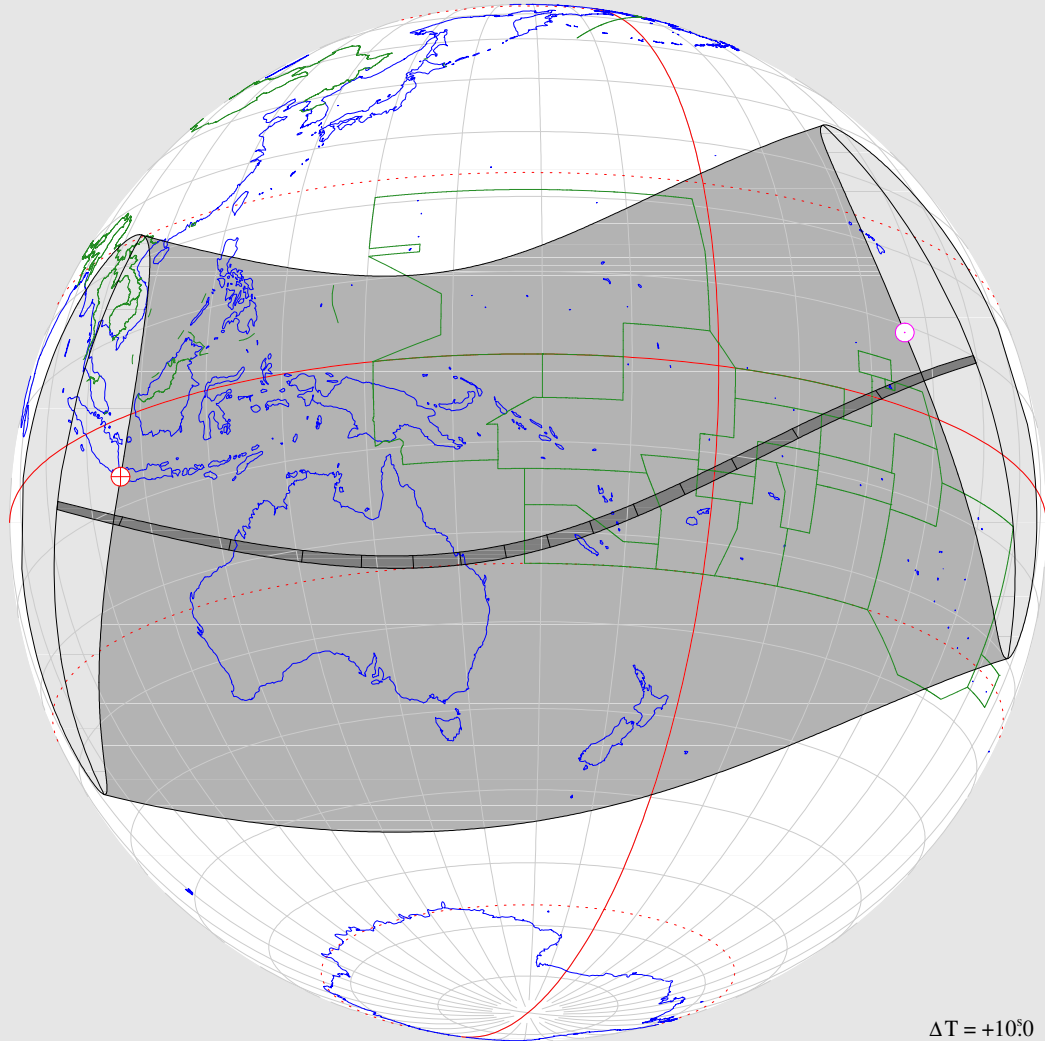


# VII. - Total Eclipse of the Sun

1712 December 27-28



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$\Delta T = +10^{\circ}0$   
Globe centred on E 158 $^{\circ}$ .4 and S 19 $^{\circ}$ .0

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	$^{\circ}$	'	$^{\circ}$	'
⊕ Eclipse begins; first contact with Earth	22	46.3	E 106	05.2	S 6	37.5
Beginning of northern limit of umbra	23	41.7	E 92	41.2	S 5	36.0
Beginning of centre line; central eclipse begins	23	41.8	E 92	29.1	S 6	00.0
Beginning of southern limit of umbra	23	41.9	E 92	16.9	S 6	24.0
Beginning of northern limit of penumbra	23	50.8	E 103	48.9	N 23	51.9
Beginning of southern limit of penumbra	0	03.3	E 72	09.9	S 34	57.6
Central eclipse at local apparent noon	1	25.3	E 159	13.2	S 21	26.4
End of southern limit of penumbra	2	46.2	W 122	09.5	S 19	40.6
End of northern limit of penumbra	2	58.5	W 154	29.3	N 38	58.5
End of southern limit of umbra	3	07.5	W 140	23.7	N 9	18.5
End of centre line; central eclipse ends	3	07.7	W 140	36.2	N 9	42.6
End of northern limit of umbra	3	07.8	W 140	48.5	N 10	06.7
⊙ Eclipse ends; last contact with Earth	4	03.2	W 154	11.9	N 9	05.1