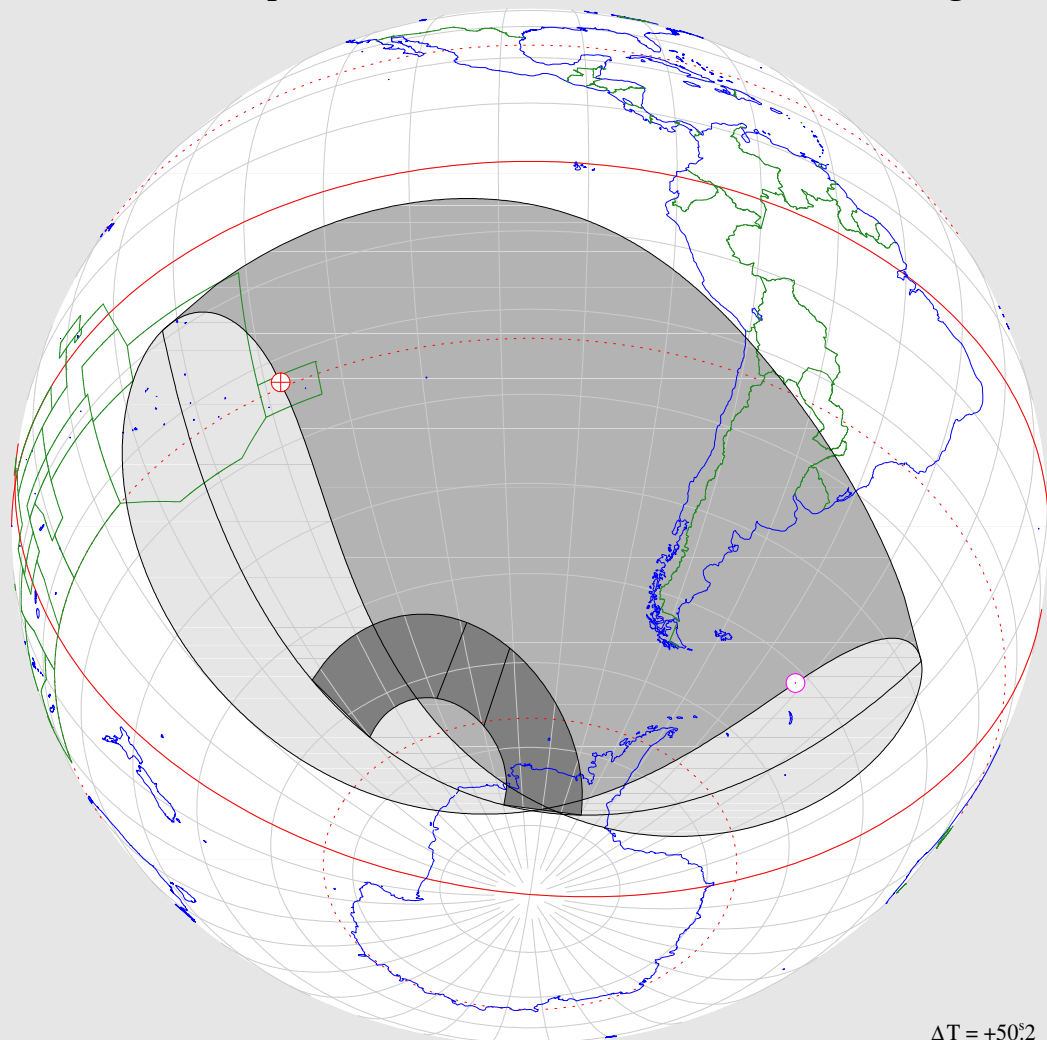


### III. - Annular Eclipse of the Sun

1979 August 22



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$\Delta T = +50^s.2$   
Globe centred on W 96°5 and S 44°8

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	14	55.1	W127	57.4	S 22	50.9
Beginning of northern limit of penumbra	15	39.6	W142	19.3	S 8	40.6
Beginning of northern limit of umbra	16	43.0	W142	55.5	S 54	32.9
Beginning of centre line; central eclipse begins	16	51.0	W142	11.6	S 58	18.4
Beginning of southern limit of umbra	17	02.3	W140	08.4	S 63	24.3
End of southern limit of umbra	17	40.8	W109	25.5	S 77	00.6
Central eclipse at local apparent noon	17	51.8	W 87	13.5	S 75	51.0
End of centre line; central eclipse ends	17	52.2	W 86	26.4	S 78	11.3
End of northern limit of umbra	18	00.2	W 69	28.3	S 77	28.1
End of northern limit of penumbra	19	03.8	W 24	27.1	S 37	29.4
⊙ Eclipse ends; last contact with Earth	19	48.3	W 41	26.9	S 51	19.2