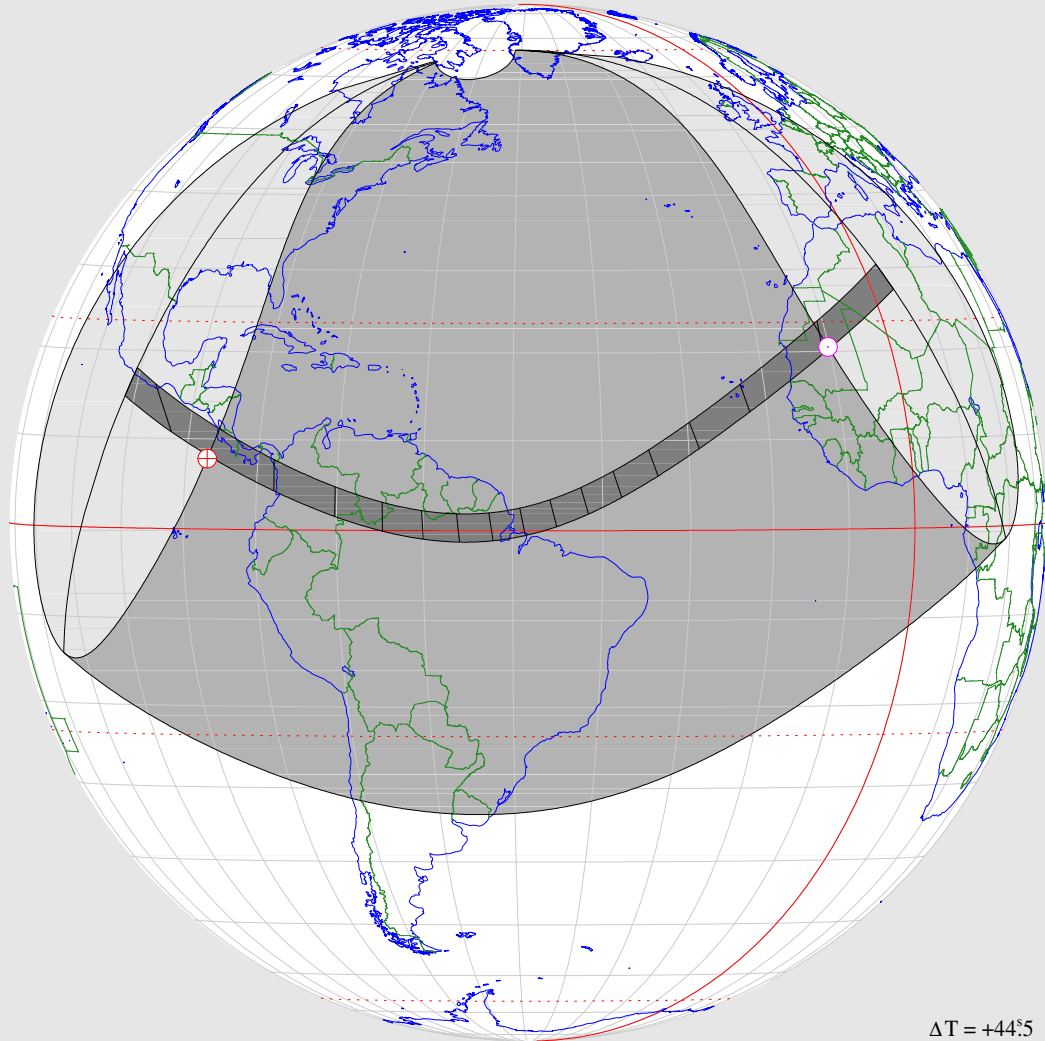


VII. - Annular Eclipse of the Sun

1973 December 24



©HM Nautical Almanac Office

$\Delta T = +44^s.5$   
Globe centred on W 48°3' and N 0°9'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	12	01.0	W 86	57.3	N 7	48.1
Beginning of southern limit of umbra	13	12.9	W101	47.8	N14	43.0
Beginning of centre line; central eclipse begins	13	13.7	W101	14.4	N16	19.3
Beginning of northern limit of umbra	13	14.6	W100	41.4	N17	56.8
Beginning of southern limit of penumbra	13	17.4	W115	43.0	S 14	10.0
Beginning of northern limit of penumbra	14	47.8	W 71	48.1	N63	29.1
Central eclipse at local apparent noon	15	08.0	W 47	05.4	N 1	26.0
End of northern limit of penumbra	15	15.9	W 51	48.5	N66	33.6
End of southern limit of penumbra	16	46.6	E 18	52.7	S 1	23.4
End of northern limit of umbra	16	49.2	E 2	50.4	N30	29.7
End of centre line; central eclipse ends	16	50.1	E 3	33.2	N28	54.1
End of southern limit of umbra	16	50.9	E 4	15.4	N27	19.5
⊙ Eclipse ends; last contact with Earth	18	02.9	W 10	07.4	N20	31.4