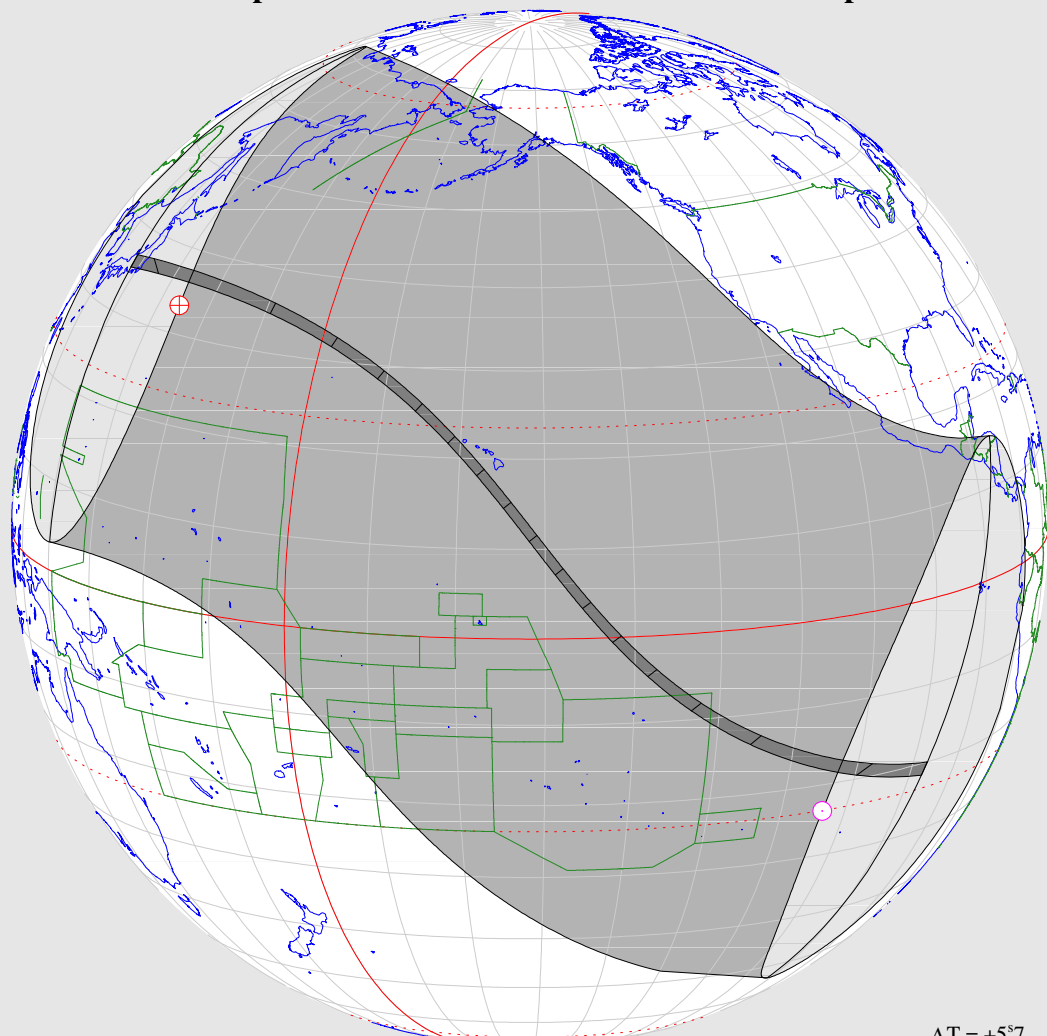


V. - Annular Eclipse of the Sun

1839 September 07-08



$\Delta T = +5^s.7$

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Globe centred on W 151°7' and N 12°3'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	19	24.6	E 154	19.0	N 33	14.4
Beginning of southern limit of umbra	20	29.1	E 137	52.9	N 35	11.3
Beginning of centre line; central eclipse begins	20	29.4	E 137	40.8	N 35	58.5
Beginning of northern limit of umbra	20	29.7	E 137	28.4	N 36	45.8
Beginning of southern limit of penumbra	20	35.9	E 140	09.9	N 3	08.3
Beginning of northern limit of penumbra	21	03.1	E 115	04.0	N 71	30.1
Central eclipse at local apparent noon	22	15.1	W 154	17.4	N 14	50.4
End of northern limit of penumbra	23	44.1	W 84	51.9	N 15	25.5
End of southern limit of penumbra	0	10.4	W 101	22.4	S 53	32.5
End of northern limit of umbra	0	17.0	W 97	00.3	S 20	00.8
End of centre line; central eclipse ends	0	17.4	W 97	10.8	S 20	49.7
End of southern limit of umbra	0	17.6	W 97	21.1	S 21	38.4
⊙ Eclipse ends; last contact with Earth	1	22.2	W 113	44.4	S 23	34.3