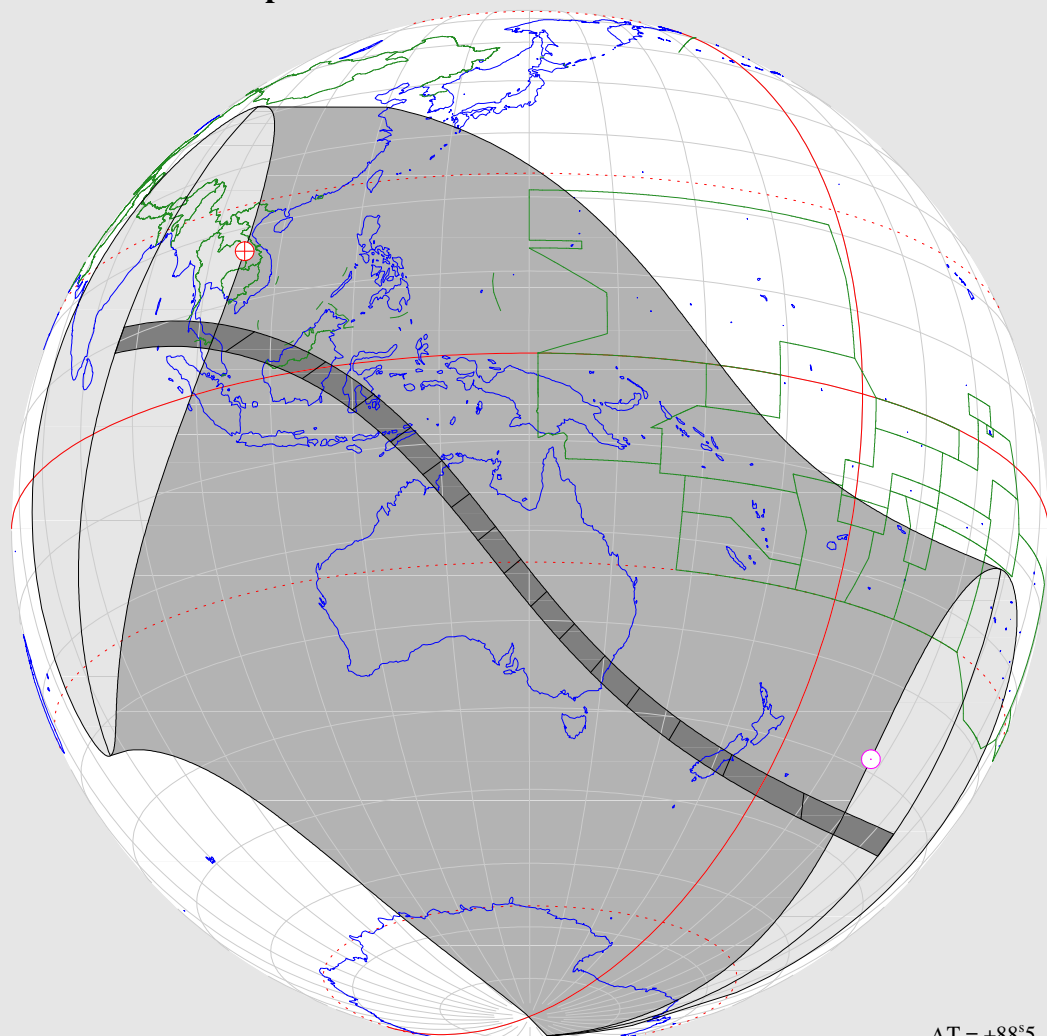


IV. - Annular Eclipse of the Sun

2042 October 13-14



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$\Delta T = +88^s.5$
Globe centred on E 140°1 and S 19°8

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	22 55.7	E 105 01.9	N 16 38.9
Beginning of northern limit of penumbra	23 59.7	E 94 14.1	N 42 57.9
Beginning of northern limit of umbra	0 04.7	E 87 01.8	N 11 37.2
Beginning of centre line; central eclipse begins	0 05.8	E 86 32.3	N 10 09.0
Beginning of southern limit of umbra	0 06.9	E 86 01.8	N 8 40.1
Beginning of southern limit of penumbra	1 03.8	E 65 15.1	S 33 00.2
Central eclipse at local apparent noon	2 18.2	E 141 57.3	S 28 21.9
End of southern limit of penumbra	2 54.0	W 53 19.4	S 81 47.7
End of southern limit of umbra	3 51.2	W 142 35.2	S 46 32.6
End of centre line; central eclipse ends	3 52.4	W 143 19.2	S 45 04.8
End of northern limit of umbra	3 53.5	W 144 00.6	S 43 37.6
End of northern limit of penumbra	3 59.0	W 151 27.0	S 12 17.9
⊙ Eclipse ends; last contact with Earth	5 02.6	W 162 31.8	S 38 38.7