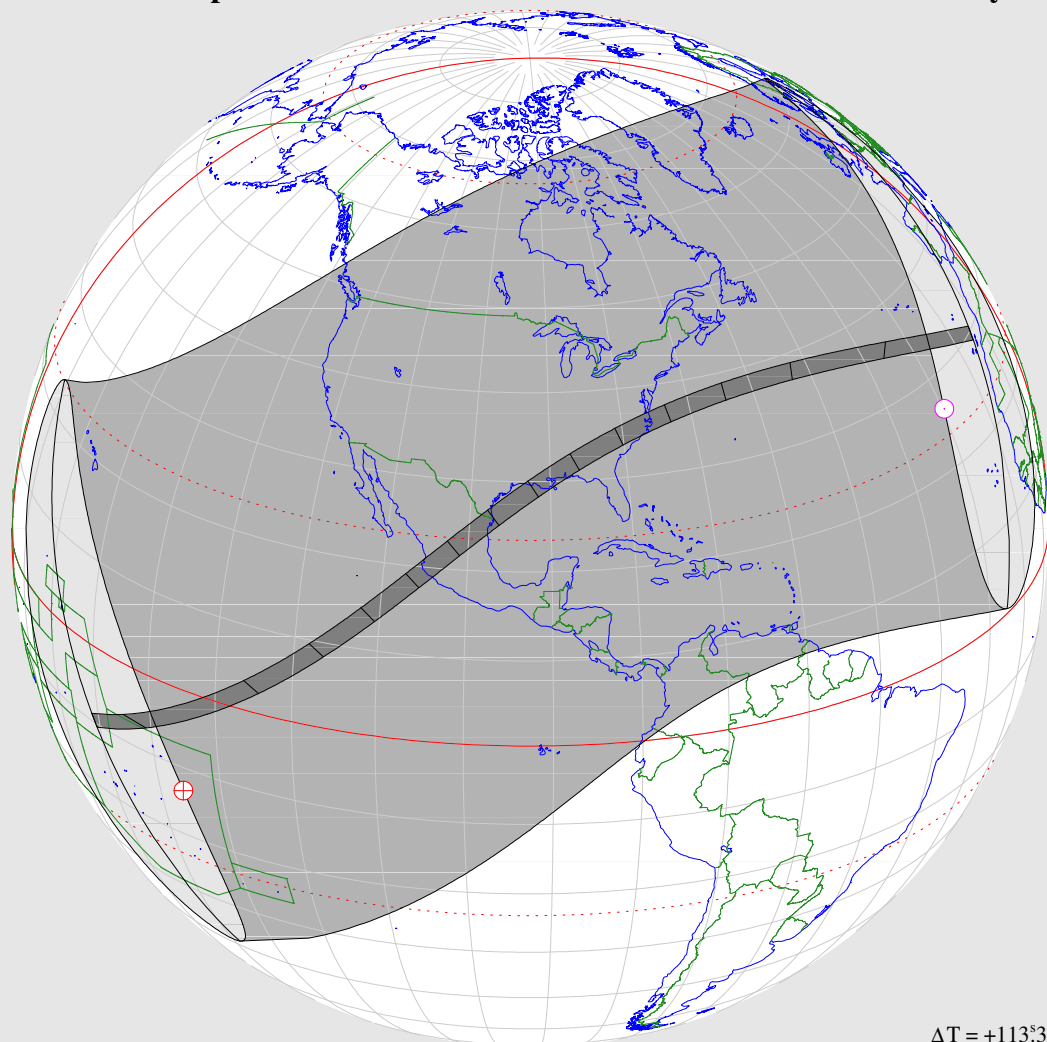


II. - Total Eclipse of the Sun

2078 May 11



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$\Delta T = +113^s.3$
Globe centred on W 92°6' and N 24°8'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	18.1	W135	59.2	S 13	17.3
Beginning of southern limit of penumbra	16	10.7	W138	24.1	S 38	39.8
Beginning of southern limit of umbra	16	13.2	W150	42.9	S 10	30.0
Beginning of centre line; central eclipse begins	16	13.6	W151	04.8	S 9	44.7
Beginning of northern limit of umbra	16	14.1	W151	26.9	S 8	59.4
Beginning of northern limit of penumbra	16	47.7	W171	03.3	N23	39.7
Central eclipse at local apparent noon	18	02.2	W 91	26.2	N29	37.7
End of northern limit of penumbra	19	02.0	E 19	21.9	N60	43.7
End of northern limit of umbra	19	35.8	W 13	43.6	N30	29.8
End of centre line; central eclipse ends	19	36.3	W 14	10.2	N29	45.7
End of southern limit of umbra	19	36.7	W 14	36.1	N29	01.7
End of southern limit of penumbra	19	39.5	W 25	34.3	N 0	36.1
⊙ Eclipse ends; last contact with Earth	20	31.9	W 29	33.3	N26	16.1