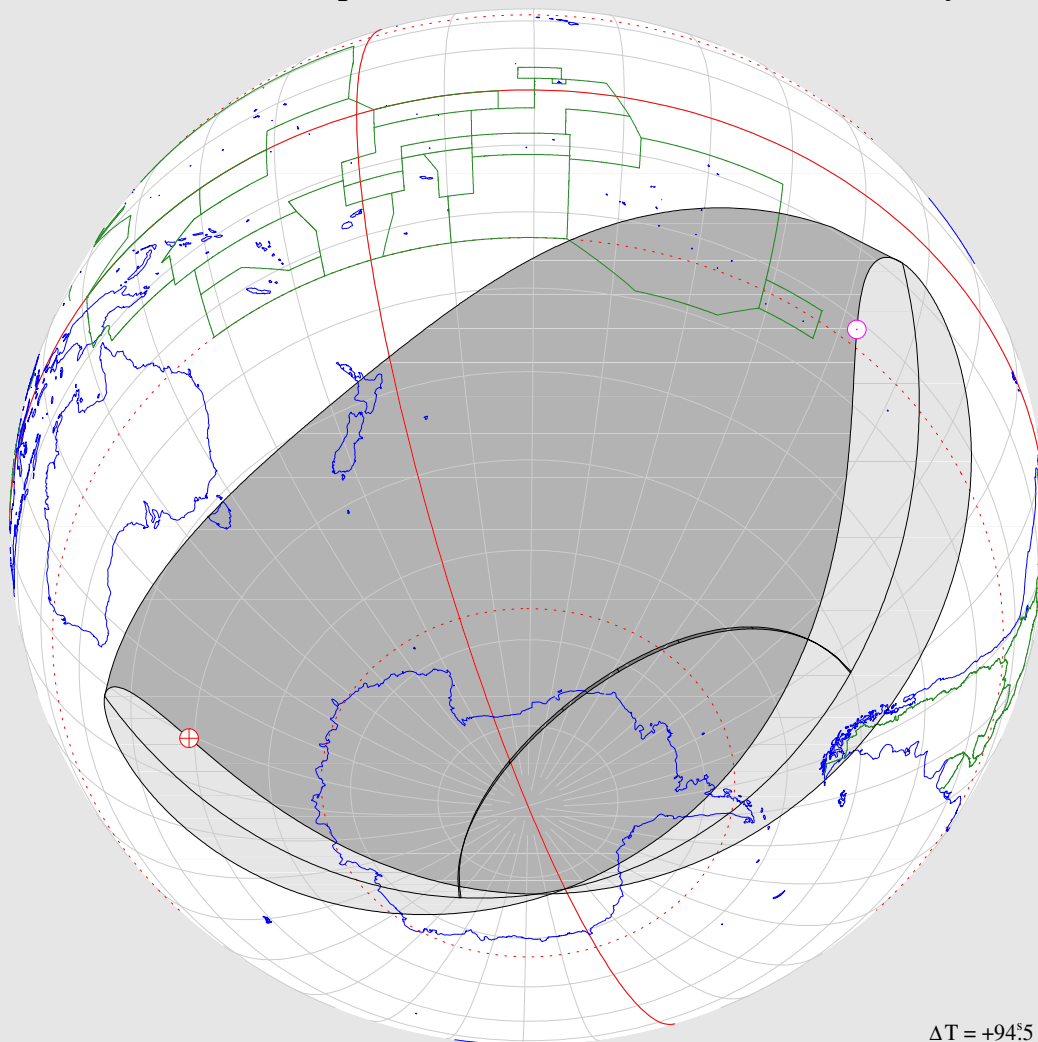


II. - Annular-Total Eclipse of the Sun

1627 February 15-16



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$\Delta T = +94^s.5$
Globe centred on W 160°7 and S 57°4

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	21	58.2	E 109	15.4	S 49	10.1
Beginning of northern limit of penumbra	22	26.9	E 107	57.3	S 35	13.2
Beginning of northern limit of umbra	23	28.6	E 48	52.4	S 74	25.4
Beginning of centre line; central eclipse begins	23	28.8	E 48	33.1	S 74	28.8
Beginning of southern limit of umbra	23	28.9	E 48	13.6	S 74	32.0
Central eclipse at local apparent noon	23	46.7	W172	58.0	S 83	27.5
End of southern limit of umbra	0	55.2	W 84	45.9	S 50	05.7
End of centre line; central eclipse ends	0	55.3	W 84	50.0	S 50	01.7
End of northern limit of umbra	0	55.5	W 84	54.0	S 49	57.7
End of northern limit of penumbra	1	57.0	W114	00.3	S 6	55.8
⊙ Eclipse ends; last contact with Earth	2	25.7	W117	48.8	S 21	12.7