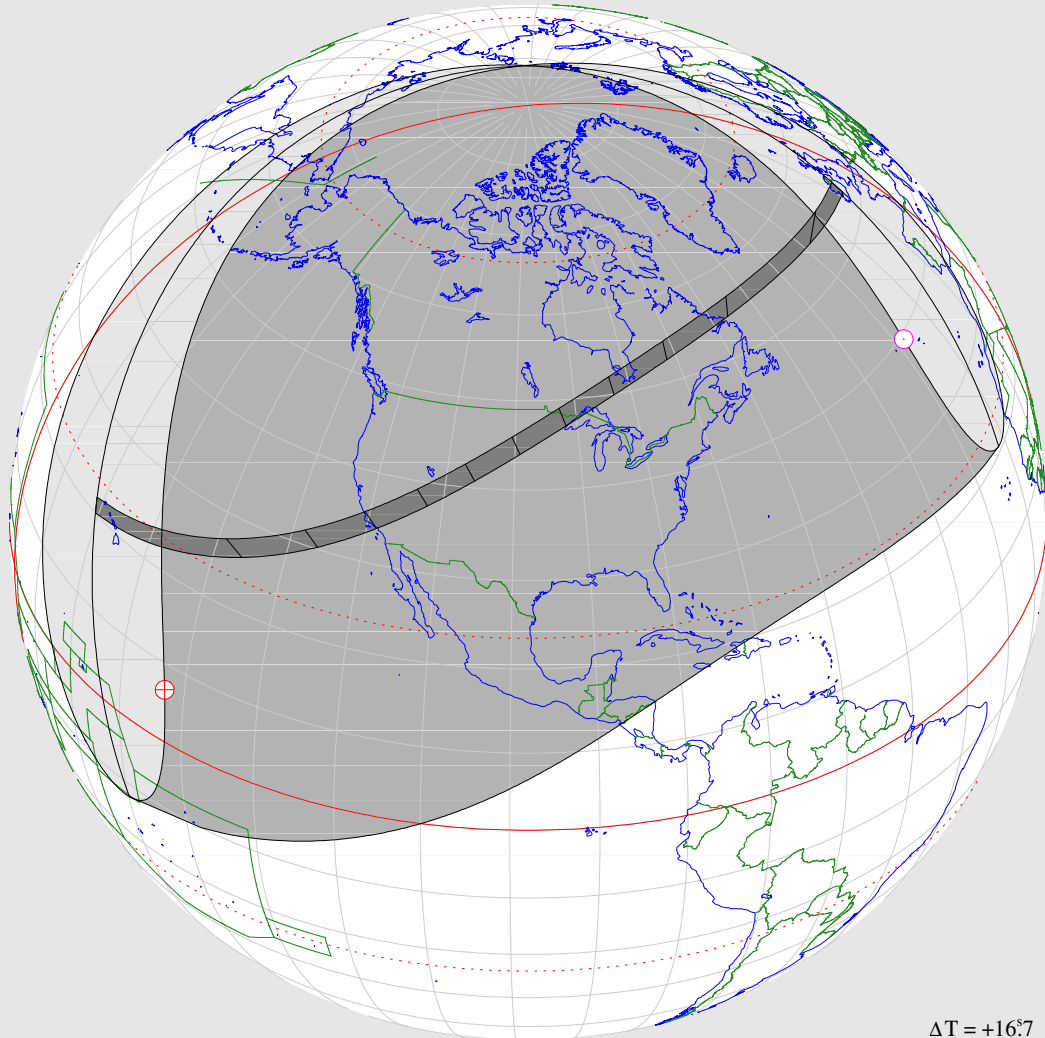


I. - Total Eclipse of the Sun

1679 April 10



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$\Delta T = +16^m 7^s$
Globe centred on W 98°0 and N 36°4

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	28.9	W142	54.0	N 6	46.0
Beginning of southern limit of penumbra	16	08.0	W149	55.8	S 12	15.5
Beginning of southern limit of umbra	16	31.7	W160	37.7	N19	59.9
Beginning of centre line; central eclipse begins	16	32.7	W160	59.6	N20	48.0
Beginning of northern limit of umbra	16	33.6	W161	22.1	N21	36.6
Central eclipse at local apparent noon	18	13.5	W 93	05.8	N47	43.1
End of northern limit of umbra	19	16.0	W 7	15.4	N54	05.6
End of centre line; central eclipse ends	19	17.0	W 7	49.4	N53	18.6
End of southern limit of umbra	19	17.9	W 8	22.1	N52	32.1
End of southern limit of penumbra	19	41.8	W 22	05.3	N20	32.9
⊙ Eclipse ends; last contact with Earth	20	20.8	W 28	07.1	N39	27.8