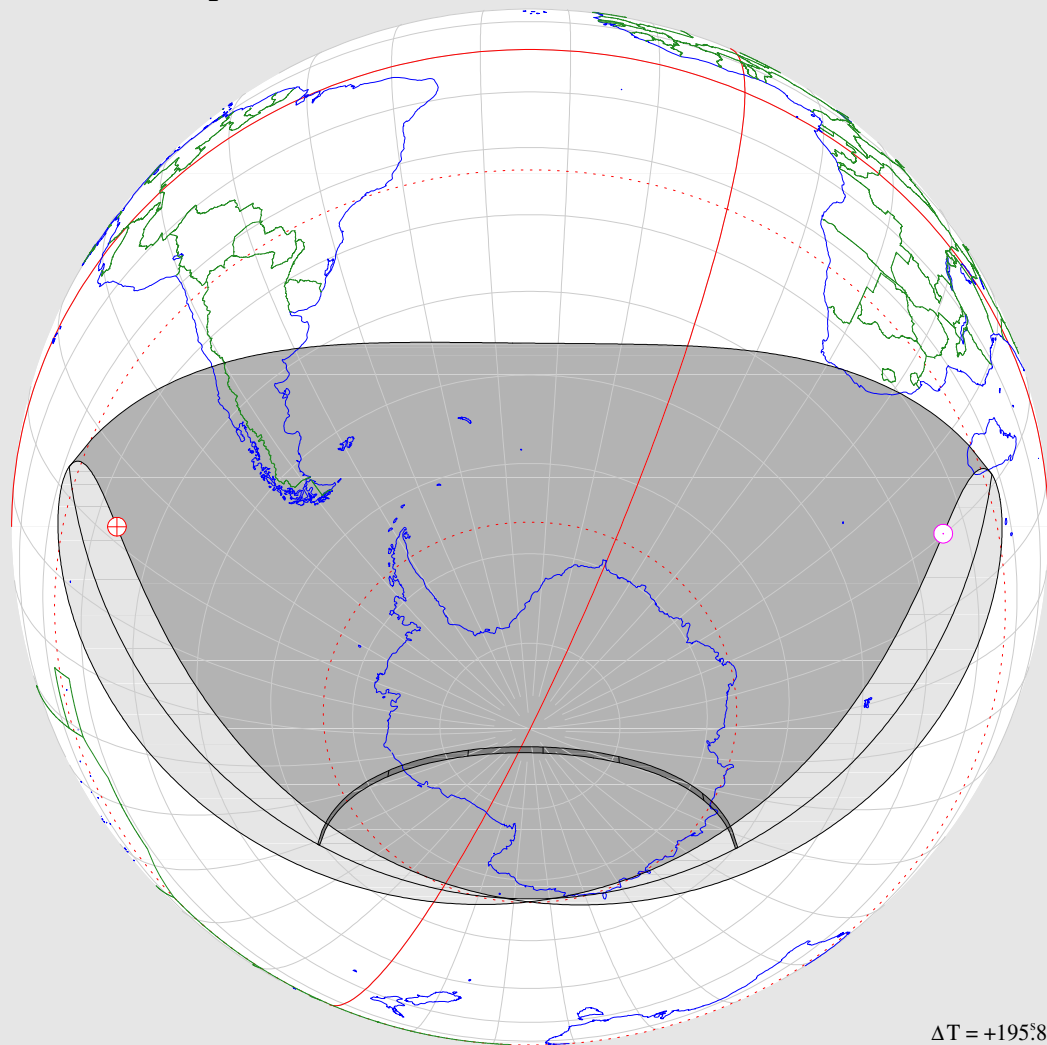


V. - Total Eclipse of the Sun

1554 December 24



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$\Delta T = +195^s.8$
Globe centred on W 24°5' and S 67°0'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	31.6	W 98	00.0	S 33	47.8
Beginning of northern limit of penumbra	11	55.7	W 97	03.8	S 21	15.5
Beginning of northern limit of umbra	13	04.8	W 150	44.1	S 59	30.8
Beginning of centre line; central eclipse begins	13	05.0	W 150	54.8	S 59	34.3
Beginning of southern limit of umbra	13	05.1	W 151	05.6	S 59	37.9
Central eclipse at local apperent midnight	13	42.3	E 155	45.1	S 87	30.3
End of southern limit of umbra	14	18.9	E 103	17.1	S 59	51.5
End of centre line; central eclipse ends	14	19.1	E 103	03.8	S 59	47.3
End of northern limit of umbra	14	19.3	E 102	50.6	S 59	43.0
End of northern limit of penumbra	15	28.3	E 48	52.7	S 21	35.0
⊙ Eclipse ends; last contact with Earth	15	52.5	E 49	51.0	S 34	06.4