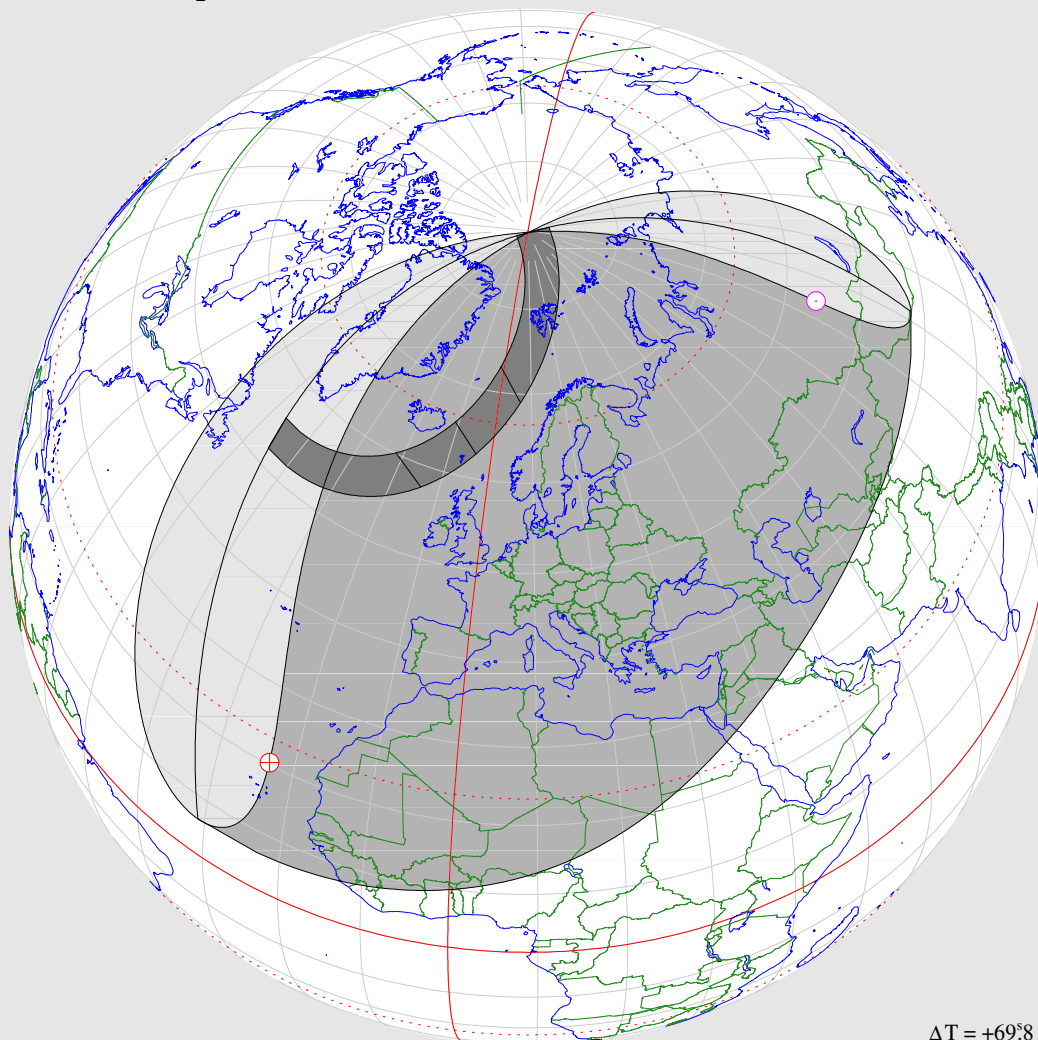


I. - Total Eclipse of the Sun

2015 March 20



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$\Delta T = +69^s.8$
Globe centred on E 8°9' and N 55°2'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	7	40.8	W 23	12.4	N 20	13.9
Beginning of southern limit of penumbra	8	11.5	W 30	56.6	N 6	19.3
Beginning of southern limit of umbra	9	09.6	W 45	13.0	N 51	49.7
Beginning of centre line; central eclipse begins	9	12.7	W 45	57.7	N 53	37.5
Beginning of northern limit of umbra	9	16.1	W 46	47.4	N 55	36.5
End of northern limit of umbra	10	14.8	W 53	15.5	N 88	35.8
Central eclipse at local apparent noon	10	17.1	E 27	37.7	N 85	06.2
End of centre line; central eclipse ends	10	18.2	E 97	49.9	N 89	22.7
End of southern limit of umbra	10	21.2	E 111	36.8	N 87	37.1
End of southern limit of penumbra	11	19.5	E 101	49.6	N 42	16.1
⊙ Eclipse ends; last contact with Earth	11	50.2	E 94	04.3	N 56	06.1