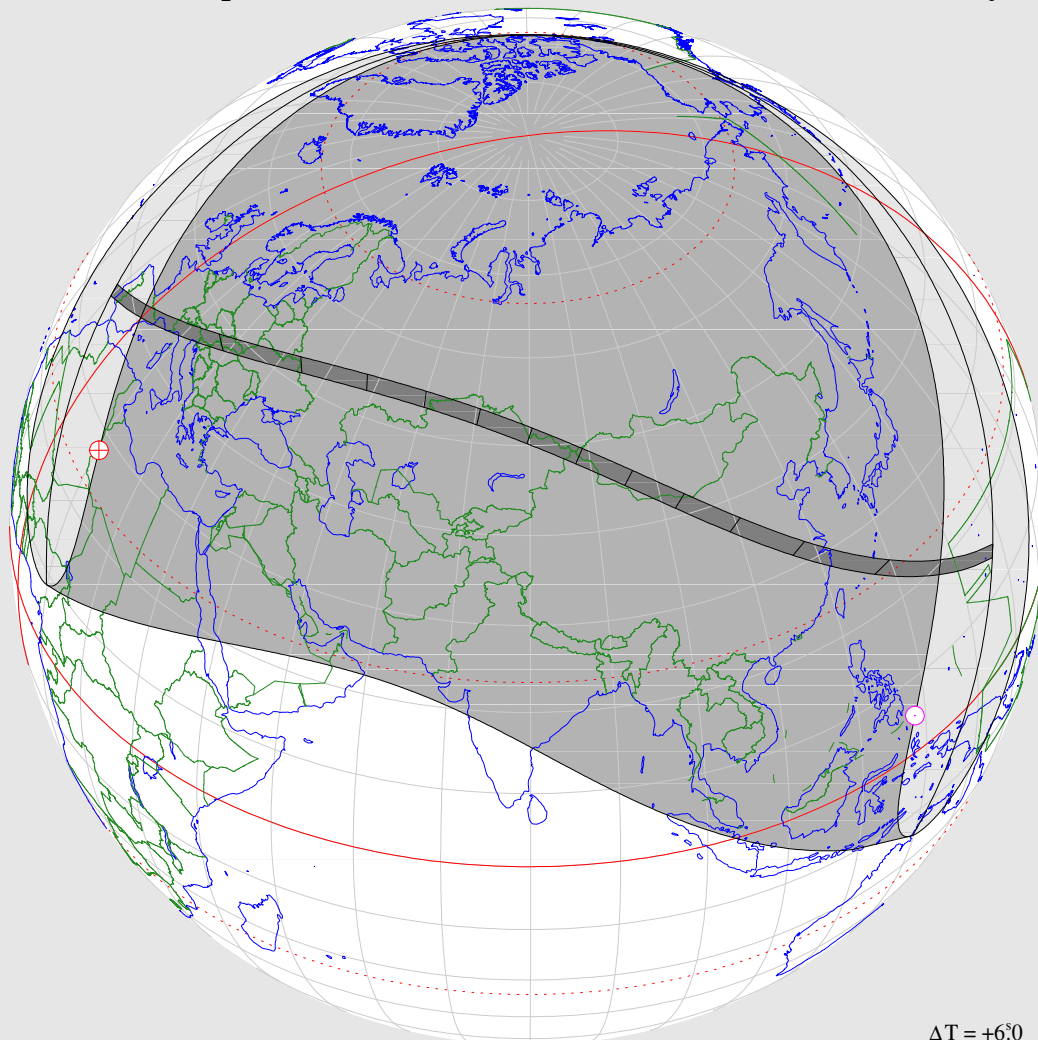


III. - Total Eclipse of the Sun

1842 July 08



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$\Delta T = +6^s 0$
Globe centred on E 79°7' and N 41°0'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 32.5	E 10 21.1	N 27 48.6
Beginning of southern limit of penumbra	5 11.2	E 9 47.3	N 8 28.3
Beginning of southern limit of umbra	5 33.0	W 9 58.2	N 36 27.2
Beginning of centre line; central eclipse begins	5 33.7	W 10 32.4	N 37 01.7
Beginning of northern limit of umbra	5 34.5	W 11 07.3	N 37 36.2
Central eclipse at local apparent noon	6 55.5	E 77 16.5	N 51 43.5
End of northern limit of umbra	8 38.3	E 148 05.8	N 15 19.4
End of centre line; central eclipse ends	8 39.0	E 147 37.8	N 14 42.0
End of southern limit of umbra	8 39.8	E 147 10.3	N 14 04.9
End of southern limit of penumbra	9 01.4	E 129 42.1	S 14 22.0
⊙ Eclipse ends; last contact with Earth	9 40.1	E 128 15.7	N 5 09.5