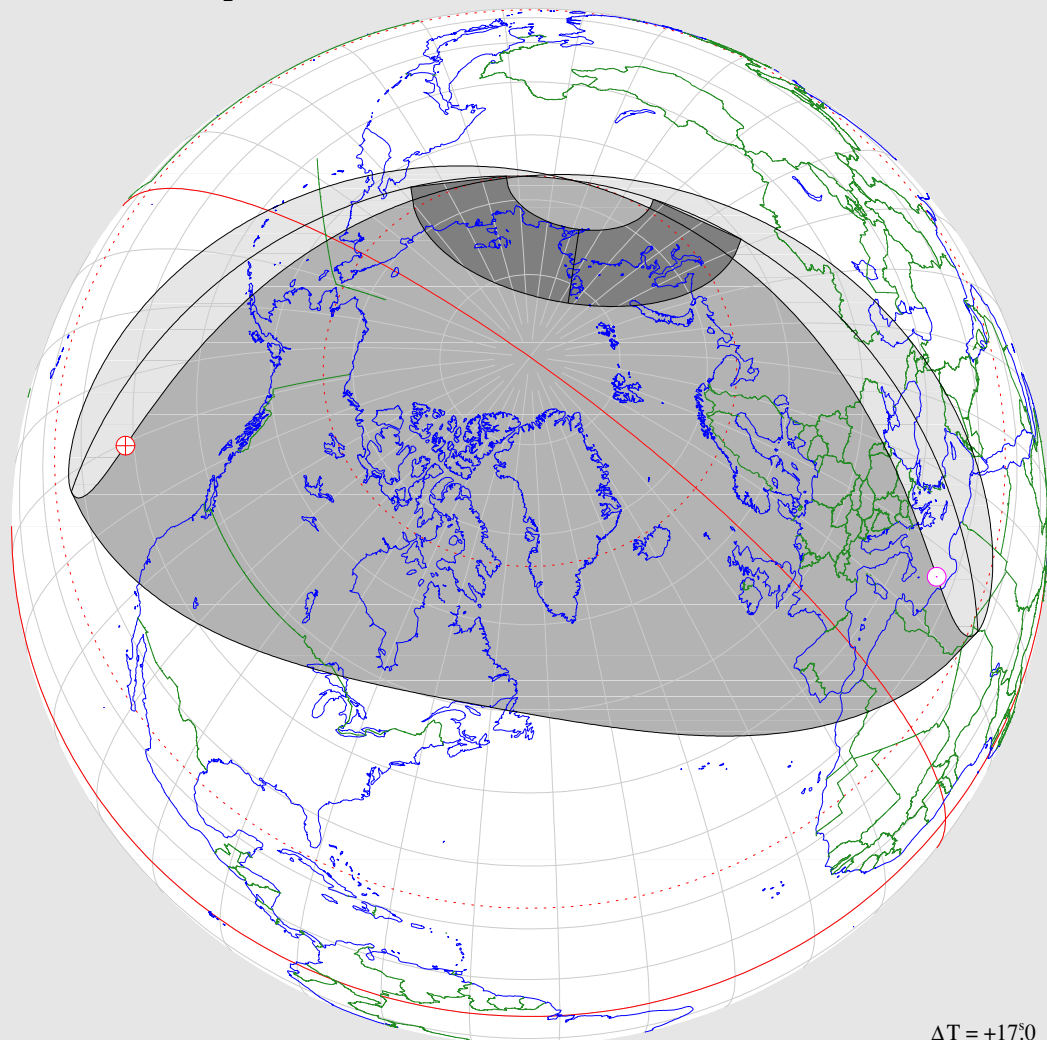


### III. - Total Eclipse of the Sun

1787 June 15



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$\Delta T = +17^s.0$   
Globe centred on W 53°3' and N 70°9'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	13	57.9	W139	36.3	N38	33.5
Beginning of southern limit of penumbra	14	19.3	W137	40.1	N27	14.1
Beginning of southern limit of umbra	15	30.5	E 157	38.2	N63	27.0
Beginning of centre line; central eclipse begins	15	37.0	E 148	16.0	N64	57.5
Beginning of northern limit of umbra	15	46.6	E 133	13.6	N66	20.6
Central eclipse at local apperent midnight	15	53.7	E 121	33.9	N78	40.6
End of northern limit of umbra	16	11.7	E 92	50.7	N64	40.5
End of centre line; central eclipse ends	16	21.3	E 79	42.5	N62	13.5
End of southern limit of umbra	16	27.8	E 71	46.9	N60	08.0
End of southern limit of penumbra	17	38.9	E 15	08.1	N21	39.7
○ Eclipse ends; last contact with Earth	18	00.3	E 16	18.1	N33	10.2