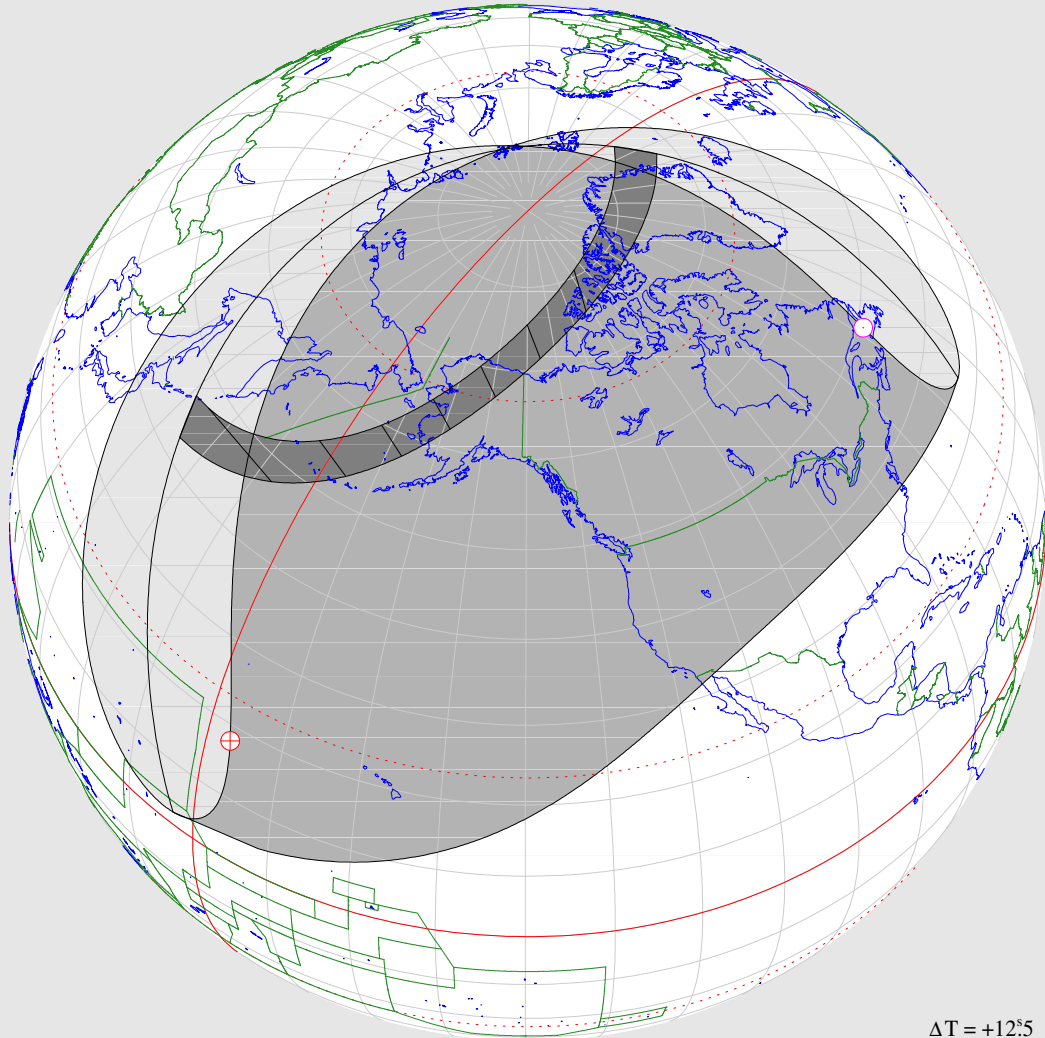


# I. - Annular Eclipse of the Sun

1809 April 14



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$\Delta T = +12^s.5$   
Globe centred on W 139°7' and N 53°0'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	17	35.3	W176	50.0	N17	53.7
Beginning of southern limit of penumbra	18	10.6	E177	03.1	N 2	11.0
Beginning of southern limit of umbra	19	06.7	E154	35.3	N42	31.3
Beginning of centre line; central eclipse begins	19	10.6	E152	57.3	N44	35.9
Beginning of northern limit of umbra	19	14.8	E151	07.7	N46	49.4
Central eclipse at local apparent noon	20	36.1	W128	57.6	N75	19.5
End of northern limit of umbra	20	58.7	W 2	52.3	N75	54.5
End of centre line; central eclipse ends	21	03.0	W 9	38.3	N74	08.4
End of southern limit of umbra	21	06.9	W 14	53.1	N72	23.1
End of southern limit of penumbra	22	03.2	W 54	21.4	N33	39.0
⊙ Eclipse ends; last contact with Earth	22	38.5	W 58	24.0	N49	07.6