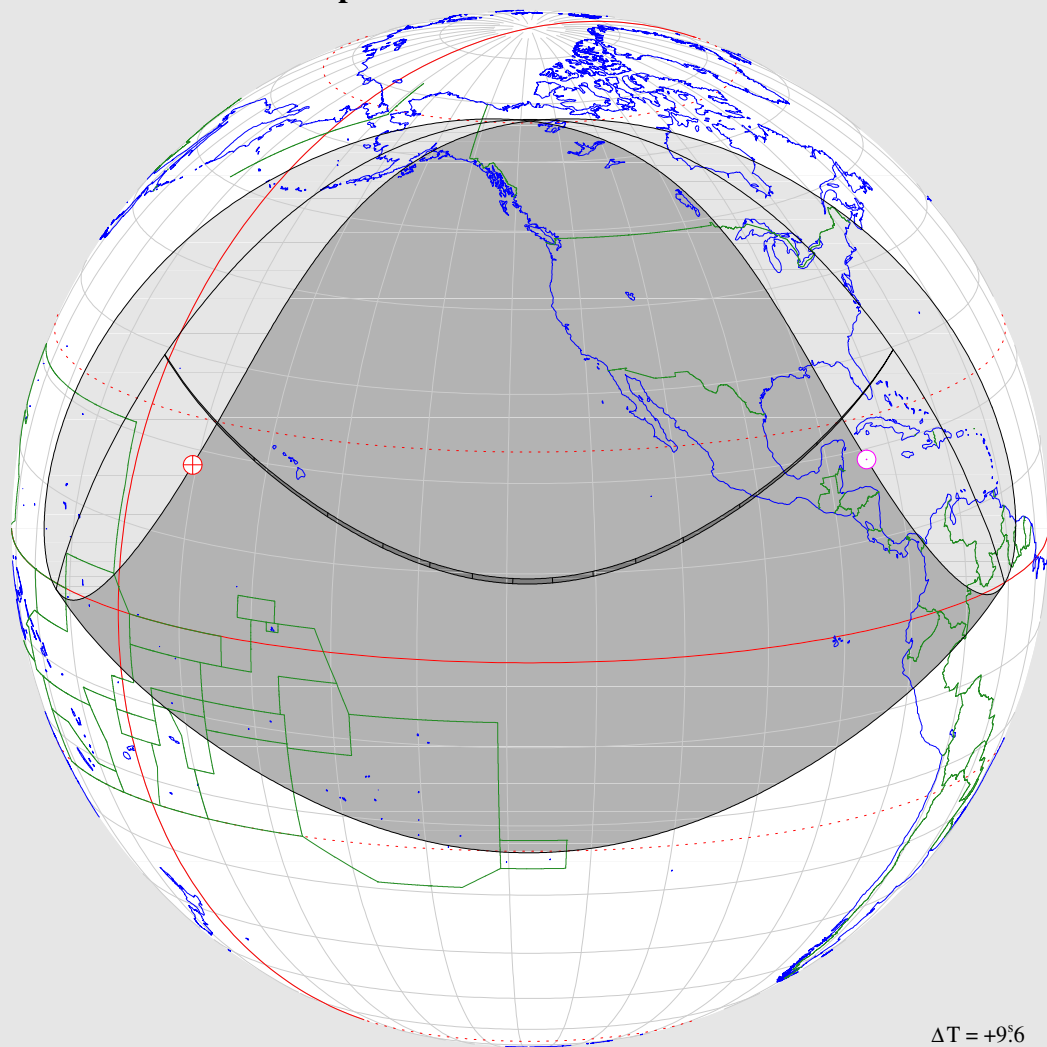


V. - Annular-Total Eclipse of the Sun

1825 December 09



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$\Delta T = +9^s.6$
Globe centred on W 127°4 and N 15°0

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	17	47.2	W170	38.0	N18	13.4
Beginning of southern limit of penumbra	18	45.5	E166	31.2	S 0	42.9
Beginning of centre line; central eclipse begins	18	51.5	E178	53.1	N29	04.5
Beginning of northern limit of umbra	18	51.5	E178	52.6	N29	03.1
Beginning of southern limit of umbra	18	51.5	E178	53.6	N29	05.8
Central eclipse at local apparent noon	20	21.9	W127	16.8	N 9	09.4
End of centre line; central eclipse ends	21	51.7	W 73	37.9	N29	40.7
End of southern limit of umbra	21	51.7	W 73	38.0	N29	41.0
End of northern limit of umbra	21	51.7	W 73	37.8	N29	40.5
End of southern limit of penumbra	21	57.7	W 61	10.4	S 0	06.4
⊙ Eclipse ends; last contact with Earth	22	56.0	W 84	04.6	N18	50.0