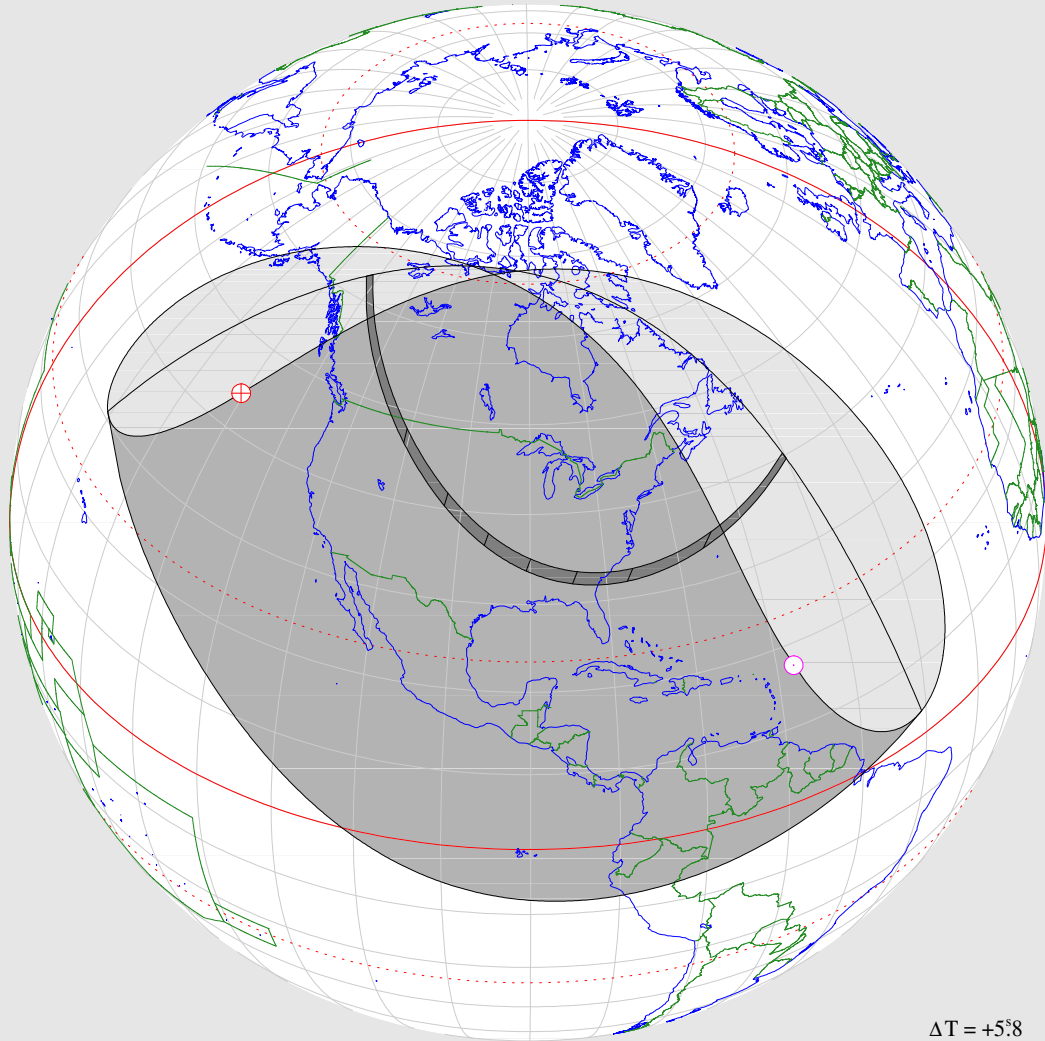


# IV. - Total Eclipse of the Sun

1834 November 30



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$\Delta T = +5^s.8$   
Globe centred on W 90°3 and N 39°1

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	16	41.7	W140	37.0	N44	01.7
Beginning of southern limit of penumbra	17	26.5	W160	45.5	N30	39.8
Beginning of southern limit of umbra	18	01.1	W132	56.5	N62	36.1
Beginning of centre line; central eclipse begins	18	01.7	W132	19.8	N62	51.7
Beginning of northern limit of umbra	18	02.4	W131	41.8	N63	07.2
Central eclipse at local apparent noon	18	33.0	W101	01.4	N40	07.7
End of northern limit of umbra	19	50.8	W 50	13.8	N40	20.7
End of centre line; central eclipse ends	19	51.5	W 50	06.9	N39	58.2
End of southern limit of umbra	19	52.1	W 50	00.3	N39	36.0
End of southern limit of penumbra	20	26.6	W 40	45.3	N 3	22.6
⊙ Eclipse ends; last contact with Earth	21	11.4	W 57	48.0	N17	26.2