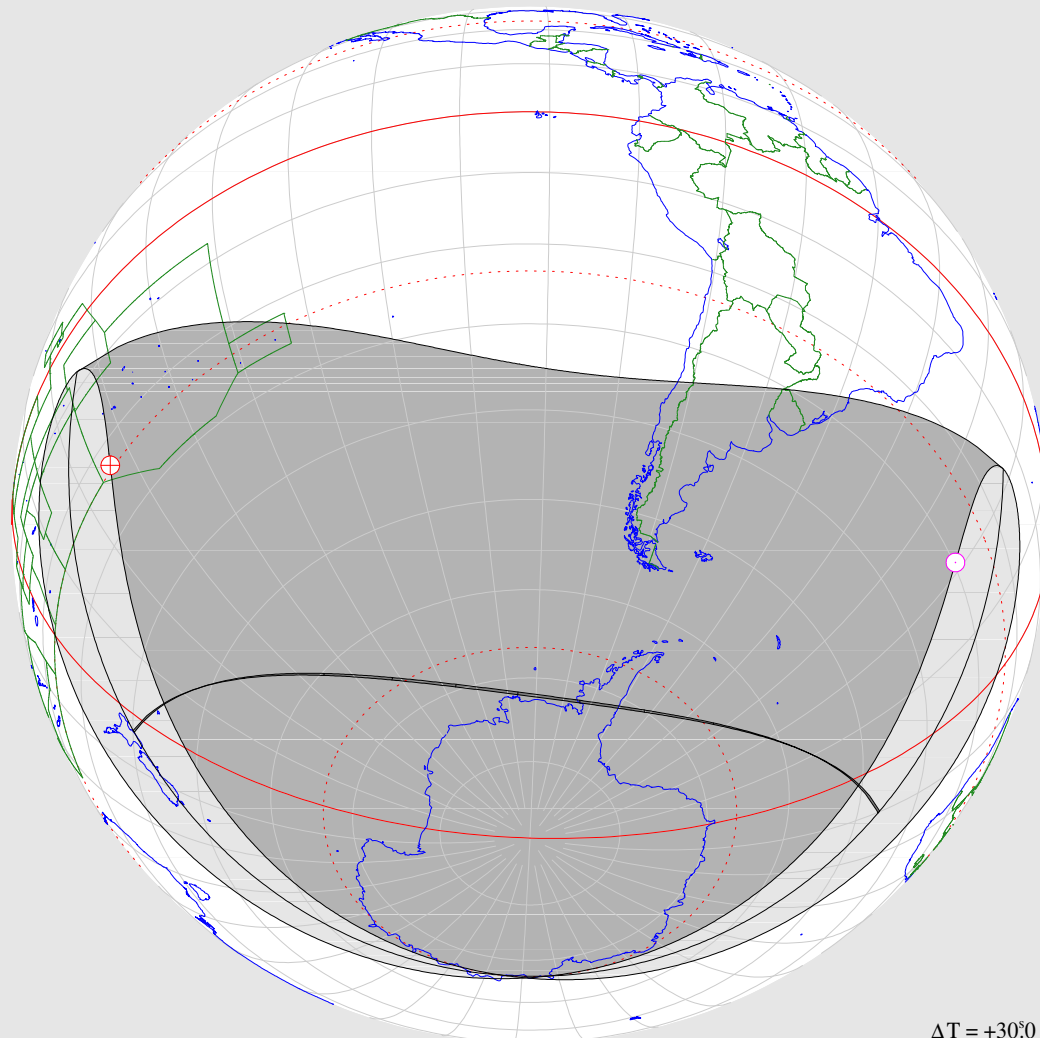


VI. - Annular-Total Eclipse of the Sun

1666 December 25



©HM Nautical Almanac Office

$\Delta T = +30^{\circ}0$
Globe centred on W 92°2 and S 52°8

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	33.9	W153	44.1	S 22	54.4
Beginning of northern limit of penumbra	16	04.0	W153	57.8	S 7	27.1
Beginning of northern limit of umbra	16	47.6	E 177	03.1	S 40	03.3
Beginning of centre line; central eclipse begins	16	47.7	E 176	56.6	S 40	08.5
Beginning of southern limit of umbra	16	47.9	E 176	50.1	S 40	13.8
Central eclipse at local apparent noon	18	04.0	W 90	42.1	S 72	02.3
End of southern limit of umbra	19	09.5	E 10	08.7	S 46	34.8
End of centre line; central eclipse ends	19	09.7	E 9	59.6	S 46	28.8
End of northern limit of umbra	19	09.9	E 9	50.6	S 46	22.7
End of northern limit of penumbra	19	53.5	W 21	42.1	S 14	22.5
⊙ Eclipse ends; last contact with Earth	20	23.6	W 21	18.5	S 29	41.5