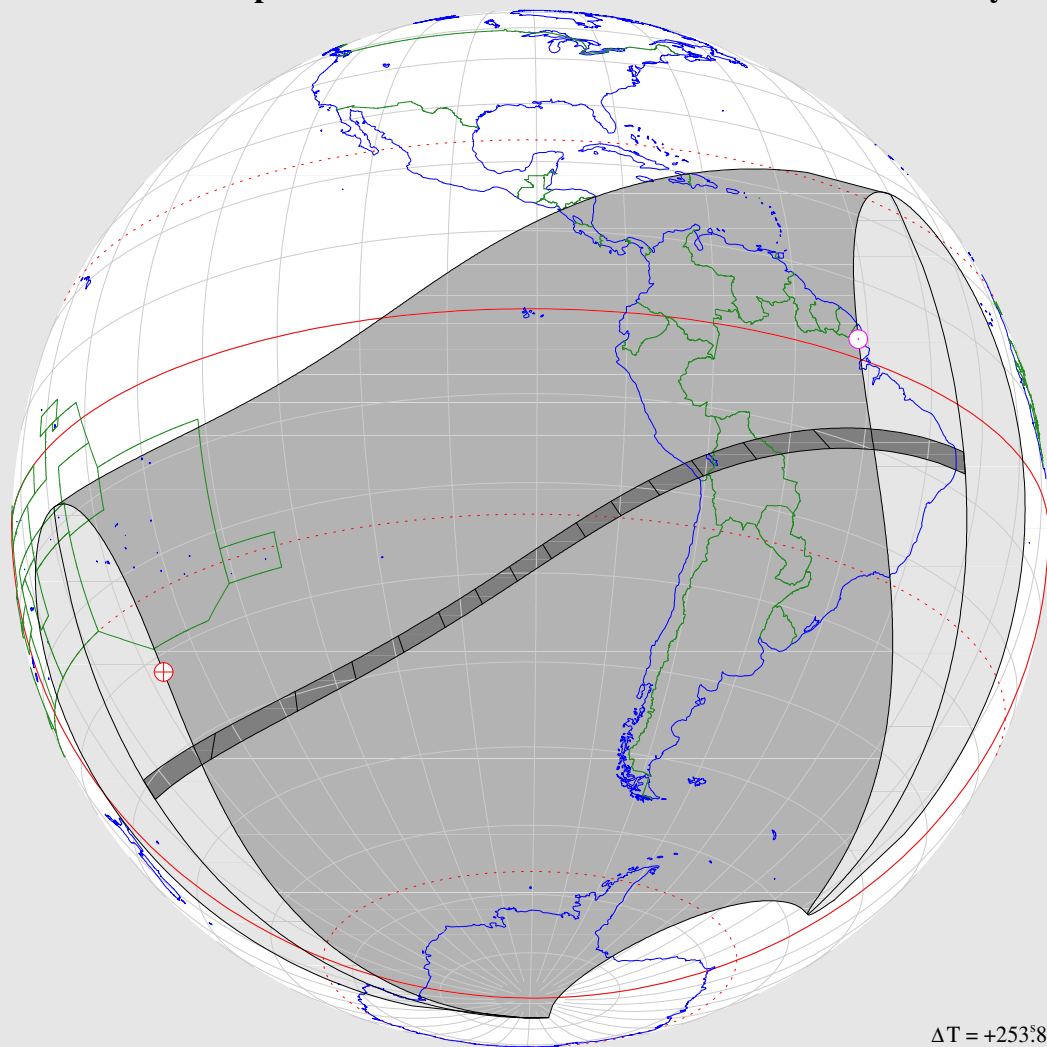


## II. - Annular Eclipse of the Sun

1514 February 24



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$\Delta T = +253^s.8$   
Globe centred on W 90°8' and S 25°1'

Circumstances	Time (UT)	Longitude	Latitude
	h m	o /	o /
⊕ Eclipse begins; first contact with Earth	15 45.7	W147 03.0	S 31 46.5
Beginning of northern limit of penumbra	16 43.4	W158 36.7	S 7 27.1
Beginning of northern limit of umbra	16 54.0	W165 15.8	S 39 17.0
Beginning of centre line; central eclipse begins	16 55.0	W165 44.0	S 40 28.2
Beginning of southern limit of umbra	16 56.1	W166 13.4	S 41 40.1
Beginning of southern limit of penumbra	18 12.3	E 69 37.5	S 83 49.6
Central eclipse at local apparent noon	18 27.1	W 93 46.3	S 30 33.1
End of southern limit of penumbra	19 10.7	W 5 33.6	S 57 27.8
End of southern limit of umbra	20 26.5	W 32 53.4	S 7 30.9
End of centre line; central eclipse ends	20 27.6	W 33 16.7	S 6 19.8
End of northern limit of umbra	20 28.6	W 33 39.3	S 5 09.4
End of northern limit of penumbra	20 38.9	W 39 39.0	N 26 44.0
⊙ Eclipse ends; last contact with Earth	21 36.8	W 51 27.1	N 2 24.0