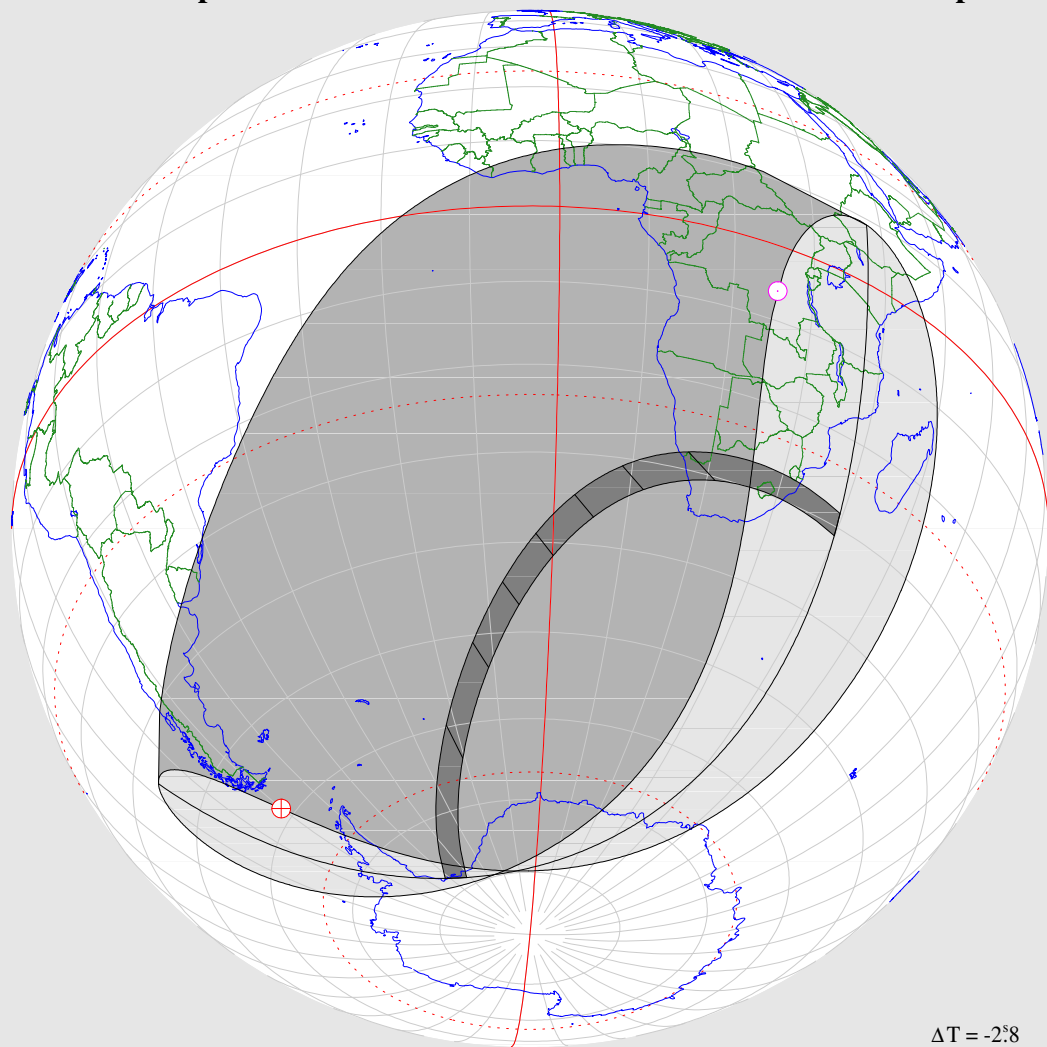


I. - Total Eclipse of the Sun

1874 April 16



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$\Delta T = -2^s 8$
Globe centred on W 3°3' and S 38°5'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	48.7	W 70	10.4	S 58	33.0
Beginning of northern limit of penumbra	12	27.0	W 86	53.8	S 43	50.7
Beginning of northern limit of umbra	13	03.1	W 52	06.9	S 77	26.6
Beginning of centre line; central eclipse begins	13	05.0	W 47	29.5	S 78	08.7
Beginning of southern limit of umbra	13	07.0	W 42	05.9	S 78	45.9
Central eclipse at local apparent noon	13	17.3	W 19	23.8	S 59	57.1
End of southern limit of umbra	14	55.3	E 39	54.0	S 30	58.5
End of centre line; central eclipse ends	14	57.3	E 39	43.5	S 29	40.3
End of northern limit of umbra	14	59.1	E 39	33.6	S 28	24.9
End of northern limit of penumbra	15	35.0	E 37	49.5	N 9	00.7
⊙ Eclipse ends; last contact with Earth	16	13.5	E 25	25.9	S 6	11.2