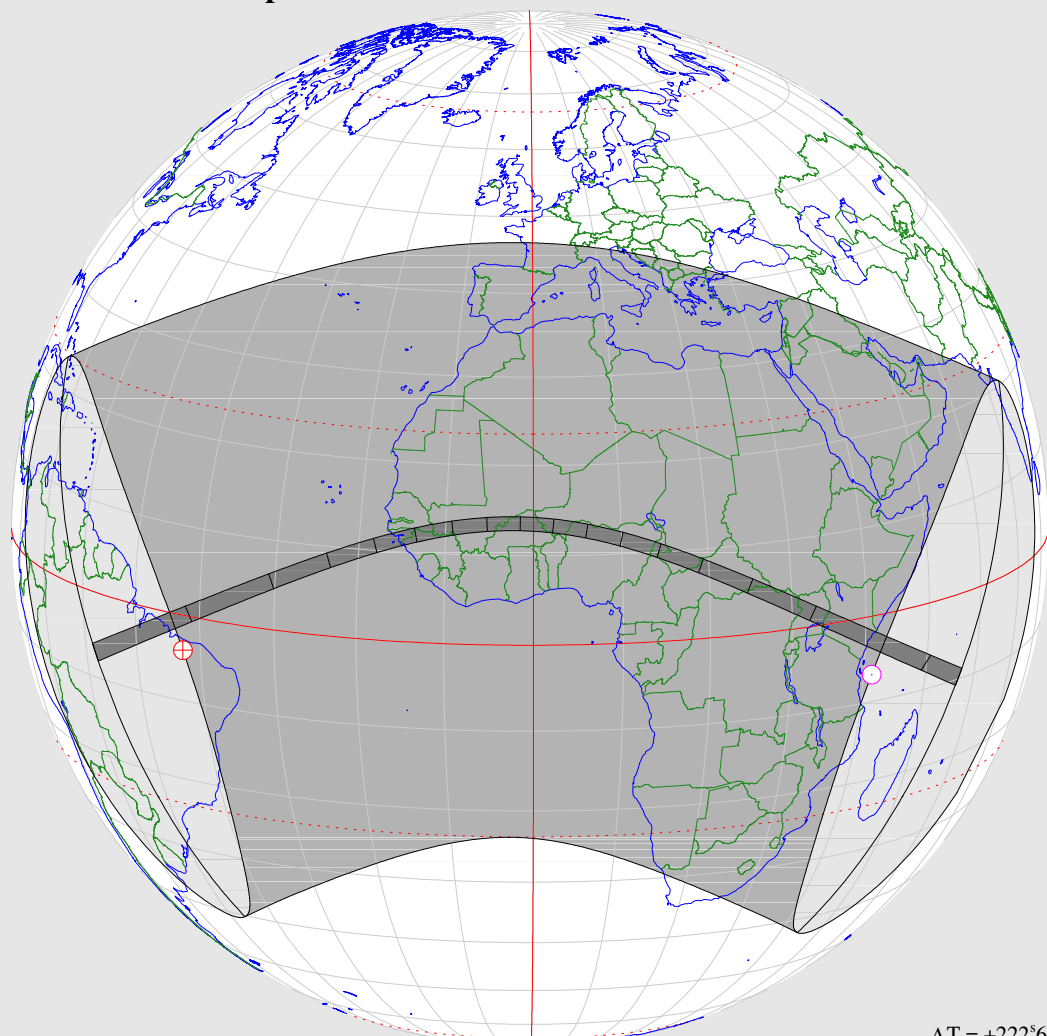


# IV. - Annular Eclipse of the Sun

1535 June 30



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$\Delta T = +222^s.6$   
Globe centred on W 0°4 and N 13°0

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	9 01.0	W 42 33.9	S 4 00.8
Beginning of centre line; central eclipse begins	10 08.1	W 58 04.8	S 7 01.7
Beginning of southern limit of umbra	10 08.0	W 57 40.1	S 7 58.0
Beginning of northern limit of umbra	10 08.2	W 58 29.8	S 6 05.6
Beginning of northern limit of penumbra	10 27.4	W 75 59.3	N 23 09.0
Beginning of southern limit of penumbra	10 31.5	W 46 25.6	S 40 13.5
Central eclipse at local apparent noon	12 05.1	W 0 14.2	N 13 29.6
End of southern limit of penumbra	13 37.6	E 44 12.5	S 42 46.2
End of northern limit of penumbra	13 41.8	E 74 25.5	N 20 26.5
End of northern limit of umbra	14 00.9	E 57 06.6	S 8 50.5
End of centre line; central eclipse ends	14 01.0	E 56 41.6	S 9 46.0
End of southern limit of umbra	14 01.1	E 56 16.8	S 10 41.6
⊙ Eclipse ends; last contact with Earth	15 08.1	E 41 12.1	S 6 45.3