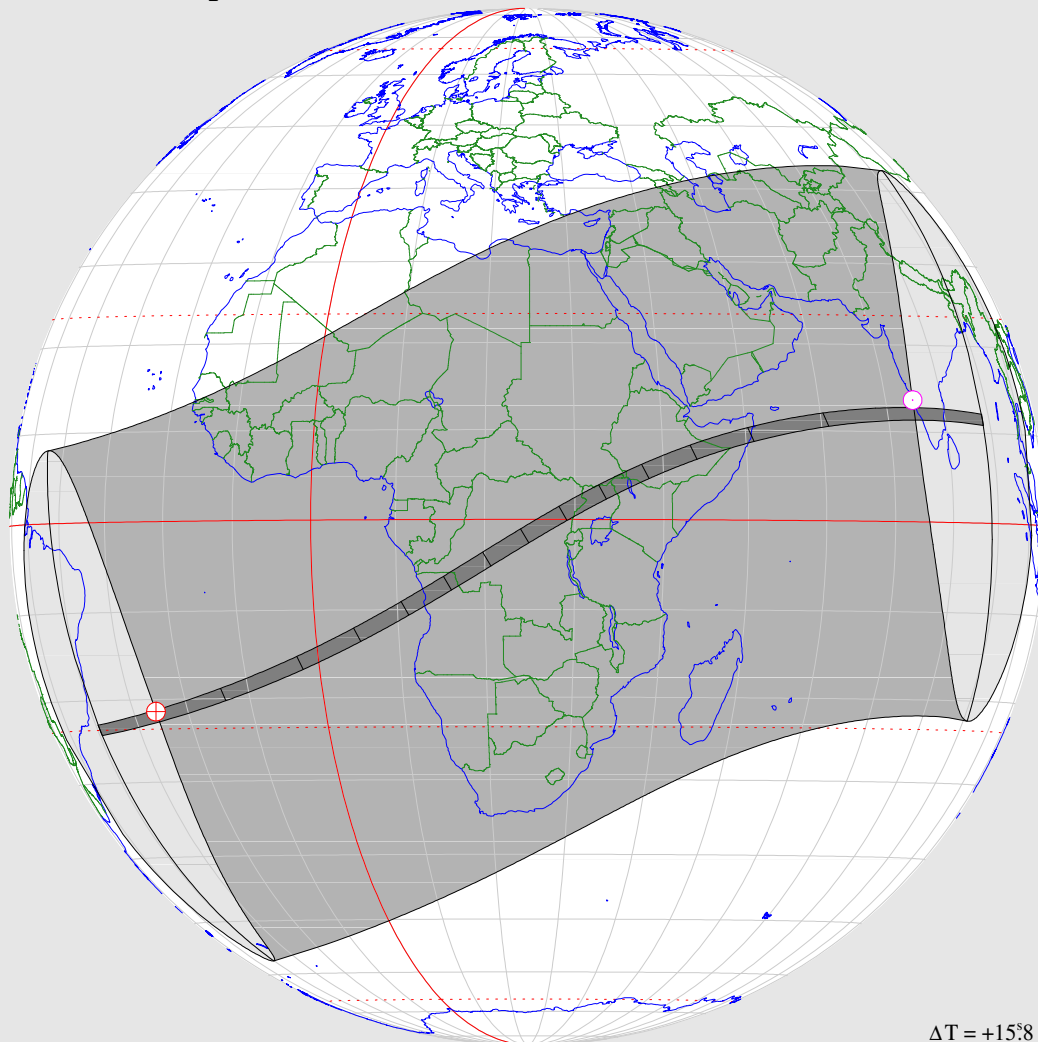


II. - Total Eclipse of the Sun

1680 March 30



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$\Delta T = +15^s.8$
Globe centred on E $24^{\circ}8'$ and S $0^{\circ}8'$

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	7 53.4	W 25 38.7	S 21 25.2
Beginning of centre line; central eclipse begins	8 49.0	W 39 21.3	S 23 30.5
Beginning of northern limit of umbra	8 48.9	W 39 23.4	S 22 52.9
Beginning of southern limit of umbra	8 49.1	W 39 19.4	S 24 08.2
Beginning of northern limit of penumbra	9 00.0	W 44 30.6	N 8 07.2
Beginning of southern limit of penumbra	9 11.1	W 40 11.8	S 57 14.8
Central eclipse at local apparent noon	10 28.3	E 23 59.2	S 2 05.4
End of southern limit of penumbra	11 52.7	E 91 09.6	S 22 21.6
End of northern limit of penumbra	12 03.2	E 94 11.8	N 43 05.0
End of southern limit of umbra	12 14.4	E 88 16.3	N 10 53.5
End of northern limit of umbra	12 14.6	E 88 19.8	N 12 10.1
End of centre line; central eclipse ends	12 14.5	E 88 17.9	N 11 31.8
⊙ Eclipse ends; last contact with Earth	13 10.0	E 74 34.9	N 13 37.2