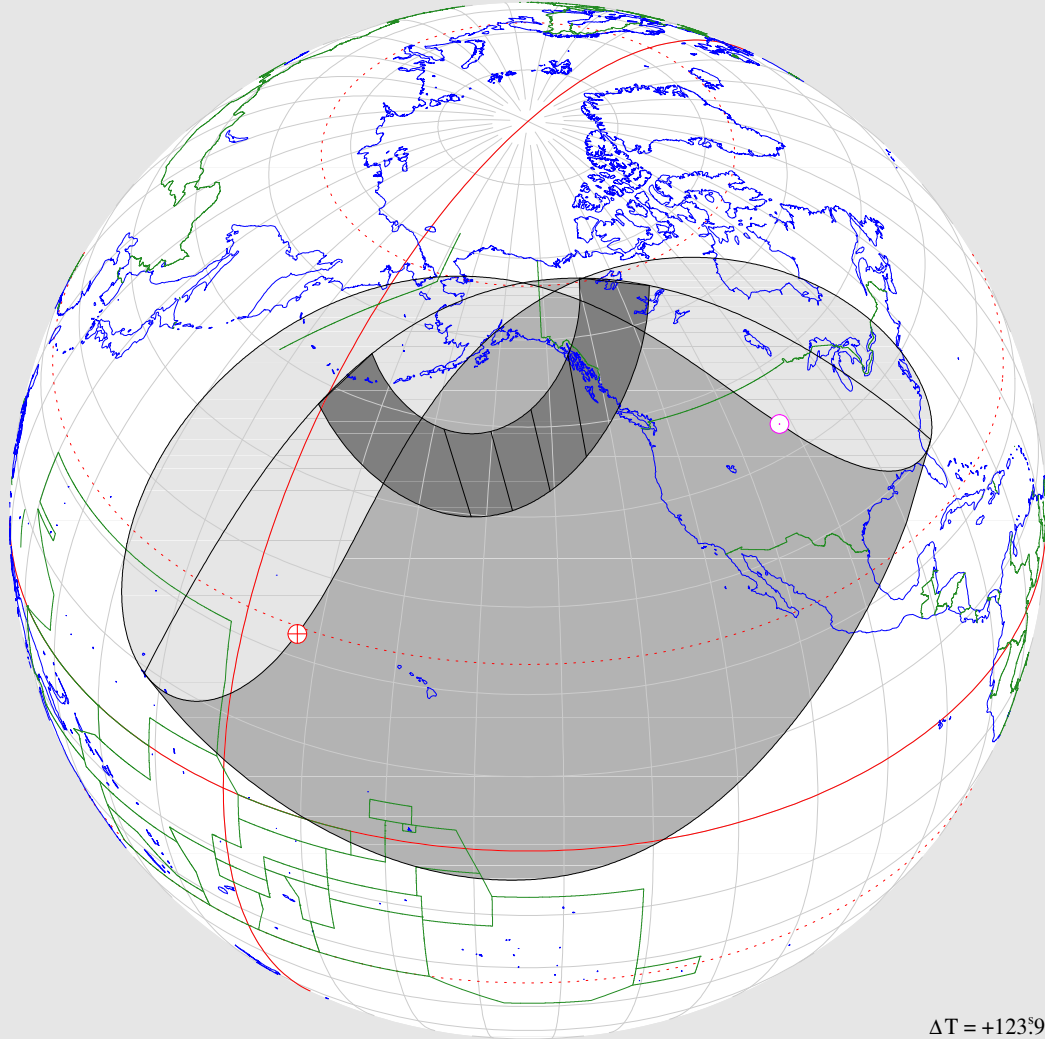


I. - Annular Eclipse of the Sun

1620 January 04



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$\Delta T = +123^s.9$
Globe centred on W 144°0 and N 39°6

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	18	17.5	W172	49.2	N22	39.4
Beginning of southern limit of penumbra	19	11.5	E167	27.0	N 9	07.4
Beginning of southern limit of umbra	19	58.6	E179	09.6	N47	36.6
Beginning of centre line; central eclipse begins	20	06.4	W178	54.7	N51	02.1
Beginning of northern limit of umbra	20	16.8	W175	45.1	N55	07.1
Central eclipse at local apparent noon	21	12.1	W136	33.6	N49	58.8
End of northern limit of umbra	21	20.9	W129	18.8	N66	58.6
End of centre line; central eclipse ends	21	31.3	W119	02.0	N65	37.4
End of southern limit of umbra	21	39.1	W111	55.6	N63	51.0
End of southern limit of penumbra	22	26.3	W 79	28.1	N30	36.7
○ Eclipse ends; last contact with Earth	23	20.3	W102	01.3	N43	29.0