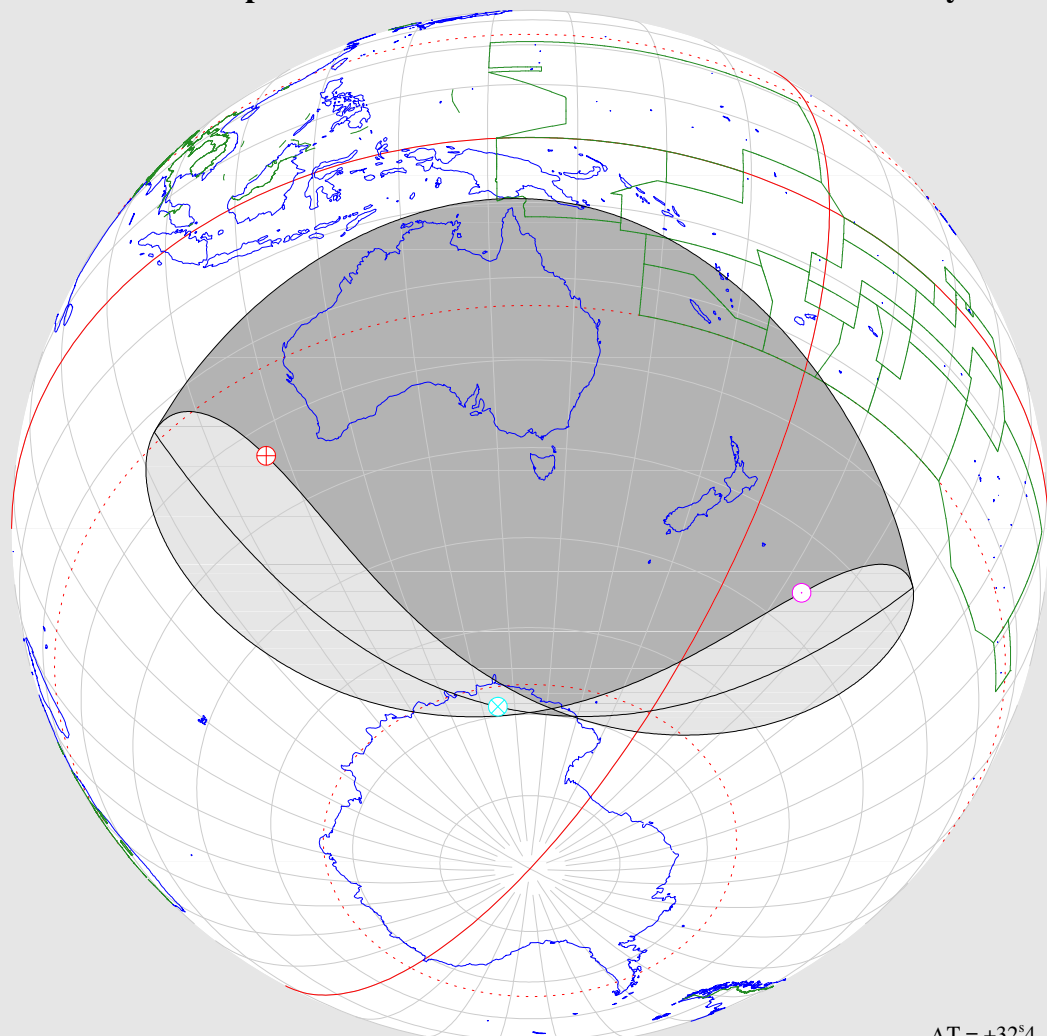


III. - Partial Eclipse of the Sun

1664 July 22-23



©HM Nautical Almanac Office

$\Delta T = +32^s.4$
Globe centred on E 144°7' and S 49°0'

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	23 52.4	E 107 11.8	S 33 16.7
Beginning of northern limit of penumbra	0 27.5	E 93 09.6	S 22 14.9
⊗ Greatest eclipse (magnitude = 0.9584)	1 48.2	E 134 48.8	S 68 50.4
End of northern limit of penumbra	3 08.9	W 150 39.1	S 35 09.8
○ Eclipse ends; last contact with Earth	3 43.9	W 166 32.7	S 45 48.9