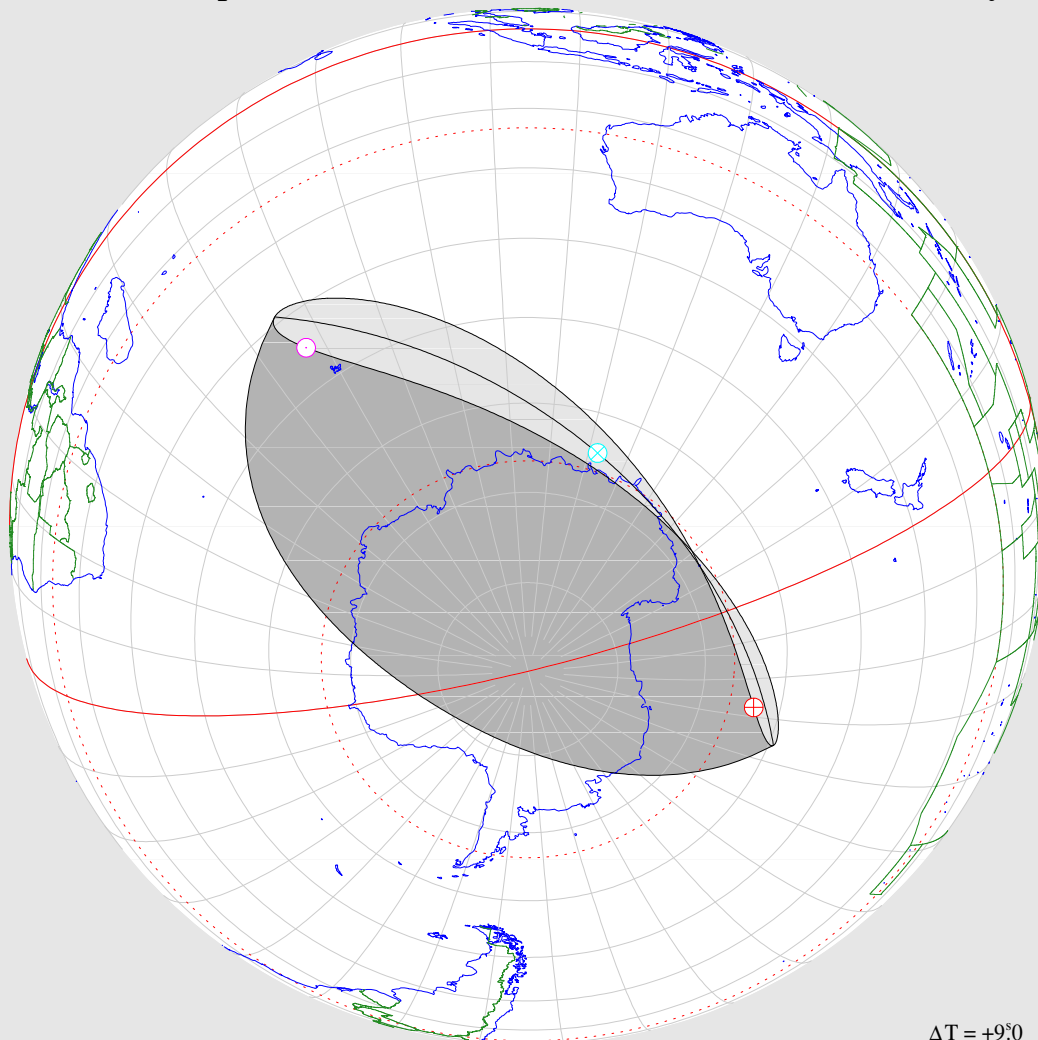


I. - Partial Eclipse of the Sun

1693 January 06



©HM Nautical Almanac Office

$\Delta T = +9^s 0$
Globe centred on E 104°2 and S 73°8

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	12 35.3	W152 26.4	S 63 24.3
Beginning of northern limit of penumbra	12 47.1	W143 59.7	S 59 19.7
⊗ Greatest eclipse (magnitude = 0.3097)	13 55.4	E 122 20.5	S 64 26.6
End of northern limit of penumbra	15 04.1	E 65 13.9	S 39 01.2
⊙ Eclipse ends; last contact with Earth	15 15.7	E 67 02.2	S 44 53.8