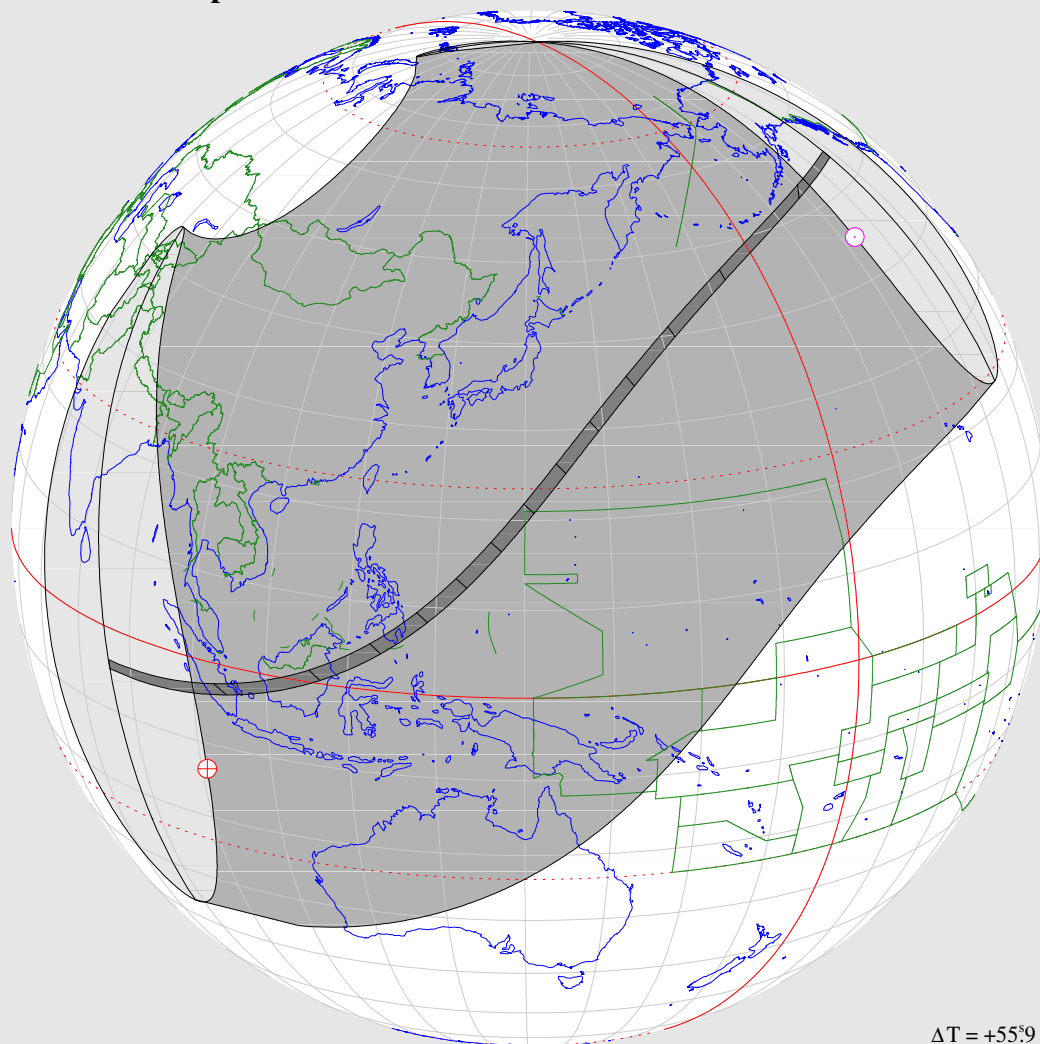


II. - Total Eclipse of the Sun

1988 March 17-18



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$\Delta T = +55^s.9$
Globe centred on E 140°6' and N 19°1'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	23	24.0	E 100	48.5	S 13	22.5
Beginning of southern limit of penumbra	0	15.1	E 87	33.8	S 36	07.9
Beginning of southern limit of umbra	0	23.1	E 86	10.6	S 4	53.1
Beginning of centre line; central eclipse begins	0	23.5	E 86	05.4	S 4	21.8
Beginning of northern limit of umbra	0	23.9	E 86	00.0	S 3	50.5
Beginning of northern limit of penumbra	1	28.2	E 70	54.0	N 44	32.0
Central eclipse at local apparent noon	2	22.2	E 146	28.4	N 27	53.9
End of northern limit of penumbra	2	27.1	E 59	16.2	N 77	12.9
End of northern limit of umbra	3	31.9	W 142	11.5	N 54	34.6
End of centre line; central eclipse ends	3	32.2	W 142	16.0	N 54	04.1
End of southern limit of umbra	3	32.6	W 142	20.3	N 53	33.8
End of southern limit of penumbra	3	41.0	W 143	35.1	N 22	20.6
⊙ Eclipse ends; last contact with Earth	4	31.9	W 156	49.3	N 45	04.8