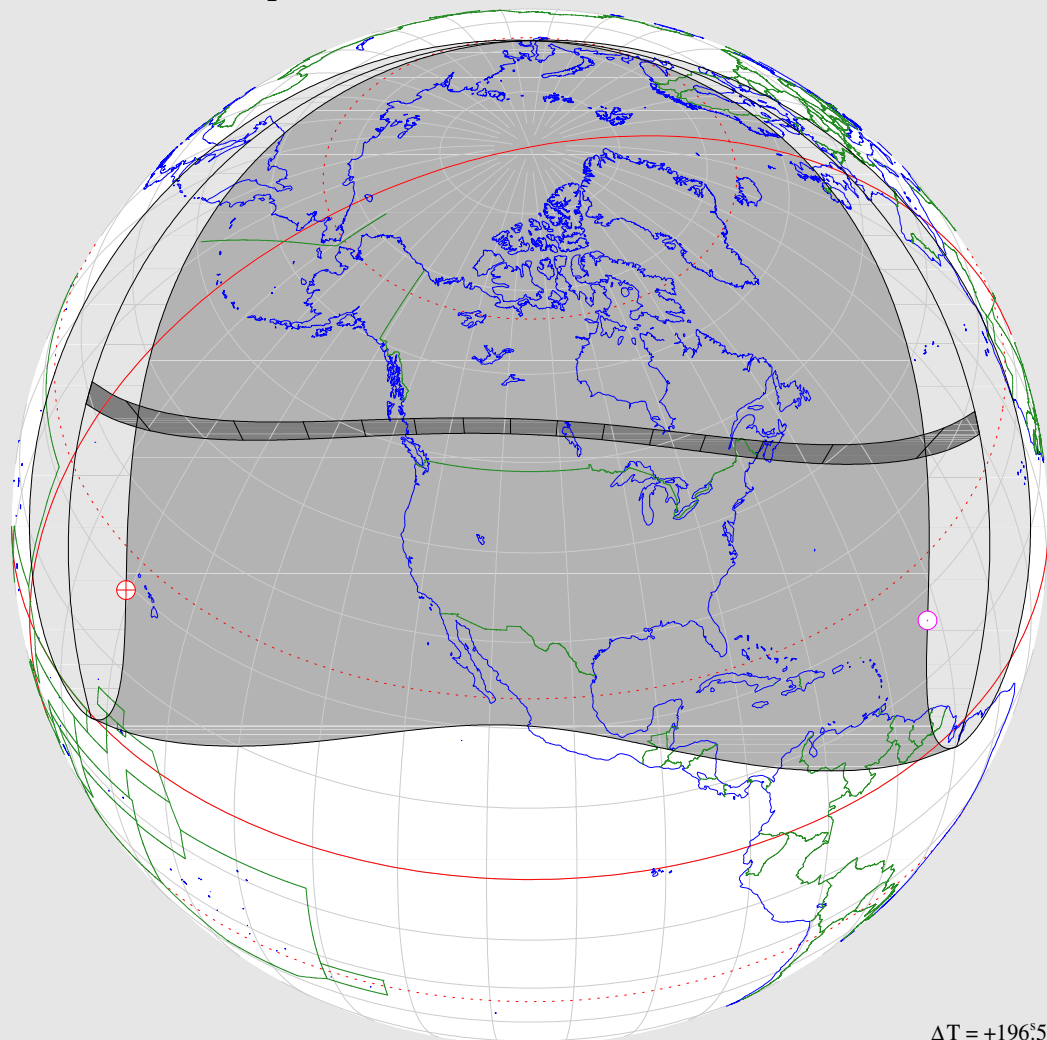


III. - Annular Eclipse of the Sun

1554 June 29



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$\Delta T = +196^s.5$
Globe centred on W 105°2 and N 42°9

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	16	14.2	W160	48.2	N19	11.5
Beginning of southern limit of penumbra	16	57.0	W163	00.6	S 0	30.7
Beginning of southern limit of umbra	17	25.6	E 176	20.7	N29	03.3
Beginning of centre line; central eclipse begins	17	27.0	E 175	25.8	N30	02.3
Beginning of northern limit of umbra	17	28.5	E 174	29.1	N31	02.0
Central eclipse at local apparent noon	19	05.9	W105	26.8	N53	59.7
End of northern limit of umbra	20	46.2	W 27	31.2	N28	33.9
End of centre line; central eclipse ends	20	47.7	W 28	26.8	N27	33.2
End of southern limit of umbra	20	49.1	W 29	20.8	N26	33.0
End of southern limit of penumbra	21	17.7	W 49	41.1	S 3	05.2
⊙ Eclipse ends; last contact with Earth	22	00.6	W 52	01.2	N16	39.3