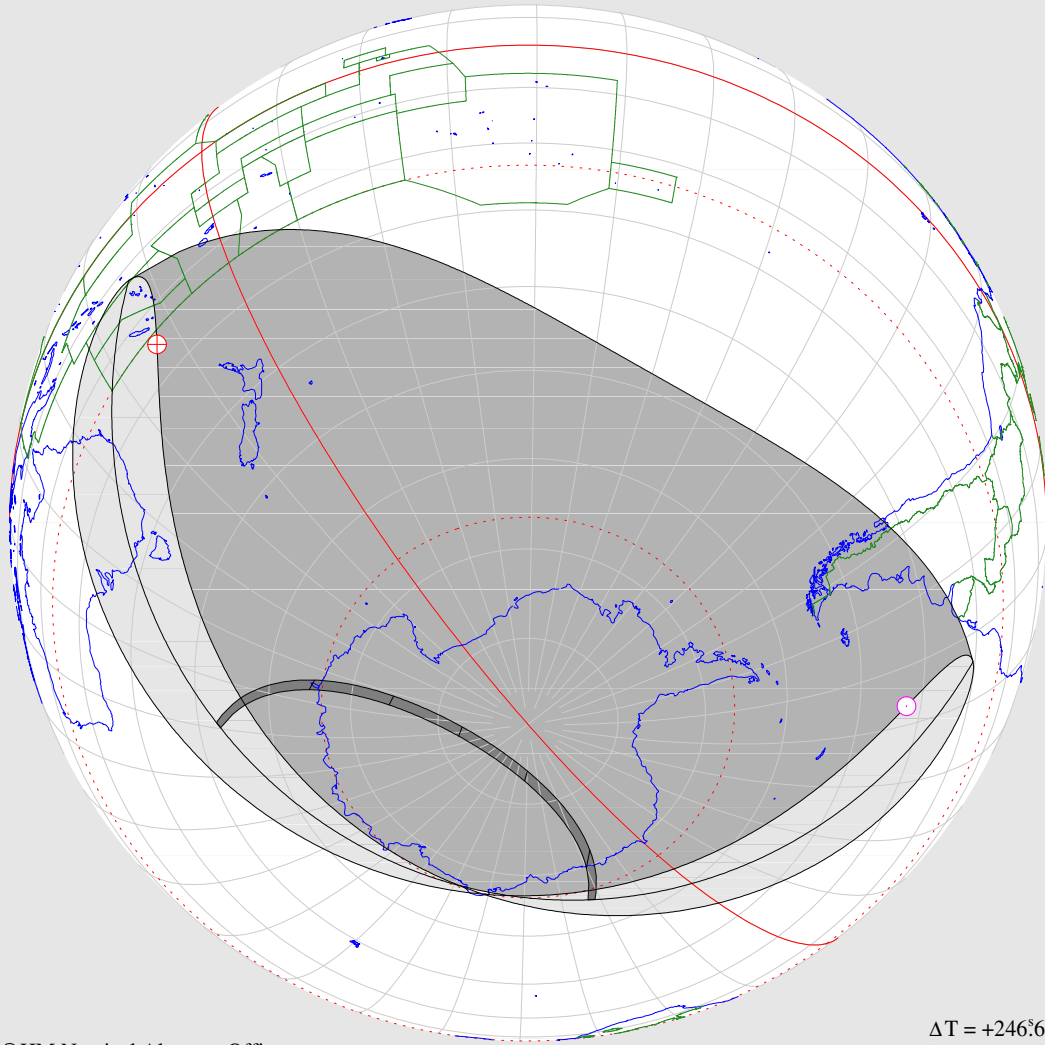


IV. - Total Eclipse of the Sun

1518 December 02



©HM Nautical Almanac Office

$\Delta T = +246^s.6$
Globe centred on W 141°0 and S 67°1

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	18	01.3	E 166	42.5	S 25	13.6
Beginning of northern limit of penumbra	18	25.2	E 166	52.9	S 12	35.5
Beginning of northern limit of umbra	19	33.9	E 121	08.6	S 52	38.5
Beginning of centre line; central eclipse begins	19	34.5	E 120	39.9	S 52	53.0
Beginning of southern limit of umbra	19	35.0	E 120	10.6	S 53	07.5
Central eclipse at local apperent midnight	20	27.9	E 51	40.7	S 84	24.9
End of southern limit of umbra	20	46.3	E 23	08.8	S 64	57.1
End of centre line; central eclipse ends	20	46.9	E 22	15.5	S 64	49.4
End of northern limit of umbra	20	47.5	E 21	23.5	S 64	41.6
End of northern limit of penumbra	21	56.3	W 45	51.8	S 30	28.0
○ Eclipse ends; last contact with Earth	22	20.1	W 43	17.6	S 42	31.8