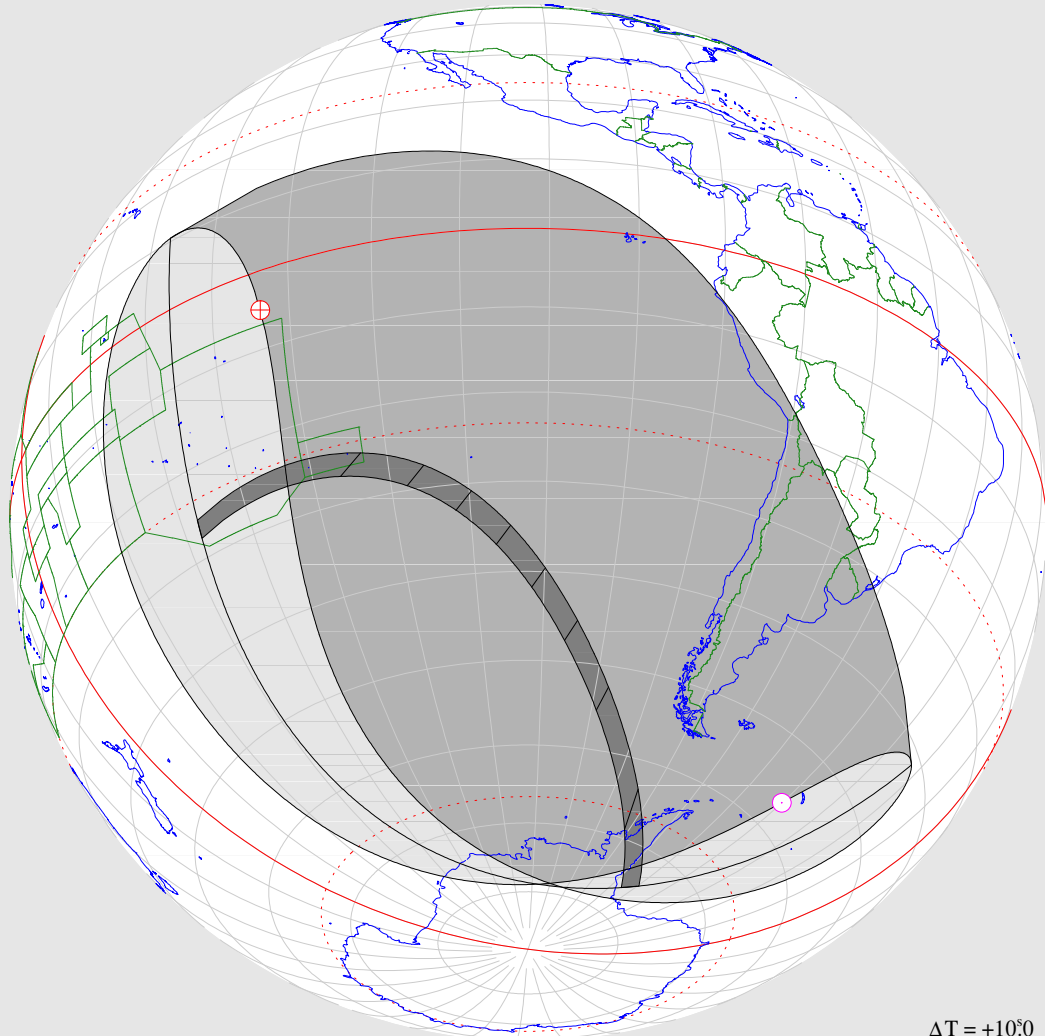


IV. - Total Eclipse of the Sun

1710 August 24



©HM Nautical Almanac Office

$\Delta T = +10^{\circ}0$
Globe centred on W 102°4 and S 34°6

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	15	00.6	W133	37.6	S 5	07.4
Beginning of northern limit of penumbra	15	41.4	W146	57.1	N10	34.1
Beginning of northern limit of umbra	16	13.6	W147	27.2	S 25	42.5
Beginning of centre line; central eclipse begins	16	15.1	W147	33.9	S 26	43.7
Beginning of southern limit of umbra	16	16.6	W147	40.9	S 27	46.4
Central eclipse at local apparent noon	17	58.6	W 89	08.8	S 52	59.4
End of southern limit of umbra	18	17.1	W 54	59.8	S 75	50.2
End of centre line; central eclipse ends	18	18.6	W 52	03.2	S 75	09.0
End of northern limit of umbra	18	20.1	W 49	27.8	S 74	26.2
End of northern limit of penumbra	18	52.6	W 22	35.0	S 41	15.6
⊙ Eclipse ends; last contact with Earth	19	33.2	W 40	02.1	S 56	26.6