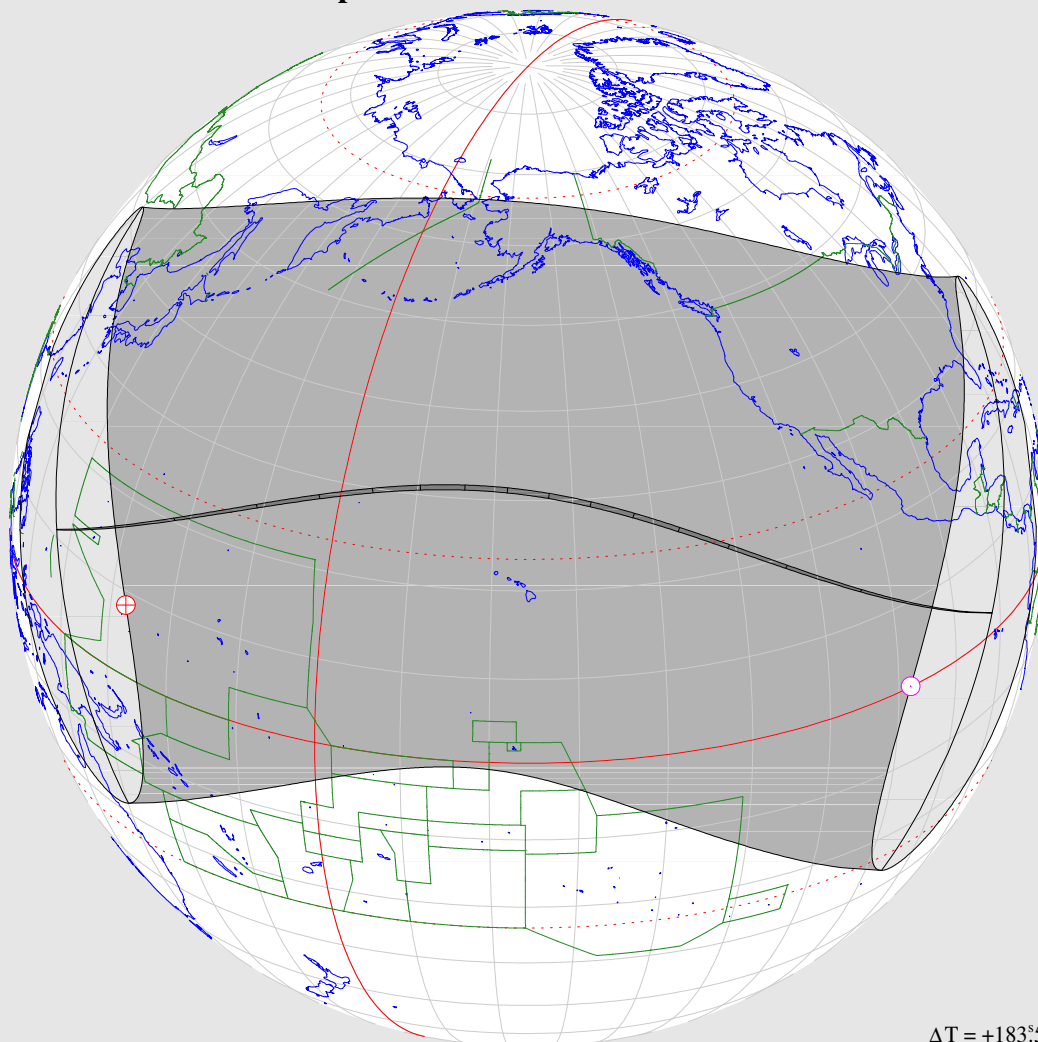


II. - Annular-Total Eclipse of the Sun

1564 June 08-09



$\Delta T = +183^s.5$

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Globe centred on W 155°7' and N 26°9'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	19	34.8	E 152	38.8	N 8	24.1
Beginning of southern limit of penumbra	20	32.6	E 150	04.9	S 18	11.0
Beginning of southern limit of umbra	20	35.0	E 136	32.5	N 10	47.5
Beginning of centre line; central eclipse begins	20	35.0	E 136	33.7	N 10	45.6
Beginning of northern limit of umbra	20	35.0	E 136	34.8	N 10	43.7
Beginning of northern limit of penumbra	21	09.7	E 109	48.9	N 41	45.6
Central eclipse at local apparent noon	22	22.6	W 155	37.2	N 30	51.5
End of northern limit of penumbra	23	37.8	W 67	24.9	N 33	57.6
End of southern limit of umbra	0	12.5	W 92	01.0	N 2	26.7
End of northern limit of umbra	0	12.5	W 92	01.7	N 2	25.6
End of centre line; central eclipse ends	0	12.5	W 92	01.4	N 2	26.2
End of southern limit of penumbra	0	14.8	W 106	06.3	S 26	23.9
⊙ Eclipse ends; last contact with Earth	1	12.7	W 108	06.2	N 0	04.2