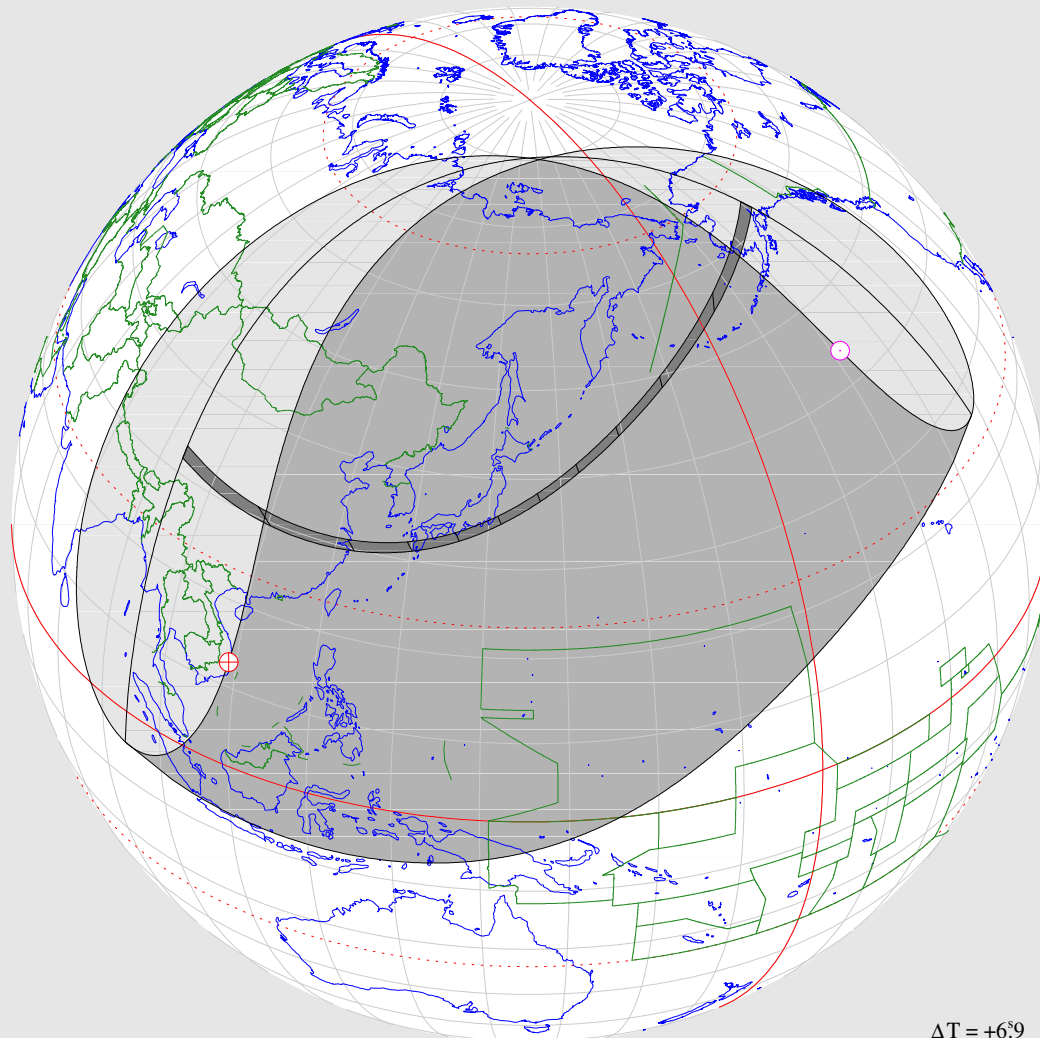


# I. - Annular Eclipse of the Sun

## 1849 February 22-23



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$\Delta T = +6^s.9$   
Globe centred on E 145°6 and N 35°0

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	23 07.0	E 108 59.1	N 12 56.1
Beginning of southern limit of penumbra	23 54.3	E 94 03.4	S 4 26.9
Beginning of southern limit of umbra	0 23.6	E 93 43.0	N 31 37.9
Beginning of centre line; central eclipse begins	0 24.6	E 93 38.4	N 32 22.0
Beginning of northern limit of umbra	0 25.7	E 93 33.8	N 33 06.6
Central eclipse at local apparent noon	2 01.3	E 153 06.2	N 41 18.4
End of northern limit of umbra	2 50.1	W 149 25.9	N 63 19.2
End of centre line; central eclipse ends	2 51.2	W 149 04.6	N 62 38.6
End of southern limit of umbra	2 52.1	W 148 44.9	N 61 58.3
End of southern limit of penumbra	3 21.6	W 142 00.0	N 26 37.4
⊙ Eclipse ends; last contact with Earth	4 08.8	W 158 23.7	N 43 48.5