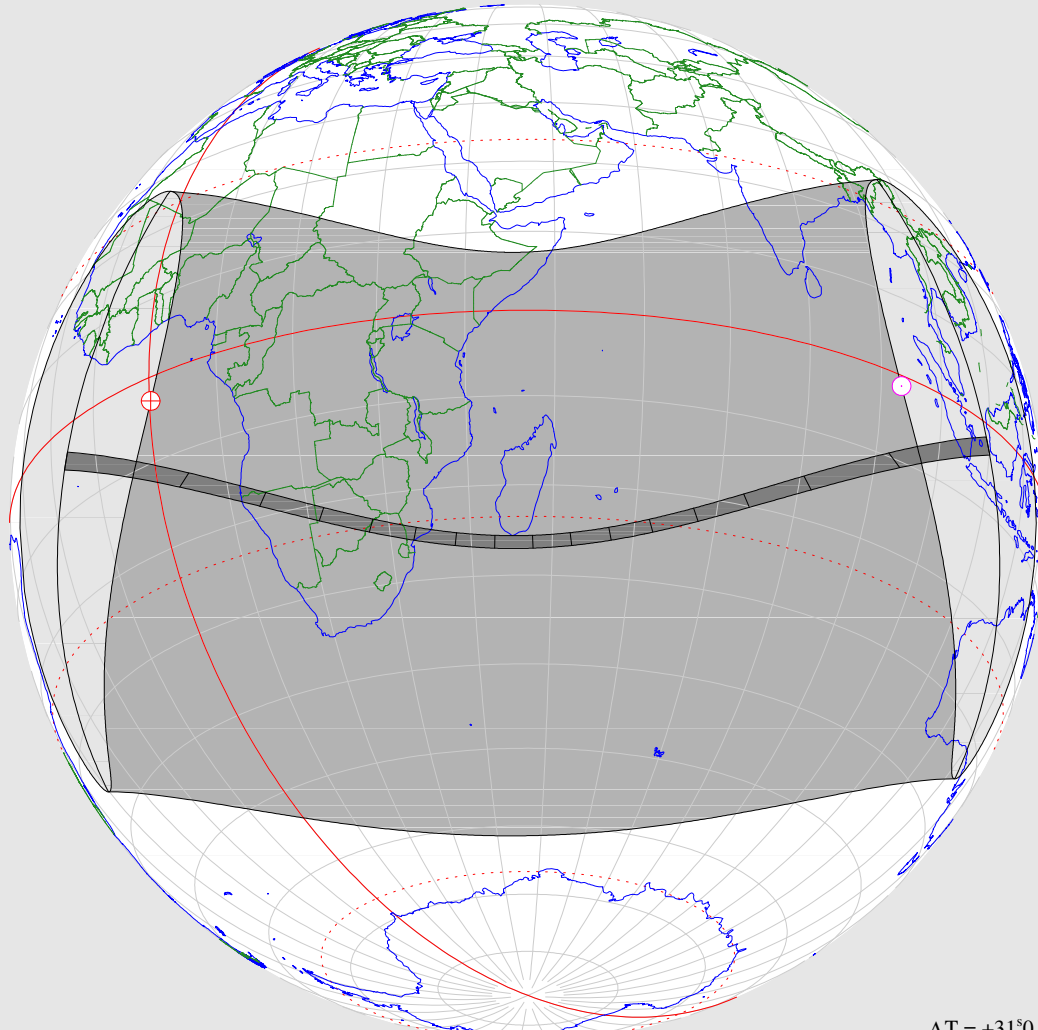


I. - Annular Eclipse of the Sun

1666 January 05



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$\Delta T = +31^s 0$
Globe centred on E 47°0' and S 24°2'

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	6 00.7	E 0 13.0	S 2 52.1
Beginning of northern limit of umbra	7 04.3	W 15 50.2	S 3 12.4
Beginning of centre line; central eclipse begins	7 04.8	W 16 19.1	S 4 04.9
Beginning of southern limit of umbra	7 05.3	W 16 48.4	S 4 57.6
Beginning of northern limit of penumbra	7 07.7	W 3 25.0	N 26 22.9
Beginning of southern limit of penumbra	7 37.7	W 40 22.3	S 35 53.5
Central eclipse at local apparent noon	8 58.2	E 47 02.5	S 26 19.4
End of southern limit of penumbra	10 18.9	E 133 25.4	S 34 24.7
End of northern limit of penumbra	10 49.0	E 96 36.8	N 27 56.8
End of southern limit of umbra	10 51.3	E 110 10.9	S 3 24.4
End of centre line; central eclipse ends	10 51.8	E 109 41.0	S 2 30.3
End of northern limit of umbra	10 52.3	E 109 11.5	S 1 36.4
⊙ Eclipse ends; last contact with Earth	11 56.0	E 93 07.6	S 1 17.4