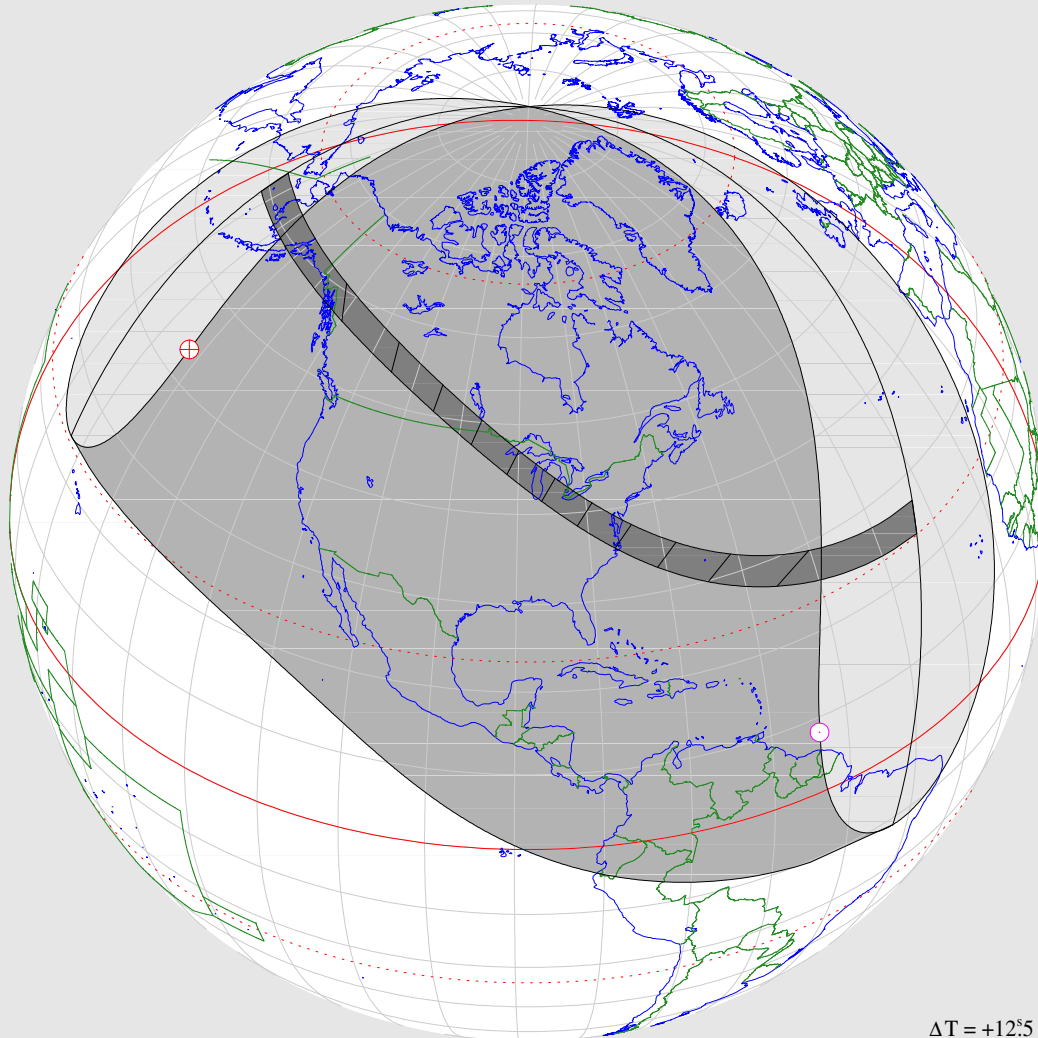


IV. - Annular Eclipse of the Sun

1811 September 17



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$\Delta T = +12^s.5$
Globe centred on W 88°5 and N 39°1

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	55.9	W152	38.8	N43	27.1
Beginning of southern limit of penumbra	16	44.0	W163	26.6	N24	06.6
Beginning of southern limit of umbra	17	14.4	W173	59.9	N58	55.3
Beginning of centre line; central eclipse begins	17	16.9	W174	54.1	N60	38.5
Beginning of northern limit of umbra	17	19.5	W175	52.9	N62	24.7
Central eclipse at local apparent noon	18	17.9	W 95	50.2	N48	12.4
End of northern limit of umbra	20	07.9	W 32	07.4	N27	07.6
End of centre line; central eclipse ends	20	10.5	W 32	51.6	N25	21.0
End of southern limit of umbra	20	12.9	W 33	33.4	N23	37.4
End of southern limit of penumbra	20	43.1	W 42	36.9	S 11	18.7
⊙ Eclipse ends; last contact with Earth	21	31.3	W 53	52.3	N 8	05.5