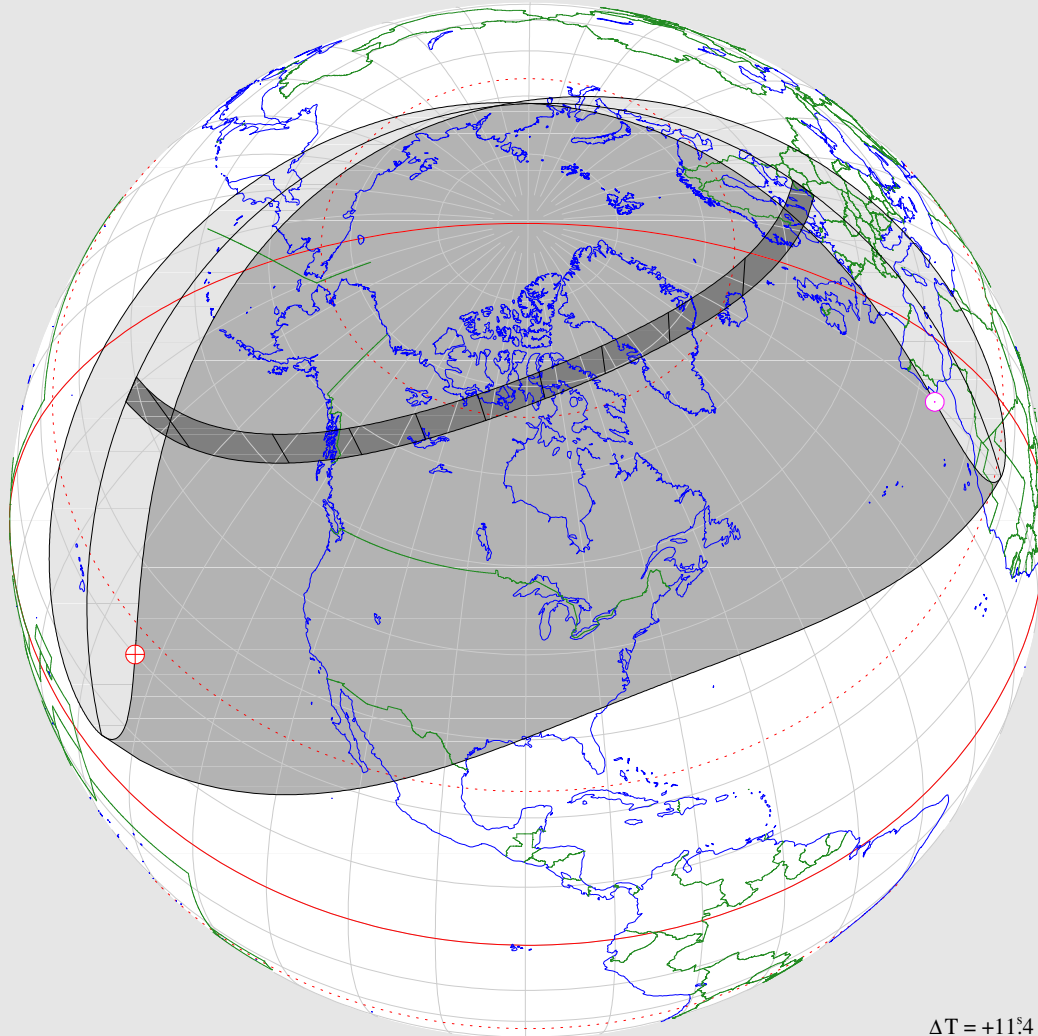


I. - Total Eclipse of the Sun

1733 May 13



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$\Delta T = +11^s.4$
Globe centred on W 89°7' and N 55°0'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	01.9	W143	28.8	N20	02.4
Beginning of southern limit of penumbra	15	30.9	W145	19.8	N 4	43.9
Beginning of southern limit of umbra	16	11.0	W168	49.5	N37	50.5
Beginning of centre line; central eclipse begins	16	12.9	W169	56.7	N39	00.0
Beginning of northern limit of umbra	16	14.8	W171	07.5	N40	11.1
Central eclipse at local apparent noon	17	31.0	W 83	46.7	N70	11.8
End of northern limit of umbra	18	21.6	E 23	33.1	N56	09.9
End of centre line; central eclipse ends	18	23.5	E 21	46.9	N55	05.9
End of southern limit of umbra	18	25.4	E 20	07.8	N54	02.8
End of southern limit of penumbra	19	05.6	W 9	37.0	N22	03.9
⊙ Eclipse ends; last contact with Earth	19	34.6	W 9	59.9	N37	05.7