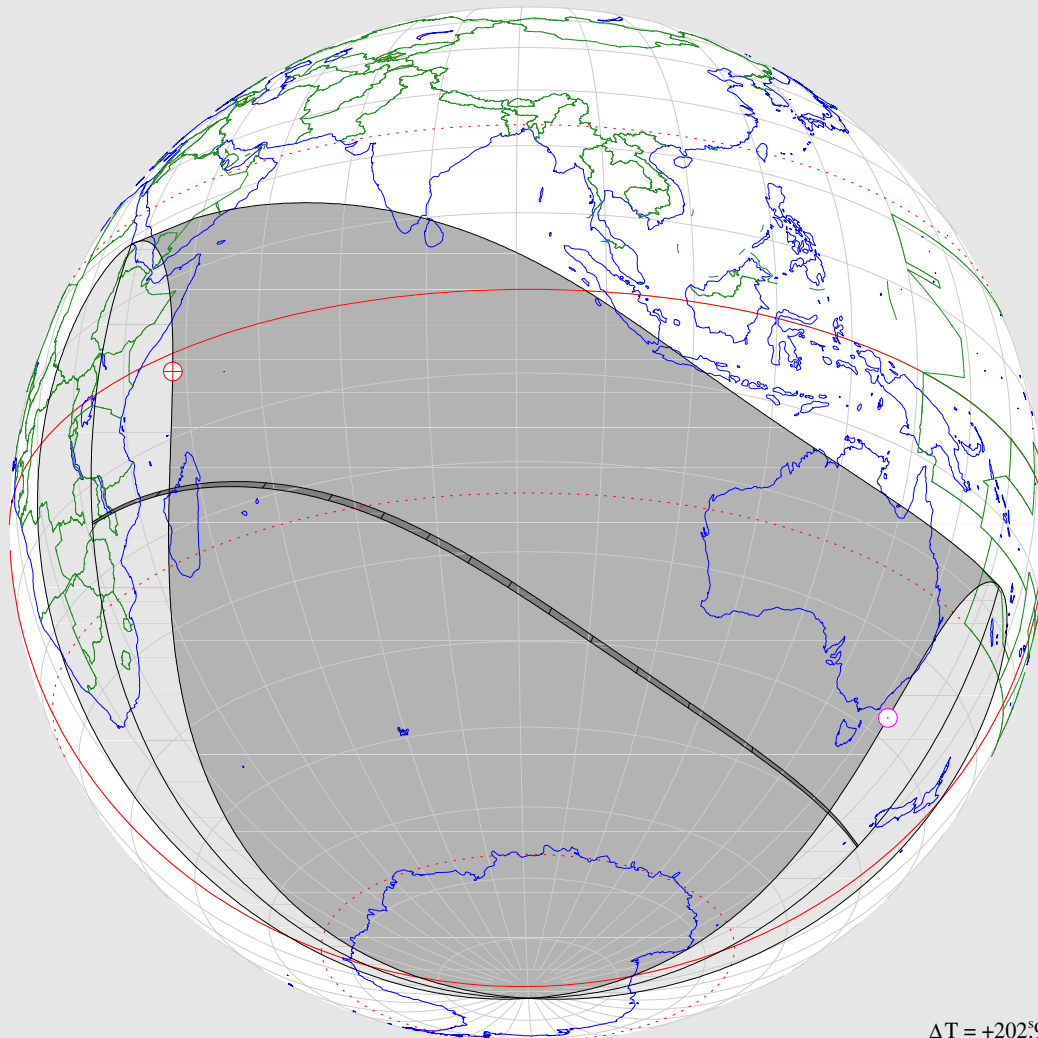


III. - Total Eclipse of the Sun

1549 September 21



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ΔT = +202'9
Globe centred on E 91°3' and S 27°0'

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	2 37.4	E 47 59.9	S 2 13.2
Beginning of northern limit of penumbra	3 24.4	E 37 23.2	N18 50.5
Beginning of northern limit of umbra	3 41.7	E 31 16.9	S 13 58.4
Beginning of centre line; central eclipse begins	3 41.8	E 31 14.5	S 14 06.3
Beginning of southern limit of umbra	3 42.0	E 31 12.0	S 14 14.2
Central eclipse at local apparent noon	5 30.9	E 94 42.8	S 36 43.9
End of southern limit of umbra	6 43.8	E 170 04.3	S 49 40.0
End of centre line; central eclipse ends	6 43.9	E 170 01.8	S 49 33.5
End of northern limit of umbra	6 44.0	E 169 59.3	S 49 27.0
End of northern limit of penumbra	7 01.7	E 162 55.8	S 16 40.5
⊙ Eclipse ends; last contact with Earth	7 48.5	E 152 40.0	S 37 42.4