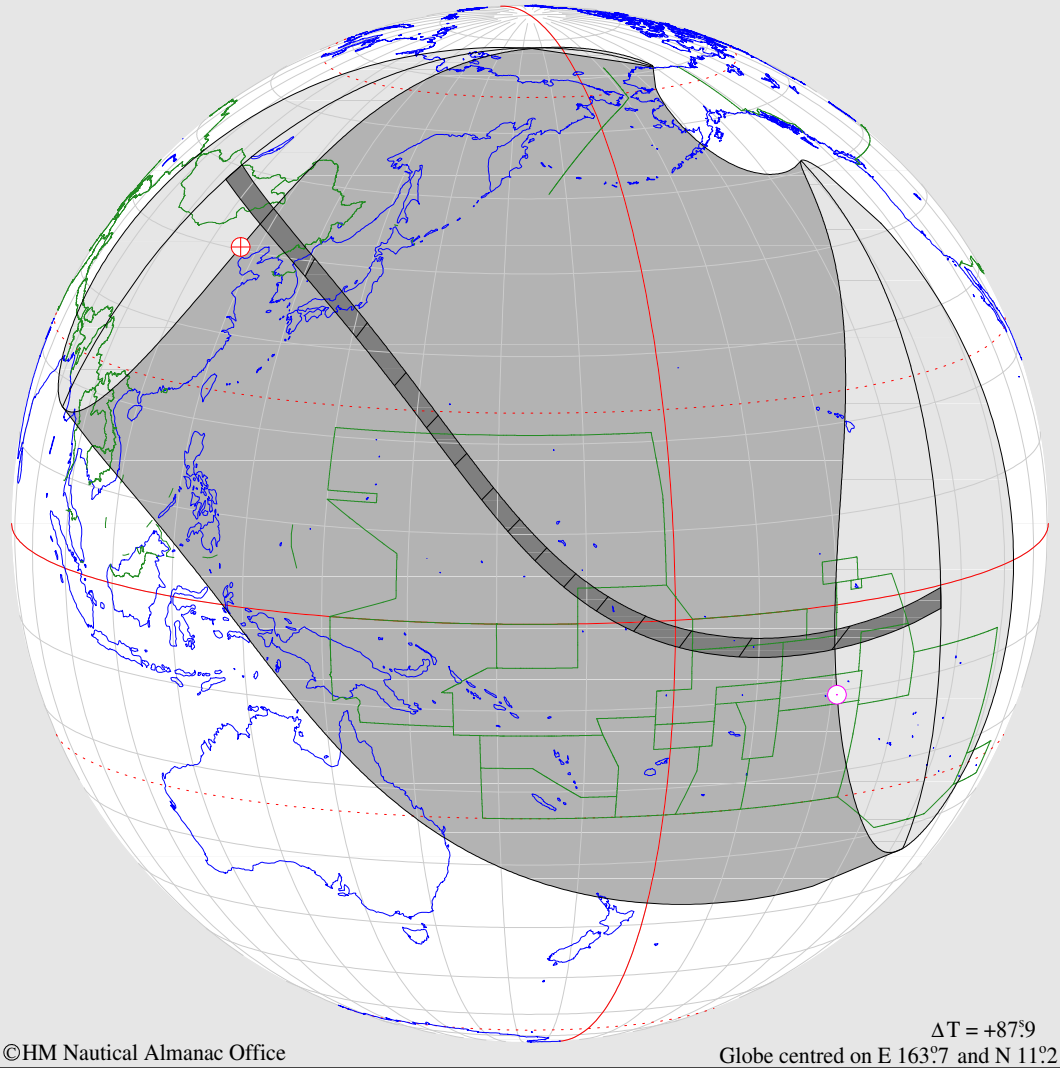
III. - Annular Eclipse of the Sun — 2041 October 24-25



ΔT = +87.s9

Globe centred on E 163.°7 and N 11.°2

Circumstances	Time (UT) h m	Longitude ° ′	Latitude ° ′
⊕ Eclipse begins; first contact with Earth	22 39.6	E 116 38.9	N 40 19.4
Beginning of southern limit of penumbra	23 46.7	E 93 07.4	N 17 01.3
Beginning of southern limit of umbra	23 48.6	E 102 39.5	N 47 53.1
Beginning of centre line; central eclipse begins	23 49.3	E 103 02.9	N 49 02.6
Beginning of northern limit of umbra	23 50.2	E 103 27.5	N 50 12.5
Central eclipse at local apparent noon	1 11.5	E 158 08.1	N 15 17.6
Beginning of northern limit of penumbra	1 11.6	W150 09.3	N 70 48.7
End of northern limit of penumbra	1 59.0	W139 24.1	N 51 22.3
End of northern limit of umbra	3 19.8	W143 52.9	S 0 17.5
End of centre line; central eclipse ends	3 20.6	W143 49.6	S 1 29.0
End of southern limit of umbra	3 21.4	W143 45.6	S 2 39.7
End of southern limit of penumbra	3 22.9	W136 23.2	S 33 48.3
⊙ Eclipse ends; last contact with Earth	4 30.3	W159 16.3	S 10 25.5