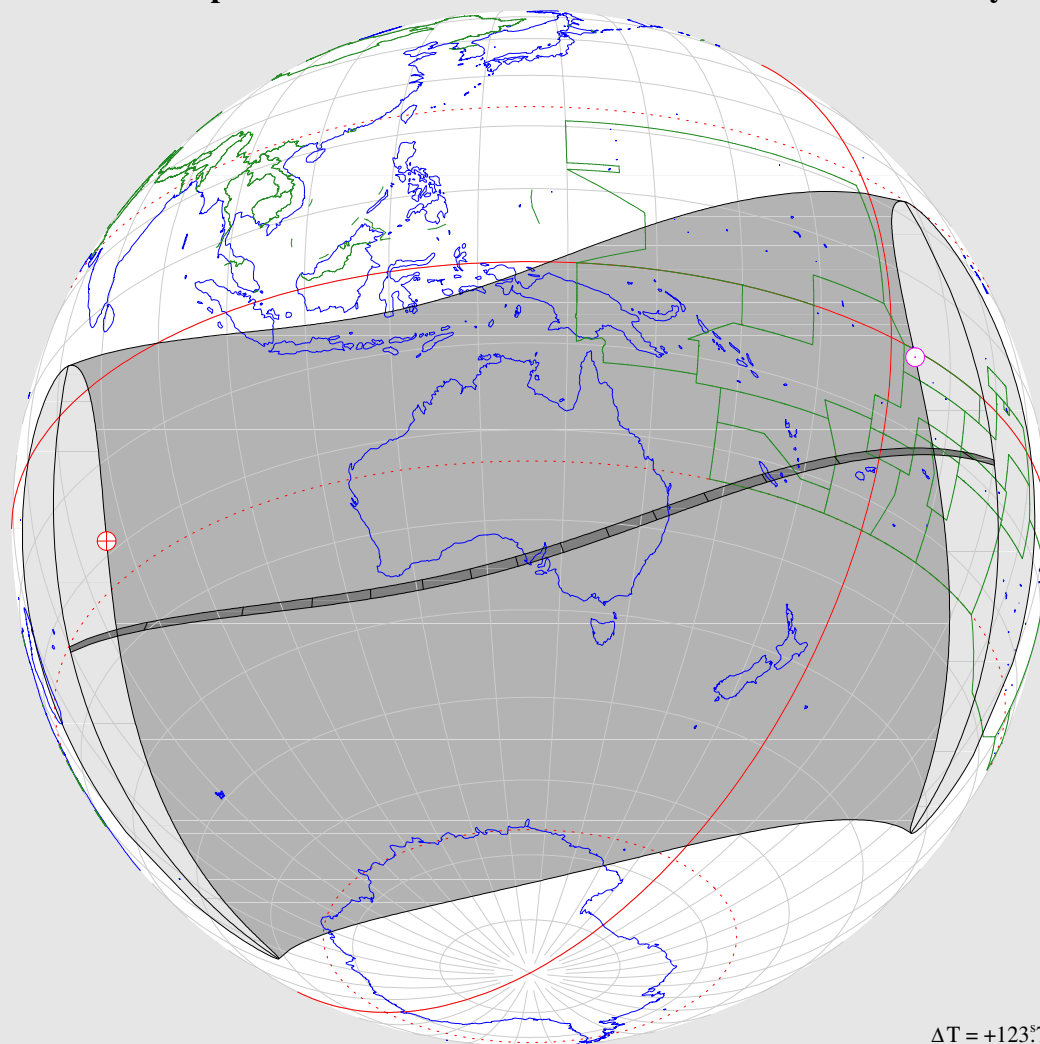


## II. - Total Eclipse of the Sun

2093 January 27



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ΔT = +123:7  
Globe centred on E 135°8 and S 31°0

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	0 41.8	E 76 20.5	S 18 30.6
Beginning of northern limit of penumbra	1 31.3	E 72 14.3	N 5 43.2
Beginning of northern limit of umbra	1 39.6	E 59 56.8	S 23 36.7
Beginning of centre line; central eclipse begins	1 39.8	E 59 47.2	S 23 52.8
Beginning of southern limit of umbra	1 40.0	E 59 37.6	S 24 09.0
Beginning of southern limit of penumbra	2 24.1	E 24 20.6	S 58 36.7
Central eclipse at local apparent noon	3 15.6	E 134 16.4	S 34 34.5
End of southern limit of penumbra	4 16.5	W 133 14.1	S 42 40.8
End of southern limit of umbra	5 00.4	W 159 45.5	S 6 35.7
End of centre line; central eclipse ends	5 00.6	W 159 53.7	S 6 20.2
End of northern limit of umbra	5 00.8	W 160 01.8	S 6 04.7
End of northern limit of penumbra	5 09.0	W 172 15.8	N 23 17.6
⊙ Eclipse ends; last contact with Earth	5 58.6	W 176 11.8	S 0 55.0