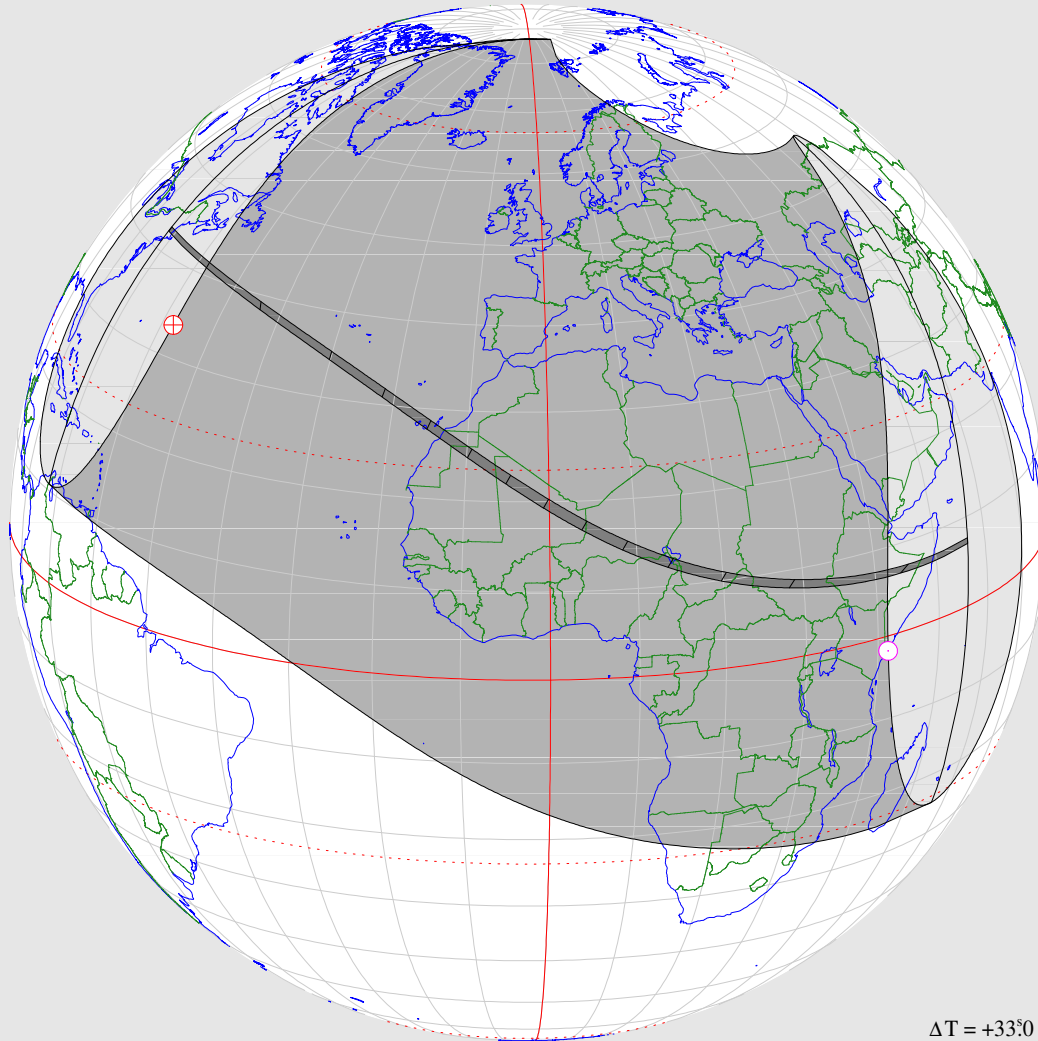


IV. - Total Eclipse of the Sun

1959 October 02



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$\Delta T = +33^s 0$
Globe centred on W 29.5 and N 17.7

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	9 49.1	W 57 39.7	N33 31.4
Beginning of southern limit of penumbra	10 42.5	W 72 36.5	N10 40.0
Beginning of southern limit of umbra	10 50.2	W 72 04.3	N42 18.2
Beginning of centre line; central eclipse begins	10 50.4	W 72 05.6	N42 35.2
Beginning of northern limit of umbra	10 50.6	W 72 06.9	N42 52.2
Beginning of northern limit of penumbra	11 58.5	E 34 10.2	N85 47.5
Central eclipse at local apparent noon	12 12.3	W 5 41.3	N22 56.6
End of northern limit of penumbra	12 54.8	E 68 23.5	N57 09.8
End of northern limit of umbra	14 02.5	E 56 18.4	N 7 38.8
End of centre line; central eclipse ends	14 02.7	E 56 16.1	N 7 20.6
End of southern limit of umbra	14 02.9	E 56 13.9	N 7 02.3
End of southern limit of penumbra	14 10.2	E 56 23.6	S 24 36.3
⊙ Eclipse ends; last contact with Earth	15 03.8	E 41 32.3	S 1 44.5