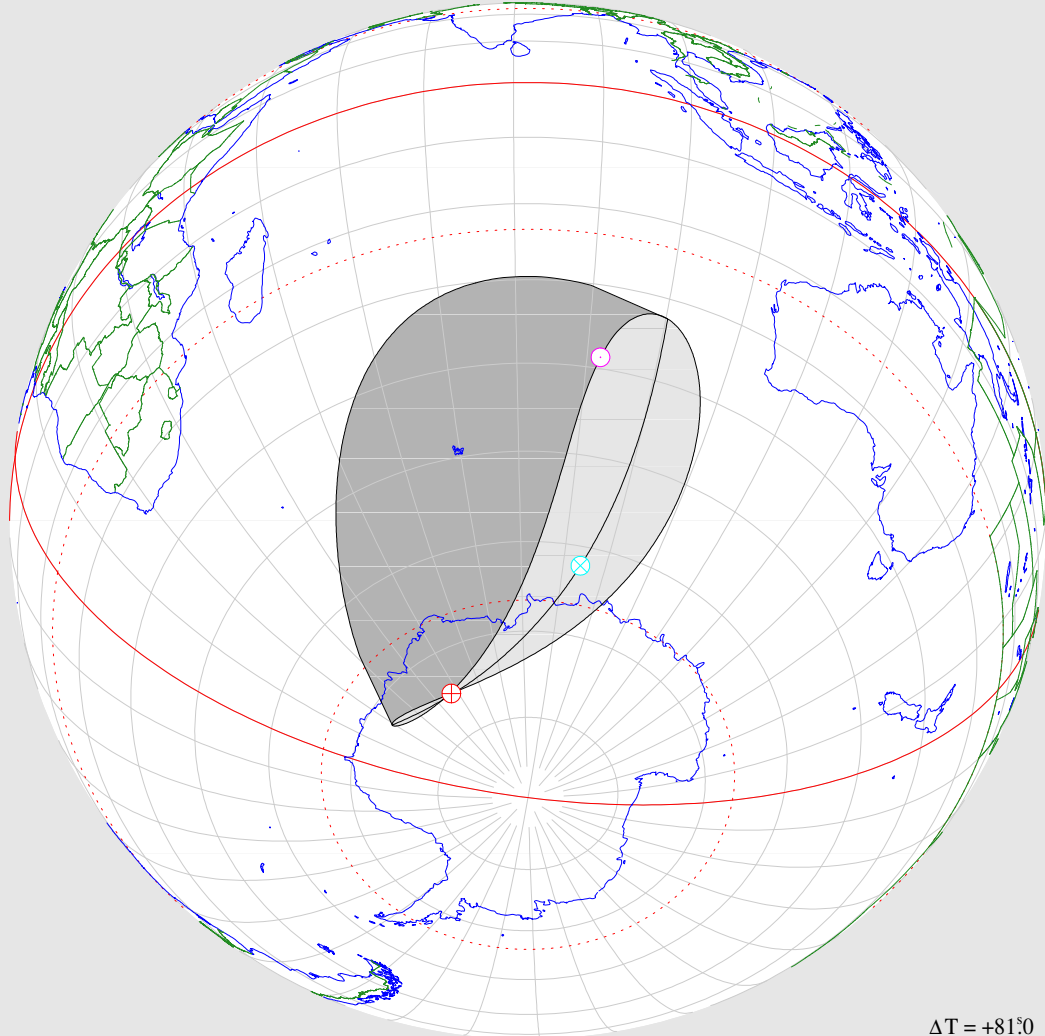


I. - Partial Eclipse of the Sun

1631 May 01



©HM Nautical Almanac Office

$\Delta T = +81^{\text{s}}0$
Globe centred on E 81°6' and S 57°7'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	8 17.2	E 47 11.2	S 74 50.7
Beginning of northern limit of penumbra	8 40.2	E 19 16.1	S 72 47.7
⊗ Greatest eclipse (magnitude = 0.2677)	9 38.0	E 94 06.4	S 62 09.1
End of northern limit of penumbra	10 36.4	E 100 14.4	S 32 27.4
○ Eclipse ends; last contact with Earth	10 59.3	E 91 55.3	S 38 41.0