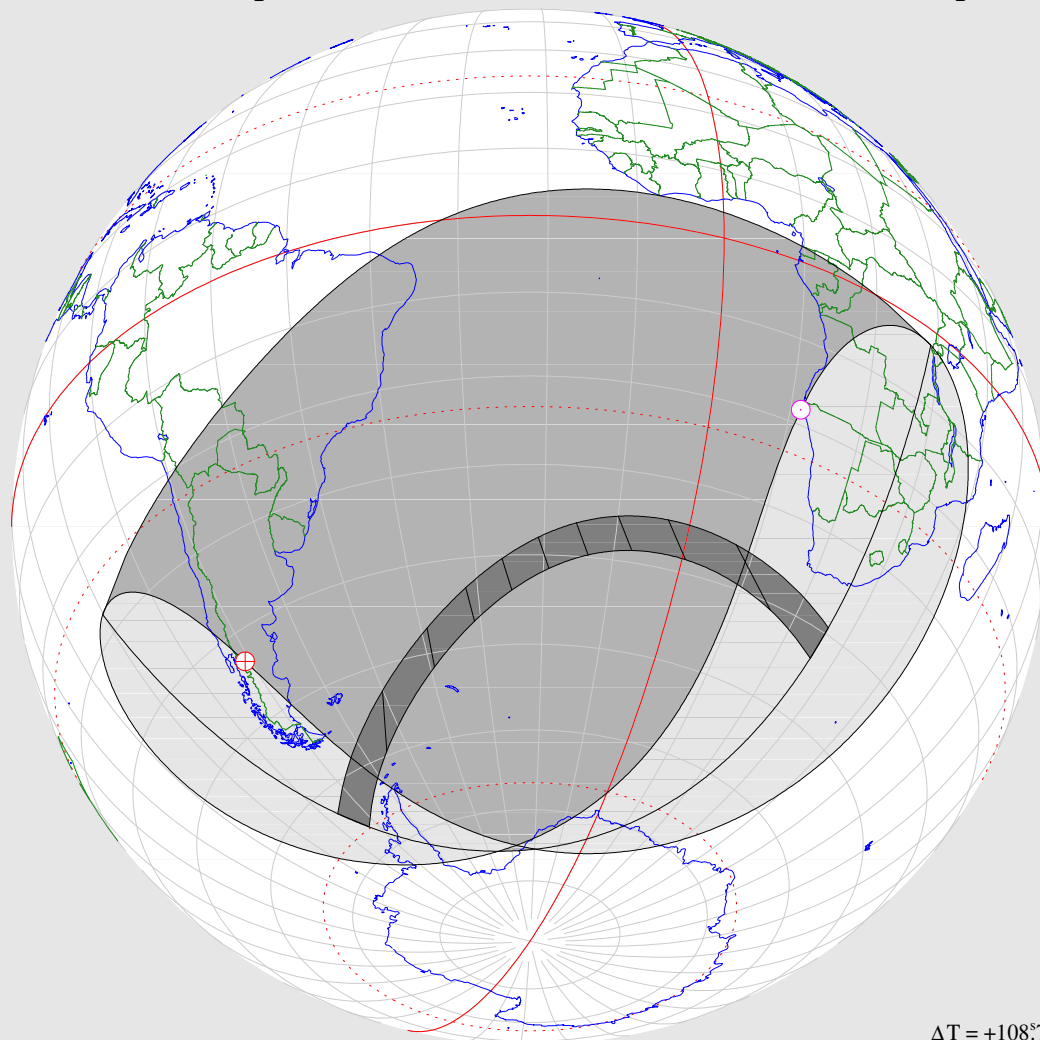


II. - Annular Eclipse of the Sun

1623 April 29



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$\Delta T = +108^s.7$
Globe centred on W 22°0 and S 36°9

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	36.7	W 70	55.5	S 43	11.9
Beginning of northern limit of penumbra	12	28.4	W 90	11.6	S 27	23.4
Beginning of northern limit of umbra	13	04.5	W 76	35.5	S 62	56.2
Beginning of centre line; central eclipse begins	13	07.7	W 74	48.5	S 64	36.4
Beginning of southern limit of umbra	13	11.3	W 72	35.5	S 66	18.8
Central eclipse at local apparent noon	13	51.6	W 28	39.7	S 43	40.6
End of southern limit of umbra	15	17.3	E 25	52.5	S 43	12.6
End of centre line; central eclipse ends	15	20.8	E 25	58.4	S 41	11.2
End of northern limit of umbra	15	24.1	E 26	02.3	S 39	15.7
End of northern limit of penumbra	16	00.0	E 28	41.8	S 2	09.0
⊙ Eclipse ends; last contact with Earth	16	51.9	E 11	22.5	S 18	15.8