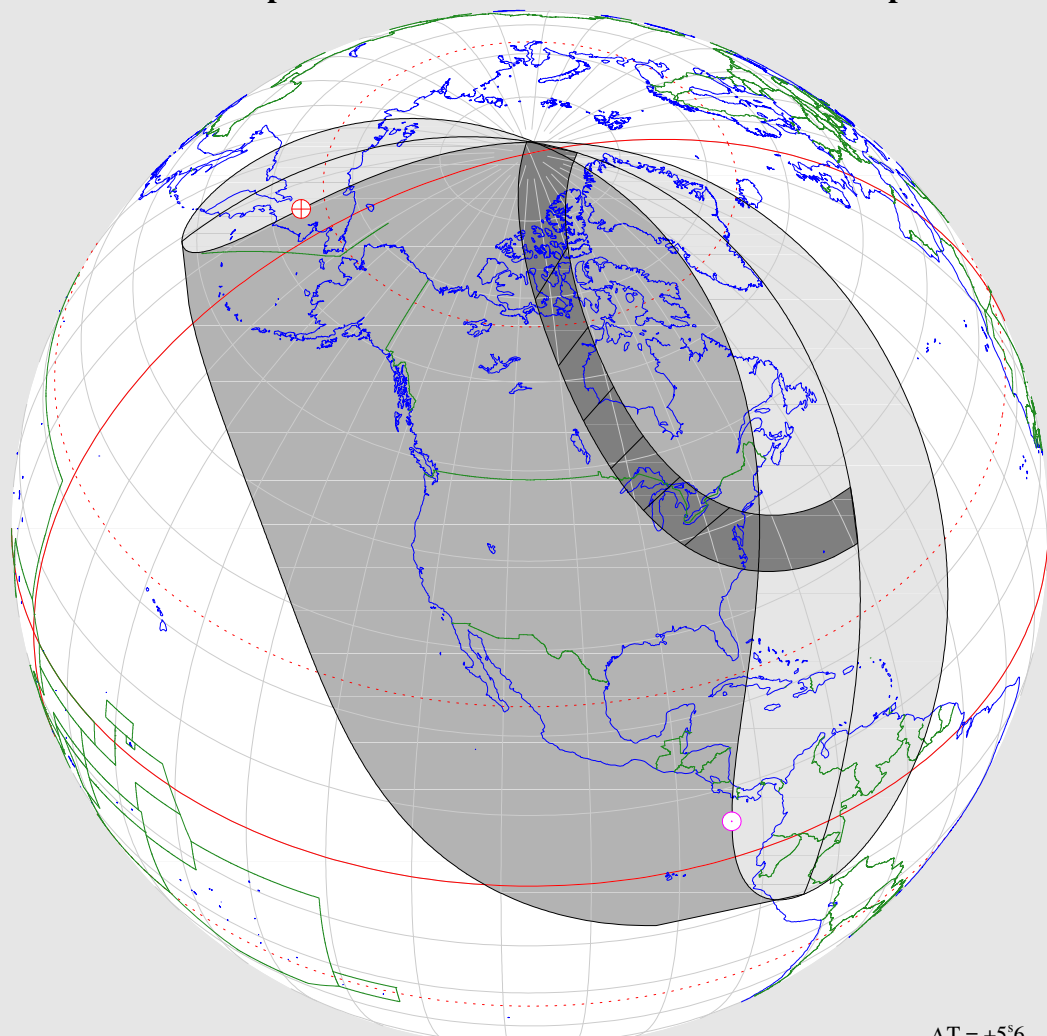


### III. - Annular Eclipse of the Sun

1838 September 18



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$\Delta T = +5^s.6$   
Globe centred on W 106°8 and N 43°6

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	18 22.3	E 169 13.8	N 63 38.8
Beginning of southern limit of penumbra	19 02.1	E 160 57.7	N 47 47.5
Beginning of southern limit of umbra	19 56.7	E 83 29.7	N 88 00.4
Beginning of centre line; central eclipse begins	20 01.7	E 11 40.2	N 87 21.9
Beginning of northern limit of umbra	20 07.4	W 13 05.7	N 84 45.8
End of northern limit of umbra	21 44.9	W 56 23.1	N 36 39.4
End of centre line; central eclipse ends	21 50.5	W 57 56.2	N 33 38.3
End of southern limit of umbra	21 55.5	W 59 18.4	N 30 54.0
End of southern limit of penumbra	22 49.8	W 74 16.3	S 10 39.1
⊙ Eclipse ends; last contact with Earth	23 29.8	W 83 46.9	N 5 20.1