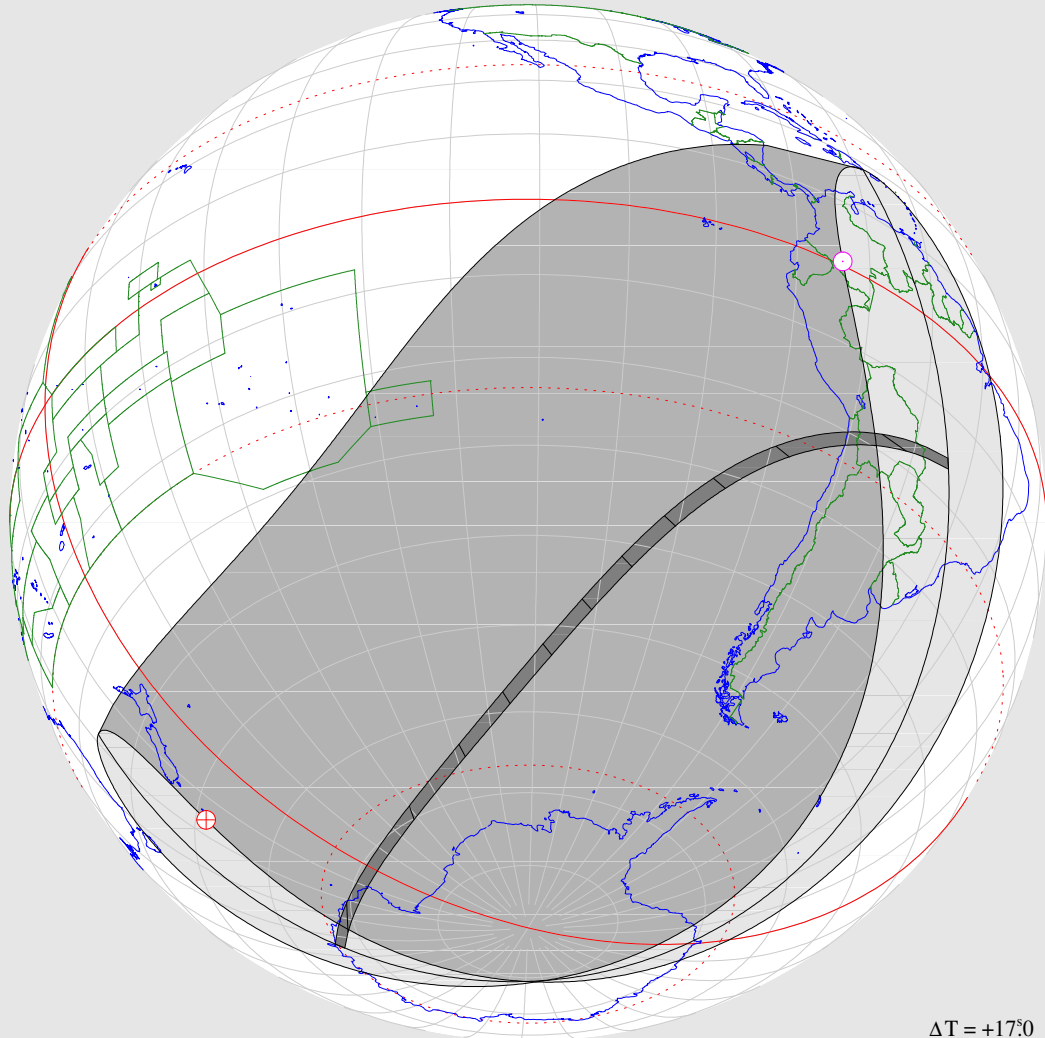


I. - Total Eclipse of the Sun

1784 February 20



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$\Delta T = +17^{\circ}0$
Globe centred on W $111^{\circ}3$ and S $38^{\circ}6$

Circumstances	Time (UT)	Longitude	Latitude
	h m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	18 21.7	E 164 13.7	S 51 24.3
Beginning of northern limit of penumbra	18 57.7	E 161 43.4	S 33 53.2
Beginning of northern limit of umbra	19 28.2	E 135 49.3	S 66 11.1
Beginning of centre line; central eclipse begins	19 28.9	E 135 00.1	S 66 40.1
Beginning of southern limit of umbra	19 29.7	E 134 08.8	S 67 09.2
Central eclipse at local apparent noon	20 10.3	W 119 03.1	S 60 02.1
End of southern limit of umbra	22 01.4	W 53 39.8	S 16 09.1
End of centre line; central eclipse ends	22 02.1	W 53 57.0	S 15 37.1
End of northern limit of umbra	22 02.8	W 54 14.0	S 15 05.5
End of northern limit of penumbra	22 33.0	W 68 23.6	N 18 30.3
⊙ Eclipse ends; last contact with Earth	23 09.2	W 73 54.3	N 0 37.2