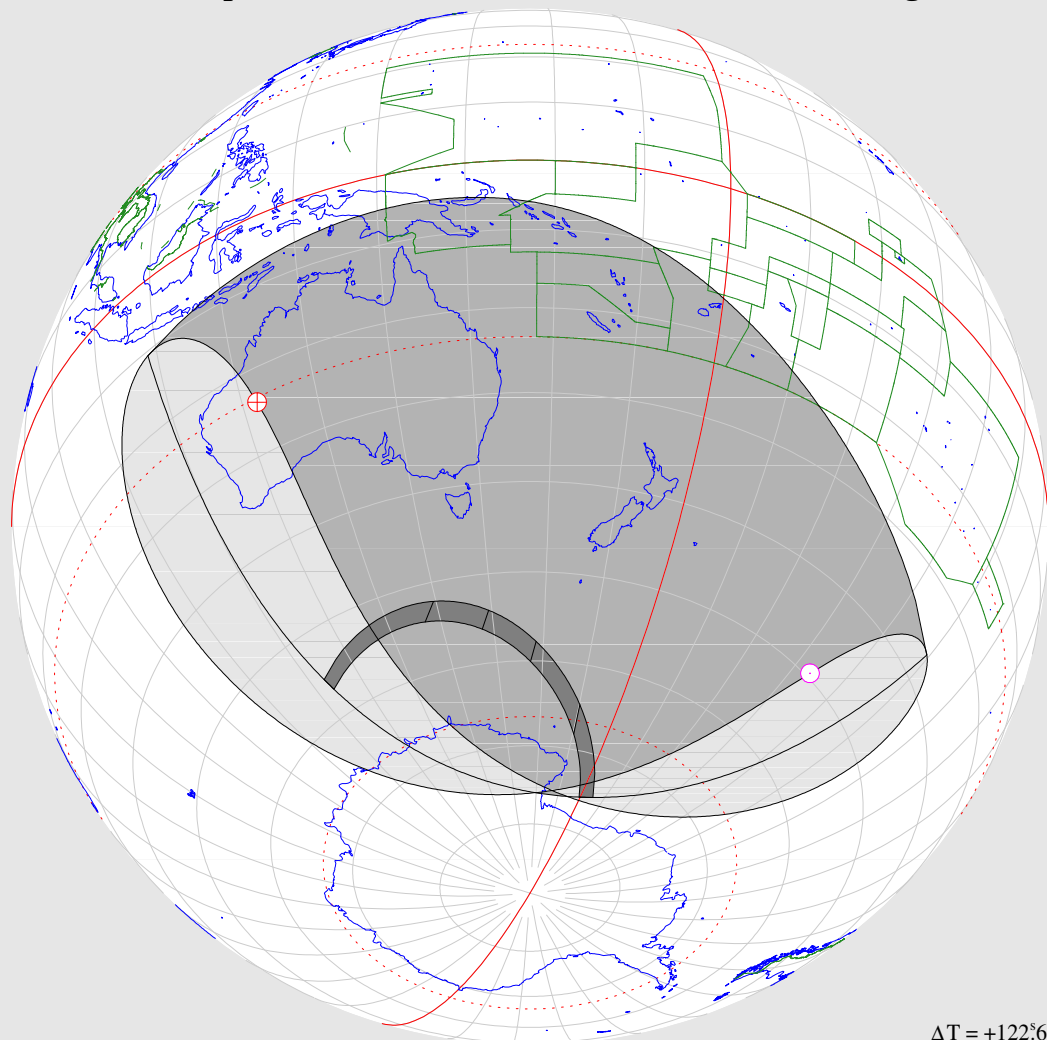


III. - Total Eclipse of the Sun

2091 August 14-15



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$\Delta T = +122^{\text{s}}.6$
Globe centred on E 157°2 and S 45°0

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	22 22.2	E 122 00.7	S 24 00.4
Beginning of northern limit of penumbra	23 00.9	E 108 37.7	S 10 36.4
Beginning of northern limit of umbra	23 58.2	E 112 49.2	S 55 22.9
Beginning of centre line; central eclipse begins	23 59.6	E 113 05.3	S 56 07.7
Beginning of southern limit of umbra	0 01.1	E 113 23.6	S 56 54.3
Central eclipse at local apparent noon	0 56.9	E 166 56.8	S 64 08.1
End of southern limit of umbra	1 03.8	E 179 33.7	S 75 34.0
End of centre line; central eclipse ends	1 05.4	W 177 26.0	S 75 19.8
End of northern limit of umbra	1 06.9	W 174 40.1	S 75 03.5
End of northern limit of penumbra	2 04.3	W 130 31.8	S 36 30.0
⊙ Eclipse ends; last contact with Earth	2 42.8	W 146 30.3	S 49 30.3