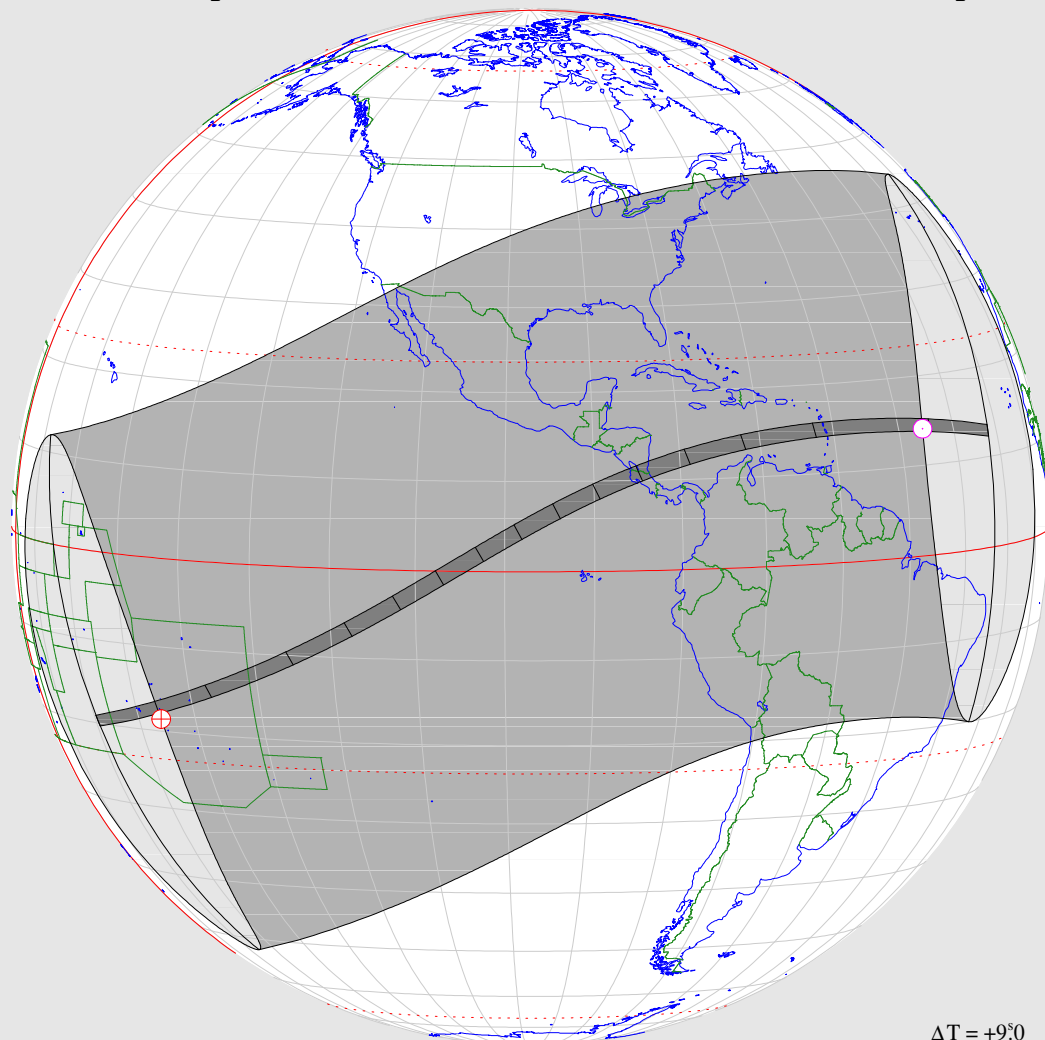


II. - Total Eclipse of the Sun

1698 April 10



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$\Delta T = +9^s 0$
Globe centred on W 97°2' and N 5°0'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	55.5	W145	49.3	S 18	31.9
Beginning of centre line; central eclipse begins	16	51.0	W159	29.3	S 19	43.1
Beginning of southern limit of umbra	16	51.0	W159	22.9	S 20	21.7
Beginning of northern limit of umbra	16	51.0	W159	35.8	S 19	04.6
Beginning of northern limit of penumbra	17	06.1	W168	02.0	N 11	53.4
Beginning of southern limit of penumbra	17	08.2	W155	53.8	S 52	18.3
Central eclipse at local apparent noon	18	32.4	W 97	51.0	N 4	46.3
End of southern limit of penumbra	20	00.6	W 32	57.4	S 20	00.0
End of northern limit of penumbra	20	02.2	W 22	03.2	N 44	17.5
End of southern limit of umbra	20	17.5	W 32	18.7	N 12	12.1
End of northern limit of umbra	20	17.5	W 32	06.3	N 13	30.7
End of centre line; central eclipse ends	20	17.5	W 32	12.6	N 12	51.4
⊙ Eclipse ends; last contact with Earth	21	12.9	W 45	52.6	N 14	02.7