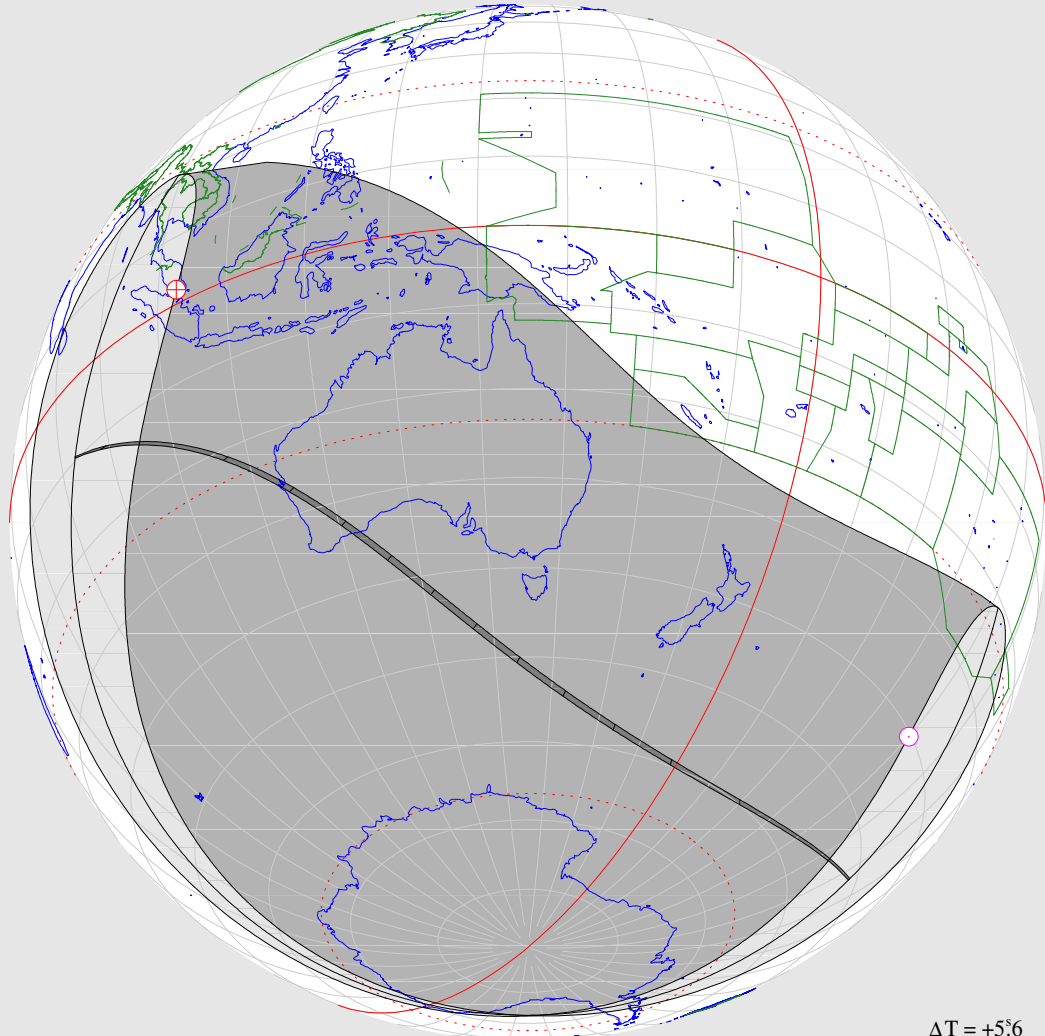


# IV. - Total Eclipse of the Sun

1836 November 08-09



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$\Delta T = +5^s.6$   
Globe centred on E 145°6' and S 35°0'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	22	55.0	E 102	50.6	N 1	59.4
Beginning of northern limit of penumbra	23	35.1	E 99	08.7	N 21	44.7
Beginning of northern limit of umbra	23	59.2	E 83	17.1	S 9	31.3
Beginning of centre line; central eclipse begins	23	59.3	E 83	14.1	S 9	36.2
Beginning of southern limit of umbra	23	59.4	E 83	11.1	S 9	41.0
Central eclipse at local apparent noon	1	52.4	E 147	53.3	S 52	15.1
End of southern limit of umbra	2	58.9	W 116	26.8	S 51	22.0
End of centre line; central eclipse ends	2	59.1	W 116	33.3	S 51	16.5
End of northern limit of umbra	2	59.2	W 116	39.8	S 51	10.9
End of northern limit of penumbra	3	23.5	W 138	13.4	S 20	54.3
⊙ Eclipse ends; last contact with Earth	4	03.4	W 139	56.0	S 40	18.3