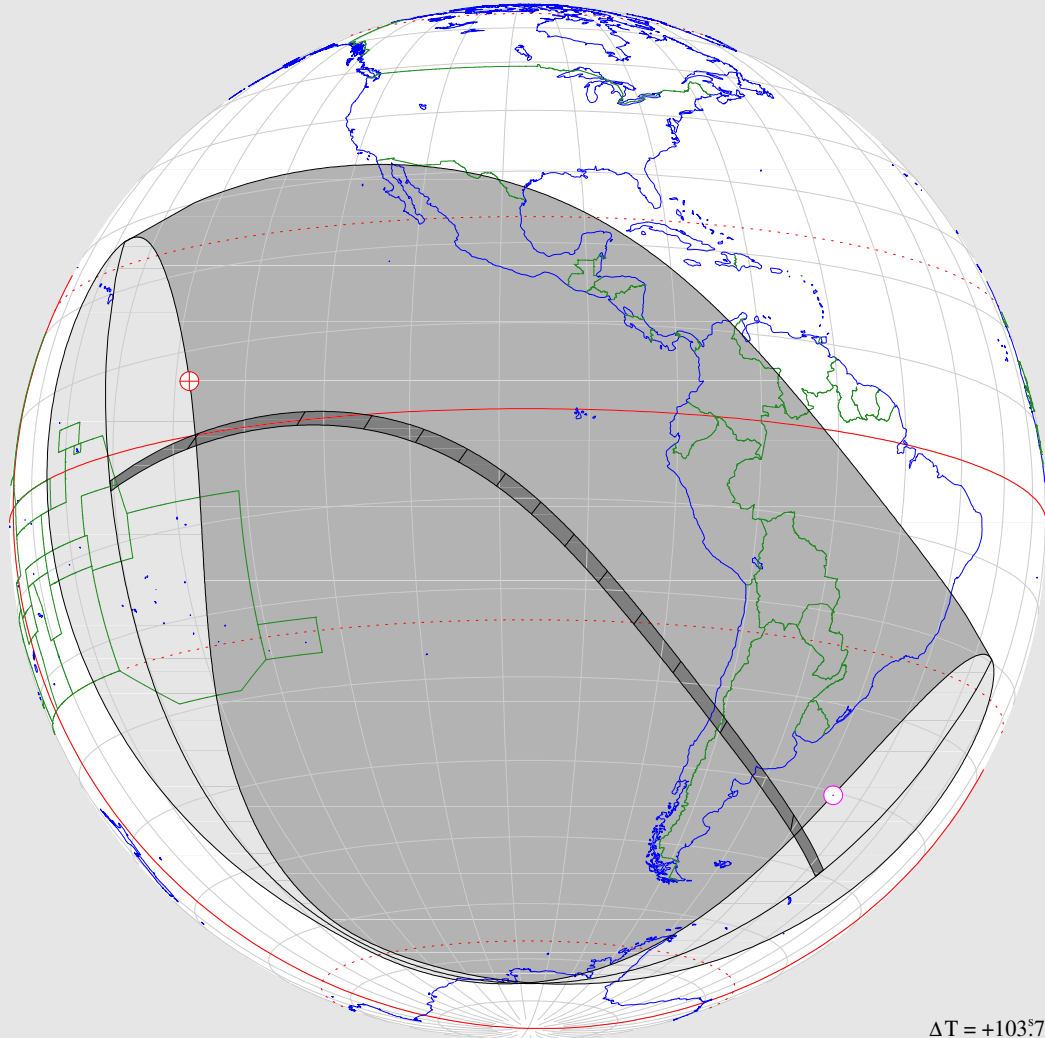


IV. - Total Eclipse of the Sun

2064 August 12



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$\Delta T = +103^s.7$
Globe centred on W 96°8' and S 12°7'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	09.8	W137	53.3	N 6	22.8
Beginning of northern limit of penumbra	16	05.6	W157	52.2	N27	17.0
Beginning of northern limit of umbra	16	10.6	W150	40.3	S 2	54.2
Beginning of centre line; central eclipse begins	16	11.0	W150	37.3	S 3	27.6
Beginning of southern limit of umbra	16	11.4	W150	34.5	S 4	01.3
Central eclipse at local apparent noon	18	06.4	W 90	22.2	S 16	13.8
End of southern limit of umbra	19	17.0	W 36	18.0	S 50	24.2
End of centre line; central eclipse ends	19	17.5	W 36	02.4	S 49	51.3
End of northern limit of umbra	19	17.9	W 35	47.2	S 49	18.6
End of northern limit of penumbra	19	23.2	W 24	53.6	S 19	42.3
⊙ Eclipse ends; last contact with Earth	20	18.7	W 46	10.4	S 40	23.4