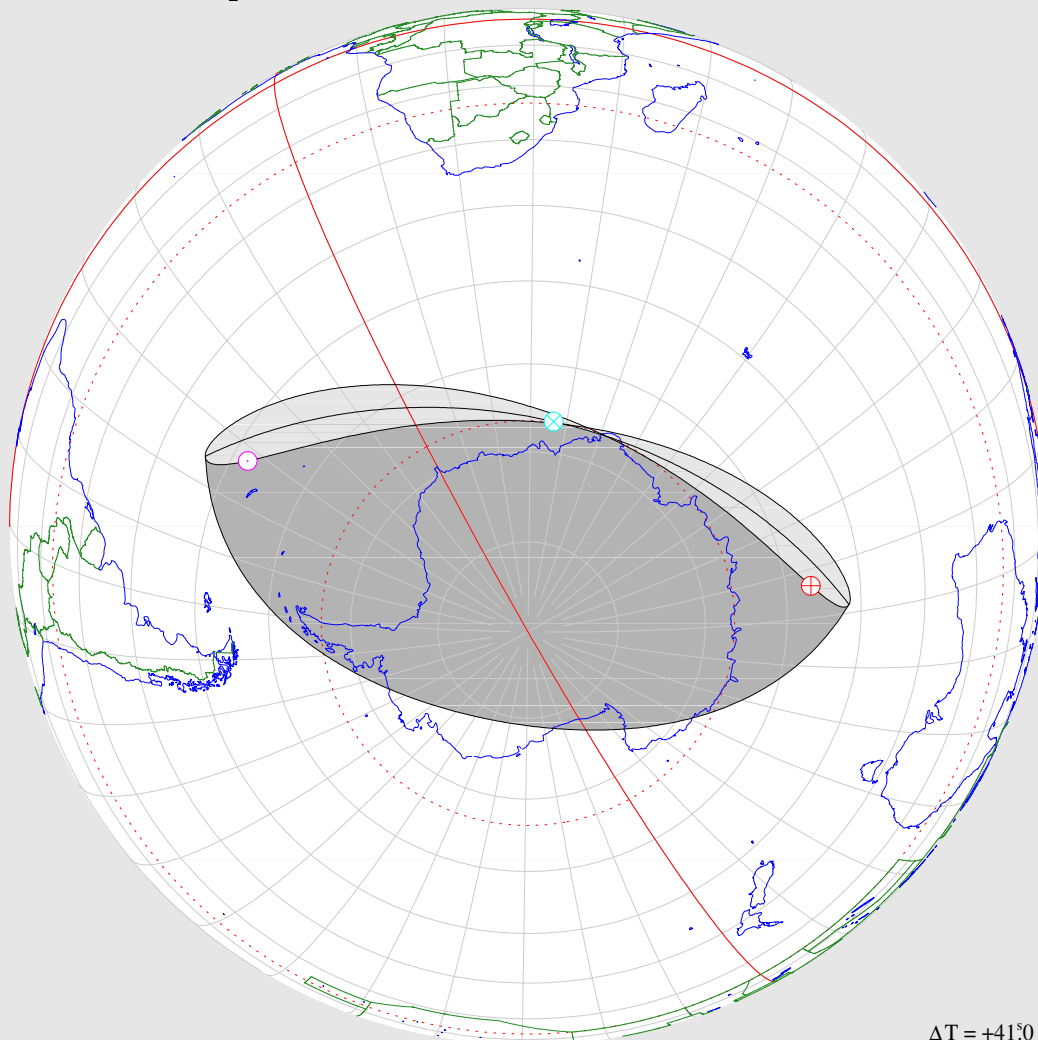


# V. - Partial Eclipse of the Sun

1656 December 15



©HM Nautical Almanac Office

$\Delta T = +41^s 0$   
Globe centred on E 29°3' and S 78°3'

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	19 38.2	E 113 22.8	S 56 43.5
Beginning of northern limit of penumbra	19 49.8	E 118 26.9	S 51 43.4
⊗ Greatest eclipse (magnitude = 0.3102)	20 59.2	E 36 23.9	S 66 25.4
End of northern limit of penumbra	22 08.6	W 35 47.4	S 46 38.5
○ Eclipse ends; last contact with Earth	22 20.3	W 32 16.0	S 52 03.8