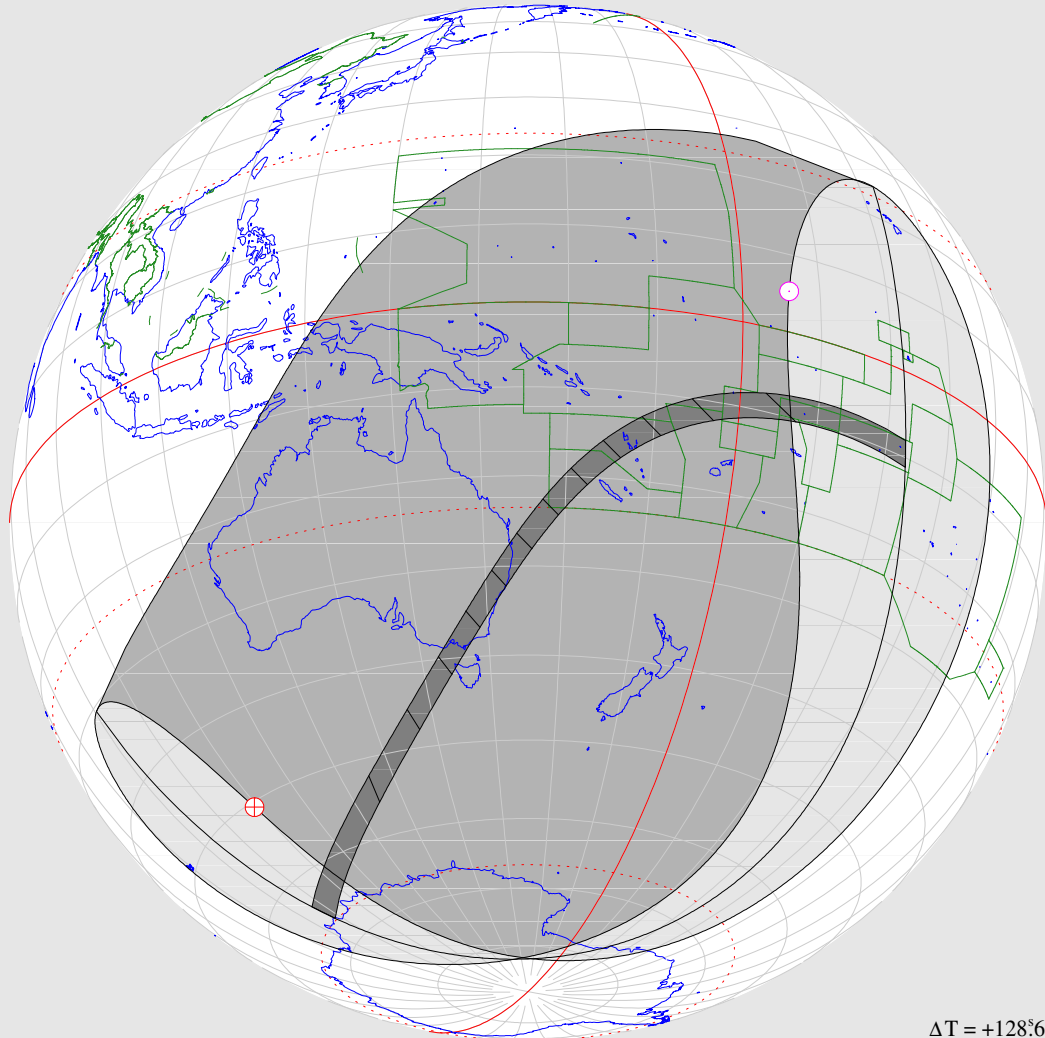


I. - Annular Eclipse of the Sun

1614 April 09



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$\Delta T = +128^s.6$
Globe centred on E 155°5 and S 25°2

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	0	01.1	E 99	17.2	S 50	36.0
Beginning of northern limit of penumbra	0	57.6	E 80	26.6	S 30	29.5
Beginning of northern limit of umbra	1	16.2	E 86	33.3	S 63	28.2
Beginning of centre line; central eclipse begins	1	17.9	E 87	08.1	S 64	52.1
Beginning of southern limit of umbra	1	19.7	E 87	49.3	S 66	17.1
Central eclipse at local apparent noon	2	12.5	E 147	17.6	S 36	32.4
End of southern limit of umbra	4	22.3	W 156	37.9	S 11	03.6
End of centre line; central eclipse ends	4	24.0	W 156	52.4	S 9	33.6
End of northern limit of umbra	4	25.7	W 157	05.9	S 8	05.3
End of northern limit of penumbra	4	44.0	W 157	00.6	N 25	24.1
⊙ Eclipse ends; last contact with Earth	5	40.7	W 174	06.6	N 5	06.3