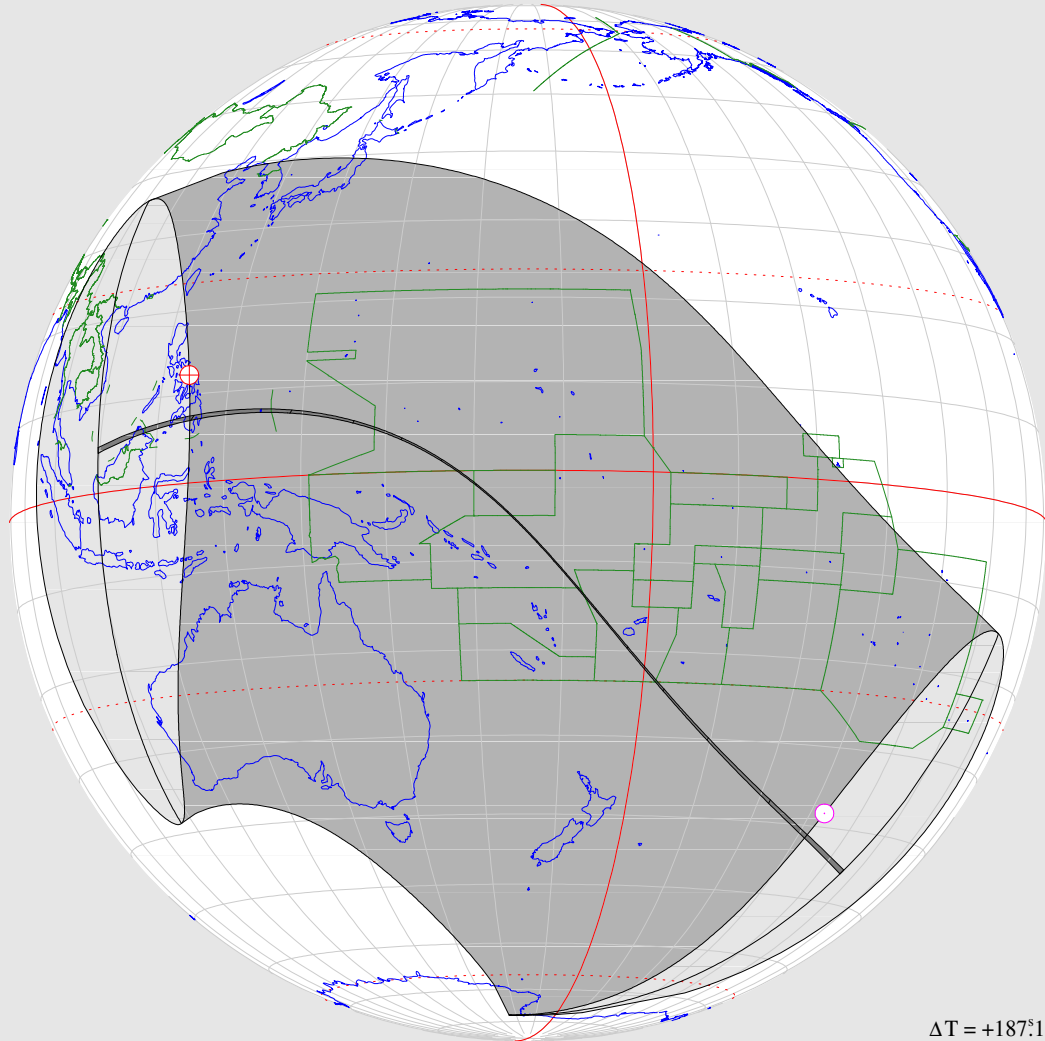


IV. - Annular Eclipse of the Sun

1561 August 10-11



©HM Nautical Almanac Office

$\Delta T = +187^s.1$
Globe centred on E 166°0 and S 5°8

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	21	35.6	E 124	02.4	N 12	16.3
Beginning of northern limit of umbra	22	39.6	E 109	38.1	N 5	08.3
Beginning of centre line; central eclipse begins	22	39.8	E 109	39.9	N 4	48.7
Beginning of southern limit of umbra	22	40.0	E 109	41.7	N 4	29.1
Beginning of northern limit of penumbra	22	40.8	E 101	15.8	N 36	04.5
Beginning of southern limit of penumbra	23	34.4	E 107	11.5	S 38	37.5
Central eclipse at local apparent noon	0	43.2	E 169	52.7	S 11	00.8
End of southern limit of penumbra	1	12.9	E 156	12.6	S 77	32.9
End of northern limit of penumbra	2	07.3	W 124	23.9	S 14	27.1
End of southern limit of umbra	2	07.8	W 134	18.1	S 45	47.9
End of centre line; central eclipse ends	2	07.9	W 134	12.3	S 45	30.3
End of northern limit of umbra	2	08.1	W 134	06.7	S 45	12.6
⊙ Eclipse ends; last contact with Earth	3	12.1	W 147	17.6	S 38	12.5