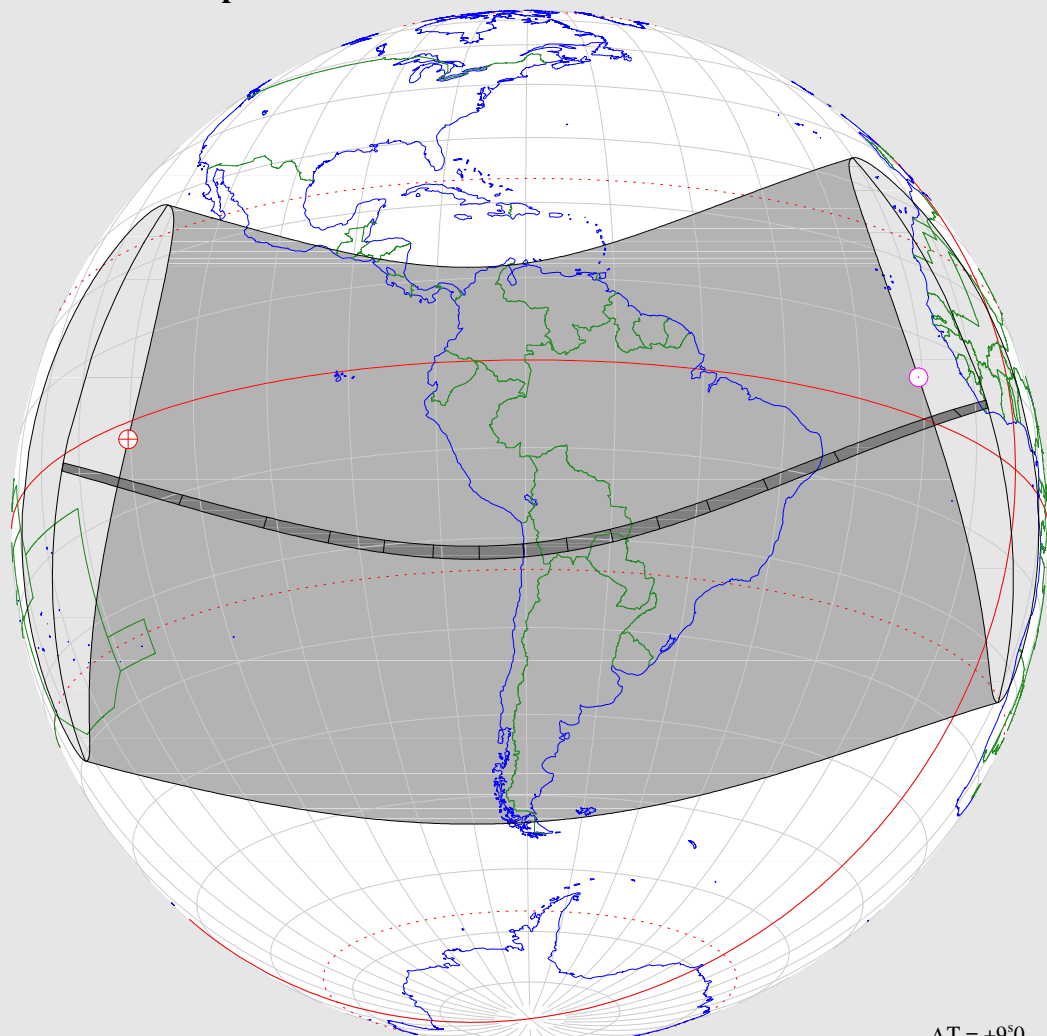


VI. - Total Eclipse of the Sun

1694 December 16



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$\Delta T = +9^s 0$
Globe centred on W 69°5 and S 19°0

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	13 54.7	W120 21.8	S 2 00.0
Beginning of northern limit of umbra	14 50.0	W133 43.2	S 0 53.1
Beginning of centre line; central eclipse begins	14 50.1	W133 55.5	S 1 17.8
Beginning of southern limit of umbra	14 50.3	W134 07.9	S 1 42.4
Beginning of northern limit of penumbra	14 59.5	W122 07.7	N28 28.5
Beginning of southern limit of penumbra	15 11.4	W153 22.0	S30 23.0
Central eclipse at local apparent noon	16 33.3	W 69 08.6	S21 17.9
End of southern limit of penumbra	17 54.7	E 11 30.8	S23 48.5
End of northern limit of penumbra	18 06.5	W 20 03.3	N34 57.7
End of southern limit of umbra	18 15.8	W 6 57.0	N 5 02.3
End of centre line; central eclipse ends	18 15.9	W 7 09.5	N 5 27.1
End of northern limit of umbra	18 16.0	W 7 22.0	N 5 51.8
⊙ Eclipse ends; last contact with Earth	19 11.4	W 20 43.0	N 4 44.9