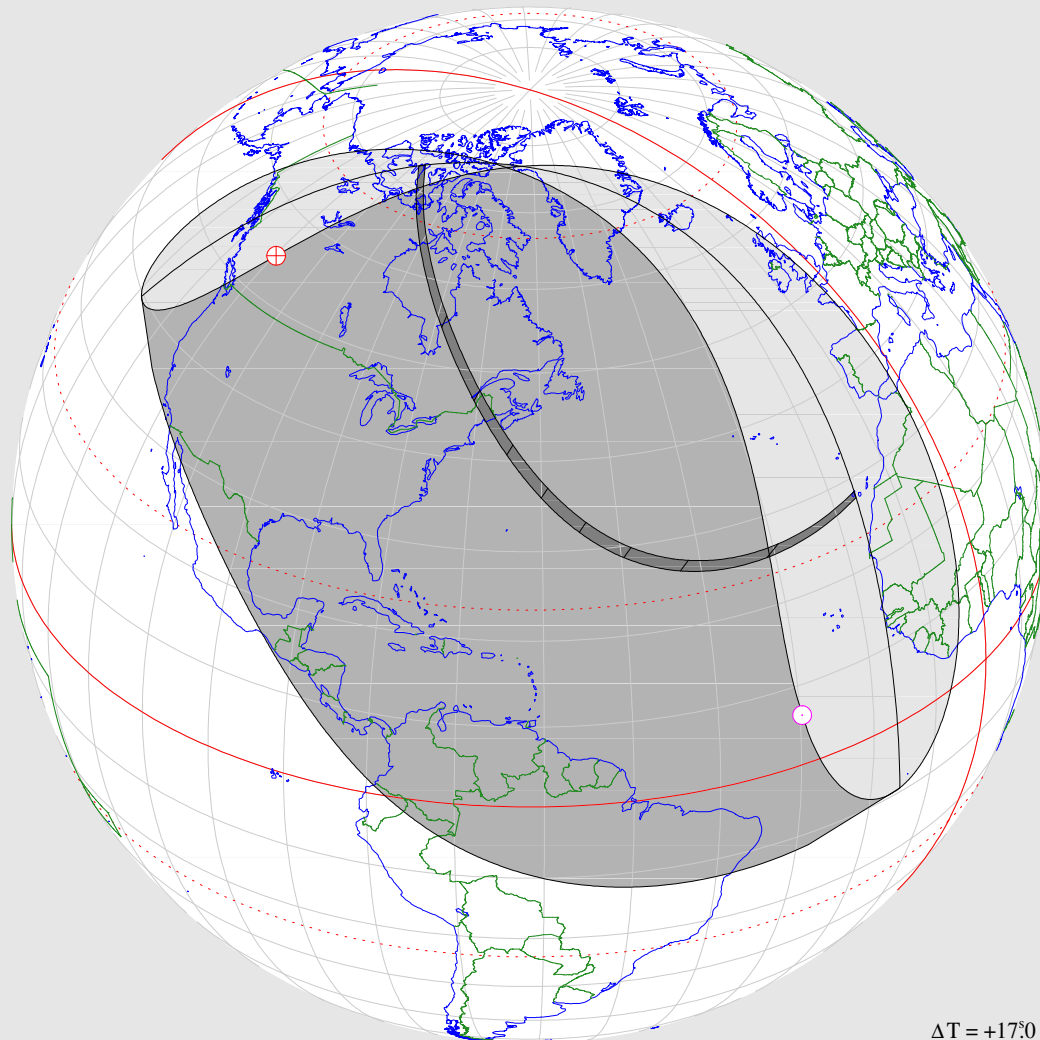


III. - Total Eclipse of the Sun

1780 October 27



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$\Delta T = +17^{\circ}0$
Globe centred on W $61^{\circ}6$ and N $33^{\circ}0$

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	$^{\circ}$	'	$^{\circ}$	'
⊕ Eclipse begins; first contact with Earth	14	59.8	W119	39.5	N54	45.5
Beginning of southern limit of penumbra	15	42.5	W138	27.0	N39	40.8
Beginning of southern limit of umbra	16	16.0	W108	27.5	N72	54.8
Beginning of centre line; central eclipse begins	16	16.6	W107	32.3	N73	09.6
Beginning of northern limit of umbra	16	17.1	W106	34.9	N73	24.3
Central eclipse at local apparent noon	16	38.1	W 73	31.8	N50	30.4
End of northern limit of umbra	18	19.6	W 16	14.1	N28	30.6
End of centre line; central eclipse ends	18	20.2	W 16	15.5	N28	08.5
End of southern limit of umbra	18	20.7	W 16	16.9	N27	46.5
End of southern limit of penumbra	18	54.0	W 15	17.4	S 9	23.1
⊙ Eclipse ends; last contact with Earth	19	36.8	W 29	42.5	N 6	18.6