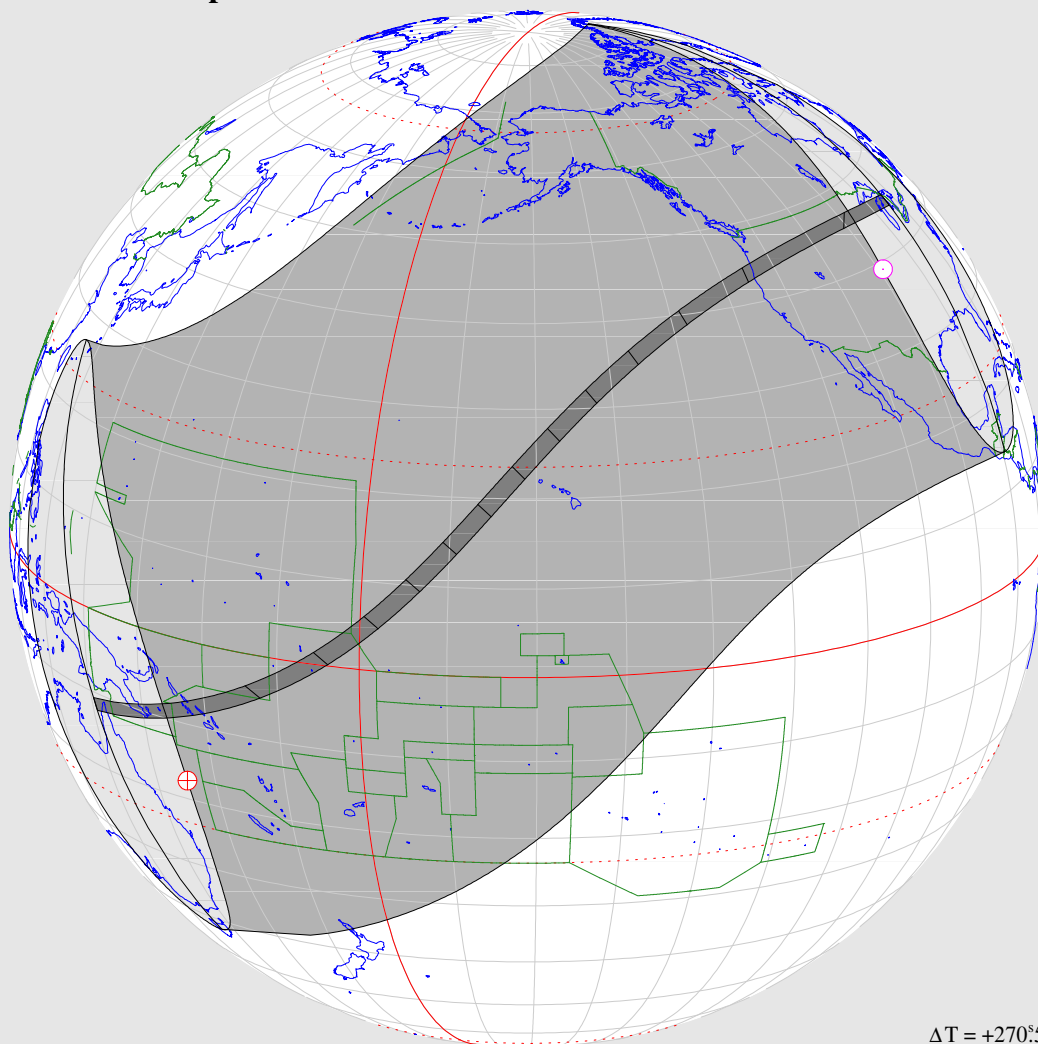


II. - Total Eclipse of the Sun

1503 March 27-28



$\Delta T = +270^s.5$

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Globe centred on W 161°0 and N 16°7

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	19	48.6	E 155	28.6	S 17	27.6
Beginning of southern limit of penumbra	20	41.3	E 146	01.9	S 42	20.2
Beginning of southern limit of umbra	20	44.8	E 140	49.0	S 12	12.9
Beginning of centre line; central eclipse begins	20	45.2	E 140	37.6	S 11	29.2
Beginning of northern limit of umbra	20	45.6	E 140	26.0	S 10	45.4
Beginning of northern limit of penumbra	21	26.9	E 125	42.3	N 27	11.9
Central eclipse at local apparent noon	22	39.9	W 159	20.1	N 25	40.2
End of northern limit of penumbra	23	20.1	W 32	30.6	N 81	27.7
End of northern limit of umbra	0	01.8	W 83	18.6	N 45	49.7
End of centre line; central eclipse ends	0	02.2	W 83	35.3	N 45	05.8
End of southern limit of umbra	0	02.7	W 83	51.5	N 44	22.1
End of southern limit of penumbra	0	06.5	W 89	22.7	N 14	17.0
⊙ Eclipse ends; last contact with Earth	0	58.9	W 98	56.3	N 39	09.9