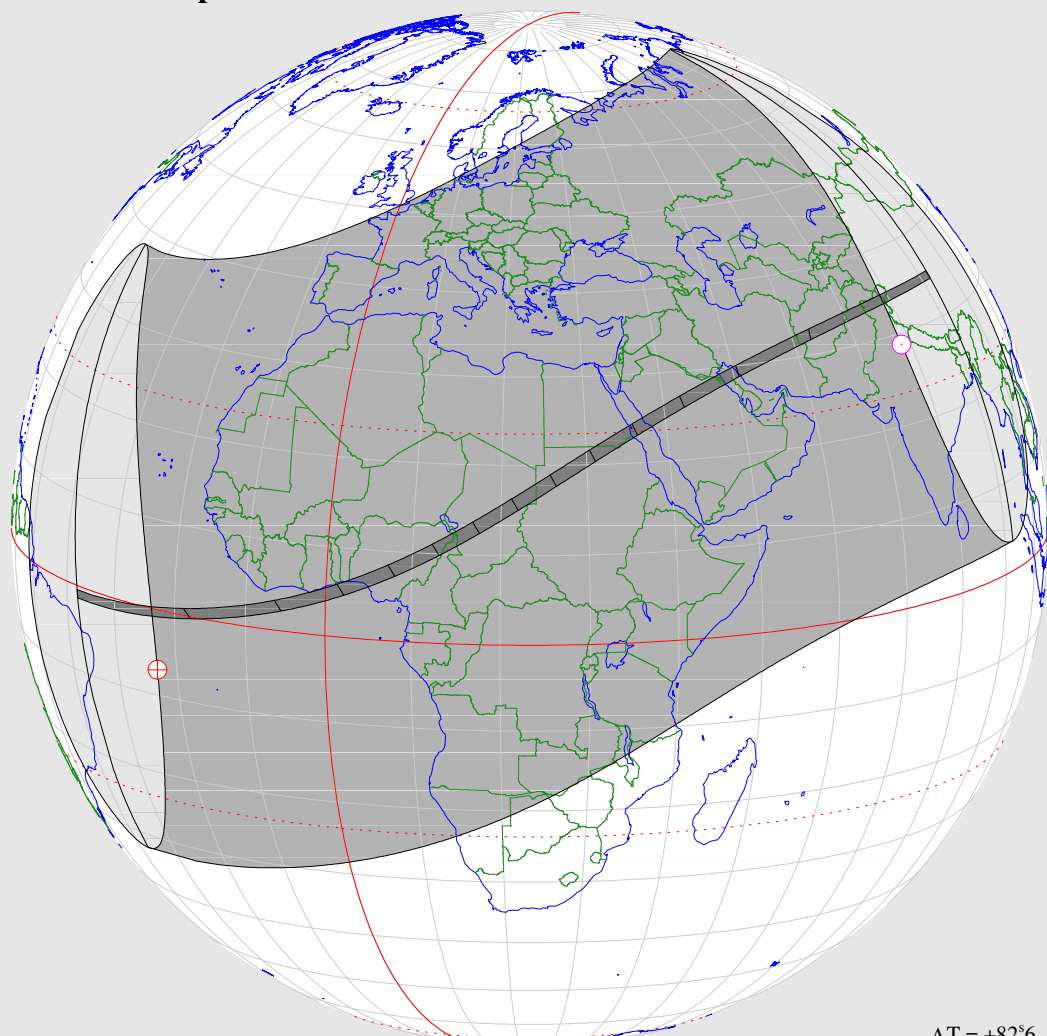


I. - Total Eclipse of the Sun

2034 March 20



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$\Delta T = +82^s.6$
Globe centred on E 23°3' and N 13°0'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	7 39.8	W 23 05.4	S 6 58.2
Beginning of southern limit of penumbra	8 36.4	W 37 17.4	S 32 23.4
Beginning of southern limit of umbra	8 37.3	W 37 28.1	S 1 24.5
Beginning of centre line; central eclipse begins	8 37.6	W 37 31.6	S 0 56.9
Beginning of northern limit of umbra	8 37.8	W 37 35.3	S 0 29.3
Beginning of northern limit of penumbra	9 19.0	W 47 50.6	N 38 26.1
Central eclipse at local apparent noon	10 27.0	E 25 06.3	N 17 45.5
End of northern limit of penumbra	11 15.3	E 102 55.0	N 74 00.5
End of northern limit of umbra	11 56.8	E 92 38.7	N 35 15.0
End of centre line; central eclipse ends	11 57.0	E 92 34.8	N 34 46.5
End of southern limit of umbra	11 57.3	E 92 31.2	N 34 18.2
End of southern limit of penumbra	11 58.4	E 92 14.9	N 3 21.3
⊙ Eclipse ends; last contact with Earth	12 54.8	E 78 08.9	N 28 45.9