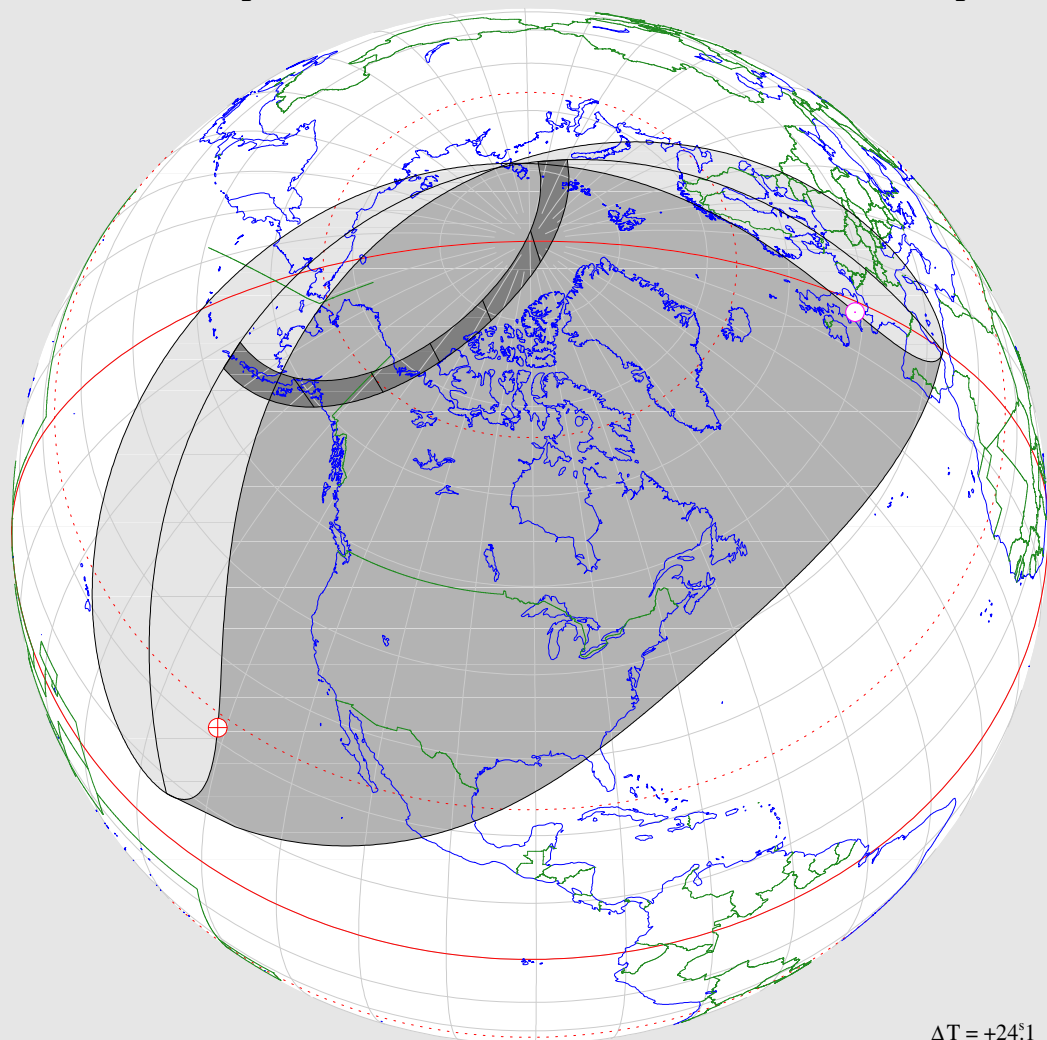


# I. - Annular Eclipse of the Sun

1939 April 19



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$\Delta T = +24^s.1$   
Globe centred on W 90°7 and N 56°6

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	14	26.0	W131	05.4	N21	39.0
Beginning of southern limit of penumbra	14	56.3	W135	41.7	N 7	23.6
Beginning of southern limit of umbra	16	04.7	W165	56.3	N52	18.3
Beginning of centre line; central eclipse begins	16	07.4	W167	24.2	N53	42.1
Beginning of northern limit of umbra	16	10.4	W169	02.7	N55	12.0
Central eclipse at local apparent noon	17	14.1	W 78	42.3	N88	25.1
End of northern limit of umbra	17	20.3	E 84	52.2	N78	35.7
End of centre line; central eclipse ends	17	23.2	E 76	48.1	N78	06.4
End of southern limit of umbra	17	25.9	E 69	54.9	N77	29.9
End of southern limit of penumbra	18	34.4	W 0	16.4	N37	12.4
⊙ Eclipse ends; last contact with Earth	19	04.7	W 2	19.3	N51	08.3