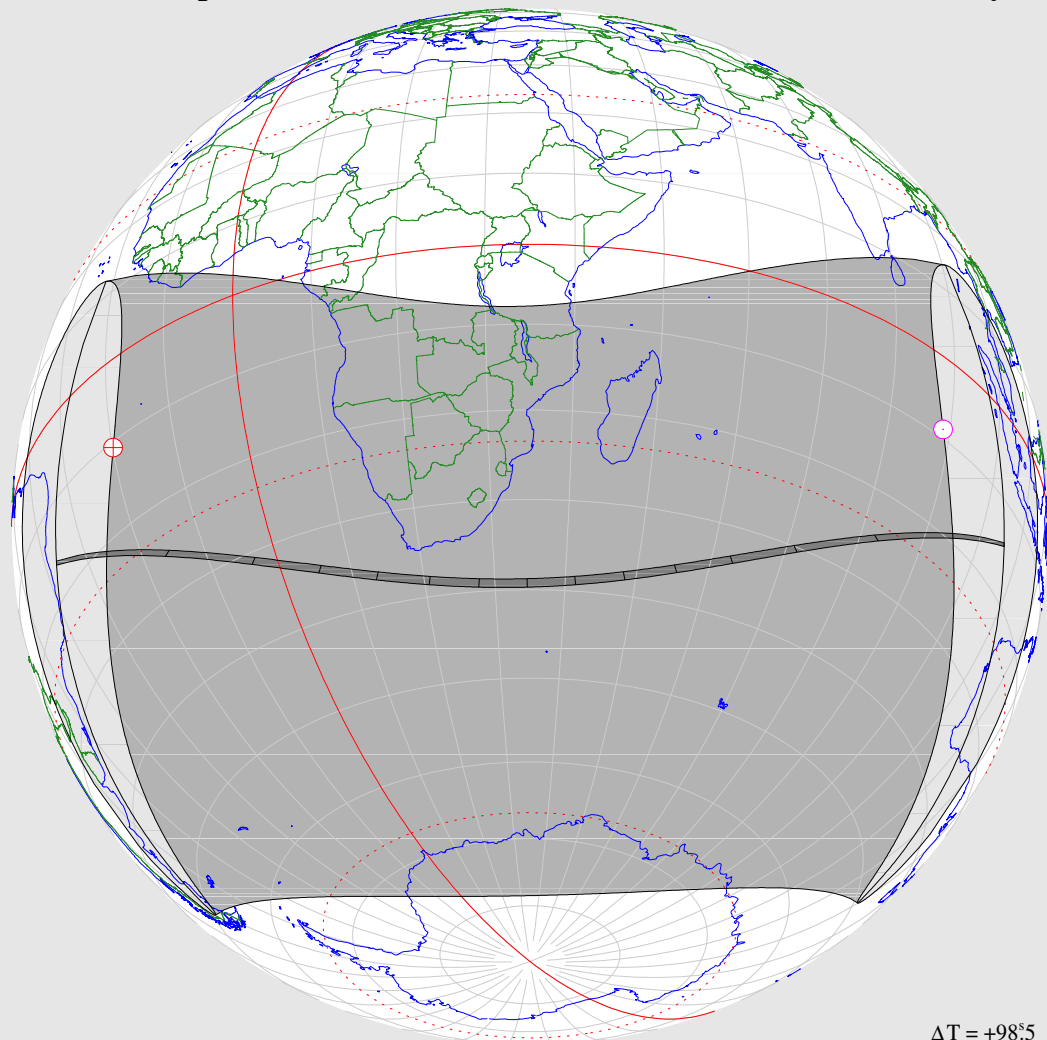


I. - Total Eclipse of the Sun

2057 January 05



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$\Delta T = +98^s.5$
Globe centred on E 35°0 and S 33°0

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	7 07.2	W 19 55.4	S 10 39.5
Beginning of northern limit of penumbra	7 54.7	W 21 58.0	N12 37.3
Beginning of northern limit of umbra	8 05.5	W 36 49.1	S 15 55.5
Beginning of centre line; central eclipse begins	8 05.7	W 36 56.8	S 16 06.9
Beginning of southern limit of umbra	8 05.9	W 37 04.4	S 16 18.3
Beginning of southern limit of penumbra	8 52.1	W 72 01.3	S 50 36.9
Central eclipse at local apparent noon	9 45.7	E 34 56.3	S 39 13.5
End of southern limit of penumbra	10 40.3	E 139 55.7	S 49 07.5
End of southern limit of umbra	11 26.6	E 105 54.8	S 14 33.9
End of centre line; central eclipse ends	11 26.7	E 105 47.8	S 14 23.4
End of northern limit of umbra	11 26.9	E 105 40.9	S 14 12.9
End of northern limit of penumbra	11 37.8	E 90 49.9	N14 22.1
⊙ Eclipse ends; last contact with Earth	12 25.3	E 88 47.5	S 8 55.4