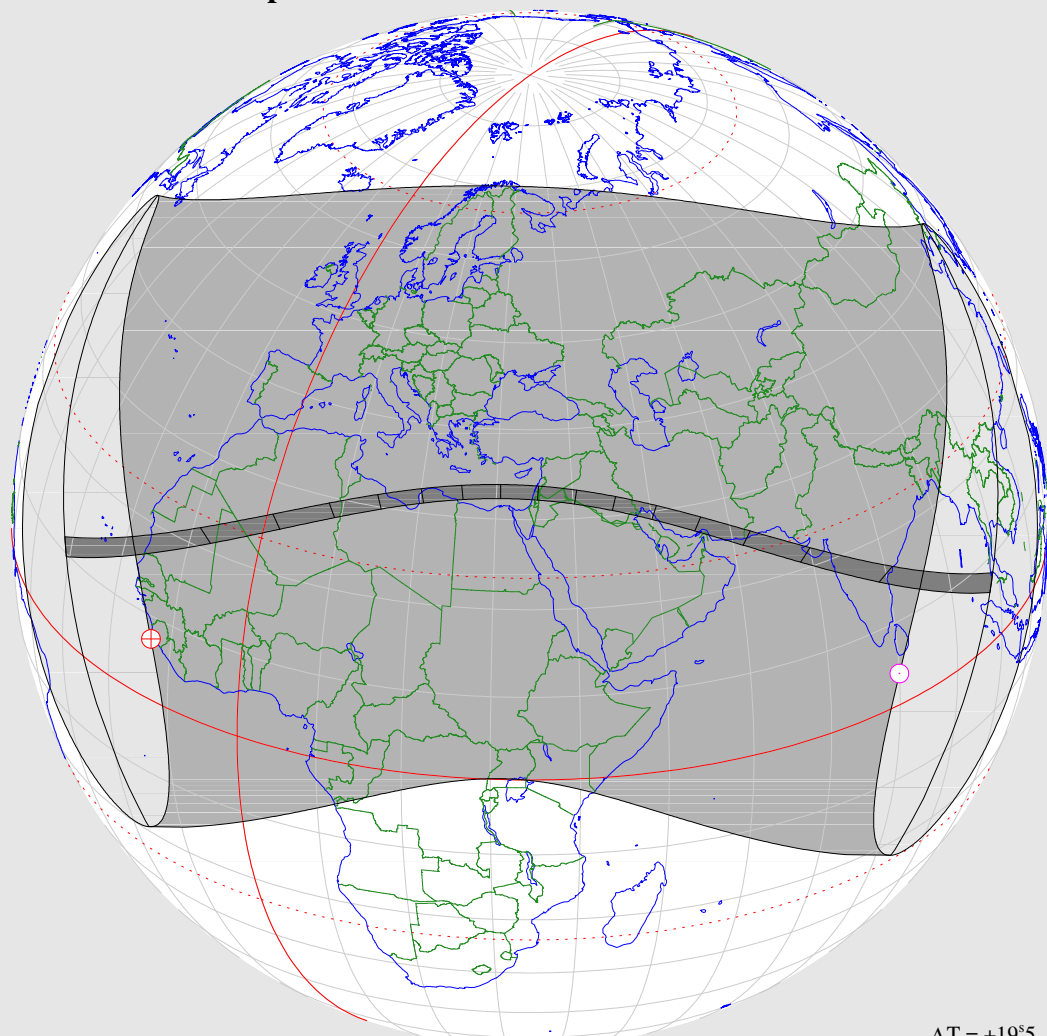


III. - Annular Eclipse of the Sun

1676 June 11



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$\Delta T = +19^s.5$
Globe centred on E 34°4 and N 29°0

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	6 38.7	W 13 06.0	N 7 22.1
Beginning of southern limit of penumbra	7 40.0	W 16 41.2	S 19 11.0
Beginning of southern limit of umbra	7 45.2	W 30 43.4	N 9 39.9
Beginning of centre line; central eclipse begins	7 46.0	W 31 19.5	N 10 36.3
Beginning of northern limit of umbra	7 46.7	W 31 56.3	N 11 32.8
Beginning of northern limit of penumbra	8 29.5	W 61 50.0	N 43 46.4
Central eclipse at local apparent noon	9 41.6	E 34 21.5	N 32 59.6
End of northern limit of penumbra	10 55.0	E 127 29.5	N 40 32.9
End of northern limit of umbra	11 37.8	E 98 46.9	N 8 03.0
End of centre line; central eclipse ends	11 38.6	E 98 11.0	N 7 06.8
End of southern limit of umbra	11 39.3	E 97 35.7	N 6 10.9
End of southern limit of penumbra	11 44.5	E 83 22.2	S 22 37.2
⊙ Eclipse ends; last contact with Earth	12 45.7	E 79 59.5	N 3 52.5